

# A LADOK3 Python API

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## **Abstract**

We provide a Python wrapper for the LADOK3 REST API. This wrapper provide a useful object-oriented framework for working with LADOK and direct API calls that return the unprocessed JSON data directly from LADOK.

We also provide a command-line interface (CLI) for the library. We then construct some useful (shell) scripts using this CLI. These scripts automates the reporting of results from Canvas to LADOK.

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# Chapter 1

## Introduction

LADOK (abbreviation of Lokalt Adb-baserat DOKumentationssystem, in Swedish) is the national documentation system for higher education in Sweden. This is the documented source code of `ladok3`, a LADOK3 API wrapper for Python.

The `ladok3` library provides a non-GUI application (a command-line interface, CLI) that, similar to access via a web browser, only provides the user with access to the LADOK data and functionality that they would actually have based on their specific user permissions in LADOK. It can be seen as a very streamlined web browser just for LADOK's web interface. While the library exploits caching to reduce the load on the LADOK server, this represents a subset of the information that would otherwise be obtained via LADOK's web GUI export functions.

You can install the `ladok3` package by running

```
1 python3 -m pip install ladok3 # to use it in Python, or
2 pipx install ladok3           # to just use the CLI
```

in the terminal.

Then you can use the CLI by running `ladok` in the terminal. The command has built-in help, simply run `ladok -h` to see the available commands. However, the first thing you want to run after installing the package is

```
3 ladok login
```

This will set up your credentials for the CLI. However, if you want to use the library in a script, you can read

```
4 ladok login -h
```

for alternative ways of providing your credentials.

For use in Python scripts, we provide the main class `LadokSession` (Section 9.1). The `LadokSession` class acts like 'factories' and will return objects representing various LADOK data. These data objects' classes inherit the `LadokData` (Section 9.2.1) and `LadokRemoteData` (Section 9.2.3) classes. Data of the type `LadokData` is not expected to change, unlike `LadokRemoteData`, which is. Objects of type `LadokRemoteData` know how to update themselves, i.e., fetch and refresh their data from LADOK. When relevant they can also write data to LADOK, i.e., update entries such as results.

One design criteria is to improve performance. We do this by caching all factory methods of any `LadokSession`. The `LadokSession` itself is also designed to be



cacheable: if the session to LADOK expires, it will automatically reauthenticate to establish a new session.

You can find a quick reference by running

```
5 pydoc ladok3 # doesn't work if installed with pipx
```

## **Part I**

# **Example applications**

## Chapter 2

# Transfer results from Canvas to LADOK

In this chapter we'll see some scripts for reporting results from Canvas to LADOK. These scripts are run as cronjobs. This means that they run unattended and only produce output when they need attention.

We want to report results for courses that are titled 'DD2520 VT25', 'DD1310 HT24', 'DD1317 HT24', and similar in Canvas. The advantage to using this command is that it will automatically report the correct dates and everyone who has participated in the grading of each student—as required by regulation. The official tools, like KTH Transfer to Ladok or SUNET's version of the same, don't do this. They don't set the dates correctly, meaning that each individual should have a separate date (date of submission). They also don't register the graders in LADOK. For each results, everyone who participated in the grading process should be registered in LADOK.

We'll have a script `<ladok.sh (never defined)>` that is run by cron. It's useful to load our profile, so that we have our normal environment.

```
4a <ladok.sh 4a>≡  
    #!/bin/bash  
    . ${HOME}/.profile
```

This definition is continued in chunk 4b.  
Root chunk (not used in this document).

We also want some helper functions and a main function that is only run when the script is run. If the script is sourced, the main function is not run. This way we can use the helper functions in our terminal.

The design is that all functions output lines expected by `ladok report`. This way, we can simply pipe the output of the main function to `ladok report -fv` to report them. This also makes it easy to debug the script by running it in the terminal and seeing what it would report.

```
4b <ladok.sh 4a>+≡  
    <constants 5a>  
    <helper functions 8b>  
  
    main() {  
        <main script 5b>  
    }
```

```
# Only run if this is the main script
if [[ "${BASH_SOURCE[0]}" == "${0}" ]]; then
    main "$@" | ladok report -fv
fi
```

We need to report more than once for a course. All students might not be done by the time of reporting. When they're done, we must report the results again<sup>1</sup>. Sometimes a student finishes a course years after it ended. To speed up execution it's better to report results for a sliding window of courses, instead of all courses. For those rare cases when a student finishes a course years after it ended, we can report the results manually for that course again—by importing and invoking the functions below in the terminal.

<sup>1</sup>And students have a right to do this without having to reregister on a later course round.

We'll let YEARS be a regex for the years that we're interested in reporting for. We'll use the current year and the previous year. The advantage of this window is that when we pass new year's eve, the autumn courses are still current for a few weeks—but the year is the wrong one. As a side effect, during autumn we report results for any late results for the previous year too.

To construct the regex for years, we simply take a sequence of years (24 25) and make a regex ((24|25)) out of it.

```
5a <constants 5a>≡
YEAR=$(date +%y)
LOOKBACK=5
YEARS=$(echo -n "("; \
    seq $((YEAR - $LOOKBACK)) $YEAR \
    | sed -zE "s/\s/|/g" \
    | sed "s/|$/)/")
```

This code is used in chunk 4b.

## 2.1 Reporting results on course components

We want a script that reports the results for all courses, including all previous years, to LADOK. We want to do this for previous years as sometimes they finish assignments years after the course ended.

We'll add a function that takes a course regex and a component regex and reports the results to LADOK. To report the modules, we sometimes need to override the default summary function of canvaslms<sup>2</sup>. We want something like <main script 5b> below.

<sup>2</sup>For details on canvaslms results, see Chapters 10 and 11 in its documentation, found on <https://github.com/dbosk/canvaslms/releases/tag/v4.7>. Particularly Chapter 11 discusses the summary modules. You can also read pydoc canvaslms.grades for a more brief summary.

### 2.1.1 DD1301 datintro

For the datintro course (DD1301), we simply have four lab assignments in the assignment group LAB1. LAB1 is the only course component in LADOK.

```
5b <main script 5b>≡
# datintro
report_components "DD1301 HT${YEARS}" \
    LAB1
```

This definition is continued in chunks 6–9.

This code is used in chunk 4b.

### 2.1.2 DD1317 prgi

For the prgi (DD1317) course we have four components: KAL1, LAB1, LAB2 and LAB3. In the old version of the course (DD1315), we had MAT1 instead of KAL1.

The LAB1, MAT1 and KAL1 components each contain lab assignments. The students must pass all of them for a grade.

```
6a <main script 5b>+=
# prgi
# labs
report_components "DD1317 HT${YEARS}" \
                  "LAB1"
report_components "DD1317 HT${YEARS}" \
                  "KAL1"
```

This code is used in chunk 4b.

The LAB2 component is just an exam. In some older versions it also contains a mandatory survey to get a date in the last week of the course in LADOK. In some versions we also have multiple assignments, one for each time the exam was given (hence maxgradesurvey); but in newer we reuse the same assignment for all re-exams.

```
6b <main script 5b>+=
# datorprov with optional survey
report_components "DD1317.*LAB2.*${YEARS}" \
                  LAB2 \
                  canvaslms.grades.maxgradesurvey
```

This code is used in chunk 4b.

However, now we have that mandatory survey in the LAB3 component with the project that the students finish last. This project contains three parts:

- (1) the specification (P/F),
- (2) the peer review (P/F),
- (3) the presentation of the project (A–F grades), and
- (4) the mandatory survey (numerical).

We use the `canvaslms.grades.conjunctavgsurvey` summary module to get the final grade to be the A–F grade of the presentation, but only if the specification, peer review and survey are all passed.

```
6c <main script 5b>+=
# p-uppgift with optional survey
report_components "DD1317 HT${YEARS}" \
                  LAB3 \
                  canvaslms.grades.conjunctavgsurvey
```

This code is used in chunk 4b.

### 2.1.3 DD1315 prgi2[0-3]

For the old version of the course, we simply have MAT1 instead of KAL1. And there was no mandatory survey. But we run it for a fixed number of years.

```
7a <main script 5b>+=
    report_components "DD1315 HT2[0-3]" \
                      "LAB1"
    report_components "DD1315 HT2[0-3]" \
                      "MAT1"
    report_components "DD1315 HT2[0-3]" \
                      "LAB3"
```

This code is used in chunk 4b.

We don't need to run LAB2 for it, because they have to reregister for the newer course to do LAB2.

### 2.1.4 DA2215 vetcyb

For vetcyb (DA2215) we have one component: INL1. It's just a few P/F-assignments and a mandatory survey.

```
7b <main script 5b>+=
    # vetcyb
    report_components "DA2215 [HV]T${YEARS}" \
                      INL1 \
                      canvaslms.grades.conjunctavgsurvey
```

This code is used in chunk 4b.

However, we also want to report the 'Participation INL1'. But that would require us to rewrite the name of the group to just INL1, so we need to use the `report_alt_components` function. Also, we need to use the `canvaslms.grades.participation` summary module to get the participation grade (since those assignments consist only of complete/incomplete and 0–100 grades).

```
7c <main script 5b>+=
    # vetcyb participation
    report_alt_components "DA2215 [HV]T${YEARS}" \
                          "Participation INL1" INL1 \
                          canvaslms.grades.participation
```

This code is used in chunk 4b.

### 2.1.5 DD2520 tilkry

For tilkry (DD2520) we have two components: INL1 and LAB1. The INL1 component is just a few P/F-assignments. The LAB1 component is a set of mandatory and optional assignments. The number of optional assignments (and their grades) determine the final grade. So it has a custom summary module: `canvaslms.grades.tilkryLAB1`.

```
7d <main script 5b>+=
    # tilkry
    report_components "DD2520 VT${YEARS}" \
                      INL1
    report_components "DD2520 VT${YEARS}" \
                      LAB1 \
```

```
canvaslms.grades.tilkryLAB1
```

This code is used in chunk 4b.

Finally, let's do this also for the courses that I have given previous years.

8a `<main script 5b>+=`

```
# tidigare kurser
# DD1310 - prgm2[1-5]
report_components "DD1310 HT2[1-5]" \
                  "LAB1"
report_components "DD1310 HT2[1-5]" \
                  "LAB3" \
                  canvaslms.grades.conjunctavgsurvey
```

This code is used in chunk 4b.

## 2.2 Getting component results from Canvas to LADOK

To get the results out of Canvas we'll use the `canvaslms results` command. We must install the `canvaslms` tool. We can do this by running:

```
1 python3 -m pip install canvaslms # to use it with Python, or
2 pipx install canvaslms           # to only use the CLI
3 canvaslms login                  # or read `canvaslms login --help`
```

For details on how to extract the results, read `canvaslms results --help` (also read Footnote 2 on page 5).

Course codes always have the same structure, so they're easy to replace. But sometimes we also want to replace the component name with the desired component name in LADOK.

8b `<helper functions 8b>=`

```
report_alt_components() {
    local course="$1"
    local component="$2"
    local desired_component="$3"
    local summary_module="$4"

    local summary_opt=""
    if [[ -n "$summary_module" ]]; then
        summary_opt="-S $summary_module"
    fi

    # Get the course results from Canvas.
    canvaslms results -c "$course" -A "$component" $summary_opt \
    | <change course column to only course code 9b> \
    | <rename the component column to the desired component 9c>
}
```

This definition is continued in chunks 9a and 10a.

This code is used in chunk 4b.

However, let's also add a version where the component name is the same. This will be used most of the time.

```
9a <helper functions 8b>+=
    report_components() {
        local course="$1"
        local component="$2"
        local summary_module="$3"

        report_alt_components "$course" "$component" "$component" "$summary_module"
    }
```

This code is used in chunk 4b.

The course code is the first column of the output from `canvaslms results`. The course code is the first word, separated from the rest by a space. So we simply drop everything after the first space.

```
9b <change course column to only course code 9b>=
    awk -F '\t' -v OFS='\t' '{ split($1,a," "); $1=a[1]; print }'
```

This code is used in chunk 8b.

We can do something similar for the component column, but we simply replace it with the desired component name.

```
9c <rename the component column to the desired component 9c>=
    awk -F '\t' -v OFS='\t' -v comp="$desired_component" '{ $2=comp; print }'
```

This code is used in chunk 8b.

## 2.3 Reporting course grade

Now we can set the course grades based on the reported components. We'll have to report one course at a time since the course grade is based on different components in different courses.

We'll use the LADOK data to solve this. This means that when the code above is run, it outputs what `ladok report` should put in LADOK. That means that if anyone there completes the course, we will not see it here. However, that's only good: we can't use those results anyway until they're certified/attested in LADOK.

We simply do this for *all rounds*: We look for students who have no grade on the course, then we look if they have a grade on the component, and if they do, we report that as the course grade. We'll fail for those who have not yet finished the other components of the course or those whose results are not yet attested, but that's acceptable. Then we get an overview of who has leftovers. However, we can actually filter those out by looking at the latest date of any component—which we'll need anyway for the date of the course.

```
9d <main script 5b>+=
    report_course DD1315 LAB3
    report_course DD1317 LAB3
    report_course DD2520 LAB1
```

This code is used in chunk 4b.

We don't need to report the course grade for the other courses since they have only one component. For courses with only one component, LADOK will automatically set the course grade based on the grade of the single component.



This approach makes for a simpler implementation of `report_course`. We simply extract the course data using `ladok course -l` and then filter it using `awk`. The output data from `ladok course -l` has the following columns (tab separated):

```
1 course_code round_code component student grade date
```

The `-l` option gives us the student's LADOK identifier instead of name.

The course grade is given by the component being the same as the course code. If the course grade is empty but the grade of the component we're interested in is not empty, we report the component grade as the course grade. So we can filter out whoever has no course grade (`-` in the grade column). Then we filter out who of those have a grade on the component.

As for the grade, we need the newest grade on any component for a student. This also allows us to filter out students who have not yet finished all components of the course. The dates are in ISO format (YYYY-MM-DD), so sorting them lexicographically works. If there is no result on a component, the date is blank.

Finally, we report those to LADOK.

```
10a <helper functions 8b>+=
    report_course() {
        local course="$1"
        local component="$2"

        ladok course -l "$course" \
        | awk -F '\t' -v OFS='\t' \
            -v comp="$component" \
            -v course="$course" \
            '{
                <store course and component grades and dates 10b>
            }
            END {
                <print students with component grade but no course grade 12b>
            }'
```

This code is used in chunk 4b.

We check for the course grade and store if it exists. However, we must ensure that we don't reset an already existing grade, so we only update if we haven't seen a previous course grade.

```
10b <store course and component grades and dates 10b>=
    if ($3 == $1 && course_grade[$4] == "") {
        course_grade[$4]=$5
    }
```

This definition is continued in chunks 10c and 11.

This code is used in chunk 10a.

Then we check for the component grade and store it if it exists. However, if we already have a grade, we will not reset it to blank. This can happen if the student is registered on several rounds.

```
10c <store course and component grades and dates 10b>+=
    else if ($3 == comp && (component_grade[$4] == "-" \
        || component_grade[$4] == "" \
```

```

        || component_grade[$4] == 0)) {
    component_grade[$4]=$5
}

```

This code is used in chunk 10a.

(We must check for the zero in case `component_grade[$4]` is not set, since that will be the default value of an unset variable in `awk`).

We also store the latest date for *any* component. Here we also want to unset the grade date if there is a date that is blank—since that means one component is not yet finished. But we should only do that for components, not the course grade. However, since a student can be registered on several rounds, for some component, the same component will be blank in one round but not in another. (Otherwise the student would have finished the course already.) This complicates the algorithm a bit.

```

11 <store course and component grades and dates 10b>+≡
    if ($3 != $1) {
        <update component date or reset if missing 12a>
    }

```

This code is used in chunk 10a.

Now we must keep track of which components are there. The components must be the same for a round, but they can differ between rounds (although they usually don't).

Let's think about the possibilities for a student that has no course grade:

- (1) The student is only in one round. Then they should have the same number of dates as the number of components.
- (2) The student is in at least two rounds:
  - (1) The student has finished all components in one round. Then one round will only be blank. Then they should have the same number of dates as the number of components in that round.
  - (2) The student finished one component in one round and the rest in another round. Then both rounds will have blank dates. But they should still have the same number of dates as the number of components in the union of the components of those rounds.

I looked at only the reregistered students' results in LADOK for DD2520:

```

1 ladok course DD2520 | grep -Ff <
2   ladok course DD2520 | cut -f 4 | sort | uniq -c \
3   | grep -v " *3 " | sed -E "s/ *[0-9]+ //"
4 ) | sort -k 4

```

Even for the students who had a date on the course from the year before, all dates belonged to the same round. Even for students who had only one date from a previous round, had that grade and date on the latest round they were registered on. So LADOK automatically moves a result to a new round when a student is reregistered. (Based on this, we assume that a student can't have a date on the same component in two different rounds.)

What we'll do is that we keep track of the latest date for each round for each student. If we find a blank date for a round, we set the date for that round to -. This

way we can be sure to distinguish between the first ("") and second ("-") time we look at dates.

12a `<update component date or reset if missing 12a>≡`

```
if ($5 == "-" || $5 == "" || $6 == "")
    component_date[$4][$2] = "-"
else if (component_date[$4][$2] != "-" && $6 > component_date[$4][$2])
    component_date[$4][$2] = $6
```

This code is used in chunk 11.

(Note that this requires us to use GNU AWK for the multidimensional array syntax.)

Now we want to print the students who have a component grade but no course. But only if they also have a valid date (not -) in any round. If they have a date, it should be only from one round. And we want to print them in the format required by ladok report:

```
1  course_code  course_code  student  grade  date

12b <print students with component grade but no course grade 12b>≡
for (student in component_grade) { \
    if (course_grade[student] == "-" \
        && component_grade[student] != "-")
    {
        for (round in component_date[student]) {
            if (component_date[student][round] != "-") {
                print course, course, student, component_grade[student], \
                    component_date[student][round]
                break
            }
        }
    }
}
```

This code is used in chunk 10a.

## 2.4 The script as a whole

```
1  #!/bin/bash
2  . ${HOME}/.profile
3  YEAR=$(date +%y)
4  LOOKBACK=5
5  YEARS=$(echo -n "("; \
6      seq $((YEAR - $LOOKBACK)) $YEAR \
7      | sed -zE "s/\s/|/g" \
8      | sed "s/|$/)/" )
9  report_alt_components() {
10     local course="$1"
11     local component="$2"
12     local desired_component="$3"
13     local summary_module="$4"
14
15     local summary_opt=""
```

```

16  if [[ -n "$summary_module" ]]; then
17      summary_opt="-S $summary_module"
18  fi
19
20  # Get the course results from Canvas.
21  canvaslms results -c "$course" -A "$component" $summary_opt \
22  | awk -F '\t' -v OFS='\t' '{ split($1,a," "); $1=a[1]; print }' \
23  | awk -F '\t' -v OFS='\t' -v comp="$desired_component" '{ $2=comp; print }'
24  }
25  report_components() {
26      local course="$1"
27      local component="$2"
28      local summary_module="$3"
29
30      report_alt_components "$course" "$component" "$component" "$summary_module"
31  }
32  report_course() {
33      local course="$1"
34      local component="$2"
35
36      ladok course -l "$course" \
37      | awk -F '\t' -v OFS='\t' \
38          -v comp="$component" \
39          -v course="$course" \
40          '{
41              if ($3 == $1 && course_grade[$4] == "") {
42                  course_grade[$4]=$5
43              }
44              else if ($3 == comp && (component_grade[$4] == "-" \
45                                  || component_grade[$4] == "" \
46                                  || component_grade[$4] == 0)) {
47                  component_grade[$4]=$5
48              }
49              if ($3 != $1) {
50                  if ($5 == "-" || $5 == "" || $6 == "")
51                      component_date[$4][$2] = "-"
52                  else if (component_date[$4][$2] != "-" && $6 > component_date[$4][$2])
53                      component_date[$4][$2] = $6
54              }
55          }
56      END {
57          for (student in component_grade) { \
58              if (course_grade[student] == "-" \
59                  && component_grade[student] != "-")
60              {
61                  for (round in component_date[student]) {
62                      if (component_date[student][round] != "-") {
63                          print course, course, student, component_grade[student], \
64                              component_date[student][round]
65                      }
66                      break
67                  }
68              }
69          }
70      }

```

```

67     }
68   }
69 }
70 }
71 }
72
73 main() {
74   # datintro
75   report_components "DD1301 HT${YEARS}" \
76     LAB1
77   # prgi
78   # labs
79   report_components "DD1317 HT${YEARS}" \
80     "LAB1"
81   report_components "DD1317 HT${YEARS}" \
82     "KAL1"
83   # datorprov with optional survey
84   report_components "DD1317.*LAB2.*${YEARS}" \
85     LAB2 \
86     canvaslms.grades.maxgradesurvey
87   # p-uppgift with optional survey
88   report_components "DD1317 HT${YEARS}" \
89     LAB3 \
90     canvaslms.grades.conjunctavgsurvey
91   report_components "DD1315 HT2[0-3]" \
92     "LAB1"
93   report_components "DD1315 HT2[0-3]" \
94     "MAT1"
95   report_components "DD1315 HT2[0-3]" \
96     "LAB3"
97   # vetcyb
98   report_components "DA2215 [HV]T${YEARS}" \
99     INL1 \
100     canvaslms.grades.conjunctavgsurvey
101   # vetcyb participation
102   report_alt_components "DA2215 [HV]T${YEARS}" \
103     "Participation INL1" INL1 \
104     canvaslms.grades.participation
105   # tilkry
106   report_components "DD2520 VT${YEARS}" \
107     INL1
108   report_components "DD2520 VT${YEARS}" \
109     LAB1 \
110     canvaslms.grades.tilkryLAB1
111   # tidigare kurser
112   # DD1310 - prgm2[1-5]
113   report_components "DD1310 HT2[1-5]" \
114     "LAB1"
115   report_components "DD1310 HT2[1-5]" \
116     "LAB3" \
117     canvaslms.grades.conjunctavgsurvey

```

```
118     report_course DD1315 LAB3
119     report_course DD1317 LAB3
120     report_course DD2520 LAB1
121 }
122
123 # Only run if this is the main script
124 if [[ "${BASH_SOURCE[0]}" == "${0}" ]]; then
125     main "$@" | ladok report -fv
126 fi
```

## Chapter 3

# Transfer results from Canvas to LADOK in Python

Here we provide an example program `canvas2ladok.py` which exports results from Canvas to LADOK for the introductory programming course DD1315.

However, a better way to do this is by using the CLI (see Chapter 2 for an even better version):

```
1  #!/bin/bash
2
3  . ${HOME}/.profile
4
5  year=22
6  courses="DD13(1OHT${year}|17HT${year})"
7  components="(LAB[123]|MAT1|KAL1)"
8
9  canvaslms results -c "$courses" -A "$components" \
10 | sed -E "s/ ?[HV]T[0-9]{2}( \(.*\))?//" \
11 | ladok report -fv
```

But now we'll have a look at how we can do this (well, a simpler version) in Python.

### 3.1 Overview

We want to get results out of Canvas and put them into LADOK. We want to take each assignment group in Canvas and map into a course component in LADOK. *Assumption:* we assume that all assignments in the Canvas course instance are grouped; and each group must map exactly to the names of the LADOK components.

The course components in LADOK (and assignment groups in Canvas) for the DD1315 course are

- LAB1,
- LAB2,
- LAB3,
- MAT1<sup>1</sup>.

<sup>1</sup>URL: <https://www.kth.se/student/kurser/kurs/DD1315>

The LAB3 component corresponds to a project. In Canvas, it has P/F assignments (e.g., presentation) and one A–F assignment (the project itself). The component grade is based on the project itself, but the other assignments each must have a P too.

For now we will ignore setting the grade on the full course.

When running the program we must have the following environment variables set:

- LADOK\_LOGIN and LADOK\_PASSWD which hold the credentials for LADOK (or KTH CAS).
- CANVAS\_SERVER and CANVAS\_TOKEN to point to the Canvas server to use and a token to authenticate.

We provide a Docker image for running this program.

### 3.1.1 Building files

We provide the following files:

- `<canvas2ladok.mk 17>`.
- `<Dockerfile 18a>`,
- `<canvas2ladok.py (never defined)>`,

We provide an include file for GNU make to build all the targets.

```
17 <canvas2ladok.mk 17>≡
.PHONY: all
all: canvas2ladok.py canvas2ladok

.PHONY: canvas2ladok
canvas2ladok: canvas2ladok.py Dockerfile
    docker build -t canvas2ladok .

Dockerfile: canvas2ladok.nw
    ${NOTANGLE}

.PHONY: clean
clean:
    ${RM} canvas2ladok.pdf canvas2ladok.py
    ${RM} Dockerfile canvas2ladok.mk

.PHONY: distclean
distclean:
    -docker image rm canvas2ladok
```

Root chunk (not used in this document).



The Docker image will just contain the `canvas2ladok.py` file and run it by default.

18a `<Dockerfile 18a>≡`

```
FROM dbosk/ladok3

RUN pip install --no-cache-dir canvasapi
COPY canvas2ladok.py ./

CMD ["python", "./canvas2ladok.py"]
```

Root chunk (not used in this document).

### 3.2 `canvas2ladok.py`: configuration and dependencies

We use the standard structure for the script. We start with the imports and set up our `ladok` and `canvas` objects, these are used to access the two systems.

18b `<canvas2ladok.py 18b>≡`

```
import cachetools
from canvasapi import Canvas
import collections
import datetime
import ladok3
import os
import re

LOGIN = os.environ["LADOK_USER"]
PASSWD = os.environ["LADOK_PASS"]

ladok = ladok3.LadokSession("KTH",
                           vars={"username": LOGIN, "password": PASSWD},
                           test_environment=False) # for experiments

API_URL = os.environ["CANVAS_SERVER"]
API_KEY = os.environ["CANVAS_TOKEN"]

canvas = Canvas(API_URL, API_KEY)

course_code_ladok = "DD1315"
# We match all course round HT20 and onwards
course_code_canvas = "DD1315[HV]T[2-9][0-9]"
components = [
    "LAB1",
    "LAB2",
    "LAB3",
    "MAT1"
]

<classes 20b>
<functions 19a>

def main():
```

*<main body 19d>*

```
if __name__ == "__main__":
    main()
```

Root chunk (not used in this document).

### 3.3 Getting the results out of Canvas

We must first select the course. We do this by matching against a regular expression.

19a *<functions 19a>*≡

```
@cachetools.cached(cache={})
def get_courses(code):
    pattern = re.compile(code)

    for course in canvas.get_courses():
        if pattern.match(course.course_code):
            yield course

    return None
```

This definition is continued in chunks 19–22.

This code is used in chunk 18b.

We must process each assignment group (which corresponds to a LADOK component). So we get all relevant objects from Canvas.

19b *<functions 19a>*+≡

```
def get_components(course):
    for component in course.get_assignment_groups():
        if component.name in components:
            yield component
```

This code is used in chunk 18b.

For each component, we must check which students passed all assignments; we must report the student's LADOK identifier, what grade they should have and the time of submission of the assignment.

19c *<functions 19a>*+≡

```
def students_results(course, component):
    <produce results for a component 22b>
```

This code is used in chunk 18b.

We cover the details in Section 3.6, once we've covered what LADOK needs in Section 3.5.

### 3.4 The main body

Then we can report those results to LADOK. In summary, we do the following:

19d *<main body 19d>*≡

```
for course in get_courses(course_code_canvas):
    for component in get_components(course):
        print(f"{course.course_code} {component.name}")
        component_results = students_results(course, component)
```

```
report_results(course_code_ladok, component.name, component_results)
```

This code is used in chunk 18b.

### 3.5 Putting the results into LADOK

We get a list of results for a component. We simply try to report them to LADOK.

```
20a <functions 19a>+≡
def report_results(course_code, component_name, results):
    for result in results:
        try:
            student = ladok.get_student(result.person_nr)
            course = student.courses(code=course_code)[0]
            component = course.results(component=component_name)[0]
            if not component.attested:
                component.set_grade(result.grade, result.date)
                component.finalize()
            elif component.grade != result.grade:
                print(f"{student}: attested {component.component} "
                    f"result {component.grade} is different from {result.grade}.")
        except Exception as err:
            try:
                print(f"{student}: {err}")
            except ValueError as verr:
                print(f"{verr}: {result.person_nr}: {err}")
```

This code is used in chunk 18b.

### 3.6 Producing the list of results

We need the result to have the following data:

```
20b <classes 20b>≡
Result = collections.namedtuple(
    "Result", ["person_nr", "date", "grade", "grade_scale"])
```

This definition is continued in chunk 20c.

This code is used in chunk 18b.

Now, given a component, we should produce such Result tuples.

#### 3.6.1 Produce gradebook

To do this, we must first produce a gradebook that we can filter. The gradebook will use the simpler Grade tuple. It will use the student's LADOK ID as the key.

```
20c <classes 20b>+≡
Grade = collections.namedtuple("Grade", ["grade", "date"])
```

This code is used in chunk 18b.

To create the gradebook, we will first fetch all the users and then fetch all the submissions. Then we will map them together. This way we only need two requests to Canvas, instead of one per user.

```
21a <functions 19a>+≡
def make_gradebook(course, component):
    gradebook = {}

    users_by_id = {}
    for user in course.get_users(enrollment_type="student"):
        users_by_id[user.id] = user
        gradebook[user.integration_id] = {}

    for assignment in assignments_in_component(course, component):
        for submission in assignment.get_submissions():
            try:
                user = users_by_id[submission.user_id].integration_id
            except KeyError:
                # This only happens for the Test Student
                continue

            if not submission.graded_at:
                gradebook[user][assignment.name] = None
                continue

            date = submission.submitted_at or submission.graded_at
            date = datetime.date.fromisoformat(date.split("T")[0]) or None
            graded_date = datetime.date.fromisoformat(
                submission.graded_at.split("T")[0])
            if date > graded_date:
                date = graded_date

            gradebook[user][assignment.name] = \
                Grade(grade=submission.grade, date=date)

    return gradebook
```

This code is used in chunk 18b.

Note that for some users, we won't get any submission. And for some other users, we get a submission with no grade and no date.

We the component object doesn't give the assignments it include. We must check each assignment if it belongs to the component or not.

```
21b <functions 19a>+≡
def assignments_in_component(course, component):
    return filter(
        lambda assignment: assignment.assignment_group_id == component.id,
        course.get_assignments())
```

This code is used in chunk 18b.

### 3.6.2 Assignment grades to component grade

Next, we must filter the gradebook so that only the students who passed all assignments are reported to LADOK with a pass. A student must pass all assignments, the latest date sets the date to use in LADOK. *Assumption:* If some assignments are P/F and some are A-F, then the A-F one should be the grade. There will not be more than one A-F assignment per component.

22a `<functions 19a>+=`

```
def summarize(grades):
    max_grade = "P"
    grade_scale = "PF"
    max_date = datetime.date(year=1970, month=1, day=1)
    for _, grade in grades.items():
        if grade is None or grade.grade is None or grade.grade[0] == "F":
            return None

        if grade.date > max_date:
            max_date = grade.date

        if grade.grade in "ABCDE":
            max_grade = grade.grade
            grade_scale = "AF"

    return (Grade(grade=max_grade, date=max_date), grade_scale)
```

This code is used in chunk 18b.

### 3.6.3 Convert to LADOK result form

Lastly, we must put these things together and convert the result to the Result format that we need.

22b `<produce results for a component 22b>=`

```
to_report = []
gradebook = make_gradebook(course, component)

for ladok_id, grades in gradebook.items():
    try:
        grade, grade_scale = summarize(grades)
    except TypeError as err:
        # Only happens for students who are not done
        continue

    to_report.append(Result(
        person_nr=ladok.get_student(ladok_id).personnummer,
        grade=grade.grade,
        grade_scale=grade_scale,
        date=grade.date))

return to_report
```

This code is used in chunk 19c.

### 3.7 The script as a whole

```

1  import cachetools
2  from canvasapi import Canvas
3  import collections
4  import datetime
5  import ladok3
6  import os
7  import re
8
9  LOGIN = os.environ["LADOK_USER"]
10 PASSWD = os.environ["LADOK_PASS"]
11
12 ladok = ladok3.LadokSession(
13     "KTH", vars={"username": LOGIN, "password": PASSWD}, test_environment=False
14 ) # for experiments
15
16 API_URL = os.environ["CANVAS_SERVER"]
17 API_KEY = os.environ["CANVAS_TOKEN"]
18
19 canvas = Canvas(API_URL, API_KEY)
20
21 course_code_ladok = "DD1315"
22 # We match all course round HT20 and onwards
23 course_code_canvas = "DD1315[HV]T[2-9][0-9]"
24 components = ["LAB1", "LAB2", "LAB3", "MAT1"]
25
26 Result = collections.namedtuple("Result", ["person_nr", "date", "grade", "grade_scale"])
27 Grade = collections.namedtuple("Grade", ["grade", "date"])
28
29
30 @cachetools.cached(cache={})
31 def get_courses(code):
32     pattern = re.compile(code)
33
34     for course in canvas.get_courses():
35         if pattern.match(course.course_code):
36             yield course
37
38     return None
39
40
41 def get_components(course):
42     for component in course.get_assignment_groups():
43         if component.name in components:
44             yield component
45
46
47 def students_results(course, component):
48     to_report = []
49     gradebook = make_gradebook(course, component)

```

```

50
51     for ladok_id, grades in gradebook.items():
52         try:
53             grade, grade_scale = summarize(grades)
54         except TypeError as err:
55             # Only happens for students who are not done
56             continue
57
58         to_report.append(
59             Result(
60                 person_nr=ladok.get_student(ladok_id).personnummer,
61                 grade=grade.grade,
62                 grade_scale=grade_scale,
63                 date=grade.date,
64             )
65         )
66
67     return to_report
68
69
70 def report_results(course_code, component_name, results):
71     for result in results:
72         try:
73             student = ladok.get_student(result.person_nr)
74             course = student.courses(code=course_code)[0]
75             component = course.results(component=component_name)[0]
76             if not component.attested:
77                 component.set_grade(result.grade, result.date)
78                 component.finalize()
79             elif component.grade != result.grade:
80                 print(
81                     f"{student}: attested {component.component} "
82                     f"result {component.grade} is different from {result.grade}."
83                 )
84         except Exception as err:
85             try:
86                 print(f"{student}: {err}")
87             except ValueError as verr:
88                 print(f"{verr}: {result.person_nr}: {err}")
89
90
91 def make_gradebook(course, component):
92     gradebook = {}
93
94     users_by_id = {}
95     for user in course.get_users(enrollment_type=["student"]):
96         users_by_id[user.id] = user
97         gradebook[user.integration_id] = {}
98
99     for assignment in assignments_in_component(course, component):
100         for submission in assignment.get_submissions():

```

```

101         try:
102             user = users_by_id[submission.user_id].integration_id
103         except KeyError:
104             # This only happens for the Test Student
105             continue
106
107         if not submission.graded_at:
108             gradebook[user][assignment.name] = None
109             continue
110
111         date = submission.submitted_at or submission.graded_at
112         date = datetime.date.fromisoformat(date.split("T")[0]) or None
113         graded_date = datetime.date.fromisoformat(
114             submission.graded_at.split("T")[0]
115         )
116         if date > graded_date:
117             date = graded_date
118
119         gradebook[user][assignment.name] = Grade(grade=submission.grade, date=date)
120
121     return gradebook
122
123
124 def assignments_in_component(course, component):
125     return filter(
126         lambda assignment: assignment.assignment_group_id == component.id,
127         course.get_assignments(),
128     )
129
130
131 def summarize(grades):
132     max_grade = "P"
133     grade_scale = "PF"
134     max_date = datetime.date(year=1970, month=1, day=1)
135     for _, grade in grades.items():
136         if grade is None or grade.grade is None or grade.grade[0] == "F":
137             return None
138
139         if grade.date > max_date:
140             max_date = grade.date
141
142         if grade.grade in "ABCDE":
143             max_grade = grade.grade
144             grade_scale = "AF"
145
146     return (Grade(grade=max_grade, date=max_date), grade_scale)
147
148
149 def main():
150     for course in get_courses(course_code_canvas):
151         for component in get_components(course):

```



```
152         print(f"{course.course_code} {component.name}")
153         component_results = students_results(course, component)
154         report_results(course_code_ladok, component.name, component_results)
155
156
157 if __name__ == "__main__":
158     main()
```

## **Part II**

# **The command-line interface**

## Chapter 4

# The base interface

This is the documentation of the command-line interface module (`cli`) of the `ladok3` package, `<cli.py (never defined)>`.

The command-line interface is divided into subcommands, similar to Git. Currently, we provide the following commands:

**data** The command outputs all results for all rounds of a course in CSV format.

### 4.1 Overview of the source code and dependencies

We use `argparse` with `argcomplete` to handle the command-line interface. We use `appdirs` to handle configuration directories on various systems, we set up a global `dirs` that we can use.

```
28 <cli.py 28>≡
    #!/bin/env python3
    """A command-line interface for LADOK 3"""

    import appdirs
    import argcomplete, argparse
    import base64
    from cryptography.fernet import Fernet
    from cryptography.hazmat.primitives import hashes
    from cryptography.hazmat.primitives.kdf.pbkdf2 import PBKDF2HMAC
    import getpass
    import io
    import json
    import keyring
    import ladok3
    import os
    import pickle
    import re
    import sys
    import traceback
    import weblogin
    import weblogin.ladok
    import weblogin.seamlessaccess as sa
```

*<modules 48b>*

```
dirs = appdirs.AppDirs("ladok", "dbosk@kth.se")
```

*<functions 29b>*

*<command-line interface 29a>*

Root chunk (not used in this document).

## 4.2 A command-line interface

The idea is that we have the basic command that can take some options and ultimately some subcommand. The subcommands do the heavy lifting. We use a standard Pythonic if-main construction.

29a *<command-line interface 29a>*≡

```
def main():
    """Run the command-line interface for the ladok command"""
    <process command-line options 30a>

    if __name__ == "__main__":
        try:
            main()
            sys.exit(0)
        except Exception as e:
            err(-1, e)
```

This code is used in chunk 28.

We want uniform error handling. We will use the function `err` for errors and `warn` for warnings, both inspired by `err(3)` and `warn(3)` in the BSD world.

29b *<functions 29b>*≡

```
def err(rc, msg):
    """Print error message to stderr and exit with given return code.

    Args:
        rc (int): Return code to exit with.
        msg (str): Error message to display.
    """
    print(f"{sys.argv[0]}: error: {msg}", file=sys.stderr)
    sys.exit(rc)

def warn(msg):
    """Print warning message to stderr.

    Args:
        msg (str): Warning message to display.
    """
    print(f"{sys.argv[0]}: {msg}", file=sys.stderr)
```

This definition is continued in chunks 31–33, 42b, 44a, 45a, and 48a.

This code is used in chunk 28.

### 4.2.1 Process command-line options

The main part done here is to set up a `LadokSession` object `ls`. We can do this in two ways: (1) create a new object using the user's credentials to log in; or (2) restore the `ls` object from a previous run.

We'll use `argparse` to parse the command-line options.

```
30a <process command-line options 30a>≡
    argp = argparse.ArgumentParser(
        description="This is a CLI-ification of LADOK3's web GUI.",
        epilog="Copyright (c) 2020 Alexander Baltatzis, Gerald Q. Maguire Jr.;\n"
            "          2021--2026 Daniel Bosk;\n"
            "          2026 Christian Ohm.\n"
            "Licensed under MIT. "
            "Web: https://github.com/dbosk/ladok3"
    )
    <add global configuration options 40b>
    subp = argp.add_subparsers(
        title="commands",
        dest="command",
        required=True
    )
    <add subparsers to subp 41>
    argcomplete.autocomplete(argp)
    args = argp.parse_args()
    <execute early commands that do not need ls 30b>
    <create or restore the LadokSession ls 32a>
    <execute subcommand 31a>
    <save LadokSession ls 32b>
```

This code is used in chunk 29a.

For each subcommand, we will add a subparser (`subp.add_parser`) that will set the `func` attribute. Then we can execute the correct function and let that function check the remaining arguments. We must also pass on a LADOK session object `ls`.

We note, however, that some subcommands (like `cache` or `login`) don't need the `ls`. The command `login` in particular must run before the `ls` object can be constructed, because its job is to gather credentials when none exist yet. The `cache clear` subcommand should also work even when `cache restore` is what is currently broken, so we dispatch both commands before touching the cached session. For the remaining commands, we can create the `ls` object with `None` for credentials; the failure will not happen until we make the first request.

```
30b <execute early commands that do not need ls 30b>≡
    if args.command == "login":
        args.func(None, args)
        return

    if args.command == "cache" and args.subcommand == "clear":
        clear_cache(None, args)
        return
```

This code is used in chunk 30a.

```
31a <execute subcommand 31a>≡
    if "func" in args:
        args.func(ls, args)
```

This code is used in chunk 30a.

### 4.3 Create the LadokSession ls

We have several options for creating the LadokSession object `ls` that must be passed to the subcommand:

- (1) The first one is to read the user's credentials (from the keyring, environment or configuration) and create the `ls` object by instantiating the `LadokSession` class.
- (2) Read a pickled `LadokSession` object from file.

The second option allows us to save time by not having to reestablish an authenticated session to LADOK. The authentication step takes much more time than individual LADOK requests.

We want to handle authentication for all universities. This means that we must keep track of two things, the institution and the user's credentials<sup>1</sup> at that institution. When we create the LADOK session object, we must supply those credentials to the `weblogin.ladok.SSOlogin` login handler. <sup>1</sup>Which is usually a username and a password.

This leads to the following approach. `LADOK_INST` is simply a string identifying the institution at SeamlessAccess.org (see documentation of `weblogin`) and `LADOK_VARS` is a dictionary where the keys map to variable names and the values should be substituted in the login forms (see documentation of `weblogin`). We use `LADOK_VARS` as credentials, since it contains the credentials.

The session lifecycle—load credentials, try to restore a cached session, fall back to a fresh `LadokSession`—is shared with the module-level `ladok3.session` attribute. We cannot have the CLI use `ladok3.session` directly, because the CLI needs to pass a custom `config_file` path and because the `login` command must work even without credentials. Instead, we factor the shared lifecycle into `get_session`, which both the CLI and `ladok3.session` call.

```
31b <functions 29b>+≡
def get_session(config_file=None):
    """Load or create a LadokSession from available credentials.

    Tries to restore a cached session first; if unavailable, creates a fresh
    one from credentials. Returns a tuple of (session, credentials).

    Args:
        config_file (str or None): Path to configuration file, or None for
            default.

    Returns:
        tuple: (LadokSession, credentials) where credentials is a dict.

    Raises:
        ValueError: If a cached session exists but cannot be decrypted.
    """
```

```

institution, credentials = load_credentials(config_file)
session = restore_ladok_session(credentials)
if not session:
    session = ladok3.LadokSession(institution, vars=credentials)
return session, credentials

```

This code is used in chunk 28.

The CLI calls `get_session` with the user-supplied config file path. We catch `ValueError` separately because it indicates a corrupted or unreadable cache—the user should know about that rather than silently creating a new session.

```

32a <create or restore the LadokSession ls 32a>≡
    try:
        ls, LADOK_VARS = get_session(args.config_file)
    except ValueError as error:
        err(-1, f"Couldn't restore LADOK session: {error}")

```

This code is used in chunk 30a.

```

32b <save LadokSession ls 32b>≡
    store_ladok_session(ls, LADOK_VARS)

```

This code is used in chunk 30a.

### 4.3.1 Saving and restoring the `LadokSession` object

Now we need to implement the `store_ladok_session` and `restore_ladok_session` functions. We will use `pickle` for storing and restoring the object. But we also want to encrypt the stored object using authenticated encryption. That way, we know that we can trust the pickle (which is otherwise a problem).

```

32c <functions 29b>+≡
def store_ladok_session(ls, credentials):
    """Store a LadokSession object to disk with encryption.

    Saves the session object as an encrypted pickle file in the user's cache directory.
    The credentials are used to derive an encryption key for security.

    Args:
        ls (LadokSession): The session object to store.
        credentials (tuple): Tuple of (institution, vars) used for key derivation.

    Raises:
        ValueError: If credentials are missing or invalid.
    """
    if not os.path.isdir(dirs.user_cache_dir):
        os.makedirs(dirs.user_cache_dir)

    file_path = dirs.user_cache_dir + "/LadokSession"

    pickled_ls = pickle.dumps(ls)
    <encrypt pickled ls 35a>

    with open(file_path, "wb") as file:

```

```

        file.write(encrypted_ls)

def restore_ladok_session(credentials):
    """Restore a LadokSession object from disk.

    Attempts to load and decrypt a previously stored session object. Returns None
    if no cached session exists or decryption fails.

    Args:
        credentials (tuple): Tuple of (institution, vars) used for key derivation.

    Returns:
        LadokSession or None: The restored session object, or None if unavailable.
    """
    file_path = dirs.user_cache_dir + "/LadokSession"

    if os.path.isfile(file_path):
        with open(file_path, "rb") as file:
            encrypted_ls = file.read()
            <decrypt encrypted ls 35b>
            if pickled_ls:
                <restore pickled ls 35c>

    return None

```

This code is used in chunk 28.

We don't want to only encrypt the object, we also want to provide integrity for the object. This is to avoid any vulnerabilities with pickle. We use the cryptography module to handle the encryption. In particular, we use the `cryptography.fernet` protocol which encrypts using AES and signs using HMAC.

One complication remains: a cached session may contain handlers defined in optional packages such as `kthutils`. When the current environment does not have that package installed, a plain `pickle.loads()` aborts before we can even inspect the session. We still want the rest of the cached session—most importantly the cookies—so we retry with a tolerant unpickler that substitutes unknown non-core classes with placeholder handlers. After unpickling we drop those placeholders and warn, so the restored session can be repickled without depending on unavailable modules.

```

33 <functions 29b>+≡
class DroppedAutologinHandler(weblogin.AutologinHandler):
    """Placeholder for cached handlers from unavailable optional modules."""

    missing_module = None
    missing_name = None

    def login(self, session, response, args=None, kwargs=None):
        return response

    def need_login(self, response):
        return False

```



```

_DROPPED_HANDLER_CLASSES = {}

def dropped_handler_class(module, name):
    """Return a placeholder class for an unavailable cached handler."""
    key = (module, name)
    if key not in _DROPPED_HANDLER_CLASSES:
        safe_name = re.sub(r"\W+", "_", f"{module}_{name}")
        _DROPPED_HANDLER_CLASSES[key] = type(
            f"Dropped_{safe_name}",
            (DroppedAutologinHandler,),
            {"missing_module": module, "missing_name": name})
    return _DROPPED_HANDLER_CLASSES[key]

class TolerantCacheUnpickler(pickle.Unpickler):
    """Unpickler that tolerates unavailable optional handler classes."""

    CORE_MODULE_PREFIXES = ("ladok3", "weblogin")

    def find_class(self, module, name):
        try:
            return super().find_class(module, name)
        except (AttributeError, ImportError, ModuleNotFoundError):
            if any(module == prefix or module.startswith(f"{prefix}.")
                    for prefix in self.CORE_MODULE_PREFIXES):
                raise
            return dropped_handler_class(module, name)

def tolerant_pickle_loads(data):
    """Load pickle data while replacing unavailable optional handlers."""
    return TolerantCacheUnpickler(io.BytesIO(data)).load()

def drop_unimportable_handlers(ls):
    """Drop placeholder handlers added during tolerant cache restore."""
    try:
        handlers = ls.session._AutologinSession_handlers
    except AttributeError:
        return []

    kept_handlers = []
    dropped_handlers = []
    for handler in handlers:
        if isinstance(handler, DroppedAutologinHandler):
            missing = f"{handler.missing_module}.{handler.missing_name}"
            warn(f"dropped cached handler {missing}: module unavailable")
            dropped_handlers.append(missing)

```

```

    else:
        kept_handlers.append(handler)
    handlers[:] = kept_handlers
    return dropped_handlers

```

This code is used in chunk 28.

We will use the user's LADOK password to generate a cryptographic key. Then we do the encryption/decryption.

```

35a <encrypt pickled ls 35a>≡
    <set up kdf and derive key from credentials 39>

    fernet_protocol = Fernet(key)
    encrypted_ls = fernet_protocol.encrypt(pickled_ls)

```

This code is used in chunk 32c.

```

35b <decrypt encrypted ls 35b>≡
    <set up kdf and derive key from credentials 39>

    fernet_protocol = Fernet(key)
    try:
        pickled_ls = fernet_protocol.decrypt(encrypted_ls)
    except Exception as err:
        warn(f"cache was corrupted, cannot decrypt: {err}")
        pickled_ls = None

```

This code is used in chunk 32c.

```

35c <restore pickled ls 35c>≡
    try:
        return pickle.loads(pickled_ls)
    except (AttributeError,
            ImportError,
            ModuleNotFoundError,
            pickle.UnpicklingError) as err:
        warn("cache refers to unavailable optional classes, retrying without "
            f"those handlers: {err}")
        ls = tolerant_pickle_loads(pickled_ls)
        drop_unimportable_handlers(ls)
        return ls

```

This code is used in chunk 32c.

Let's verify that the tolerant restore path preserves the cache when an optional handler class is unavailable, while still leaving core missing classes as hard failures. We also verify that the commands dispatched before session creation really bypass `get_session`.

```

35d <test cli.py 35d>≡
    import io
    import pickle
    import sys
    import types

```

```

import pytest

import ladok3.cli

class RestorableHandler:
    def __init__(self, value):
        self.value = value

class FakeSession:
    def __init__(self, handlers=None):
        self._AutologinSession__handlers = list(handlers or [])

class FakeLadokSession:
    def __init__(self, handlers=None):
        self.session = FakeSession(handlers)

```

⟨test functions 36⟩

Root chunk (not used in this document).

```

36  ⟨test functions 36⟩≡
def test_tolerant_pickle_loads_replaces_missing_optional_handlers(monkeypatch):
    handler = RestorableHandler("cached")
    handler.__class__.__module__ = "optional.handlers"
    original_optional = sys.modules.get("optional")
    original_handlers = sys.modules.get("optional.handlers")
    optional_module = types.ModuleType("optional")
    handlers_module = types.ModuleType("optional.handlers")
    handlers_module.RestorableHandler = RestorableHandler
    optional_module.handlers = handlers_module
    sys.modules["optional"] = optional_module
    sys.modules["optional.handlers"] = handlers_module
    try:
        payload = pickle.dumps(FakeLadokSession([handler]))
    finally:
        if original_optional is None:
            del sys.modules["optional"]
        else:
            sys.modules["optional"] = original_optional
        if original_handlers is None:
            del sys.modules["optional.handlers"]
        else:
            sys.modules["optional.handlers"] = original_handlers

    restored = ladok3.cli.tolerant_pickle_loads(payload)

```

```

handler = restored.session._AutologinSession__handlers[0]
assert isinstance(handler, ladok3.cli.DroppedAutologinHandler)
assert handler.missing_module == "optional.handlers"
assert handler.missing_name == "RestorableHandler"

def test_tolerant_pickle_loads_keeps_core_failures():
    handler = RestorableHandler("cached")
    handler.__class__.__module__ = "ladok3.missing"
    original_module = sys.modules.get("ladok3.missing")
    missing_module = types.ModuleType("ladok3.missing")
    missing_module.RestorableHandler = RestorableHandler
    sys.modules["ladok3.missing"] = missing_module
    try:
        payload = pickle.dumps(FakeLadokSession([handler]))
    finally:
        if original_module is None:
            del sys.modules["ladok3.missing"]
        else:
            sys.modules["ladok3.missing"] = original_module

    with pytest.raises(ModuleNotFoundError):
        ladok3.cli.tolerant_pickle_loads(payload)

def test_drop_unimportable_handlers_warns_and_prunes(monkeypatch):
    dropped = ladok3.cli.dropped_handler_class(
        "optional.handlers", "RestorableHandler")()
    kept = RestorableHandler("kept")
    ls = FakeLadokSession([kept, dropped])
    warnings = []

    monkeypatch.setattr(ladok3.cli, "warn", warnings.append)

    dropped_handlers = ladok3.cli.drop_unimportable_handlers(ls)

    assert dropped_handlers == ["optional.handlers.RestorableHandler"]
    assert ls.session._AutologinSession__handlers == [kept]
    assert warnings == [
        "dropped cached handler optional.handlers.RestorableHandler: "
        "module unavailable"
    ]

def test_restore_ladok_session_retries_with_tolerant_unpickler(monkeypatch,
                                                                tmp_path):
    cache_dir = tmp_path / "cache"
    cache_dir.mkdir()
    cache_file = cache_dir / "LadokSession"
    cache_file.write_bytes(b"encrypted")

```

```

fake_dirs = types.SimpleNamespace(user_cache_dir=str(cache_dir))
warnings = []

monkeypatch.setattr(ladok3.cli, "dirs", fake_dirs)
monkeypatch.setattr(ladok3.cli, "warn", warnings.append)
monkeypatch.setattr(ladok3.cli, "PBKDF2HMAC",
                    lambda **kwargs: types.SimpleNamespace(
                        derive=lambda password: b"0" * 32))
monkeypatch.setattr(ladok3.cli.base64,
                    "urlsafe_b64encode",
                    lambda data: b"A" * 44)
monkeypatch.setattr(ladok3.cli,
                    "Fernet",
                    lambda key: types.SimpleNamespace(
                        decrypt=lambda data: b"pickle-data"))

calls = []

def fake_pickle_loads(data):
    calls.append(data)
    raise AttributeError("Can't get attribute 'MissingHandler'")

restored_ls = FakeLadokSession([
    ladok3.cli.dropped_handler_class(
        "optional.handlers", "MissingHandler")()])

monkeypatch.setattr(ladok3.cli.pickle, "loads", fake_pickle_loads)
monkeypatch.setattr(ladok3.cli,
                    "tolerant_pickle_loads",
                    lambda data: restored_ls)

ls = ladok3.cli.restore_ladok_session({
    "username": "alice",
    "password": "secret",
})

assert ls is restored_ls
assert calls == [b"pickle-data"]
assert warnings == [
    "cache refers to unavailable optional classes, retrying without "
    "those handlers: Can't get attribute 'MissingHandler'",
    "dropped cached handler optional.handlers.MissingHandler: "
    "module unavailable"
]

def test_main_runs_login_before_restoring_session(monkeypatch):
    called = []

    monkeypatch.setattr(ladok3.cli.argcomplete, "autocomplete",

```

```

        lambda parser: None)
monkeypatch.setattr(ladok3.cli.sys, "argv", ["ladok", "login"])
monkeypatch.setattr(ladok3.cli,
                    "update_credentials_in_keyring",
                    lambda ls, args: called.append((ls, args.command)))

def fail_get_session(config_file=None):
    raise AssertionError("get_session should not run")

monkeypatch.setattr(ladok3.cli, "get_session", fail_get_session)

ladok3.cli.main()

assert called == [(None, "login")]

def test_main_clears_cache_before_restoring_session(monkeypatch):
    called = []

    monkeypatch.setattr(ladok3.cli.argcomplete, "autocomplete",
                        lambda parser: None)
    monkeypatch.setattr(ladok3.cli.sys,
                        "argv",
                        ["ladok", "cache", "clear"])
    monkeypatch.setattr(ladok3.cli,
                        "clear_cache",
                        lambda ls, args: called.append((ls, args.command,
                                                         args.subcommand)))

    def fail_get_session(config_file=None):
        raise AssertionError("get_session should not run")

    monkeypatch.setattr(ladok3.cli, "get_session", fail_get_session)
    monkeypatch.setattr(ladok3.cli, "load_credentials",
                        lambda filename=None: (None, None))

    ladok3.cli.main()

    assert called == [(None, "cache", "clear")]

```

This code is used in chunk 35d.

To actually do the key derivation, we use the PBKDF2 based on HMAC. We use the supplied credentials for salt and password.

```

39 <set up kdf and derive key from credentials 39>≡
    if not credentials or len(credentials) < 2:
        raise ValueError(f"Missing credentials, see `ladok login -h`.")

    if isinstance(credentials, dict):
        try:
            salt = credentials["username"]

```

```

    passwd = credentials["password"]
except KeyError:
    credentials = list(credentials.values())
    <get salt and passwd from credentials list 40a>
else:
    <get salt and passwd from credentials list 40a>

kdf = PBKDF2HMAC(
    algorithm=hashes.SHA256(),
    length=32,
    salt=salt.encode("utf-8"),
    iterations=100000
)
key = base64.urlsafe_b64encode(kdf.derive(passwd.encode("utf-8")))

```

This code is used in chunk 35.

40a <get salt and passwd from credentials list 40a>≡

```

    salt = credentials[0]
    passwd = credentials[1]

```

This code is used in chunk 39.

## 4.4 Configuration

We provide a global configuration file. We want to allow the user to specify different locations for the configuration.

**Location of configuration files** We want the user to be able to specify the location of the configuration file.

40b <add global configuration options 40b>≡

```

    argp.add_argument("-f", "--config-file",
        default=f"{dirs.user_config_dir}/config.json",
        help="Path to configuration file "
            f"(default: {dirs.user_config_dir}/config.json) "
            "or set LADOK_USER and LADOK_PASS environment variables.")

```

This code is used in chunk 30a.

Since we provide the default value here, we can always rely on it to be available, so we can use `args.config_file` directly when we want to access the configuration file.

## 4.5 Managing credentials: the login command

We want a subcommand to handle the user's credentials for accessing LADOK. In particular, we need the user to be able to change the credentials in the system keyring, e.g., in case the user wrote the wrong password. The rest we don't need to do much about, merely point out the possibilities to the user.

40c <login description 40c>≡

```

    Manages the user's LADOK login credentials. There are three ways to supply the
    login credentials, in order of priority:

```

1) Through the environment: Just set the environment variables

- a) LADOK\_INST, the name of the institution, e.g. KTH Royal Institute of Technology;
- b) LADOK\_VARS, a colon-separated list of environment variables, similarly to what's done in ``ladok login`` --- most don't need this, but can rather set LADOK\_USER (the username, e.g. `dbosk@ug.kth.se`) and LADOK\_PASS (the password) instead.

2) Through the configuration file: Just write

```
{
  "institution": "the name of the university"
  "username": "the actual username",
  "password": "the actual password"
}
```

to the file `{dirs.user_config_dir}/config.json` (default, or use the `-f` option). (The keys 'username' and 'password' can be renamed to correspond to the necessary values if the university login system uses other names.)

3) Through the system keyring: Just run ``ladok login`` and you'll be asked to enter the credentials and they will be stored in the keyring. Note that for this to work on the WSL platform (and possibly on Windows), you need to install the ``keyrings.alt`` package: ``python3 -m pip install keyrings.alt``.

The keyring is the most secure. However, sometimes one want to try different credentials, so the environment should override the keyring. Also, on WSL the keyring might require you to enter a password in the terminal---this is very inconvenient in scripts. However, when logging in, we first try to store the credentials in the keyring.

If your institution uses Microsoft Authenticator for multi-factor authentication (MFA), ladok will automatically handle the number-matching challenge. A number will be displayed that you need to enter in the Authenticator app on your phone. By default, the number is printed to the terminal. You can set the environment variable `WEBLOGIN_MFA_NOTIFICATION` to a command that will display the number as a notification, e.g. ``export WEBLOGIN_MFA_NOTIFICATION=notify-send``.

This code is used in chunk 41.

```
41 <add subparsers to subp 41>≡
login_parser = subp.add_parser("login",
    help="Manage login credentials",
    formatter_class=argparse.RawDescriptionHelpFormatter,
    description=f"""
<login description 40c>
""")
```



```
login_parser.set_defaults(func=update_credentials_in_keyring)
```

This definition is continued in chunks 47–49.

This code is used in chunk 30a.

### 4.5.1 Updating the credentials in the keyring

As stated, if the subcommand is run, we should update the credentials in the keyring.

42a

*<login prompt 42a>*≡

This login process is exactly the same as when you log in using the web browser. You need three things:

- 1) The name of your institution, so that it can be uniquely identified.
- 2) Your username at your institution. This is sometimes a username (such as `dbosk`) or an email address (such as `dbosk@kth.se`). However, occasionally, you type in the username in the web browser and it is actually complemented: for instance, at KTH, I type in my username `dbosk` and then on the password screen, I can see it has been complemented to `dbosk@ug.kth.se`. Be observant about that.
- 3) Your password at your institution.

This code is used in chunk 42b.

If we run this subcommand, also want to clear the cache; otherwise, the cache will keep the outdated credentials.

42b

*<functions 29b>*+≡

```
def update_credentials_in_keyring(ls, args):
    print("""
<login prompt 42a>
    """)
    while True:
        institution = input("Institution: ")
        <check that institution uniquely identifies on SeamlessAccess 43b>

    vars = {
        "username": input("Institution username: "),
        "password": getpass.getpass("Institution password: [input is hidden] ")
    }
    <try to log into LADOK to verify credentials or update vars 43c>

    try:
        keyring.set_password("ladok3", "institution", institution)
        keyring.set_password("ladok3", "vars", ";".join(vars.keys()))
        for key, value in vars.items():
            keyring.set_password("ladok3", key, value)
    except Exception as err:
        <print error message about keyring 43a>
```

```
clear_cache(ls, args)
```

This code is used in chunk 28.

We want to print using the `err` function defined earlier. But this doesn't work due to all exceptions named `err`. However, we can access it using the `globals()["err"]`.

```
43a <print error message about keyring 43a>≡
    globals()["err"](-1, f"You don't seem to have a working keyring. "
                      f"Use one of the other methods, see "
                      f"`ladok login -h`: {err}.")
```

This code is used in chunk 42b.

Now, we want to check that the institution is uniquely identified at SeamlessAccess using the name provided by the user. We do this by looking up the name and asking the user to change if not a unique match.

```
43b <check that institution uniquely identifies on SeamlessAccess 43b>≡
    matches = sa.find_entity_data_by_name(institution)

    if not matches:
        print("No match, try again.")
        continue

    if len(matches) > 1:
        print("More than one match. Which one?")
        for match in matches:
            print(f"- {match['title']}")
        continue

    match = matches[0]

    print(f"Matched uniquely, using {match['title']}\n"
          f"          with domain {match['domain']} and\n"
          f"          unique identifier {match['id']}".)

    institution = match['id']
    break
```

This code is used in chunk 42b.

Once we're done with the institution, we can try to log in with the credentials. We do this by creating a LADOK session object and try if we can successfully make an API call. If there is an authentication error, we'll get a `weblogin.AuthenticationError` exception that can be used by the user to debug and adjust the variable names needed by their institution's login service.

```
43c <try to log into LADOK to verify credentials or update vars 43c>≡
    while True:
        temp_ls = ladok3.LadokSession(institution, vars=vars)

        try:
            temp_ls.user_info_JSON()
        except weblogin.AuthenticationError as err:
            adjust_vars(vars, err.variables)
        else:
```

```
break
```

This code is used in chunk 42b.

```
44a <functions 29b>+≡
def adjust_vars(vars, form_variables):
    print("""
    <user instructions to adapt variable names and values 44b>
    """)
    input("\nPress return to continue.\n")

    <adjust vars using variables from err 44c>
```

This code is used in chunk 28.

An authentication error can be due to several things:

- (1) the user entered the username or (more likely) the password incorrectly,
- (2) the user's institution uses different names for their form fields than username and password.

In both cases, we'll ask the user to review the variables and their contents, and adjust if necessary.

```
44b <user instructions to adapt variable names and values 44b>≡
Some part of the authentication went wrong. Either you typed your username or
password incorrectly, or your institution requires some adjustments. We'll
guide you through it.
```

We will show you some variable names and values and give you the opportunity to change the values according to the name of the variable. For instance, we assume that the institution call the variable for the username `username`, but they might call it `användarnamn` instead. You'll have to figure this out.

Remember, the problem might also be that you entered your username as 'dbosk', when it should be 'dbosk@ug.kth.se' --- or something similar. Use your institution's login page to figure this out.

Note: Your password will be visible on screen during this process.

This code is used in chunk 44a.

We note that `weblogin.ladok.SSOlogin` requires the keys to be casefolded. So we do that too, and present the variables casefolded so that the users use casefolded names when they try to set up environment variables.

```
44c <adjust vars using variables from err 44c>≡
for key, value in form_variables.items():
    key = key.casefold()
    new_val = input(f"{key} = '{value}' "
                    f"[enter new value, blank to keep] ")

    if new_val:
        vars[key] = new_val
```

This code is used in chunk 44a.

### 4.5.2 Loading user credentials

The `load_credentials` function will try to get the user's LADOK credentials. There are three locations:

- (1) the system keyring,
- (2) the environment variables: `LADOK_INST`, `LADOK_USER` and `LADOK_PASS`,
- (3) the configuration file.

They are given the priority they are listed in above. It tries to fetch the credentials in the given order; if it succeeds, it returns those credentials, otherwise it tries the next. If all fail, the function will return `None` for both. (This is due to how we handle the login command.)

```
45a <functions 29b>+=
def load_credentials(filename="config.json"):
    """
    Loads credentials from environment or file named filename.
    Returns the tuple (institution, credential dictionary) that
    can be passed to `LadokSession(institution, credential dictionary)`.
    """

    <fetch institution from environment 45b>
    <fetch username and password from environment 45c>
    <fetch vars from environment 46a>
    <fetch vars from config file 46c>
    <fetch vars from keyring 46d>
    <fetch username and password from keyring 47a>

    return None, None
```

This code is used in chunk 28.

First in priority is to read from the environment. We try to read the institution. If that fails, we assume we're using the old format that only supported KTH.

```
45b <fetch institution from environment 45b>=
try:
    institution = os.environ["LADOK_INST"]
except:
    institution = "KTH Royal Institute of Technology"
```

This code is used in chunk 45a.

```
45c <fetch username and password from environment 45c>=
try:
    vars = {
        "username": os.environ["LADOK_USER"],
        "password": os.environ["LADOK_PASS"]
    }
    if institution and vars["username"] and vars["password"]:
        return institution, vars
except:
    pass
```

This code is used in chunk 45a.

If we couldn't read the old LADOK\_USER and LADOK\_PASS, we try to read the vars from the environment using LADOK\_VARS. Note that we need the institution to be set from LADOK\_INST above for this.

```
46a <fetch vars from environment 46a>≡
try:
    vars_keys = os.environ["LADOK_VARS"]

    vars = {}
    for key in vars_keys.split(":"):
        try:
            value = os.environ[key]
            if value:
                vars[key] = value
        except KeyError:
            <print warning about missing variable in LADOK_VARS 46b>

    if institution and vars:
        return institution, vars
except:
    pass
```

This code is used in chunk 45a.

Unlike in the other cases, we don't just ignore the exception of the key not existing. Since the user has explicitly specified the variable, we should warn them that it doesn't exist.

```
46b <print warning about missing variable in LADOK_VARS 46b>≡
warn(f"Variable {key} not set, ignoring.")
```

This code is used in chunk 46a.

If none of the above worked, we try the config file next. We pop the institution from the configuration file (a dictionary), because then the remaining entries will be used as vars.

```
46c <fetch vars from config file 46c>≡
try:
    with open(filename) as conf_file:
        config = json.load(conf_file)

    institution = config.pop("institution",
                             "KTH Royal Institute of Technology")
    return institution, config
except:
    pass
```

This code is used in chunk 45a.

Lastly, if nothing else worked, we try to fetch the institution and vars from the keyring. Note that keyring returns None if the key doesn't exist, it doesn't raise an exception.

```
46d <fetch vars from keyring 46d>≡
try:
    institution = keyring.get_password("ladok3", "institution")
    vars_keys = keyring.get_password("ladok3", "vars")
```

```

vars = {}
for key in vars_keys.split(";"):
    value = keyring.get_password("ladok3", key)
    if value:
        vars[key] = value

if institution and vars:
    return institution, vars
except:
    pass

```

This code is used in chunk 45a.

However, if that fails, we fall back on the previous format, that only supported KTH.

47a *<fetch username and password from keyring 47a>*≡

```

try:
    institution = "KTH Royal Institute of Technology"
    username = keyring.get_password("ladok3", "username")
    password = keyring.get_password("ladok3", "password")
    if username and password:
        return institution, {"username": username, "password": password}
except:
    pass

```

This code is used in chunk 45a.

## 4.6 Managing the cache: the cache command and subcommands

We need a command to control the cache. For this purpose we provide the cache subcommand. This command will in turn have subcommands.

47b *<add subparsers to subp 41>*+≡

```

cache_parser = subp.add_parser("cache",
    help="Manage cache",
    description="Manages the cache of LADOK data"
)
cache_subp = cache_parser.add_subparsers(
    title="subcommands",
    dest="subcommand",
    required=True
)
<add subcommands to cache command 47c>

```

This code is used in chunk 30a.

### 4.6.1 Clear the cache

Since the cache stores sensitive data (student data) and the login credentials, we want to be able to clear the cache.

47c *<add subcommands to cache command 47c>*≡

```

cache_clear = cache_subp.add_parser("clear",

```

```

    help="Clear the cache",
    description="Clears everything from the cache"
)
cache_clear.set_defaults(func=clear_cache)

```

This code is used in chunk 47b.

The `clear_cache` function will clear the cache. We simply remove the existing cache file and then exit. If we don't exit using `sys.exit`, the main program will write the cache back again on its exit.

```

48a <functions 29b>+≡
def clear_cache(ls, args):
    """Clear the cached LADOK session data.

    Removes the stored encrypted session file from the user's cache directory.
    Silently ignores if the file doesn't exist.

    Args:
        ls (LadokSession): The LADOK session (unused but required by interface).
        args: Command line arguments (unused).
    """
    try:
        os.remove(dirs.user_cache_dir + "/LadokSession")
    except FileNotFoundError as err:
        pass

    sys.exit(0)

```

This code is used in chunk 28.

## 4.7 Other subcommands

To add a subcommand we must add a subparser to the subp parser object from above, we do this in *<add subparsers to subp 41>*. Every subcommand exists in a separate module and that module provides the function `add_command_options` that takes subp as an argument.

We add the data subcommand.

```

48b <modules 48b>≡
import ladok3.data

```

This definition is continued in chunks 48d and 49a.

This code is used in chunk 28.

```

48c <add subparsers to subp 41>+≡
    ladok3.data.add_command_options(subp)

```

This code is used in chunk 30a.

We add the report command.

```

48d <modules 48b>+≡
import ladok3.report

```

This code is used in chunk 28.

```

48e <add subparsers to subp 41>+≡
    ladok3.report.add_command_options(subp)

```

This code is used in chunk 30a.

We add the student command.

49a *<modules 48b>*+≡  
import ladok3.student

This code is used in chunk 28.

49b *<add subparsers to subp 41>*+≡  
ladok3.student.add\_command\_options(subp)

This code is used in chunk 30a.



## Chapter 5

# The course command

We want to compute statistics based on LADOK data. We want to answer the following questions:

- (1) What are the grade distribution of a course round?
- (2) How do grade distributions differ between years (i.e., rounds) for the same course?
- (3) How do grade distributions differ between (similar) courses?
- (4) How is the throughput distribution of a course?
- (5) How do throughput distributions vary between years?

We provide the module data (`<<data.py (never defined)>>`) to extract the necessary data from LADOK through the command-line interface. It provides two related subcommands:

**ladok course** Export all results for one course.

**ladok program** Export the results for the students in one or more program rounds across the courses they actually took.

It can be used like this:

```
1 ladok course DD1315 > DD1315.csv
2 ladok program CTFYS --round HT25 > CTFYS-HT25.csv
```

These commands produce CSV-formatted data to answer the questions above. The course subcommand writes:

- course,
- round,
- component,
- student (pseudonym),
- grade,
- either absolute date or normalized to the course start and finish.

The program subcommand prepends a first Program column whose value identifies the cohort as the program code together with the program round code and start year.

## 5.1 The course and program subcommands

These subcommands run as part of the `ladok3.cli` module. We provide a function `add_command_options` that adds their parser options to a given parser. We need access to LADOK through the `ladok3` module. We will also write data to disk in CSV form, so we need the `csv` module.

```
51 <data.py 51>=
    import csv
    import datetime
    import ladok3
    import sys

    <functions 52a>

def add_command_options(parser):
    """Add the 'course' and 'program' subcommands to the argument parser.

    Creates the subparsers for the data extraction commands together with the
    filtering and output options they need.

    Args:
        parser (ArgumentParser): The parent parser to add the subcommand to.
    """
    <add data parser to parser 57a>
    <add data command arguments to data parser 58a>
    <add program parser to parser 57b>
    <add program command arguments to program parser 58c>

def course_command(ladok, args):
    """Execute the course data extraction command.

    Args:
        ladok (LadokSession): The LADOK session for data access.
        args: Parsed command line arguments containing course and filter options.
    """
    <produce data about course specified in args 57c>

def program_command(ladok, args):
    """Execute the program data extraction command.

    Args:
        ladok (LadokSession): The LADOK session for data access.
        args: Parsed command line arguments containing program and filter options.
    """
    <produce data about program specified in args 58b>
```

Root chunk (not used in this document).

Programme exports should survive odd cohort entries that LADOK will not resolve as real student-course results. We keep a local warn helper with the same stderr format as the CLI module, without introducing a circular import back to `ladok3.cli`.

52a `<functions 52a>≡`

```
def warn(msg):
    """Print warning message to stderr."""
    print(f"{sys.argv[0]}: {msg}", file=sys.stderr)
```

This definition is continued in chunks 59–62, 64–66, and 68.

This code is used in chunk 51.

We also provide focused unit tests for the filtering and program-export helpers.

52b `<test data.py 52b>≡`

```
import datetime
from types import SimpleNamespace

import ladok3
import ladok3.data
```

`<test helpers 52c>`  
`<test functions 53>`

Root chunk (not used in this document).

The program-export tests use light-weight fakes so they can exercise the helper logic without contacting LADOK.

52c `<test helpers 52c>≡`

```
class FakeGrade:
    def __init__(self, code):
        self.code = code

class FakeResult:
    def __init__(self, component, grade=None, date=None):
        self.component = component
        self.grade = FakeGrade(grade) if grade is not None else None
        self.date = date

class FakeCourse:
    def __init__(self, code, round_code, start, end, components, results,
                 education_id="education"):
        self.code = code
        self.round_code = round_code
        self.start = start
        self.end = end
        self._components = components
        self._results = results
        self.education_id = education_id

    def components(self):
        return self._components

    def results(self):
        return self._results
```

```

class FakeLadokForProgramData:
    def __init__(self, program_participants=None, course_participations=None,
                  registrations=None):
        self._program_participants = program_participants or []
        self._course_participations = course_participations or {}
        self._registrations = registrations or []

    def program_round_participants_JSON(self, round_uid):
        return self._program_participants

    def get_student(self, uid):
        return SimpleNamespace(
            ladok_id=uid,
            personnummer=f"{uid}-pnr",
            __str__=lambda self: f"student {uid}")

    def student_course_participations_JSON(self, student_uid):
        return self._course_participations.get(student_uid, [])

    def registrations_on_course_JSON(self, education_id, student_id):
        return self._registrations

class FakeCourseRegistration:
    def __init__(self, /, **kwargs):
        self.code = kwargs["Utbildningskod"]
        self.round_code = kwargs["Utbildningstillfalleskod"]
        dates = kwargs["Studieperiod"]
        self.start = datetime.date.fromisoformat(dates["Startdatum"])
        self.end = datetime.date.fromisoformat(dates["Slutdatum"])
        self.education_id = kwargs["UtbildningUID"]
        self._components = kwargs["components"]
        self._results = kwargs["results"]

    def components(self):
        return self._components

    def results(self):
        return self._results

```

This code is used in chunk 52b.

We keep the tests focused on the new helpers: cohort labels, round filtering, historical course reconstruction, and exported rows.

```

53 <test functions 53>≡
def test_filter_program_rounds_keeps_selected_round_codes():
    rounds = [
        {"Utbildningstillfalleskod": "HT25"},
        {"Utbildningstillfalleskod": "HT24"},
    ]

```

```

filtered = list(ladok3.data.filter_program_rounds(rounds, ["HT25"]))

assert filtered == [{"Utbildningstillfalleskod": "HT25"}]

def test_format_program_round_includes_program_round_and_year():
    label = ladok3.data.format_program_round("CTFYS", {
        "Utbildningstillfalleskod": "HT25",
        "SammanlagenTillfallesperiod": {"Startdatum": "2025-08-25"},
    })

    assert label == "CTFYS HT25 2025"

def test_program_header_prepends_program_column():
    assert ladok3.data.program_header() == [
        "Program", "Course", "Round", "Component", "Student", "Grade",
        "Time"
    ]

def test_program_round_courses_uses_historical_course_participations(monkeypatch):
    component = SimpleNamespace(code="TEN1")
    result = FakeResult(component, "P", "2025-10-01")
    ladok = FakeLadokForProgramData(course_participations={
        "student-1": [{
            "Utbildningsinformation": {
                "Utbildningskod": "DD1315",
                "Utbildningstillfalleskod": "HT25",
                "UtbildningUID": "education-1",
                "Studieperiod": {
                    "Startdatum": "2025-08-25",
                    "Slutdatum": "2025-10-15",
                },
            },
            "components": [component],
            "results": [result],
        }]
    })
    student = SimpleNamespace(ladok_id="student-1")

    monkeypatch.setattr(ladok3, "CourseRegistration", FakeCourseRegistration)

    courses = ladok3.data.program_round_courses(ladok, student)

    assert len(courses) == 1
    assert courses[0].code == "DD1315"
    assert courses[0].round_code == "HT25"

```

```

def test_extract_data_for_course_registration_yields_component_grade_and_date():
    component = SimpleNamespace(code="TEN1")
    course = FakeCourse(
        code="DD1315",
        round_code="HT25",
        start=datetime.date(2025, 8, 25),
        end=datetime.date(2025, 10, 15),
        components=[component],
        results=[FakeResult(component, "P", "2025-10-01")],
    )
    args = SimpleNamespace(normalize_date=False, time_limit=None,
                           components=None)

    rows = list(ladok3.data.extract_data_for_course_registration(course, args))

    assert rows == [(component, "P", "2025-10-01")]

def test_extract_data_for_course_registration_filters_components():
    exam = SimpleNamespace(code="TEN1")
    lab = SimpleNamespace(code="LAB1")
    course = FakeCourse(
        code="DD1315",
        round_code="HT25",
        start=datetime.date(2025, 8, 25),
        end=datetime.date(2025, 10, 15),
        components=[exam, lab],
        results=[
            FakeResult(exam, "P", "2025-10-01"),
            FakeResult(lab, "P", "2025-09-01"),
        ],
    )
    args = SimpleNamespace(normalize_date=False, time_limit=None,
                           components=["LAB1"])

    rows = list(ladok3.data.extract_data_for_course_registration(course, args))

    assert rows == [(lab, "P", "2025-09-01")]

def test_program_row_prepend_program_label():
    course = SimpleNamespace(code="DD1315", round_code="HT25")
    row = ladok3.data.program_row(
        "CTFY HT25 2025", course, "student", "TEN1", "P", "2025-10-01")

    assert row == [
        "CTFY HT25 2025", "DD1315", "HT25", "TEN1", "student", "P",
        "2025-10-01"
    ]

```

```

def test_extract_data_for_program_round_warns_and_skips_failed_course(
    monkeypatch):
    class FailingCourse(FakeCourse):
        def results(self):
            raise ladok3.LadokAPIError("not in course")

    component = SimpleNamespace(code="TEN1")
    student = SimpleNamespace(ladok_id="student-1")
    bad_course = FailingCourse(
        code="DD1315",
        round_code="HT25",
        start=datetime.date(2025, 8, 25),
        end=datetime.date(2025, 10, 15),
        components=[component],
        results=[],
    )
    good_course = FakeCourse(
        code="DD1320",
        round_code="HT25",
        start=datetime.date(2025, 8, 25),
        end=datetime.date(2025, 10, 15),
        components=[component],
        results=[FakeResult(component, "P", "2025-10-01")],
    )
    args = SimpleNamespace(
        students=None,
        courses=None,
        ladok_id=False,
        exclude_reregistered=False,
        components=None,
        normalize_date=False,
        time_limit=None,
    )
    warnings = []

    monkeypatch.setattr(ladok3.data, "program_round_participants",
                        lambda ladok, program_round: [student])
    monkeypatch.setattr(ladok3.data, "program_round_courses",
                        lambda ladok, student: [bad_course, good_course])
    monkeypatch.setattr(ladok3.data, "warn", warnings.append)

    rows = list(ladok3.data.extract_data_for_program_round(
        object(), {"Uid": "program-round"}, args))

    assert rows == [(good_course, student, component, "P", "2025-10-01")]
    assert warnings == [
        "skipping course DD1315 (HT25) for student student-1: not in course"
    ]

```

This code is used in chunk 52b.

### 5.1.1 Setting up the course command options

We add a subparser for `ladok course`. We set it up to use the function `course_command`.

```
57a <add data parser to parser 57a>≡
    data_parser = parser.add_parser("course",
        help="Returns course results data in CSV form",
        description="""
Returns the results in CSV form for all students on a course round.
By default, all students are included.
Use --exclude-reregistered to exclude students who reregistered.
Use --exclude-credit-transfers to exclude students with credit transfers.
""").strip())
    data_parser.set_defaults(func=course_command)
```

This code is used in chunk 51.

### 5.1.2 Setting up the program command options

The program subcommand exports the course results for one or more cohorts. The cohort is defined by a program code and, optionally, one or more program round codes. We set up that parser to use `program_command`.

```
57b <add program parser to parser 57b>≡
    program_parser = parser.add_parser("program",
        help="Returns program cohort results data in CSV form",
        description="""
Returns the results in CSV form for the students in one or more program rounds.
Each row describes a course result for a student in the cohort.
Use --round to restrict the export to particular program round codes.
""").strip())
    program_parser.set_defaults(func=program_command)
```

This code is used in chunk 51.

## 5.2 Producing course data

We fetch the data from LADOK and print it in CSV format to standard out (`sys.stdout`). This way the user can deal with how to store the data.

```
57c <produce data about course specified in args 57c>≡
    data_writer = csv.writer(sys.stdout, delimiter=args.delimiter)
    course_rounds = filter_rounds(
        ladok.search_course_rounds(code=args.course_code),
        args.rounds)

    if args.header:
        data_writer.writerow(course_header())
    for course_round in course_rounds:
        data = extract_data_for_round(ladok, course_round, args)
```



```

for student, component, grade, time in data:
    data_writer.writerow(course_row(course_round, student, component,
                                    grade, time))

```

This code is used in chunk 51.

We must take a course code and a delimiter as arguments. We also want to know if we want a header or not.

```

58a <add data command arguments to data parser 58a>≡
    data_parser.add_argument("course_code",
        help="The course code of the course for which to export data")

    data_parser.add_argument("-d", "--delimiter",
        default="\t",
        help="The delimiter for the CSV output; "
            "default is a tab character to be compatible with POSIX commands, "
            "use \-d, \ or \-d ,\ to get comma-separated values.")

    data_parser.add_argument("-H", "--header", action="store_true",
        help="Print a header line with the column names.")

```

This definition is continued in chunks 60b, 64b, 66c, and 67a.

This code is used in chunk 51.

### 5.3 Producing program data

The program exporter uses the same row shape as course, but prepends a cohort label. That label includes the program code, the program round code, and the start year, because round codes alone do not always distinguish cohorts clearly.

```

58b <produce data about program specified in args 58b>≡
    data_writer = csv.writer(sys.stdout, delimiter=args.delimiter)
    program_rounds = filter_program_rounds(
        ladok.program_rounds_JSON(args.program_code),
        args.rounds)

    if args.header:
        data_writer.writerow(program_header())
    for program_round in program_rounds:
        program = format_program_round(args.program_code, program_round)
        data = extract_data_for_program_round(ladok, program_round, args)

        for course, student, component, grade, time in data:
            data_writer.writerow(program_row(program, course, student, component,
                                            grade, time))

```

This code is used in chunk 51.

The program command keeps the same output-format and filtering options that still make sense for a cohort export. It replaces the course code with a program code and adds a separate course-code filter.

```

58c <add program command arguments to program parser 58c>≡
    program_parser.add_argument("program_code",
        help="The program code of the program for which to export data")

```

```

program_parser.add_argument("-d", "--delimiter",
    default="\t",
    help="The delimiter for the CSV output; "
        "default is a tab character to be compatible with POSIX commands, "
        "use \-d, \ or \-d , \ to get comma-separated values.")

program_parser.add_argument("-H", "--header", action="store_true",
    help="Print a header line with the column names.")

program_parser.add_argument("-r", "--round", dest="rounds", nargs="+",
    help="The program round codes for the rounds to include, "
        "otherwise all rounds will be included.")

program_parser.add_argument("-l", "--ladok-id", action="store_true",
    help="Use the LADOK ID for the student, otherwise the student name and "
        "personnummer will be used.")

program_parser.add_argument("-n", "--normalize-date", action="store_true",
    help="Normalize the date to the start of the course, otherwise the date "
        "is printed as is.")

program_parser.add_argument("-t", "--time-limit", type=float,
    help="The time (normalized) for cutting off results, use \-t 1.0\ to cut "
        "off at course end.")

program_parser.add_argument("-s", "--students", nargs="+",
    help="List of personnummer for students to include, otherwise all "
        "students will be included.")

program_parser.add_argument("-c", "--components", nargs="+",
    help="List of component codes for components to include, otherwise all "
        "components will be included.")

program_parser.add_argument("-C", "--courses", nargs="+",
    help="List of course codes for courses to include, otherwise all courses "
        "will be included.")

program_parser.add_argument("-x", "--exclude-reregistered",
    action="store_true",
    help="Exclude students who are reregistered on a course round (i.e., only "
        "include students registered for the first time).")

```

This code is used in chunk 51.

The headers and row builders keep the command logic narrow: the command path decides which objects to export, while these helpers define how the CSV should look.

```

59 <functions 52a>+≡
    def course_header():
        """Return the CSV header for course exports."""

```

```

    return ["Course", "Round", "Component", "Student", "Grade", "Time"]

def program_header():
    """Return the CSV header for program exports."""
    return ["Program"] + course_header()

def course_row(course, student, component, grade, time):
    """Return one CSV row for a course export."""
    return [course.code, course.round_code, component, student, grade, time]

def program_row(program, course, student, component, grade, time):
    """Return one CSV row for a program export."""
    return [program] + course_row(course, student, component, grade, time)

```

This code is used in chunk 51.

We filter the rounds.

```

60a <functions 52a>+=
def filter_rounds(all_rounds, desired_rounds):
    """Returns only the round objects with round code in desired_rounds."""
    if not desired_rounds:
        return all_rounds
    return filter(
        lambda x: x.round_code in desired_rounds,
        all_rounds
    )

def filter_program_rounds(all_rounds, desired_rounds):
    """Return only the program rounds with round code in desired_rounds."""
    if not desired_rounds:
        return all_rounds
    return filter(
        lambda x: x["Utbildningstillfalleskod"] in desired_rounds,
        all_rounds
    )

def format_program_round(program_code, program_round):
    """Return a cohort label for a program round."""
    start = datetime.date.fromisoformat(
        program_round["SammanlagenTillfallesperiod"]["Startdatum"])
    return f"{program_code} {program_round['Utbildningstillfalleskod']} {start.year}"

```

This code is used in chunk 51.

We need a list of desired rounds.

```

60b <add data command arguments to data parser 58a>+=
data_parser.add_argument("-r", "--rounds", nargs="+",
    help="The round codes for the rounds to include, "
    "otherwise all rounds will be included.")

```

This code is used in chunk 51.

## 5.4 Extracting data for a round

Now we want to extract data for a given course round. This is done by the function `extract_data_for_round`. We need access to LADOK through the `ladok` object of type `LadokSession`. We also need the course round through the `course_round` object of type `CourseRound`. Programme exports meet a looser kind of input: a cohort can mention a course entry that LADOK later refuses to resolve as a real student-course relation. That should not abort the whole export, so we warn and skip that one course.

```
61 <functions 52a>+≡
def extract_data_for_round(ladok, course_round, args):
    """Extract student result data for a specific course round.

    Processes a course round to extract student results data in CSV format,
    filtering by students and components as specified in args.

    Args:
        ladok (LadokSession): The LADOK session for data access.
        course_round: The course round object to extract data from.
        args: Command line arguments containing filter options.

    Returns:
        list: List of result data dictionaries for CSV output.
    """
    <compute start and length of the course 64c>
    <get the results for the course round 64d>

    students = filter_students(course_round.participants(),
                               args.students)

    for student in students:
        student_results = filter_student_results(student,
                                                  results)

        <determine if student should be included 67b>

        components = filter_components(course_round.components(),
                                       args.components)

        for component in components:
            if len(student_results) < 1:
                result_data = None
            else:
                result_data = filter_component_result(component,
                                                       student_results[0]["ResultatPaUtbildningar"])

            if not result_data:
                grade = "-"
                normalized_date = None
            else:
```

*<extract grade and normalized date from result data 66b>*

*<yield student, component, grade and date 64a>*

```
def extract_data_for_program_round(ladok, program_round, args):
    """Extract course result data for one program round.

    Enumerates the students in the selected cohort and then walks their course
    participations so completed courses remain part of the export.
    """
    students = filter_students(
        program_round_participants(ladok, program_round),
        args.students)

    for student in students:
        for course in filter_courses(program_round_courses(ladok, student),
                                     args.courses):
            try:
                results = course.results()
            except ladok3.LadokAPIError as err:
                warn(f"skipping course {course.code} ({course.round_code}) "
                    f"for student {student.ladok_id}: {err}")
                continue

            if not should_include(ladok, student, course, results,
                                  args.exclude_reregistered):
                continue

            for component, grade, time in extract_data_for_course_registration(
                course, args):
                yield course, student.ladok_id if args.ladok_id else student, \
                    component, grade, time
```

This code is used in chunk 51.

The program exporter needs to recover real Student and CourseRegistration objects from the lower-level JSON responses. That keeps the rest of the export logic on the same abstractions as the rest of the codebase.

62 *<functions 52a>+≡*

```
def program_round_participants(ladok, program_round):
    """Return Student objects for a program round."""
    participants = ladok.program_round_participants_JSON(program_round["UId"])
    return [ladok.get_student(participant["Student"]["UId"])
            for participant in participants]

def program_round_courses(ladok, student):
    """Return all historical course registrations for a student."""
    courses = []
    for registration in ladok.student_course_participations_JSON(student.ladok_id):
        try:
            course_data = registration["Utbildningsinformation"]
```

```

    except KeyError:
        continue
    courses.append(ladok3.CourseRegistration(
        ladok=ladok,
        student=student,
        **course_data))
return courses

def filter_courses(all_courses, desired_courses):
    """Return only the course registrations with codes in desired_courses."""
    if not desired_courses:
        return all_courses
    return filter(
        lambda x: x.code in desired_courses,
        all_courses
    )

def extract_data_for_course_registration(course, args):
    """Extract result data for one student's course registration."""
    course_start = course.start
    course_length = course.end - course_start

    for component in filter_components(course.components(), args.components()):
        result_data = filter_course_registration_result(course, component)
        if not result_data:
            grade = "-"
            normalized_date = None
        else:
            <extract grade and normalized date from result data 66b>

        yield component, grade, \
            normalized_date if args.normalize_date \
                else result_data["Examinationsdatum"] if result_data \
                    else None

def filter_course_registration_result(course, component):
    """Return result data for one component in a course registration."""
    component_results = ladok3.filter_on_keys(course.results(), component=component)
    if not component_results:
        return None

    result = component_results[0]
    if not result.grade or not result.date:
        return None
    return {
        "Betygsgradsobjekt": {"Kod": result.grade.code},
        "Examinationsdatum": result.date,
    }

```

This code is used in chunk 51.

We want to yield the data in CSV form, so we simply yield a tuple. The date is either the normalized date or the date from the result data. The student's identifier will be either the LADOK ID or the student name and personnummer, depending on the command line arguments.

```
64a <yield student, component, grade and date 64a>≡
    yield student.ladok_id if args.ladok_id \
        else student, \
        component, \
        grade, \
        normalized_date if args.normalize_date \
            else result_data["Examinationsdatum"] if result_data \
                else None
```

This code is used in chunk 61.

```
64b <add data command arguments to data parser 58a>+≡
    data_parser.add_argument("-l", "--ladok-id", action="store_true",
        help="Use the LADOK ID for the student, "
        "otherwise the student name and personnummer "
        "will be used.")
    data_parser.add_argument("-n", "--normalize-date", action="store_true",
        help="Normalize the date to the start of the course, "
        "otherwise the date is printed as is.")
```

This code is used in chunk 51.

### 5.4.1 Get round data

We need the start of the course and the length to be able to normalize the dates for the grades.

```
64c <compute start and length of the course 64c>≡
    course_start = course_round.start
    course_length = course_round.end - course_start
```

This code is used in chunk 61.

We must get the results for the course round from LADOK. For this we must use an instance ID of a component. However, LADOK returns the results for all components, not just the one requested for.

```
64d <get the results for the course round 64d>≡
    component = course_round.components()[0]
    results = ladok.search_reported_results_JSON(
        course_round.round_id, component.instance_id)
```

This code is used in chunk 61.

Now, we don't iterate over these results. We iterate over the students and the components of a course round. LADOK doesn't report 'none results'. But we want to have a result showing that a student hasn't done anything, that should affect the statistics. Then we must search for a student's result in the batch of results we received from LADOK.

```
64e <functions 52a>+≡
    def filter_student_results(student, results):
        """Filter results for a specific student.
```

```

Args:
    student: Student object with ladok_id attribute.
    results (list): List of result dictionaries from LADOK.

Returns:
    list: Filtered list containing only results for the specified student.
"""
return list(filter(
    lambda x: x["Student"]["Uid"] == student.ladok_id,
    results))

```

This code is used in chunk 51.

Similarly, we want to find the result for a particular component.

65a *<functions 52a>+≡*

```

def filter_component_result(component, results):
    """Find the result data for a specific course component.

```

Searches through results to find the entry matching the given component.

```

Args:
    component: Course component object to search for.
    results (list): List of result dictionaries to search through.

Returns:
    dict or None: Result data for the component, or None if not found.
"""
for component_result in results:
    <get the component result data 65b>
    <check component code in result data 66a>
    return result_data

return None

```

This code is used in chunk 51.

Depending on whether the data is attested or not, we can get the actual grade and date from two different substructures: 'Arbetsunderlag' are results in LADOK that have been entered, but not attested; 'SenastAttesteradeResultat' are results that have been attested. They both have the same structure.

65b *<get the component result data 65b>≡*

```

if "Arbetsunderlag" in component_result:
    result_data = component_result["Arbetsunderlag"]
elif "SenastAttesteradeResultat" in component_result:
    result_data = component_result["SenastAttesteradeResultat"]
else:
    continue

```

This code is used in chunk 65a.



The results only refer to the component's instance ID, so we must match the component on that ID. The `course_round` object allows us to do exactly that with the `components` method. We note that we can ignore the grade on the whole course, since that one is determined by the other components.

```
66a <check component code in result data 66a>≡
    if component.instance_id != result_data["UtbildningsinstansUID"]:
        continue
```

This code is used in chunk 65a.

Finally, if there is a grade, we can extract the grade and compute the normalized date. However, if there are no results, we set `None`.

We also only consider grades finished during the course. I.e., if the student has finished after the course ended, we set it as not finished. Otherwise, we cannot compare with earlier courses, since then students have had the chance to finish, so we want to see how many didn't finish on time. We use `args.time_limit` to specify this.

Sometimes, there is a result draft without any date, we ignore these completely.

```
66b <extract grade and normalized date from result data 66b>≡
    if "Betygsgradsobjekt" in result_data:
        grade = result_data["Betygsgradsobjekt"]["Kod"]
        try:
            date = datetime.date.fromisoformat(
                result_data["Examinationsdatum"])
        except KeyError:
            normalized_date = None
            grade = "-"
        else:
            normalized_date = (date - course_start) / course_length
            if args.time_limit and normalized_date > args.time_limit:
                grade = "-"
                normalized_date = None
    else:
        grade = "-"
        normalized_date = None
```

This code is used in chunks 61 and 62.

We must add the command line argument for the limit for the normalized date.

```
66c <add data command arguments to data parser 58a>+≡
    data_parser.add_argument("-t", "--time-limit", type=float,
        help="The time (normalized) for cutting off results, "
        "use `-t 1.0` to cut off at course end.")
```

This code is used in chunk 51.

## 5.4.2 Filtering data

We might not want all data, but specify on the command-line which data to keep. We want to filter on students and components.

```
66d <functions 52a>+≡
    def filter_students(all_students, desired_students):
        """Returns only the students with personnummer in desired_students."""
```

```

    if not desired_students:
        return all_students
    return filter(
        lambda x: x.personnummer in desired_students,
        all_students
    )

def filter_components(all_components, desired_components):
    """Returns only the components with a code in the desired_components."""
    if not desired_components:
        return all_components
    return filter(
        lambda x: x.code in desired_components,
        all_components
    )

```

This code is used in chunk 51.

Now, we must also add the suitable command-line options.

```

67a <add data command arguments to data parser 58a>+=
    data_parser.add_argument("-s", "--students", nargs="+",
        help="List of personnummer for students to include, "
        "otherwise all students will be included.")

    data_parser.add_argument("-c", "--components", nargs="+",
        help="List of component codes for components to include, "
        "otherwise all components will be included.")

    data_parser.add_argument("-x", "--exclude-reregistered", action="store_true",
        help="Exclude students who are reregistered on this round "
        "(i.e., only include students registered for the first time).")

    data_parser.add_argument("-X", "--exclude-credit-transfers", action="store_true",
        help="Exclude students who have credit transfers on the course "
        "(note: credit transfer may be for only part of the course).")

```

This code is used in chunk 51.

## 5.5 Which students to include

By default, we include all students on a course round. However, for certain analyses, we may want to exclude some students. The user can optionally exclude reregistered students or students with credit transfers using command-line flags.

```

67b <determine if student should be included 67b>≡
    if not should_include(ladok, student, course_round, student_results,
        args.exclude_reregistered, args.exclude_credit_transfers):
        continue

```

This code is used in chunk 61.

We filter students based on the user's choices. If the user has specified `-x` (`--exclude-reregistered`), we exclude students who are reregistered on this round. If the user has specified `-X` (`--exclude-credit-transfers`), we exclude students who have any credit transfer on the course.

```
68a <functions 52a>+≡
def should_include(ladok, student, course_round, result,
                   exclude_reregistered=False, exclude_credit_transfers=False):
    """Returns True if student should be included, False if to be excluded"""
    if exclude_reregistered and is_reregistered(ladok, student.ladok_id, course_round):
        return False

    if exclude_credit_transfers and has_credit_transfer(result):
        return False

    return True
```

This code is used in chunk 51.

A student should be counted on the first round they were registered on. We check if a student is reregistered by checking if the course round is the first round the student was registered on.

```
68b <functions 52a>+≡
def is_reregistered(ladok, student_id, course):
    """Check if the student is reregistered on the course round course."""
    registrations = ladok.registrations_on_course_JSON(
        course.education_id, student_id)
    registrations.sort(
        key=lambda x: x["Utbildningsinformation"]["Studieperiod"]["Startdatum"])
    first_reg = registrations[0]
    return first_reg["Utbildningsinformation"]["Utbildningstillfalleskod"] != \
        course.round_code
```

This code is used in chunk 51.

If the student has a credit transfer for any part of the course, we should exclude the student.

```
68c <functions 52a>+≡
def has_credit_transfer(results):
    """Returns True if there exists a credit tranfer among the results."""
    for result in results:
        for component_result in result["ResultatPaUtbildningar"]:
            if component_result["HarTillgodoraknande"]:
                return True

    return False
```

This code is used in chunk 51.

## Chapter 6

# The report command

We want to report results from the command line. We need the following data for each result:

- course identifier,
- course component,
- student identifier,
- grade, and
- date<sup>1</sup>;
- grader 1,
- grader 2,
- ...

<sup>1</sup>Optional, we set today's date if not present.

We provide two ways to do this: The first is to provide positional arguments on the command line. The second is to not provide any positional argument, and in this case we read CSV data from standard input.

### 6.1 The report subcommand

This is a subcommand is run as part of the `ladok3.cli` module. We provide a function `add_command_options` that adds the subcommand options to a given parser. We need access to LADOK through the `ladok3` module.

```
69 <report.py 69>≡
    import csv
    import datetime
    import ladok3
    import sys

    <functions 71a>

    def add_command_options(parser):
        """Add the 'report' subcommand options to the argument parser.
```

Creates a subparser for result reporting with options for single results via command line arguments or batch processing via CSV input.

```

Args:
    parser (ArgumentParser): The parent parser to add the subcommand to.
    """
    report_parser = parser.add_parser("report",
        help="Reports course results to LADOK",
        description="Reports course results to LADOK"
    )
    report_parser.set_defaults(func=command)
    <add report command arguments to report parser 70b>

def command(ladok, args):
    """Execute the result reporting command.

    Args:
        ladok (LadokSession): The LADOK session for data access.
        args: Parsed command line arguments containing result data or CSV options.
    """
    <report results depending on args 82d>

```

Root chunk (not used in this document).

We also provide unit tests for the reporting logic so we can verify the state machine without contacting LADOK.

```

70a <test report.py 70a>≡
import datetime
import types

import pytest

import ladok3
import ladok3.report

<test helpers 75b>
<test functions 76>

```

Root chunk (not used in this document).

As mentioned above, we provide two ways of doing this.

```

70b <add report command arguments to report parser 70b>≡
one_parser = report_parser.add_argument_group(
    "one result as positional args, only date is optional")
<add one result group arguments 81a>
many_parser = report_parser.add_argument_group(
    "many results read from standard input as CSV, columns: "
    "course, component, student, grade, date, grader 1, ..., grader N")
<add many results group arguments 72a>

```

This definition is continued in chunk 71c.

This code is used in chunk 69.

## 6.2 Report the results

We provide two functions, one for each way of reporting the results.

```
71a <functions 71a>≡
def report_one_result(ladok, args):
    """Report a single result specified via command line arguments.

    Args:
        ladok (LadokSession): The LADOK session for data access.
        args: Command line arguments containing course, student, component, and grade info.
    """
    <report results given in args 82c>

def report_many_results(ladok, args):
    """Report multiple results read from CSV data on stdin.

    Args:
        ladok (LadokSession): The LADOK session for data access.
        args: Command line arguments containing CSV processing options.
    """
    <report results given in stdin 71d>
```

This definition is continued in chunk 73.

This code is used in chunk 69.

In both cases, we want to specify whether or not the results should be finalized. We add an option whether we want to finalize the grade for attestation by the examiner. We add this argument outside the two groups, since it's valid for both.

```
71b <finalize option help 71b>≡
    Finalize the grade (mark as ready/klarmarkera) for examiner to attest.
    Note that without this option, no graders will be registered in LADOK.
```

This code is used in chunk 71c.

```
71c <add report command arguments to report parser 70b>+≡
    report_parser.add_argument("-f", "--finalize",
        help="""<finalize option help 71b>""",
        action="store_true",
        default=False
    )
```

This code is used in chunk 69.

## 6.3 Report many results given in standard input

We want to read CSV data from standard input.

```
71d <report results given in stdin 71d>≡
    data_reader = csv.reader(sys.stdin, delimiter=args.delimiter)
    for course_code, component_code, student_id, grade, date, *graders in data_reader:
        <report a result read from stdin 72c>
```

This code is used in chunk 71a.

We need to add an argument for the delimiter.

```
72a <add many results group arguments 72a>≡
    many_parser.add_argument("-d", "--delimiter",
        default="\t",
        help="The delimiter for the CSV input; "
            "default is a tab character to be compatible with POSIX commands, "
            "use \-d, \ or \-d , \ to get comma-separated values.")
```

This definition is continued in chunk 72b.

This code is used in chunk 70b.

We also want to handle errors and confirmations. When reporting in bulk, we don't want unnecessary errors. We also want to have a summary of the changes.

```
72b <add many results group arguments 72a>+≡
    many_parser.add_argument("-v", "--verbose",
        action="count", default=0,
        help="Increases the verbosity of the output: -v will print results that "
            "were reported to standard out. Otherwise only errors are printed.")
```

This code is used in chunk 70b.

Then we can actually report the result using the values read from stdin.

```
72c <report a result read from stdin 72c>≡
    try:
        set_grade(ladok, args,
            student_id, course_code, component_code, grade, date, graders)
    except Exception as err:
        <try to resolve student from ladok using student_id 72d>
        print(f"{course_code} {component_code}={grade} ({date}) {student}: "
            f"{err}",
            file=sys.stderr)
```

This code is used in chunk 71d.

The reason we want to resolve the student from LADOK is that the `student_id` might be a personnummer or a LADOK ID—if the latter, it's not particularly readable for a human and we can't use the LADOK ID in the LADOK web interface when we want to deal with the errors manually. But if we resolve the student, then we get a readable name.

```
72d <try to resolve student from ladok using student_id 72d>≡
    try:
        student = ladok.get_student(student_id)
    except Exception:
        student = student_id
```

This code is used in chunks 72c and 82c.

When we set the grade, there are a few cases that should be handled. If the result isn't attested, we can still modify it. We must compare both the requested grade and the effective examination date, since LADOK stores both as part of the reported result. Then, if we want to finalize, we finalize the grade—this allows us to run the command first without `-f` (to set the grade) and then with `-f` (to finalize it) without getting an error. If we've selected the verbose option, then we print what we have reported.

Results in LADOK go through three states:

**Draft** Can be modified and finalized.

**Finalized** Ready for examiner attestation, cannot be modified or finalized again.

**Attested** Fully locked.

If the result is already finalized (but not attested), we compare the requested grade and date with the cached result. A mismatch is the signal that someone may already have corrected the result in LADOK and that we now want to try again. Only then do we refresh that specific result, so we can recover from stale cache state without clearing the whole cached session. If the refreshed state is still finalized and matches, we skip trying to modify or finalize it again—this keeps the command idempotent without refreshing every old result. If the result was attested, we apply the same mismatch-driven refresh rule to the cached attested result. If it still differs after that refresh, we output an error. If both match, we silently ignore it. This is best for bulk reporting, because then we can always try to report for all students.

We want to report errors as exceptions.

```
73 <functions 71a>+=
def set_grade(ladok, args,
              student_id, course_code, component_code, grade, date, graders):
    """Set a grade for a student's course component result.

    Handles the logic for setting grades, including checking if results are
    already attested, validating dates, and optionally finalizing results.

    Args:
        ladok (LadokSession): The LADOK session for data access.
        args: Command line arguments with options like verbose and finalize.
        student_id (str): Student identifier (personnummer or LADOK ID).
        course_code (str): Course code (e.g., "DD1315").
        component_code (str): Component code (e.g., "LAB1").
        grade (str): Grade to assign (e.g., "P", "F", "A").
        date (str): Examination date in YYYY-MM-DD format.
        graders (list): List of grader identifiers.

    Raises:
        Exception: If the grade setting fails or validation errors occur.
    """
    student = ladok.get_student(student_id)
    <get course from student and course_code 80a>
    <get component from course and component_code 80b>
    refreshed_attested_result = False
    refreshed_finalized_result = False

    while True:
        if component.attested:
            <handle attested result 75a>
        elif component.finalized:
            <handle finalized result 74c>
        else:
            <handle draft result 74b>
```



```
break
```

This code is used in chunk 69.

Draft, finalized, and attested results must be compared on the effective result, not only on the grade code. LADOK treats the examination date as part of the stored result, so a matching grade with a different date still needs an update for drafts and must still be rejected for finalized and attested results. We therefore normalize the requested date in the same way as the write path, and normalize the current date before we compare them.

```
74a <normalize requested and current result dates 74a>≡
    <ensure date is a valid date for course 80c>
    current_date = component.date
    if isinstance(current_date, str):
        current_date = datetime.date.fromisoformat(current_date)
```

This code is used in chunks 74 and 75a.

If the result is a draft, we can set and finalize the grade as usual.

```
74b <handle draft result 74b>≡
    <normalize requested and current result dates 74a>
    if component.grade != grade or current_date != date:
        component.set_grade(grade, date)
    if args.finalize:
        component.finalize(graders)
    if args.verbose:
        print(f"{course_code} {student}: reported "
              f"{component.component} = {component.grade} ({date}) "
              f"by {' '.join(graders)}.")
```

This code is used in chunk 73.

If the result is already finalized but not attested, it's waiting for the examiner to attest it. We still need to compare the requested grade and date with the finalized result. Before rejecting a mismatch, we refresh this specific result once. That lets the reporter fix the result in LADOK and then try again without clearing the whole cached session. The cached finalized flag may be stale if someone already moved the result back to draft in LADOK. When the caller asked us to finalize, we also refresh once before treating the cached finalized state as authoritative, otherwise we might skip a needed finalization. If the refreshed state is still finalized and differs, we must fail explicitly. The reporter must first change the finalized result back to draft in LADOK. If they match and the refreshed state is still finalized, the command remains idempotent and we can just report that the result is waiting for attestation in verbose mode.

```
74c <handle finalized result 74c>≡
    <normalize requested and current result dates 74a>
    if (component.grade != grade or current_date != date or args.finalize):
        if not refreshed_finalized_result:
            refreshed_finalized_result = True
            component.pull()
            continue
    if component.grade != grade or current_date != date:
        raise ladok3.LadokValidationError(
            f"finalized {component.component} result ")
```

```

        f"{component.grade} ({component.date}) is different from "
        f"{grade} ({date}); change the finalized result back to "
        "draft in LADOK before changing the grade.")
    if args.verbose:
        print(f"{course_code} {student}: {component.component} already finalized, "
              f"waiting for attestation.")

```

This code is used in chunk 73.

If the result is attested, we check if the grade and date we want to report match the attested result. If not, we raise an error since we cannot change an attested grade without first removing the attested result in LADOK. Before raising that error, we refresh this specific result once. That lets the reporter remove the attested result in LADOK and then try again without clearing the whole cached session. If the cached attestation is stale, the next loop iteration will continue from the refreshed draft or finalized state instead. If they match, we silently succeed since the desired result is already set.

```

75a <handle attested result 75a>≡
    <normalize requested and current result dates 74a>
    if component.grade != grade or current_date != date:
        if not refreshed_attested_result:
            refreshed_attested_result = True
            component.pull()
            continue
        raise ladok3.LadokValidationError(
            f"attested {component.component} result "
            f"{component.grade} ({component.date}) is different from "
            f"{grade} ({date}); remove the attested result in LADOK "
            "before changing the grade.")

```

This code is used in chunk 73.

We can verify the important local branches here: draft results remain editable, matching finalized results stay idempotent, and locked results explain how to change them.

```

75b <test helpers 75b>≡
    class FakeComponent:
        def __init__(self, *, grade=None, attested=False,
                     finalized=False, date=None, pull_updates=None,
                     pull_exception=None):
            self.component = "DD1315"
            self.grade = grade
            self.attested = attested
            self.finalized = finalized
            self.date = date
            self.pull_updates = pull_updates or []
            self.pull_exception = pull_exception
            self.set_calls = []
            self.finalize_calls = []
            self.pull_calls = 0

        def set_grade(self, grade, date):
            self.set_calls.append((grade, date))

```

```

        self.grade = grade
        self.date = date

    def finalize(self, graders):
        self.finalize_calls.append(list(graders))

    def pull(self):
        self.pull_calls += 1
        if self.pull_exception:
            raise self.pull_exception
        if self.pull_updates:
            update = self.pull_updates.pop(0)
            for key, value in update.items():
                setattr(self, key, value)

class FakeCourse:
    def __init__(self, component):
        self.__component = component
        self.start = datetime.date(2024, 1, 15)

    def results(self, /, **kwargs):
        return [self.__component]

class FakeStudent:
    def __init__(self, course):
        self.__course = course

    def courses(self, /, **kwargs):
        return [self.__course]

    def __str__(self):
        return "Test Student"

class FakeLadok:
    def __init__(self, student):
        self.__student = student

    def get_student(self, student_id):
        return self.__student

```

This code is used in chunk 70a.

```

76 <test functions 76>≡
    def test_set_grade_updates_draft_result():
        component = FakeComponent()
        course = FakeCourse(component)
        student = FakeStudent(course)
        ladok = FakeLadok(student)

```

```

args = types.SimpleNamespace(finalize=True, verbose=0)

ladok3.report.set_grade(
    ladok, args, "191212121212", "DD1315", "DD1315", "P",
    "2024-02-01", ["examiner"])

assert component.set_calls == [("P", datetime.date(2024, 2, 1))]
assert component.finalize_calls == ["examiner"]

def test_set_grade_updates_draft_result_date_without_grade_change():
    component = FakeComponent(grade="P", date="2024-01-20")
    course = FakeCourse(component)
    student = FakeStudent(course)
    ladok = FakeLadok(student)
    args = types.SimpleNamespace(finalize=False, verbose=0)

    ladok3.report.set_grade(
        ladok, args, "191212121212", "DD1315", "DD1315", "P",
        "2024-02-01", [])

    assert component.set_calls == [("P", datetime.date(2024, 2, 1))]
    assert component.finalize_calls == []

def test_set_grade_leaves_matching_finalized_result_unchanged():
    component = FakeComponent(grade="P", finalized=True, date="2024-01-20")
    course = FakeCourse(component)
    student = FakeStudent(course)
    ladok = FakeLadok(student)
    args = types.SimpleNamespace(finalize=True, verbose=0)

    ladok3.report.set_grade(
        ladok, args, "191212121212", "DD1315", "DD1315", "P",
        "2024-01-20", ["examiner"])

    assert component.set_calls == []
    assert component.finalize_calls == []

def test_set_grade_rejects_finalized_date_change():
    component = FakeComponent(grade="P", finalized=True, date="2024-01-20")
    course = FakeCourse(component)
    student = FakeStudent(course)
    ladok = FakeLadok(student)
    args = types.SimpleNamespace(finalize=False, verbose=0)

    with pytest.raises(
        ladok3.LadokValidationError,
        match="change the finalized result back to draft in LADOK"):

```

```

    ladok3.report.set_grade(
        ladok, args, "191212121212", "DD1315", "DD1315", "P",
        "2024-02-01", [])

    assert component.pull_calls == 1
    assert component.set_calls == []
    assert component.finalize_calls == []

def test_set_grade_retries_after_stale_finalized_result():
    component = FakeComponent(
        grade="P", finalized=True, date="2024-01-20",
        pull_updates=[{"attested": False, "finalized": False,
                        "grade": "P", "date": "2024-01-20"}])
    course = FakeCourse(component)
    student = FakeStudent(course)
    ladok = FakeLadok(student)
    args = types.SimpleNamespace(finalize=True, verbose=0)

    ladok3.report.set_grade(
        ladok, args, "191212121212", "DD1315", "DD1315", "P",
        "2024-02-01", ["examiner"])

    assert component.pull_calls == 1
    assert component.set_calls == [("P", datetime.date(2024, 2, 1))]
    assert component.finalize_calls == ["examiner"]

def test_set_grade_finalizes_after_refreshing_matching_finalized_result():
    component = FakeComponent(
        grade="P", finalized=True, date="2024-02-01",
        pull_updates=[{"attested": False, "finalized": False,
                        "grade": "P", "date": "2024-02-01"}])
    course = FakeCourse(component)
    student = FakeStudent(course)
    ladok = FakeLadok(student)
    args = types.SimpleNamespace(finalize=True, verbose=0)

    ladok3.report.set_grade(
        ladok, args, "191212121212", "DD1315", "DD1315", "P",
        "2024-02-01", ["examiner"])

    assert component.pull_calls == 1
    assert component.set_calls == []
    assert component.finalize_calls == ["examiner"]

def test_set_grade_explains_how_to_change_attested_result():
    component = FakeComponent(
        grade="F", attested=True, finalized=True, date="2024-01-20")

```

```

course = FakeCourse(component)
student = FakeStudent(course)
ladok = FakeLadok(student)
args = types.SimpleNamespace(finalize=True, verbose=0)

with pytest.raises(
    ladok3.LadokValidationError,
    match="remove the attested result in LADOK"):
    ladok3.report.set_grade(
        ladok, args, "191212121212", "DD1315", "DD1315", "P",
        "2024-02-01", ["examiner"])

assert component.set_calls == []
assert component.finalize_calls == []

def test_set_grade_rejects_attested_date_change():
    component = FakeComponent(
        grade="P", attested=True, finalized=True, date="2024-01-20")
    course = FakeCourse(component)
    student = FakeStudent(course)
    ladok = FakeLadok(student)
    args = types.SimpleNamespace(finalize=True, verbose=0)

    with pytest.raises(
        ladok3.LadokValidationError,
        match="remove the attested result in LADOK"):
        ladok3.report.set_grade(
            ladok, args, "191212121212", "DD1315", "DD1315", "P",
            "2024-02-01", ["examiner"])

    assert component.set_calls == []
    assert component.finalize_calls == []

def test_set_grade_retries_after_stale_attested_result():
    component = FakeComponent(
        grade="F", attested=True, finalized=True, date="2024-01-20",
        pull_updates=[{"attested": False, "finalized": False,
                       "grade": "F", "date": "2024-01-20"}])
    course = FakeCourse(component)
    student = FakeStudent(course)
    ladok = FakeLadok(student)
    args = types.SimpleNamespace(finalize=False, verbose=0)

    ladok3.report.set_grade(
        ladok, args, "191212121212", "DD1315", "DD1315", "P",
        "2024-02-01", [])

    assert component.pull_calls == 1

```

```
assert component.set_calls == [("P", datetime.date(2024, 2, 1))]
assert component.finalize_calls == []
```

```
def test_set_grade_propagates_missing_result_after_refresh():
    component = FakeComponent(
        grade="F", attested=True, finalized=True, date="2024-01-20",
        pull_exception=ladok3.LadokNotFoundError(
            "DD1315: no result found in LADOK for refresh"))
    course = FakeCourse(component)
    student = FakeStudent(course)
    ladok = FakeLadok(student)
    args = types.SimpleNamespace(finalize=False, verbose=0)

    with pytest.raises(
        ladok3.LadokNotFoundError,
        match="DD1315: no result found in LADOK for refresh"):
        ladok3.report.set_grade(
            ladok, args, "191212121212", "DD1315", "DD1315", "P",
            "2024-02-01", [])

    assert component.pull_calls == 1
    assert component.set_calls == []
```

This code is used in chunk 70a.

Now we simply want to set those objects up. We want to throw exceptions that explain what the problem is if these don't exist.

```
80a <get course from student and course_code 80a>≡
try:
    course = student.courses(code=course_code)[0]
except IndexError:
    raise ladok3.LadokNotFoundError(f"{course_code}: No such course for {student}")
```

This code is used in chunk 73.

```
80b <get component from course and component_code 80b>≡
try:
    component = course.results(component=component_code)[0]
except IndexError:
    raise ladok3.LadokNotFoundError(f"{component_code}: no such component for {course_code}")
```

This code is used in chunk 73.

Finally, we want to ensure the date is correct. The date must be at the earliest the start of the course. The student can't finish any results before the course has started. LADOK will not accept that.

```
80c <ensure date is a valid date for course 80c>≡
if not isinstance(date, datetime.date):
    date = datetime.date.fromisoformat(date)

if date < course.start:
    print(f"{course_code} {component_code}={grade} "
          f"({date}) {student}: ")
```

```

        f"Grade date ({date}) is before "
        f"course start date ({course.start}), "
        f"using course start date instead.")
    date = course.start

```

This code is used in chunk 74a.

## 6.4 Report a result given on command line

If we've chosen to give one result on the command line, then we'll need the following arguments.

We start with the course, component code, the student's ID and grade.

```

81a <add one result group arguments 81a>≡
    one_parser.add_argument("course_code", nargs="?",
        help="The course code (e.g. DD1315) for which the grade is for."
    )

    one_parser.add_argument("component_code", nargs="?",
        help="The component code (e.g. LAB1) for which the grade is for. "
        "This can be set to the course code (e.g. DD1315) to set the "
        "final grade for the course. But all components must be "
        "certified (attested) before the course grade can be set."
    )

    one_parser.add_argument("student_id", nargs="?",
        help="Student identifier (personnummer or LADOK ID)."
    )

    one_parser.add_argument("grade", nargs="?",
        help="The grade (e.g. A or P)."
    )

```

This definition is continued in chunk 82.

This code is used in chunk 70b.

We must make them optional like this to make it work with our second alternative (bulk reporting through stdin), so we must check ourselves that we got the arguments.

```

81b <check that we got all positional arguments 81b>≡
    if not (args.course_code and args.component_code and
        args.student_id and args.grade):
        print(f"{sys.argv[0]} report: "
            "not all positional args given: "
            "course_code, component, student, grade",
            file=sys.stderr)
        sys.exit(1)

```

This code is used in chunk 82c.



Next, we have the date. To ensure it's a valid date we'll make argparse convert it to datetime format. If it's not provided, we let argparse set it to today's date.

```
82a <add one result group arguments 81a>+=
    one_parser.add_argument("date", nargs="?",
        help="Date on ISO format (e.g. 2021-03-18), "
        f"defaults to today's date ({datetime.date.today()}).",
        type=datetime.date.fromisoformat,
        default=datetime.date.today()
    )
```

This code is used in chunk 70b.

Finally, we have the list of graders.

```
82b <add one result group arguments 81a>+=
    one_parser.add_argument("graders", nargs="*",
        help="Space separated list of who did the grading, "
        "give each grader as 'First Last <email@institution.se>'.")
```

This code is used in chunk 70b.

Now that we have the arguments, we can just execute the following code using them.

```
82c <report results given in args 82c>=
    <check that we got all positional arguments 81b>
    try:
        set_grade(ladok, args,
            args.student_id, args.course_code, args.component_code,
            args.grade, args.date, args.graders)
    except Exception as err:
        student_id = args.student_id
        <try to resolve student from ladok using student_id 72d>
        print(f"{args.course_code} {args.component_code}={args.grade} ({args.date}) "
            f"{student}: {err}",
            file=sys.stderr)
```

This code is used in chunk 71a.

## 6.5 Determine which function to run

We know that if a course code is given as positional argument, then we know that we should report one result from the command line.

```
82d <report results depending on args 82d>=
    if args.course_code:
        report_one_result(ladok, args)
    else:
        report_many_results(ladok, args)
```

This code is used in chunk 69.

## Chapter 7

# The student command

We want to show data for a student. For this, we need a student identifier. We want to use it like this:

```
1 ladok student 700101-1234
```

We also want to optionally print courses.

```
1 ladok student 700101-1234 -c "DD131[0-9]"
```

### 7.1 The student subcommand

This is a subcommand is run as part of the `ladok3.cli` module. We provide a function `add_command_options` that adds the subcommand options to a given parser. We need access to LADOK through the `ladok3` module.

```
83 <student.py 83>=  
    import csv  
    import ladok3.cli  
  
    <functions 85c>  
  
    def add_command_options(parser):  
        """Add the 'student' subcommand options to the argument parser.  
  
        Creates a subparser for displaying student information with options  
        for course filtering and result display.  
  
        Args:  
            parser (ArgumentParser): The parent parser to add the subcommand to.  
        """  
        student_parser = parser.add_parser("student",  
            help="Shows a student's information in LADOK",  
            description="""  
                Show a student's information in LADOK.  
                Shows information like name, personnummer, contact information.  
            """)  
    )
```

```

student_parser.set_defaults(func=command)
<add student command arguments to student parser 84a>

def command(ladok, args):
    """Execute the student information display command.

    Args:
        ladok (LadokSession): The LADOK session for data access.
        args: Parsed command line arguments containing student ID and display options.
    """
    <print info depending on args 85b>

```

Root chunk (not used in this document).

## 7.2 The student command options

### 7.2.1 The student identifier

As mentioned above, we want to take one positional argument, the student identifier. Since our API (Section 12.1) can handle both personnummer and LADOK ID transparently, we don't have to care about that either.

84a <add student command arguments to student parser 84a>≡

```

    student_parser.add_argument("id",
        help="The student's ID, either personnummer or LADOK ID"
    )

```

This definition is continued in chunks 84 and 85a.

This code is used in chunk 83.

### 7.2.2 An optional course identifier

We also want an option for the course code.

84b <add student command arguments to student parser 84a>+≡

```

    student_parser.add_argument("-c", "--course",
        nargs="?", const=".*",
        help="A regular expression for which course codes to list, " \
            "use no value for listing all courses."
    )

```

This code is used in chunk 83.

### 7.2.3 A results flag

We also want a flag for specifying whether or not to include the results of each course.

84c <add student command arguments to student parser 84a>+≡

```

    student_parser.add_argument("-r", "--results",
        action="store_true", default=False,
        help="Set to include results for each course listed."
    )

```

This code is used in chunk 83.

### 7.2.4 A contact information flag

We also want a flag for specifying whether or not to include the student's contact information (email, phone, address).

```
85a <add student command arguments to student parser 84a>+=
    student_parser.add_argument("--contact",
        action="store_true", default=False,
        help="Include contact information (email, phone, address).")
    )
```

This code is used in chunk 83.

## 7.3 Print the student data

Now that we have the student identifier, we can simply use that to fetch the student from LADOK. Note that we access the `student.alive` attribute just to force pulling the personal data from LADOK to trigger any error in the try-statement.

```
85b <print info depending on args 85b>=
    try:
        student = ladok.get_student(args.id)
        student.alive
    except Exception as err:
        ladok3.cli.err(-1, f"can't fetch student data for {args.id}: {err}")

    print_student_data(student, args)

    if args.course:
        print()
        print_course_data(student, args)
```

This code is used in chunk 83.

### 7.3.1 Printing personal student data

To print the student's personal data, we simply print the most interesting attributes.

```
85c <functions 85c>=
def print_student_data(student, args):
    """Prints the student data, all attributes, to stdout.

    Args:
        student: A Student object with the student's data
        args: Command line arguments, including flags like --contact
    """
    print(f"First name:    {student.first_name}")
    print(f>Last name:    {student.last_name}")
    print(f"Personnummer: {student.personnummer}")
    print(f"LADOK ID:      {student.ladok_id}")
    print(f"Alive:         {student.alive}")
    <print info about suspensions for student 86a>
    <print contact info if requested 86c>
```

This definition is continued in chunk 86d.

This code is used in chunk 83.

We want to print whether the student is currently suspended or not. We want to make this really clear.

```
86a <print info about suspensions for student 86a>≡
    print(f"Suspended:      ", end="")
    if any(map(lambda x: x.is_current, student.suspensions)):
        print("YES")
    else:
        print("no")
```

This definition is continued in chunk 86b.

This code is used in chunk 85c.

Then we also want to print all the times the student has been suspended. We only want to print this if the student has been suspended at least once.

```
86b <print info about suspensions for student 86a>+≡
    if student.suspensions:
        print(f"Suspensions:  ", end="")
        for suspension in student.suspensions:
            print(f"{suspension}", end="\n          ")
        print()
```

This code is used in chunk 85c.

Now we add the contact information display. We only want to print this if the user has requested it using the `--contact` flag.

```
86c <print contact info if requested 86c>≡
    if args.contact:
        print("Contact information:")
        if student.email:
            print(f"Email:          {student.email}")
        if student.phone:
            print(f"Phone:          {student.phone}")
        if student.address:
            print(f"Address:         {student.address[0]}")
            for line in student.address[1:]:
                print(f"                {line}")
```

This code is used in chunk 85c.

### 7.3.2 Printing student's course data

To print the student's course data, we simply filter the courses on the option that the user supplies. We then print all courses and, if the flag is set, we also print the results for each course.

```
86d <functions 85c>+≡
    def print_course_data(student, args):
        """Prints the courses"""
        print("Courses:")
        for course in student.courses(code=args.course):
            print(f"{course}")
        if args.results:
            for result in course.results():
```

```
print(f" {result}")
```

This code is used in chunk 83.

## **Part III**

# **The Python library**

## Chapter 8

### Overview

This is the documented source code of the LADOK3 API wrapper for Python, the package `ladok3`. We use the standard structure for the script. We start with the imports and then our class definitions follow in [⟨classes 93⟩](#) and some helper functions in [⟨functions 97a⟩](#).

```
89a <ladok3.py 89a>≡
    """A Python wrapper for the LADOK3 API"""
    # -*- coding: utf-8 -*-
    import cachetools
    import datetime
    import functools
    import html
    import json
    import operator
    import re
    import requests
    from collections.abc import Callable
    from requests.adapters import HTTPAdapter
    from urllib3.util.retry import Retry
    import urllib.parse
    import weblogin.ladok
    import weblogin.microsoft

    <lazy session attribute 90b>

    <classes 93>
    <functions 97a>
```

Root chunk (not used in this document).

We also provide tests for all functionality in `test_ladok3.py`. These illustrate how to use the `ladok3` module and provide testing using `pytest`.

```
89b <test_ladok3.py 89b>≡
    import json
    import ladok3
    import os

    <test functions 94a>
```



Root chunk (not used in this document).

We can also test `CourseResult` parsing without a live LADOK session by using small local stubs.

```
90a <test_course_result.py 90a>≡
import types

import ladok3
import pytest

<test_course_result_helpers 136>
<test_course_result_functions 137>
```

Root chunk (not used in this document).

## 8.1 Convenient access to a cached session

For scripts that use the CLI's cached credentials, we provide a convenient module-level attribute `session`. This allows a one-liner pattern:

```
1 import ladok3
2 student = ladok3.session.get_student("191234561234")
```

instead of the usual three-line boilerplate of loading credentials and restoring a cached session manually.

The session lifecycle—load credentials, try to restore a cached session, fall back to creating a fresh one—is shared with the CLI. Rather than duplicating that logic here, we delegate to `ladok3.cli.get_session`, which encapsulates the three-step process. The helper lives in `cli` because that module already owns the credential-loading and session-caching functions it depends on.

Since LADOK sessions contain OAuth tokens that get refreshed during use, we register an `atexit` handler to save the session back to the cache on process exit. This preserves refreshed tokens for the next invocation, just as the CLI does after every command.

We use Python's module-level `__getattr__` (PEP 562) for lazy loading—importing `ladok3` alone does *not* require credentials; the session is loaded only when `session` is first accessed. We import `ladok3.cli` inside `__getattr__` rather than at module level to avoid circular imports, since `cli.py` itself imports `ladok3`.

```
90b <lazy_session_attribute 90b>≡
_session = None
_credentials = None

def _save_session():
    if _session is not None and _credentials is not None:
        import ladok3.cli
        ladok3.cli.store_ladok_session(
            _session, _credentials
        )

def __getattr__(name):
    global _session, _credentials
```

```
if name == "session":
    if _session is None:
        import atexit
        import ladok3.cli
        try:
            _session, _credentials = (
                ladok3.cli.get_session()
            )
        except Exception:
            _session = None
        if _session is None:
            raise RuntimeError(
                "No LADOK credentials found. "
                "Run `ladok login` first, or "
                "create a session manually with "
                "ladok3.LadokSession(...)."
            )
        atexit.register(_save_session)
    return _session
raise AttributeError(
    f"module 'ladok3' has no attribute {name!r}"
)
```

This code is used in chunk [89a](#).

## Chapter 9

# Accessing LADOK

To access LADOK we provide a class `LadokSession`. An instance of this class provides the `session` attribute, which is an authenticated session to LADOK's REST API. It uses the `requests` module.

The simplest way to get a session is to use the module-level `ladok3.session` attribute, which handles credential loading, session caching, and cleanup automatically:

```
1 import ladok3
2
3 student = ladok3.session.get_student("123456-1234")
```

For more control, we can use the class directly as follows.

```
1 import ladok3
2 import weblogin.kth
3
4 ladok = ladok3.LadokSession(
5     "KTH Royal Institute of Technology",
6     autologin_handlers=[
7         weblogin.kth.SAMLlogin(),
8         weblogin.kth.UGlogin(os.environ["KTH_LOGIN"],
9                               os.environ["KTH_PASSWD"]),
10    ],
11    test_environment=True) # for experiments
12
```

An alternative way would be to use the general authentication procedure that seems to work at most Swedish universities.

```
1 import ladok3
2
3 ladok = ladok3.LadokSession("KTH Royal Institute of Technology",
4                             vars={"username": os.environ["KTH_LOGIN"],
5                                   "password": os.environ["KTH_PASSWD"]},
6                             test_environment=True) # for experiments
```

Yet another way is to use the `ladok` command's own credential store.

```

1 import ladok3
2 import ladok3.cli
3
4 ladok = ladok3.LadokSession(*ladok3.cli.load_credentials(),
5                             test_environment=True) # for experiments

```

Just note the unpacking `*` to unpack the tuple that `load_credentials` returns.

This chapter covers how the `LadokSession` class work. The remaining chapters cover what the `ladok` object can be used for. Chapter 12 covers how we can work with student data. Chapter 13 covers how we can work with course data.

## 9.1 The `LadokSession` class

There are two categories of functionality that we want from the `LadokSession` object. The first is the `session` attribute. This is an active and logged-in session that can be used to query LADOK (REST API over HTTPS). The second is the set of methods to get objects of interest, these methods use the `session` attribute to query data to create the objects. We cover the first (the `session` attribute) in this section and the second (the data methods) in Section 9.2.

We want to provide the attribute `session` which is an active and logged-in session for querying LADOK. We must thus handle authentication to LADOK. The authentication for using LADOK is performed using a university SSO system. We will use the `weblogin` package<sup>1</sup> to handle this. This will guarantee that we're always signed in.

<sup>1</sup>URL: <https://github.com/dbosk/weblogin>

```

93 <classes 93>≡
    class LadokSession:
        """This is an interface for reading and writing data from and to LADOK."""
        def __init__(self, institution: str, vars: dict | None = None,
                     autologin_handlers: list | None = None,
                     test_environment: bool = False,
                     notification_cmd: str | None = None) -> None:
            """
            Creates a session with LADOK.
            - `institution` is the name (str) of the university that will give a unique
              match when searching SeamlessAccess.org (see weblogin.ladok.SSOlogin).
            - `vars` is a dictionary that is passed to weblogin.ladok.SSOlogin to
              supply the login credentials. Usually contains keys 'username' and
              'password', see weblogin.ladok.SSOlogin documentation for details.
            - `autologin_handlers` is a list of weblogin.AutologinHandler objects
              specific to the institution. Usually one for the SAML handler and one for
              the actual login server. (For KTH it's weblogin.kth.SAMLlogin and
              weblogin.kth.UGlogin.) Default value is None, only the
              `weblogin.ladok.SSOlogin` handler will be used.
              A `weblogin.microsoft.AzureMFA` handler is always appended automatically
              to handle Microsoft Authenticator MFA challenges.
            - `test_environment` specifies whether we should use LADOK's test
              environment instead of the production environment.
            - `notification_cmd` is an optional command (str) used to notify the user
              of the MFA number (e.g. 'notify-send'). The environment variable
              WEBLOGIN_MFA_NOTIFICATION takes precedence if set.

```

```

"""
self.__session = None
<construct the session object from the autologin handlers 94b>
<LadokSession constructor body 99>

@property
def session(self) -> requests.Session:
    """A guaranteed to be active and logged in requests session to LADOK"""
    return self.__session

@session.setter
def session(self, new_value: requests.Session) -> None:
    self.__session = new_value

<LadokSession data methods 104>

```

This definition is continued in chunks 96–98, 105, 106, 110a, 115c, 118, 125, 128, and 130c.  
This code is used in chunk 89a.

Now let's test this class. We create a single `LadokSession` object at the module level that is shared across all tests. This minimizes the number of MFA authentications required when running the test suite, since each session creation triggers a full login flow.

```

94a <test functions 94a>≡
    ladok = ladok3.LadokSession(
        os.environ["LADOK_INST"],
        vars={"username": os.environ["LADOK_USER"],
              "password": os.environ["LADOK_PASS"]},
        test_environment=True,
        notification_cmd="notify-send")

def test_LadokSession_vars():
    assert ladok.user_info_JSON()

```

This definition is continued in chunks 101–103.  
This code is used in chunk 89b.

### 9.1.1 Construct the session using weblogin

To construct the session, we simply construct a `weblogin.AutologinSession` object. This one requires a list of `weblogin.AutologinHandler` objects.

We simply pass the institution to the constructor of the `weblogin.ladok.SS0login` class. We add that to the list of autologin handlers supplied by the user. Due to the internal workings of `weblogin.AutologinSession`, we add it first as a, probably negligible, optimization.

Many Swedish universities use Microsoft's identity platform, which may require multi-factor authentication (MFA) via Microsoft Authenticator. We add a `weblogin.microsoft.AzureMFA` handler at the end of the handler list to handle this transparently. It is placed last because MFA challenges occur after password authentication. The handler is passive: if no MFA challenge is encountered, it does nothing. Users can configure a custom notification command via the `WEBLOGIN_MFA_NOTIFICATION` environment variable.

```

94b <construct the session object from the autologin handlers 94b>≡

```

```

if not vars:
    vars = {}
if not autologin_handlers:
    autologin_handlers = []

autologin_handlers.insert(0,
    weblogin.ladok.SSOlogin(institution, vars=vars,
        test_environment=test_environment))

autologin_handlers.append(
    weblogin.microsoft.AzureMFA(notification_cmd=notification_cmd))

self.__session = weblogin.AutologinSession(autologin_handlers)
<configure retry policy for the session 96a>

```

This code is used in chunk 93.

### 9.1.2 Retry policy for network resilience

Network operations can fail transiently due to temporary connectivity issues, server overload, or other intermittent problems. To make the LADOK API wrapper more robust, we implement an automatic retry mechanism with exponential backoff.

The retry policy addresses the “why” behind network failures: they are often temporary. Rather than immediately failing when encountering a network error or server overload (5xx errors), we wait and try again. The exponential backoff prevents overwhelming an already struggling server while still providing reasonable response times for transient failures.

We use the `urllib3.util.retry.Retry` class, which provides sophisticated retry logic, combined with `requests.adapters.HTTPAdapter` to integrate it into our session. This approach is preferable to manual retry loops because it:

- Handles backoff timing automatically with exponential growth
- Respects HTTP standards (like `Retry-After` headers)
- Integrates seamlessly with the `requests` session infrastructure
- Applies to all HTTP methods uniformly

We configure the retry policy as follows:

**Total retries** We set a maximum of 10 retry attempts. With exponential backoff starting at 1 second, this allows for approximately 5 minutes of total retry time (1, 2, 4, 8, 16, 32, 64, 128, 256, 300 seconds = ~5 minutes when capped at 300 seconds).

**Backoff factor** We use a backoff factor of 1, meaning the wait time between retries is  $\{\text{backoff factor}\} \times 2^{(\text{retry number}-1)}$  seconds. The first retry waits 1 second, the second waits 2 seconds, the third waits 4 seconds, and so on.

**Maximum backoff** We cap the backoff at 300 seconds (5 minutes) to prevent excessively long waits on later retries while still allowing the full retry sequence to span approximately 5 minutes total.

**Status forcelist** We retry on HTTP status codes 500 (Internal Server Error), 502 (Bad Gateway), 503 (Service Unavailable), and 504 (Gateway Timeout). These indicate temporary server-side issues that often resolve quickly.

**Allowed methods** We allow retries on all HTTP methods including GET, POST, PUT, and DELETE. While POST/PUT/DELETE are not idempotent by HTTP standards, LADOK's API design makes these operations safe to retry (results are either already recorded or will be recorded on retry).

```
96a <configure retry policy for the session 96a>≡
    retry_strategy = Retry(
        total=10,
        backoff_factor=1,
        backoff_max=300,
        status_forcelist=[500, 502, 503, 504],
        allowed_methods=["HEAD", "GET", "PUT", "DELETE", "OPTIONS", "TRACE",
                        "POST"]
    )
    adapter = HTTPAdapter(max_retries=retry_strategy)
    self.__session.mount("http://", adapter)
    self.__session.mount("https://", adapter)
```

This code is used in chunk 94b.

The mount method attaches the retry-enabled adapter to both HTTP and HTTPS URLs, ensuring all requests through this session benefit from automatic retries.

## 9.2 The LadokSession data methods

The data methods are essentially factories for various objects mapping to data in LADOK. We will first look at the base classes and then provide methods that return instances of various subclasses.

### 9.2.1 LADOK data base class: LadokData

Some objects will only have read-only attributes, like grade scales, whereas others, like students, will have modifiable attributes, such as results, which must be synced.

We will provide properties for the various attributes. This way we can have read-only properties for attributes that cannot be changed, such as students' names, and read-write properties for attributes that can be changed, such as results.

We also want to serialize the data. We will use the JSON format for this. We provide this as a read only property json. If the output of json is given as the kwargs parameter to the make\_properties method, it will restore all the attributes.

We provide the LadokData class with a constructor that takes keyword arguments (\*\*kwargs). These are not used, but just so that we can add super(). \_\_init\_\_(\*\*kwargs) at the top of every constructor of the child classes.

Thus, we have the following base class.

```
96b <classes 93>+≡
class LadokData:
    """Base class for LADOK data"""
    def __init__(self, /, **kwargs):
        pass
```

```

def make_properties(self, kwargs):
    """Turn keywords into private attributes and read-only properties"""
    <set up read-only properties 98a>

def __eq__(self, other):
    if type(self) == type(other):
        return self.__dict__ == other.__dict__
    return False

def __repr__(self):
    return str(self.json)

@property
def json(self):
    """JSON compatible dictionary representation of the object"""
    json_format = self.__dict__.copy()
    for key, value in json_format.items():
        if isinstance(value, LadokData):
            json_format[key] = value.json
    json_format["type"] = type(self).__name__
    return json_format

```

This code is used in chunk 89a.

### 9.2.2 To and from JSON format

We want to be able to restore an object from that JSON formatted dictionary. We provide a function `restore`, which restores an object from a JSON-like dictionary. The `restore` function uses the constructor and, in turn, the `__setup_properties` method.

```

97a <functions 97a>≡
def restore(json_dict):
    if "type" not in json_dict:
        return LadokData(**json_dict)

    <check type and return such object (never defined)>

    raise TypeError(f"cannot restore type {json_dict.type}, not a known type")

```

This definition is continued in chunks 100–103 and 110b.

This code is used in chunk 89a.

For completeness, we also provide `LadokDataEncoder`, a subclass of `JSONEncoder`.

```

97b <classes 93>+≡
class LadokDataEncoder(json.JSONEncoder):
    """JSON encoder for LadokData objects.

    Extends JSONEncoder to properly serialize LadokData objects using their
    json property for consistent JSON output.
    """
    def default(self, object):

```



```

        """Convert LadokData objects to JSON-serializable format.

        Args:
            object: The object to encode.

        Returns:
            dict: JSON representation for LadokData objects, or default handling.
        """
        if isinstance(object, LadokData):
            return object.json
        return super().default(object)

```

This code is used in chunk 89a.

For the `__setup_properties` method, we want it to set up private attributes and read-only properties for them. For each keyword in `kwargs`, we add the private attribute using `setattr(self, ...)` and the corresponding property to the class itself using `setattr(type(self), ...)`. (Note that we only add the property if it doesn't already exist.) We check the names, if the attributes already match the pattern for a private attribute name, we don't 'privatize' it again.

```

98a <set up read-only properties 98a>≡
    for attribute in kwargs:
        # private attributes are named on the form _class__attribute
        priv_attr_prefix = f"_{type(self).__name__}__"
        if priv_attr_prefix in attribute:
            priv_attr_name = attribute
            property_name = attribute.replace(priv_attr_prefix, "")
        else:
            priv_attr_name = priv_attr_prefix + attribute
            property_name = attribute

        setattr(self, priv_attr_name, kwargs[attribute])
        if not hasattr(type(self), property_name):
            setattr(type(self), property_name,
                    property(operator.attrgetter(priv_attr_name)))

```

This code is used in chunk 96b.

### 9.2.3 LADOK remote data base class: `LadokRemoteData`

The objects that can be modified can also be updated. They can be updated locally, which must be pushed to LADOK; they can be changed remotely, which must be pulled from LADOK. These objects must also keep a LADOK session internally (`self.ladok`).

```

98b <classes 93>+≡
    class LadokRemoteData(LadokData):
        """Base class for remote LADOK data"""
        def __init__(self, /, **kwargs):
            super().__init__(**kwargs)
            if "_LadokRemoteData__ladok" in kwargs:
                self.make_properties(**kwargs)
            else:

```

```

        self.__ladok = kwargs.pop("ladok")

    @property
    def ladok(self):
        return self.__ladok

    def pull(self):
        """Pull updates for object from LADOK"""
        raise NotImplementedError("This object doesn't support pulling from LADOK")

    def push(self):
        """Push changes made to the object to LADOK"""
        raise NotImplementedError("This object doesn't support pushing to LADOK")

```

This code is used in chunk 89a.

The LADOK session object provides some methods for searching for data, e.g., students. These methods will return instances of `LadokData` or `LadokRemoteData`.

#### 9.2.4 Cached methods

Since the objects that can be updated can update themselves (`LadokRemoteData`), we can cache the factories to speed up interaction with LADOK. Since Python uses references for objects, a cached object will always be up-to-date if the program has made changes to it. This way we don't have to interact with the LADOK servers for every request, but only when necessary.

We will have a shared cache for all methods.

99 *<LadokSession constructor body 99>≡*  
`self.cache = {}`

This code is used in chunk 93.

Then we can make the method caching by the following code.

```

1  @cachetools.cachedmethod(
2      operator.attrgetter("cache"),
3      key=functools.partial(cachetools.keys.hashkey, "method"))
4  def method(self, *args):
5      pass

```

However, this construction cannot handle non-hashable objects (e.g., dictionaries and lists) as arguments. But the JSON representation of objects should be possible to make hashable.

## Chapter 10

# Helper functions

We have several helper functions that are useful throughout.

### 10.1 Filter on keys

Many data methods will filter objects based on attributes. We provide a function that takes a list of objects and a dictionary. Each key in the dictionary corresponds to an attribute for the objects. The value corresponding to the key, is checked for matching.

We will provide the following function, `filter_on_keys`, which does exactly that. This implementation runs through the (remaining) items once per keyword, meaning it's conjunctive — all key-values must match the attribute values of the objects.

We use the function `compare_values` to compare the values, we'll get back to that function below.

```
100 <functions 97a>+≡
def filter_on_keys(items, /, **kwargs):
    """
    Input:
    - items is a list of objects.
    - kwargs is a dictionary where keys match the attributes of the objects in
      items.

    Output:
    - Only objects where *all* key--value pairs match for the corresponding
      attributes.
    - If values are strings, the value from kwargs is interpreted as a regular
      expression.

    Example:
    student.first_name = "Student"
    student.last_name = "Studentdotter"

    filter_on_keys([student], first_name="Student")
    gives [student]
    filter_on_keys([student], first_name="Student", last_name="Studentsson")
    gives []
    """
```

```

for key in kwargs:
    items = filter(
        lambda x: compare_values(operator.attrgetter(key)(x), kwargs[key]),
        items)
    return list(items)

```

This code is used in chunk 89a.

We test this function with the following tests.

101a `<test functions 94a>+≡`

```

def test_filter_on_keys():
    class Object:
        pass

    student1 = Object()
    student1.first_name = "Student"
    student1.last_name = "Studentsdotter"
    student2 = Object()
    student2.first_name = "Student"
    student2.last_name = "Studentsson"

    students = [student1, student2]
    assert ladok3.filter_on_keys(students, first_name="Student") == students
    assert ladok3.filter_on_keys(students,
        first_name="Student", last_name="Studentsdotter") == [student1]
    assert ladok3.filter_on_keys(students,
        last_name="Students(dotter|son)") == students

```

This code is used in chunk 89b.

To achieve disjunctive behaviour, we must run `filter_on_keys` once per keyword. However, that causes problems if an item matches on more than one key. The following function solves that problem by not checking an item against more keys once it has matched one key.

101b `<functions 97a>+≡`

```

def filter_on_any_key(items, /, **kwargs):
    """
    Input:
    - items is a list of objects.
    - kwargs is a dictionary where keys match the attributes of the objects in
      items.

    Output:
    - Only objects where *any* key--value pairs match for the corresponding
      attributes.
    - If values are strings, the value from kwargs is interpreted as a regular
      expression.

    Example:
    student.first_name = "Student"
    student.last_name = "Studentsdotter"

    filter_on_keys([student], first_name="Student")

```

```

    gives [student]
filter_on_keys([student], first_name="Student", last_name="Studentsson")
    gives [student]
"""
matching_items = []
for item in items:
    for key in kwargs:
        if compare_values(operator.attrgetter(key)(item), kwargs[key]):
            matching_items.append(item)
            break

return matching_items

```

This code is used in chunk 89a.

We test this function with the following tests.

102a `<test functions 94a>+≡`

```

def test_filter_on_any_key():
    class Object:
        pass

    student1 = Object()
    student1.first_name = "Student"
    student1.last_name = "Studentsdotter"
    student2 = Object()
    student2.first_name = "Student"
    student2.last_name = "Studentsson"

    students = [student1, student2]
    assert ladok3.filter_on_any_key(students,
        first_name="Student", last_name="Studentsdotter") == students

```

This code is used in chunk 89b.

The function `compare_values` is how we compare the values. The reason we don't simply replace it with the `==` operator is that for strings, we actually want to use regular expressions for matching. The downside of this is that we might accidentally get substring matches when we expect exact matches. E.g., `F` will match both `F` and `Fx` unless we specify `^F$`.

102b `<functions 97a>+≡`

```

def compare_values(val1, val2):
    """
    Compares val1 and val2:
    - if val1 and val2 both are strings, then val2 is interpreted as a regular
      expression.
    - otherwise we use ==
    """
    if isinstance(val1, str) and isinstance(val2, str):
        return re.search(val2, val1)

    return val1 == val2

```

This code is used in chunk 89a.

We test this function with the following tests.

```
103a <test functions 94a>+≡
def test_compare_values():
    assert ladok3.compare_values("Studentsdotter", "^Student")
    assert ladok3.compare_values("Studentsdotter", "dotter")
    assert not ladok3.compare_values("Studentsdotter", "son")
    assert ladok3.compare_values(1, 1)
    assert not ladok3.compare_values(1, 2)
```

This code is used in chunk 89b.

## 10.2 Extracting translations

In many cases, LADOK provides several translations. They do that in the form of this JSON structure:

```
1 {
2   "Benamning": [
3     {
4       "Sprakkod": "sv",
5       "Text": "Laborationer",
6       "link": []
7     },
8     {
9       "Sprakkod": "en",
10      "Text": "Programming Assignments",
11      "link": []
12    }
13  ]
14 }
```

We provide the function `get_translation` to get the Text based on a specified Sprakkod.

```
103b <functions 97a>+≡
def get_translation(lang_code, list_of_translations):
    for translation in list_of_translations:
        if translation["Sprakkod"] == lang_code:
            return translation["Text"]
    raise KeyError(f"no translation for language {lang_code}")
```

This code is used in chunk 89a.

## Chapter 11

# Grading scales

LADOK has various grading scales. Whenever we deal with results, we must use them and their identifiers. We provide classes that wraps LADOK's grading scales: `GradeScale` and `Grade`. We also provide a method, `get_grade_scales`, which returns a list of `GradeScale` objects.

### 11.1 The `get_grade_scales` method

We start with the method that returns the grading-scales objects. This method interacts with LADOK, so we want to cache its responses. We also want to be able to filter the responses, we do this by keyword arguments.

```
104 <LadokSession data methods 104>≡
    @cachetools.cachedmethod(
        operator.attrgetter("cache"),
        key=functools.partial(cachetools.keys.hashkey, "grade_scale"))
    def get_grade_scales(self, /, **kwargs):
        """Return a list of (un)filtered grade scales"""
        if len(kwargs) == 0:
            return [GradeScale(**scale_data)
                    for scale_data in self.grade_scales_JSON()]

        return filter_on_keys(self.get_grade_scales(), **kwargs)
```

This definition is continued in chunks 109 and 117.

This code is used in chunk 93.

The `grade_scales_JSON` method is part of the LADOK API and is documented in Section 16.1.

### 11.2 The `GradeScale` and `Grade` classes

We need a class for grade scales. This object should be read only and we never need to update it, so we can base it on `LadokData`. `kwargs` will have the following format:

```
1 {
2   "Benamning": {
3     "sv": "Engradig skala f\u00f6r deltagande",
4     "en": "One-grade scale for participation only"
```

```

5     },
6     "Beskrivning": {},
7     "Betygsgrader": [
8         {
9             "Benamning": {
10                 "sv": "Deltagit",
11                 "en": "Participated"
12             },
13             "Dolt": false,
14             "GiltigSomSlutbetyg": true,
15             "ID": "102041",
16             "Kod": "D",
17             "Ordningsnummer": 1,
18             "link": []
19         }
20     ],
21     "Dolt": true,
22     "Giltighetsperiod": {
23         "link": []
24     },
25     "ID": "102040",
26     "Kod": "DT",
27     "LarosateID": -1,
28     "link": []
29 }

```

This makes the follow class design suitable.

```

105 <classes 93>+≡
class GradeScale(LadokData):
    """A grade scale"""
    def __init__(self, /, **kwargs):
        super().__init__(**kwargs)

    if "_GradeScale__id" in kwargs:
        self.make_properties(**kwargs)
    else:
        self.__id = int(kwargs.pop("ID"))
        self.__code = kwargs.pop("Kod")
        self.__name = kwargs.pop("Benamning")["sv"]
        self.__grades = [Grade(**grade_data)
                          for grade_data in kwargs.pop("Betygsgrader")]

    @property
    def id(self):
        return self.__id

    @property
    def code(self):
        return self.__code

```



```

@property
def name(self):
    return self.__name

def grades(self, /, **kwargs):
    """Returns grades filtered on keyword"""
    return filter_on_keys(self.__grades, **kwargs)

def __contains__(self, grade):
    <test if grade is in grading scale 107a>

def __iter__(self):
    <iterate over grades in grading scale 107b>

```

This code is used in chunk 89a.

Then we need a class for the grades themselves. We construct a grade from the LADOK JSON data. We also implement easy comparison so that we can search for the string 'A' instead of the Grade object for the A grade.

```

106 <classes 93>+≡
class Grade(LadokData):
    """An individual grade part of a grade scale"""
    def __init__(self, /, **json_data):
        """Constructor taking a dictionary (JSON-like) structure"""
        if "_Grade__id" in json_data:
            self.make_properties(**json_data)
        else:
            self.__id = int(json_data.pop("ID"))
            self.__code = json_data.pop("Kod")
            self.__accepted = json_data.pop("GiltigSomSlutbetyg")

    @property
    def id(self):
        return self.__id

    @property
    def code(self):
        return self.__code

    def __str__(self):
        return self.code

    @property
    def accepted(self):
        return self.__accepted

    def __eq__(self, other):
        if isinstance(other, Grade):
            return self.__dict__ == other.__dict__
        elif isinstance(other, str):
            return self.code == other

```

```
else:
```

```
    raise NotImplementedError(f"can't test equality with {type(other)}")
```

This code is used in chunk 89a.

**Checking if a grade is in a grading scale** We can now easily implement the check if a grade is in a grading scale.

107a *<test if grade is in grading scale 107a>*≡  
 return grade in self.\_\_grades

This code is used in chunk 105.

This works even if grade is a string, thanks to how `__eq__` is implemented in the `Grade` class.

Similarly, we can iterate over the grades in the grading scale.

107b *<iterate over grades in grading scale 107b>*≡  
 return iter(self.\_\_grades)

This code is used in chunk 105.

## Chapter 12

# Students

This chapter treats how we can work with student data. We can get student data from LADOK using the `LadokSession` class. We first create the `ladok` object, an instance of a LADOK session.

```
1 import ladok3
2 import os
3
4 ladok = ladok3.LadokSession("KTH",
5                             vars={
6                                 "username": os.environ["KTH_LOGIN"],
```

This is the same as in Chapter 9.

Next we want to access data of a student. We can refer to the student by person-nummer or the unique LADOK ID.

```
8                                     },
9                                     test_environment=True) # for experiments
10
11 me = ladok.get_student("8506097891")
12 me2 = ladok.get_student("de709f81-a867-11e7-8dbf-78e86dc2470c")
13
```

This gives us objects of the `Student` class. The objects `me` and `me2` both refer to the same person, so the outputs should be the same.

We can see which course instances the student is registered on (throughout history).

```
16 print(f"{me.ladok_id} == {me2.ladok_id}")
17 print()
```

We can select a particular course and we can get the results for that course in the same way.

```
19 for course in me.courses():
20     print(f"{course.code} {course.name}")
21
22 course = me.courses(code="DD2395")[0]
23
24 print(f"{course.code} results:")
```

```

25 for result in course.results():
26     s = f"{course.code}"
27     if result.component:
28         s += f" {result.component}"
29     s += f" {result.grade}"

```

We can check if the result is attested or not. If it's not attested, we can change it.

```

32     print(s)
33 print()
34
35 student = ladok.get_student("1234561234")
36 datintro = student.courses(code="DD1301")[0]
37
38 print(f"{student.personnummer} {student.first_name} {student.last_name}")
39
40 for result in datintro.results():
41     print(f"{result.component} {result.grade} ({result.date})", end="")
42     if not result.attested:
43         print("*")
44     else:
45         print()
46
47 print("Changing grades")
48
49 try:
50     lab1 = datintro.results(component="LAB1")[0]
51     lab1.set_grade("P", "2022-11-18")

```

## 12.1 Getting students from LADOK

Perhaps the main data that we want to access is that of a student. We provide two ways to identify the student. The personal identity number (Swedish *personnummer*) and the unique LADOK identifier. These are so different in format that we can distinguish one from the other. However, we can delegate this job to the Student class.

```

109 <LadokSession data methods 104> +=
    @cachetools.cachedmethod(
        operator.attrgetter("cache"),
        key=functools.partial(cachetools.keys.hashkey, "get_student"))
    def get_student(self, id):
        """Get a student by unique ID, returns a Student object"""
        # note that self is the required LadokSession object
        return Student(ladok=self, id=id)

```

This code is used in chunk 93.

## 12.2 The Student class

We can create a Student object from an identifier and a LadokSession object. Then the Student object can fetch data from LADOK and update any changes.

We can determine if an identifier is a personnummer or LADOK ID. Based on either of those unique identifiers we can fetch the rest of the data using the LADOK session `self.ladok`.

110a *<classes 93>+≡*

```
class Student(LadokRemoteData):
    """Class representing a student and related data"""
    def __init__(self, /, **kwargs):
        """Requires ladok (a LadokSession object),
        id (either a personnummer or LADOK ID)"""
        super().__init__(**kwargs)
        id = kwargs.pop("id")
        self._personnummer = format_personnummer(id)
        if not self._personnummer:
            self._ladok_id = id
        else:
            self._ladok_id = None

    def pull(self):
        """pull student data from LADOK"""
        <pull all attributes from LADOK 112a>
```

*<student attribute methods 111>*

This code is used in chunk 89a.

We use the function `format_personnummer` to format a personnummer according to LADOK's requirements. This function returns `None` if it's not a personnummer, in which case we assume that it is a LADOK ID in the code above.

110b *<functions 97a>+≡*

```
def format_personnummer(person_nr_raw):
    """Returns None or a LADOK-formated person nr"""
    pnrregex = re.compile(r"^(\d\d)?(\d\d)(\d\d\d\d)[+|-]?(\w\w\w\w)$")
    pnr = pnrregex.match(person_nr_raw)
    if pnr:
        now = datetime.datetime.now()
        if pnr.group(1) == None: # first digits 19 or 20 missing
            if now.year - 2000 >= int(pnr.group(2)) + 5: # must be > 5 years old
                return "20" + pnr.group(2) + pnr.group(3) + pnr.group(4)
            else:
                return "19" + pnr.group(2) + pnr.group(3) + pnr.group(4)
        else:
            return pnr.group(1) + pnr.group(2) + pnr.group(3) + pnr.group(4)
    else:
        return None
```

This code is used in chunk 89a.

Note that we must match the start and end in the regex, otherwise we sometimes match parts of LADOK IDs as personnummer.

### 12.3 Students' personal attributes

The student's personal attributes are the following. We use the helper method `__get_personal_attributes` which pulls all personal attributes, since LADOK returns all of these in one call.

```
111 <student attribute methods 111>≡
def __get_personal_attributes(self):
    """Helper method that fetches personal attributes"""
    <pull student attributes from LADOK 112b>

@property
def ladok_id(self):
    """Return the student's LADOK ID"""
    try:
        if self.__ladok_id:
            return self.__ladok_id
    except:
        pass
    self.__get_personal_attributes()
    return self.__ladok_id

@property
def personnummer(self):
    """Return the student's personnummer"""
    try:
        if self.__personnummer:
            return self.__personnummer
    except:
        pass
    self.__get_personal_attributes()
    return self.__personnummer

@property
def first_name(self):
    """Return the student's first name"""
    try:
        return self.__first_name
    except:
        self.__get_personal_attributes()
        return self.__first_name

@property
def last_name(self):
    """Return the student's last name"""
    try:
        return self.__last_name
    except:
        self.__get_personal_attributes()
        return self.__last_name

def __str__(self):
```

```
    return f"{self.personnummer} {self.first_name} {self.last_name}"
```

```
@property
def alive(self):
    """Return whether student is alive or not"""
    try:
        return self.__alive
    except:
        self.__get_personal_attributes()
        return self.__alive
```

*<student contact attribute methods 112c>*

This definition is continued in chunks 114 and 116.

This code is used in chunk 110a.

Then we can call that method to update all attributes.

112a *<pull all attributes from LADOK 112a>*≡

```
self.__get_personal_attributes()
```

This definition is continued in chunk 115a.

This code is used in chunk 110a.

When we pull the student attributes from LADOK, we can use either of the two IDs: `self.personnummer` and `self.ladok_id`. (However, we avoid using the properties above in this code, since we don't want to recursively trigger the fetch ad absurdum.) Depending on which attribute is set, we pull the data differently.

112b *<pull student attributes from LADOK 112b>*≡

```
if self.__ladok_id:
    record = self.ladok.get_student_data_by_uid_JSON(self.__ladok_id)
elif self.__personnummer:
    record = self.ladok.get_student_data_JSON(self.__personnummer)
else:
    raise AttributeError("neither personnummer, nor LADOK ID set")

self.__ladok_id = record['Uid']
self.__personnummer = record['Personnummer'] # twelve digits only
self.__first_name = record['Fornamn']
self.__last_name = record['Efternamn']
self.__alive = not record['Avliden']
```

This code is used in chunk 111.

## 12.4 Students' contact attributes

The contact attributes include email, phone number, and postal address information. We use the `__get_contact_attributes` helper method to populate these attributes from a separate LADOK API call.

112c *<student contact attribute methods 112c>*≡

```
@property
def email(self):
    """Return the student's email address"""
    try:
```

```

        return self.__email
    except:
        self.__get_contact_attributes()
    return self.__email

@property
def phone(self):
    """Return the student's phone number"""
    try:
        return self.__phone
    except:
        self.__get_contact_attributes()
    return self.__phone

@property
def address(self):
    """Return the student's postal address as a list of lines"""
    try:
        return self.__address
    except:
        self.__get_contact_attributes()
    return self.__address

def __get_contact_attributes(self):
    """Helper method that fetches contact attributes"""
    <pull student contact attributes from LADOK 113>

```

This code is used in chunks 111 and 114a.

```

113 <pull student contact attributes from LADOK 113>≡
    try:
        contact_data = self.ladok.get_student_contact_data_JSON(self.ladok_id)

        # Extract email address
        self.__email = None
        if 'Epost' in contact_data and contact_data['Epost']:
            for email in contact_data['Epost']:
                if 'Adress' in email:
                    self.__email = email['Adress']
                break

        # Extract phone number
        self.__phone = None
        if 'Telefon' in contact_data and contact_data['Telefon']:
            for phone in contact_data['Telefon']:
                if 'Nummer' in phone:
                    self.__phone = phone['Nummer']
                break

        # Extract postal address
        self.__address = []

```



```

if 'Postadress' in contact_data and contact_data['Postadress']:
    addr = contact_data['Postadress']
    if isinstance(addr, list) and len(addr) > 0:
        addr = addr[0]
    if isinstance(addr, dict):
        for field in ['Adressrad1', 'Adressrad2', 'Adressrad3']:
            if field in addr and addr[field]:
                self.__address.append(addr[field])
    if 'Postnummer' in addr and addr['Postnummer'] and 'Postort' in addr and addr['Postort']:
        self.__address.append(f"{addr['Postnummer']} {addr['Postort']}")

except Exception:
    # If contact data can't be retrieved, set default empty values
    self.__email = None
    self.__phone = None
    self.__address = []

```

This code is used in chunk 112c.

114a *<student attribute methods 111>+≡*  
*<student contact attribute methods 112c>*

This code is used in chunk 110a.

## 12.5 Students' study-related attributes

The study related attributes are courses and course results. Similarly to above, we use the `__get_study_attributes` helper method to populate all study-related attributes that LADOK returns in one request.

114b *<student attribute methods 111>+≡*

```

def __get_study_attributes(self):
    """Helper method to fetch study related attributes"""
    <create a list of the student's course objects 115b>

def courses(self, /, **kwargs):
    """
    Returns a list of courses that the student is registered on.
    Filtered based on keywords, see ladok3.filter_on_keys for details.
    """
    try:
        courses = self.__courses
    except:
        self.__get_study_attributes()
        courses = self.__courses

    return filter_on_keys(courses, **kwargs)

```

This code is used in chunk 110a.

Then we can call the last method when we want to pull all attributes too (using the pull method).

115a `<pull all attributes from LADOK 112a>+≡`  
`self.__get_study_attributes()`

This code is used in chunk 110a.

To create a list of the student's course registrations, we use the `registrations_JSON` API method.

115b `<create a list of the student's course objects 115b>≡`  
`self.__courses = []`  
  
`for course in self.ladok.registrations_JSON(self.ladok_id):`  
 `if not course['Nuvarande'] or \`  
 `'Utbildningskod' not in course['Utbildningsinformation']:`  
 `continue`  
  
`self.__courses.append(CourseRegistration(`  
 `ladok=self.ladok,`  
 `student=self,`  
 `**course["Utbildningsinformation"]))`

This code is used in chunk 114b.

## 12.6 Is the student suspended?

We also want to know if a student is suspended or not. We can get a list of suspensions for a student. This list looks like this:

```
1  [
2      {"Anteckning": "VJ-2024-...",
3       "Giltighetsperiod": {"Slutdatum": "2024-12-03",
4                            "Startdatum": "2024-09-25", "link": []},
5       "LarosateID": 29,
6       "OrsakID": 101450,
7       "SenastAndradAv": "someone@kth.se",
8       "SenastSparad": "2024-09-24T16:45:56.941",
9       "StudentUID": "...",
10      "Uid": "...",
11      "link": [{"method": "GET",
12                  "uri": "https://api.ladok.se:443/studentinformation/internal/avstangning/...",
13                  "mediaType": "application/vnd.ladok+xml",
14                  "rel": "self"}]}
15  ]
16  ]
```

Let's make a class for this.

115c `<classes 93>+≡`  
`class Suspension(LadokData):`  
 `"""A suspension"""`  
 `def __init__(self, /, **kwargs):`  
 `super().__init__(**kwargs)`

```

self.__note = kwargs.pop("Anteckning")
self.__validity = (
    datetime.date.fromisoformat(kwargs["Giltighetsperiod"]["Startdatum"]),
    datetime.date.fromisoformat(kwargs["Giltighetsperiod"]["Slutdatum"])
)

@property
def note(self):
    """
    The note of the suspension. This is usually a case number.
    """
    return self.__note

@property
def validity(self):
    """
    A tuple (start, end) of the validity period of the suspension.
    """
    return self.__validity

@property
def is_current(self):
    """
    Is True if the suspension is currently valid.
    """
    return self.validity[0] <= datetime.date.today() <= self.validity[1]

def __str__(self):
    return f"{self.validity[0]}--{self.validity[1]}"

```

This code is used in chunk 89a.

We never cache this result since we always want the most up-to-date version.

116 <student attribute methods 111>+≡

```

@property
def suspensions(self):
    """
    The list of the students' suspensions.
    """
    suspensions = self.ladok.get_student_suspensions_JSON(
        self.ladok_id) ["Avstangning"]
    return [Suspension(**suspension) for suspension in suspensions]

```

This code is used in chunk 110a.

## Chapter 13

# Courses

We can use the course-related classes as follows.

```
1  #!/usr/bin/python3
2  # -*- coding: utf-8 -*-
3  # -*- mode: python; python-indent-offset: 4 -*-
4  import ladok3
5  import os
6
7  ladok = ladok3.LadokSession("KTH",
8                               vars={"username": os.environ["KTH_LOGIN"],
9                                       "password": os.environ["KTH_PASSWD"]},
10                               test_environment=True) # for experiments
11
12  course_rounds = ladok.search_course_rounds(code="DD1315")
13
14  for course_round in course_rounds:
15      print(f"{course_round.code} {course_round.start}--{course_round.end}")
16  print()
17
18  course_round = course_rounds[0]
19  print(f"{course_round.code} {course_round.start}--{course_round.end}")
20  print(f"round: {course_round.round_id}")
21  print(f"round code: {course_round.round_code}")
22  print(f"instance: {course_round.instance_id}")
23  print(f"education: {course_round.education_id}")
24  print(f"{course_round.code} components:")
25  for component in course_round.components():
26      print(f"{component.code}: {component.instance_id}")
```

### 13.1 Course rounds

We can search for courses like this. The result consists of a list of CourseRound objects.

```
117 <LadokSession data methods 104>+≡
    @cachetools.cachedmethod(
        operator.attrgetter("cache"),
        key=functools.partial(cachetools.keys.hashkey, "search_courses"))
```

```
def search_course_rounds(self, /, **kwargs):
    """Query LADOK about course rounds, possible keys:
    code, round_code, name
    """
    results = self.search_course_rounds_JSON(**kwargs)
    return [CourseRound(ladok=self, **result) for result in results]
```

This code is used in chunk 93.

The response consists of this JSON data:

```
1 {
2   "FinansieringsformID": 101050,
3   "Slutdatum": "2027-01-11",
4   "Startdatum": "2026-08-24",
5   "StudielokaliseringID": 135195,
6   "StudietaktID": 6,
7   "TillfallesKod": "10768",
8   "UId": "9731dce7-c60c-11f0-9aa4-4a24d5f444fb",
9   "UndervisningsformID": 1,
10  "Utbildningsinstans": {
11    "Avvecklad": false,
12    "Benamning": [
13      {
14        "Sprakkod": "sv",
15        "Text": "Programmeringsteknik"
16      },
17      {
18        "Sprakkod": "en",
19        "Text": "Programming Techniques"
20      }
21    ],
22    "Enhet": "HP",
23    "GallerUtbildningUtanAngivenOmfattning": false,
24    "Omfattning": 7.5,
25    "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
26    "ResultatPaKursVidAttesteringAvModul": false,
27    "UId": "70d5fdb1-2db7-11ec-bb06-8c8c04c8482a",
28    "UtbildningUID": "70d5fdb9-2db7-11ec-bb06-8c8c04c8482a",
29    "Utbildningskod": "DD1317",
30    "Versionsnummer": 1
31  }
32 }
```

We have two classes that are relevant here, `CourseInstance` and `CourseRound`. The `CourseInstance` corresponds to the data in `Utbildningsinstans` above. And the `CourseRound` is the data ‘wrapping around’ that of the `CourseInstance`. Thus, we will make `CourseRound` a specialization of `CourseInstance`. This makes sense as it contains additional data, such as start and end date. This class takes care of those and then defers the rest to the `CourseInstance` class (by calling its constructor).

```
118 <classes 93>+≡
    class CourseInstance(LadokRemoteData):
        """Represents a course instance. Must be constructed from at least
```

```

ladok (a LadokSession object),
UtbildningsinstansUID (an instance_id from LADOK),
optionally a data dictionary from LADOK"""
<CourseInstance methods 120a>

```

```

class CourseRound(CourseInstance):
    """Represents a course round"""
    def __init__(self, /, **kwargs):
        """
        Must be constructed from at least:
        Uid, TillfallesKod, Startdatum, Slutdatum
        """
        self.__round_id = kwargs.pop("Uid")
        self.__round_code = kwargs.pop("TillfallesKod")

        self.__start = datetime.date.fromisoformat(kwargs.pop("Startdatum"))
        self.__end = datetime.date.fromisoformat(kwargs.pop("Slutdatum"))

```

*<prepare kwargs and call CourseInstance constructor 119>*

```

@property
def round_id(self):
    return self.__round_id

@property
def round_code(self):
    return self.__round_code

@property
def start(self):
    return self.__start

@property
def end(self):
    return self.__end

```

*<CourseRound data methods 126>*

This code is used in chunk 89a.

The CourseInstance constructor expects only the Utbildningsinstans part of the data. However, the Uid should be renamed UtbildningsinstansUID. We must also pass on the ladok object.

```

119 <prepare kwargs and call CourseInstance constructor 119>≡
    instance_data = kwargs.pop("Utbildningsinstans")
    instance_data["UtbildningsinstansUID"] = instance_data.pop("Uid")
    super().__init__(ladok=kwargs.pop("ladok"), **instance_data)

```

This code is used in chunk 118.

## 13.2 Course instances

We have the course instance as the base class. This is essentially an ‘instance of a course syllabus’. We know from above that it inherits from `LadokRemoteData` and that it must be initialized with the keywords `ladok` (for its parent) and `UtbildningsinstansUID` (for itself) and optionally some data.

120a *<CourseInstance methods 120a>*≡

```
def __init__(self, /, **kwargs):
    self.__instance_id = kwargs.pop("UtbildningsinstansUID")
    super().__init__(**kwargs) # sets self.ladok
```

*<CourseInstance constructor body 122a>*

This definition is continued in chunks 122b and 123d.

This code is used in chunk 118.

We can fetch the data from LADOK as follows. Note that we need to use the `round_id` from the `CourseRound` object. This works since we never have a `CourseInstance` object on its own, it's always parent of a `CourseRound` object. (And that makes this kind of ugly from an OOP perspective.)

120b *<fetch CourseInstance data from LADOK 120b>*≡

```
data = self.ladok.course_round_components_JSON(self.round_id)
```

This code is used in chunk 122b.

Then data will be populated with the following values:

```
1 {
2   "AntalRegistrerade": 0,
3   "Benamning": {
4     "sv": "Programmeringsteknik och Matlab",
5     "en": "Programming Techniques and Matlab"
6   },
7   "BetygsskalaID": 131657,
8   "Enhet": "HP",
9   "GallerUtbildningUtanAngivenOmfattning": false,
10  "IngaendeMoment": [
11    {
12      "Benamning": {
13        "sv": "Laborationer",
14        "en": "Programming Assignments"
15      },
16      "BetygsskalaID": 131656,
17      "Enhet": "HP",
18      "GallerUtbildningUtanAngivenOmfattning": false,
19      "KravPaProjekttitel": false,
20      "Omfattning": 1.5,
21      "ResultatrapporteringMojlig": true,
22      "UtbildningUID": "38a66848-73d8-11e8-afa7-8e408e694e54",
23      "UtbildningsinstansUID": "38a6416f-73d8-11e8-b4e0-063f9afb40e3",
24      "Utbildningskod": "LAB1"
25    },
26    {
27      "Benamning": {
```

```

28     "sv": "Laborationer",
29     "en": "Programming Assignments"
30 },
31 "BetygsskalaID": 131656,
32 "Enhet": "HP",
33 "GallerUtbildningUtanAngivenOmfattning": false,
34 "KravPaProjekttitel": false,
35 "Omfattning": 1.5,
36 "ResultatrapporteringMojlig": true,
37 "UtbildningUID": "38a1d44d-73d8-11e8-afa7-8e408e694e54",
38 "UtbildningsinstansUID": "38a1867d-73d8-11e8-b4e0-063f9afb40e3",
39 "Utbildningskod": "LAB2"
40 },
41 {
42     "Benamning": {
43         "sv": "Laborationer",
44         "en": "Programming Assignments"
45     },
46     "BetygsskalaID": 131657,
47     "Enhet": "HP",
48     "GallerUtbildningUtanAngivenOmfattning": false,
49     "KravPaProjekttitel": false,
50     "Omfattning": 3.0,
51     "ResultatrapporteringMojlig": true,
52     "UtbildningUID": "389b1e62-73d8-11e8-afa7-8e408e694e54",
53     "UtbildningsinstansUID": "389b1dda-73d8-11e8-b4e0-063f9afb40e3",
54     "Utbildningskod": "LAB3"
55 },
56 {
57     "Benamning": {
58         "sv": "Laborationer",
59         "en": "Programming Assignments"
60     },
61     "BetygsskalaID": 131656,
62     "Enhet": "HP",
63     "GallerUtbildningUtanAngivenOmfattning": false,
64     "KravPaProjekttitel": false,
65     "Omfattning": 1.5,
66     "ResultatrapporteringMojlig": true,
67     "UtbildningUID": "387c99a9-73d8-11e8-afa7-8e408e694e54",
68     "UtbildningsinstansUID": "387c7248-73d8-11e8-b4e0-063f9afb40e3",
69     "Utbildningskod": "MAT1"
70 }
71 ],
72 "KravPaProjekttitel": false,
73 "Kurstillfalleskod": "51872",
74 "Omfattning": 7.5,
75 "ResultatrapporteringMojlig": true,
76 "Slutdatum": "2022-01-17 ",
77 "Startdatum": "2021-08-30 ",
78 "Studietaktsbenamning": {

```



```

79     "sv": "Kvartsfart",
80     "en": "One-quarter-time"
81 },
82     "Takt": 25,
83     "Undervisningsformbenamning": {
84         "sv": "Normal",
85         "en": "Normal teaching"
86     },
87     "UtbildningUID": "38ab2393-73d8-11e8-afa7-8e408e694e54",
88     "UtbildningsinstansUID": "9f30cc02-d6b5-11e8-8fd5-cf9d2c5c41ba",
89     "Utbildningskod": "DD1315",
90     "Versionsnummer": 2
91 }

```

Now that we have all data in `data`, we can assign its values to the private attributes. We note, however, that some course instances lack both `Versionsnummer` and `Omfattning`. It seems like faux courses are created to document when students go on Exchanges. These faux courses have a name and code, but no credits or version of syllabus. Consequently they don't have any grading scales either.

Our approach will be to try to assign the attributes using `kwargs`, and if that fails, we will fetch the data (pull from LADOK). If that pull fails with missing data, then we will assume that it's one of these faux courses.

122a *<CourseInstance constructor body 122a>≡*

```

try:
    self.__assign_attr(kwargs)
except:
    self.__pull_attributes()

```

This code is used in chunk 120a.

122b *<CourseInstance methods 120a>+=*

```

def __assign_attr(self, data):
    <assign CourseInstance data to private attributes 123b>

```

```

def __pull_attributes(self):
    <fetch CourseInstance data from LADOK 120b>
    try:
        self.__assign_attr(data)
    except:
        self.__assign_faux(data)

```

```

def pull(self):
    self.__pull_attributes()

```

```

def __assign_faux(self, data):
    <assign faux CourseInstance data to private attributes 123c>

```

This code is used in chunk 118.

By trial-and-error, it seems like the faux courses has none of the attributes that the real courses have. However, we try our best.

**123a** *<assign common CourseInstance data to private attributes 123a>≡*  
`self.__components = []`  
*<add course components to self.\_\_components 124a>*

This code is used in chunk **123**.

**123b** *<assign CourseInstance data to private attributes 123b>≡*  
*<assign common CourseInstance data to private attributes 123a>*

```
self.__name = data.pop("Benamning")
self.__code = data.pop("Utbildningskod")

self.__credits = data.pop("Omfattning")
self.__unit = data.pop("Enhet")

self.__version = data.pop("Versionsnummer")

self.__education_id = data.pop("UtbildningUID")

self.__grade_scale = self.ladok.get_grade_scales(
    id=data.pop("BetygsskalaID"))
```

This code is used in chunk **122b**.

**123c** *<assign faux CourseInstance data to private attributes 123c>≡*  
*<assign common CourseInstance data to private attributes 123a>*

```
self.__name = data.pop("Benamning", None)
self.__code = data.pop("Utbildningskod", None)

self.__credits = data.pop("Omfattning", None)
self.__unit = data.pop("Enhet", None)

self.__version = data.pop("Versionsnummer", None)

self.__education_id = data.pop("UtbildningUID", None)

try:
    self.__grade_scale = self.ladok.get_grade_scales(
        id=data.pop("BetygsskalaID"))
except KeyError:
    self.__grade_scale = None
```

This code is used in chunk **122b**.

Finally, we want to have properties to access the private attributes.

**123d** *<CourseInstance methods 120a>+≡*  
`@property`  
`def instance_id(self):`  
 `return self.__instance_id`  
`@property`

```

def education_id(self):
    return self.__education_id

@property
def code(self):
    return self.__code

@property
def name(self):
    return self.__name["en"]

@property
def version(self):
    return self.__version

@property
def grade_scale(self):
    return self.__grade_scale

@property
def credits(self):
    return self.__credits

@property
def unit(self):
    return self.__unit

def components(self, /, **kwargs):
    """Returns the list of components, filtered on keywords"""
    return filter_on_keys(self.__components, **kwargs)

```

This code is used in chunk 118.

### 13.2.1 Course components

We need to add the courses components to the course instance. That is things like LAB1 or EXA1 that make up the course in LADOK.

```

124a <add course components to self.__components 124a>≡
    if "IngaendeMoment" in data:
        self.__components += [CourseComponent(
            ladok=self.ladok, course=self,
            **component) for component in data["IngaendeMoment"]]

```

This definition is continued in chunk 124b.

This code is used in chunk 123a.

We also add the course itself as a component. This is to handle the grade on the course itself. Once all the components have a grade, the course itself will get a grade. This component represents that grade. It will get the course code as its code.

```

124b <add course components to self.__components 124a>+=
    try:
        course_component_data = data.copy()

```

```

course_component_data["ladok"] = self.ladok
self.__components.append(CourseComponent(course=self,
                                         **course_component_data))

except KeyError:
    pass

```

This code is used in chunk 123a.

### 13.3 Course components

The CourseComponent class will make the attributes available. We specify the most interesting ones and let the LadokData constructor turn the rest into properties as well, so that they are available for the curious.

Turns out that some course components don't have any credits. This is probably a consequence of being a component in a course with no credits, e.g., one of those faux courses to register exchange studies.

```

125 <classes 93>+=
class CourseComponent(LadokData):
    """Represents a course component of a course registration"""
    def __init__(self, /, **kwargs):
        super().__init__(**kwargs)

        self.__course = kwargs.pop("course")

        if "UtbildningsinstansUID" in kwargs:
            self.__instance_id = kwargs.pop("UtbildningsinstansUID")
        else:
            self.__instance_id = kwargs.pop("Uid")

        self.__education_id = kwargs.pop("UtbildningUID")

        self.__code = kwargs.pop("Utbildningskod")
        description = kwargs.pop("Benamning")
        if isinstance(description, dict):
            self.__description = description["sv"]
        else:
            self.__description = description

        self.__credits = kwargs.pop("Omfattning", None)
        self.__unit = kwargs.pop("Enhet", None)

        ladok = kwargs.pop("ladok")
        grade_scale_id = kwargs.pop("BetygsskalaID")
        self.__grade_scale = ladok.get_grade_scales(id=grade_scale_id)[0]

    @property
    def course(self):
        return self.__course

    @property

```

```

def instance_id(self):
    return self.__instance_id

@property
def education_id(self):
    return self.__education_id

@property
def code(self):
    """Returns the name of the component (as in syllabus)"""
    return self.__code

@property
def description(self):
    """Returns description of component (as in syllabus)"""
    return self.__description

@property
def unit(self):
    """Returns the unit for the credits"""
    return self.__unit

@property
def credits(self):
    """Returns the number of credits"""
    return self.__credits

@property
def grade_scale(self):
    return self.__grade_scale

def __str__(self):
    return self.code

def __eq__(self, other):
    if isinstance(other, str):
        return self.code == other
    return self.__dict__ == other.__dict__

```

This code is used in chunk [89a](#).

We have the latter method, `__eq__`, so that we can filter on keys and compare with strings.

### 13.4 Results for a course round

We can access the results of all the students during a course round. We do this through the method `results`, which takes keyword arguments to possibly filter the results.

**126** `<CourseRound data methods 126>≡`  
`def results(self, /, **kwargs):`

```

    """Returns all students' results on the course"""
    try:
        self.__results
    except:
        self.__fetch_results()

    return filter_on_keys(self.__results, **kwargs)

```

This definition is continued in chunk 127.

This code is used in chunk 118.

To fetch the results from LADOK, we must do the following query.

127a `<CourseRound data methods 126>+≡`

```

def __fetch_results(self):
    raise NotImplementedError(
        f"{type(self).__name__}.__fetch_results not implemented")

```

This code is used in chunk 118.

### 13.5 Participants for a course round

We want to get a list of participants for a course round, i.e., a list of Student objects.

127b `<CourseRound data methods 126>+≡`

```

def participants(self, /, **kwargs):
    """Returns a Student object for each participant in the course."""
    try:
        self.__participants
    except:
        self.__fetch_participants()

    return filter_on_keys(self.__participants, **kwargs)

```

This code is used in chunk 118.

When we fetch the participants, we don't create new Student objects. We use the `get_student` method of the LADOK session object to fetch objects from the cache if they already exist.

127c `<CourseRound data methods 126>+≡`

```

def __fetch_participants(self):
    self.__participants = []
    for student in self.ladok.participants_JSON(self.round_id):
        self.__participants.append(
            self.ladok.get_student(student["Student"]["Uid"]))

```

This code is used in chunk 118.

## Chapter 14

# Course objects related to students

### 14.1 Course registrations and a student's results

Students register for a course. The `CourseRegistration` class represents this data from LADOK. This is the object that must be used to get results for a student. This object keeps more info than the course instance.

We note that some registrations lack the 'Utbildningstillfalleskod' attribute. This happens on 'custom courses' like Erasmus exchanges. If that's the case, we use the value `None` in its place.

128

```
<classes 93>+≡
class CourseRegistration(CourseInstance):
    """Represents a student's participation in a course instance"""
    def __init__(self, /, **kwargs):
        self.__student = kwargs.pop("student")

        # ett Ladok-ID för kursomgången
        self.__round_id = kwargs.pop("UtbildningstillfalleUID")
        self.__round_code = kwargs.pop("Utbildningstillfalleskod", None)

        dates = kwargs.pop("Studieperiod")
        self.__start = datetime.date.fromisoformat(dates["Startdatum"])
        self.__end = datetime.date.fromisoformat(dates["Slutdatum"])

        super().__init__(**kwargs)

    @property
    def round_id(self):
        """Returns LADOK ID for the course round (kursomgång)"""
        return self.__round_id

    @property
    def round_code(self):
        """Returns the human-readable round code (tillfälleskod)"""
        return self.__round_code

    @property
```

```

def start(self):
    return self.__start

@property
def end(self):
    return self.__end

def __str__(self):
    return f"{self.code} {self.round_code or ''} ({self.start}--{self.end})"

def __repr__(self):
    return f"{self.code}:{self.round_code or ''}:{self.start}--{self.end}"

def results(self, /, **kwargs):
    """Returns the student's results on the course, filtered on keywords"""
    try:
        return filter_on_keys(self.__results, **kwargs)
    except:
        self.__fill_results()
        return filter_on_keys(self.__results, **kwargs)

def __fill_results(self):
    """Helper method to fetch results from LADOK"""
    <pull existing CourseResult objects from LADOK 129>
    <add new CourseResult objects for missing components 130b>

def push(self):
    """Pushes any new results"""
    for result in self.results():
        result.push()

```

This code is used in chunk 89a.

We can pull these from LADOK as well. We construct `CourseResult` objects using a `CourseRegistration` object. From the response we get from LADOK, we construct `CourseResult` objects that deal with the details. Some entries contain only component metadata and no recorded result yet. Those must be skipped so the later <add new `CourseResult` objects for missing components 130b> step can create the expected empty placeholder. But once LADOK includes `ResultatPaUtbildning`, we do have an existing result. If that payload is malformed, we must fail loudly here rather than pretending the result is missing and later trying to create a duplicate. (It's a bit unclear why `Kursversioner` is a list, so far it has always worked to take the first.)

```

129 <pull existing CourseResult objects from LADOK 129>≡
    response = self.ladok.student_results_JSON(
        self.__student.ladok_id, self.education_id
    )["Kursversioner"][0]

    self.__results = []

    for result in response["VersionensModuler"]:
        if "ResultatPaUtbildning" not in result:

```



```

        continue
    try:
        self.__results.append(CourseResult(ladok=self.ladok,
                                           components=self.components(),
                                           student=self.__student,
                                           **result))
    except (TypeError, KeyError, IndexError) as err:
        raise LadokError(f"couldn't parse existing module result: {result}") \
            from err

```

This definition is continued in chunk 130a.

This code is used in chunk 128.

As with the components, the course grade itself is a special case. That data is not in `VersionensModuler`, but in `VersionensKurs`. But we can do the same with it, just as we could with the components. (And this works since it's a component in `self.components()`.)

130a *<pull existing CourseResult objects from LADOK 129>+≡*

```

    if "ResultatPaUtbildning" in response["VersionensKurs"]:
        try:
            self.__results.append(CourseResult(ladok=self.ladok,
                                               components=self.components(),
                                               student=self.__student,
                                               **response["VersionensKurs"]))
        except (TypeError, KeyError, IndexError) as err:
            raise LadokError(
                "couldn't parse existing course result: "
                f"{response['VersionensKurs']}") from err

```

This code is used in chunk 128.

Now we can see which components from `self.components` are missing from `self.__results` and just add empty results for those.

130b *<add new CourseResult objects for missing components 130b>≡*

```

    for component in self.components():
        if not list(filter_on_keys(self.__results, component=component.code)):
            self.__results.append(
                CourseResult(
                    ladok=self.ladok,
                    component=component,
                    student=self.__student))

```

This code is used in chunk 128.

## 14.2 Course results

The `CourseResult` objects have the following form. We have two cases: the result exists in LADOK and the result doesn't exist in LADOK. The difference is in how results are pushed to LADOK, i.e., the implementation of the push method.

130c *<classes 93>+≡*

```

class CourseResult(LadokRemoteData):
    """Represents a result on a course module"""
    def __init__(self, /, **kwargs):

```

```

        """To construct this object we must give existing data, i.e.
        Arbetsunderlag or SenastAttesteradeResultat directly from LADOK."""
        super().__init__(**kwargs)

        self.__student = kwargs.pop("student")

        self.__attested = False
        self.__finalized = False
        if "component" in kwargs:
            self.__component = kwargs.pop("component")
            self.__populate_attributes()
        elif "components" in kwargs and "ResultatPaUtbildning" in kwargs:
            components = kwargs.pop("components")

            results = kwargs.pop("ResultatPaUtbildning")

            data, attested = self.__choose_result_data(results, fallback=kwargs)

            self.__attested = attested
            self.__finalized = attested
            self.__populate_attributes(**data, components=components)
        else:
            raise TypeError("not enough keys given to construct object")

    def __populate_attributes(self, /, **data):
        if not data:
            <populate CourseResult attributes for empty result 134a>
        else:
            <populate CourseResult attributes from data 133b>

    def __choose_result_data(self, results, fallback=None):
        <return definitive CourseResult data 133a>

    def __pull_result_data(self):
        <fetch current CourseResult data from LADOK 134b>

    @property
    def component(self):
        """Returns the component the results is for"""
        return self.__component

    @property
    def grade_scale(self):
        """Returns the grade scale for the component"""
        return self.__grade_scale

    @property
    def grade(self):
        """Returns the grade set for the component"""
        return self.__grade

```

```

def set_grade(self, grade, date):
    """Sets a new grade and date for the component"""
    if self.attested:
        raise AttributeError("can't change already attested grade")
    if self.finalized:
        raise AttributeError("can't change finalized grade without "
                             "un-finalizing first")

    <set the grade for CourseResult 143a>

    self.__modified = True
    self.push()

def finalize(self, graders=[], notify=False):
    """Finalizes the set grade"""
    if self.modified:
        self.push()

    <finalize the grade for CourseResult 144b>

@property
def modified(self):
    """Returns True if there are unpushed changes"""
    return self.__modified

@property
def date(self):
    """Returns the date of the grade"""
    return self.__date

@property
def attested(self):
    """Returns True if the grade has been attested in LADOK"""
    return self.__attested

@property
def finalized(self):
    """Returns True if the grade has been finalized (klarmarkerad) in LADOK"""
    try:
        return self.__finalized
    except AttributeError: # can occur with an old cache
        return self.__attested

def __str__(self):
    return f"{self.component} {self.grade} " \
           f"{self.date}{'*' if not self.attested else ''}"

def pull(self):
    """Refresh the result from LADOK."""

```

```

data, attested = self.__pull_result_data()
<replace CourseResult attributes transactionally 135>

def push(self):
    if self.__uid:
        <push the existing CourseResult grade data to LADOK 143b>
    else:
        <push the new CourseResult grade data to LADOK 144a>
    self.__modified = False

```

This code is used in chunk 89a.

If we get the data from LADOK, then we can fill in all the attributes. We also need to check if the result has been finalized (klarmarkerad). LADOK uses ProcessStatus to indicate the state of a result:

- 1 Draft (Utkast) — can be modified and finalized.
- 2 Finalized (Klarmarkerad) — ready for examiner attestation, cannot be finalized again.

An attested result has no ProcessStatus since it's stored in SenastAttesteradeResultat rather than Arbetsunderlag. Sometimes LADOK returns both Arbetsunderlag and SenastAttesteradeResultat for the same result. The attested result is the definitive state in LADOK, while the work copy only describes a later attempt to change it. We therefore prefer SenastAttesteradeResultat whenever it is present. Some construction paths still carry the definitive fields on the surrounding wrapper, so the constructor may fall back to that payload. A fresh LADOK response, however, should always contain one of the nested entries; if it does not, we fail loudly instead of guessing.

```

133a <return definitive CourseResult data 133a>≡
    if "SenastAttesteradeResultat" in results:
        return results["SenastAttesteradeResultat"], True
    if "Arbetsunderlag" in results:
        return results["Arbetsunderlag"], False
    if fallback is not None:
        return fallback, False
    raise KeyError("missing definitive result data")

```

This code is used in chunk 130c.

```

133b <populate CourseResult attributes from data 133b>≡
    self.__uid = data.pop("Uid", None)
    self.__instance_id = data.pop("UtbildningsinstansUID")
    self.__results_id = data.pop("ResultatUID", None)
    self.__study_results_id = data.pop("StudieresultatUID", None)

    process_status = data.pop("ProcessStatus", None)
    if process_status == 2:
        self.__finalized = True

    try:
        grade = data.pop("Betygsgrad", None)
        grade_scale_id = data.pop("BetygsskalaID")

```

```

except KeyError:
    grade_scale_id = int(data["Betygsskala"] ["ID"])

self.__date = data.pop("Examinationsdatum", None)
self.__grade_scale = self.ladok.get_grade_scales(id=grade_scale_id) [0]
if grade:
    self.__grade = self.__grade_scale.grades(id=grade) [0]
else:
    self.__grade = None

if "components" in data:
    components = data.pop("components")
    component_list = filter_on_keys(components, instance_id=self.__instance_id)
    self.__component = component_list[0] if component_list \
        else None

self.__last_modified = data.pop("SenasteResultatandring", None)
self.__modified = False

```

This code is used in chunk 130c.

However, if this is a completely new result, it doesn't exist in LADOK. Then we lack quite a few of the attributes. A new result is neither finalized nor attested.

134a

```

<populate CourseResult attributes for empty result 134a>≡
self.__uid = None
self.__instance_id = self.__component.instance_id

self.__date = None
self.__grade_scale = self.__component.grade_scale
self.__grade = None

self.__finalized = False
self.__modified = False
self.__last_modified = None

```

This code is used in chunk 130c.

Because a refresh can fail, `pull()` must not clear the cached state until LADOK has returned a replacement payload. We therefore parse the response first and only then repopulate the object. To refresh just one result, we do not need to rebuild the entire student or course object graph. Instead, we ask LADOK for the current result payload for the surrounding course and then extract the entry for this component. The wrapper objects in `VersionensModuler` and `VersionensKurs` do not always repeat the component identifier in a stable place, but the definitive result payload does. We therefore choose that nested payload first and match on its `UtbildningsinstansUID`. That keeps the retry path in `report.set_grade` narrowly scoped to the result whose cached attestation might be stale. If LADOK no longer returns any entry for the component, then the cached object no longer has a corresponding remote result and we report that explicitly.

134b

```

<fetch current CourseResult data from LADOK 134b>≡
response = self.ladok.student_results_JSON(
    self.__student.ladok_id, self.__component.course.education_id
) ["Kursversioner"] [0]

```

```

components = self.__component.course.components()

for result in response["VersionensModuler"]:
    if "ResultatPaUtbildning" not in result:
        continue
    try:
        data, attested = self.__choose_result_data(
            result["ResultatPaUtbildning"])
        if data["UtbildningsinstansUID"] != self.__component.instance_id:
            continue
    except KeyError as err:
        raise LadokError(f"couldn't parse existing module result: {result}") \
            from err
    return dict(data, components=components), attested

course_result = response["VersionensKurs"]
if "ResultatPaUtbildning" in course_result:
    try:
        data, attested = self.__choose_result_data(
            course_result["ResultatPaUtbildning"])
        if data["UtbildningsinstansUID"] == self.__component.instance_id:
            return dict(data, components=components), attested
    except KeyError as err:
        raise LadokError(
            "couldn't parse existing course result: "
            f"{course_result}") from err

raise LadokNotFoundError(
    f"{self.__component.code}: no result found in LADOK for refresh")

```

This code is used in chunk 130c.

Even after LADOK has returned a replacement payload, repopulating the object can still fail while resolving auxiliary data such as the grade scale. Refresh should therefore either leave us with the new state or with the old one, never a mixture of both. Because this code only rebinds attributes on the result itself, a shallow snapshot of `self.__dict__` is enough to roll back a failed refresh.

```

135 <replace CourseResult attributes transactionally 135>≡
    state = self.__dict__.copy()
    try:
        self.__attested = attested
        self.__finalized = attested
        self.__populate_attributes(**data)
    except Exception:
        self.__dict__.clear()
        self.__dict__.update(state)
        raise

```

This code is used in chunk 130c.

Let's verify that an attested result remains authoritative even when LADOK also returns a work copy in Arbetsunderlag. The helper registration below starts from the same sparse registration data we get in `Utbildningsinformation`. Real `CourseRegistration`

objects then pull richer component data through `course_round_components_JSON`, so the fake LADOK session provides that too.

```
136 <test course result helpers 136>=
class FakeLadokForCourseResult:
    def __init__(self, student_results_response=None,
                  course_round_components_response=None):
        self.__grade_scale = ladok3.GradeScale(
            ID=1,
            Kod="PF",
            Benamning={"sv": "Pass/fail"},
            Betygsgrader=[
                {"ID": 10, "Kod": "F", "GiltigSomSlutbetyg": False},
                {"ID": 11, "Kod": "P", "GiltigSomSlutbetyg": True},
            ])
        self.__student_results_response = student_results_response
        if course_round_components_response is None:
            self.__course_round_components_response = {
                "UtbildningsinstansUID": "course-instance",
                "UtbildningUID": "course-education",
                "Utbildningskod": "DD1315",
                "Benamning": {"sv": "Course grade", "en": "Course grade"},
                "Omfattning": 7.5,
                "Enhet": "hp",
                "Versionsnummer": "1",
                "BetygsskalaID": 1,
            }
        else:
            self.__course_round_components_response = course_round_components_response

    def get_grade_scales(self, /, **kwargs):
        if kwargs and kwargs.get("id") != self.__grade_scale.id:
            return []
        return [self.__grade_scale]

    def course_round_components_JSON(self, round_id):
        return self.__course_round_components_response

    def student_results_JSON(self, student_id, education_id):
        return self.__student_results_response

    def set_student_results_response(self, response):
        self.__student_results_response = response

def make_course_component_for_test(ladok):
    return ladok3.CourseComponent(
        ladok=ladok,
        course=types.SimpleNamespace(
            instance_id="course-instance",
```

```

        education_id="course-education",
        components=lambda **kwargs: []),
    UtbildningsinstansUID="component-instance",
    UtbildningUID="course-education",
    Utbildningskod="DD1315",
    Benamning={"sv": "Course grade"},
    BetygsskalaID=1)

```

```

def make_course_registration_for_test(ladok):
    return ladok3.CourseRegistration(
        ladok=ladok,
        student=types.SimpleNamespace(ladok_id="student-uid"),
        UtbildningstillfalleUID="round-instance",
        Utbildningstillfalleskod="20241",
        Studieperiod={
            "Startdatum": "2024-01-15",
            "Slutdatum": "2024-06-05",
        },
        UtbildningsinstansUID="course-instance",
        UtbildningUID="course-education",
        Utbildningskod="DD1315",
        Benamning={"sv": "Course grade", "en": "Course grade"})

```

This code is used in chunk 90a.

```

137 <test course result functions 137>≡
def test_attested_result_wins_over_arbetsunderlag():
    ladok = FakeLadokForCourseResult()
    component = make_course_component_for_test(ladok)

    result = ladok3.CourseResult(
        ladok=ladok,
        student=object(),
        components=[component],
        ResultatPaUtbildning={
            "Arbetsunderlag": {
                "Uid": "draft-uid",
                "UtbildningsinstansUID": "component-instance",
                "ResultatUID": "draft-result",
                "StudieresultatUID": "study-result",
                "ProcessStatus": 1,
                "Betygsgrad": 10,
                "BetygsskalaID": 1,
                "Examinationsdatum": "2024-02-01",
            },
            "SenastAttesteradeResultat": {
                "Uid": "attested-uid",
                "UtbildningsinstansUID": "component-instance",
                "ResultatUID": "attested-result",
                "StudieresultatUID": "study-result",
            }
        }
    )

```



```

        "Betygsgrad": 11,
        "BetygsskalaID": 1,
        "Examinationsdatum": "2024-01-15",
    },
})

assert result.attested == True
assert result.finalized == True
assert result.grade == "P"
assert result.date == "2024-01-15"
assert result.component == component

def test_course_registration_skips_course_entry_without_result():
    ladok = FakeLadokForCourseResult(
        student_results_response={
            "Kursversioner": [{
                "VersionensModuler": [],
                "VersionensKurs": {},
            }],
        })
    course = make_course_registration_for_test(ladok)

    results = course.results(component="DD1315")

    assert len(results) == 1
    assert results[0].grade == None
    assert results[0].attested == False

def test_course_registration_surfaces_malformed_course_results():
    ladok = FakeLadokForCourseResult(
        student_results_response={
            "Kursversioner": [{
                "VersionensModuler": [{
                    "ResultatPaUtbildning": {
                        "Arbetsunderlag": {},
                    },
                }],
                "VersionensKurs": {},
            }],
        })
    course = make_course_registration_for_test(ladok)

    with pytest.raises(
        ladok3.LadokError,
        match="couldn't parse existing module result"):
        course.results(component="DD1315")

```

```

def test_pull_course_result_refreshes_stale_attestation():
    ladok = FakeLadokForCourseResult(
        student_results_response={
            "Kursversioner": [{
                "VersionensModuler": [{
                    "ResultatPaUtbildning": {
                        "Arbetsunderlag": {
                            "Uid": "draft-uid",
                            "UtbildningsinstansUID": "component-instance",
                            "ResultatUID": "draft-result",
                            "StudieresultatUID": "study-result",
                            "ProcessStatus": 1,
                            "Betygsgrad": 10,
                            "BetygsskalaID": 1,
                            "Examinationsdatum": "2024-02-01",
                        },
                    },
                }],
            },
            "VersionensKurs": {},
        },
    )
    component = make_course_component_for_test(ladok)
    component.course.components = lambda **kwargs: [component]

    result = ladok3.CourseResult(
        ladok=ladok,
        student=types.SimpleNamespace(ladok_id="student-uid"),
        components=[component],
        ResultatPaUtbildning={
            "SenastAttesteradeResultat": {
                "Uid": "attested-uid",
                "UtbildningsinstansUID": "component-instance",
                "ResultatUID": "attested-result",
                "StudieresultatUID": "study-result",
                "Betygsgrad": 11,
                "BetygsskalaID": 1,
                "Examinationsdatum": "2024-01-15",
            },
        },
    )

    result.pull()

    assert result.attested == False
    assert result.finalized == False
    assert result.grade == "F"
    assert result.date == "2024-02-01"

def test_pull_course_result_raises_if_refresh_result_disappeared():
    ladok = FakeLadokForCourseResult(

```

```

    student_results_response={
        "Kursversioner": [{
            "VersionensModuler": [],
            "VersionensKurs": {}},
        ]},
    })
component = make_course_component_for_test(ladok)
component.course.components = lambda **kwargs: [component]

result = ladok3.CourseResult(
    ladok=ladok,
    student=types.SimpleNamespace(ladok_id="student-uid"),
    components=[component],
    ResultatPaUtbildning={
        "SenastAttesteradeResultat": {
            "Uid": "attested-uid",
            "UtbildningsinstansUID": "component-instance",
            "ResultatUID": "attested-result",
            "StudieresultatUID": "study-result",
            "Betygsgrad": 11,
            "BetygsskalaID": 1,
            "Examinationsdatum": "2024-01-15",
        },
    },
    })

with pytest.raises(
    ladok3.LadokNotFoundError,
    match="DD1315: no result found in LADOK for refresh"):
    result.pull()

def test_pull_course_result_keeps_state_if_refresh_fails():
    ladok = FakeLadokForCourseResult(
        student_results_response={
            "Kursversioner": [{
                "VersionensModuler": [],
                "VersionensKurs": {}},
            ]},
        })
    component = make_course_component_for_test(ladok)
    component.course.components = lambda **kwargs: [component]

    result = ladok3.CourseResult(
        ladok=ladok,
        student=types.SimpleNamespace(ladok_id="student-uid"),
        components=[component],
        ResultatPaUtbildning={
            "SenastAttesteradeResultat": {
                "Uid": "attested-uid",
                "UtbildningsinstansUID": "component-instance",
            },
        },
    )

```

```

        "ResultatUID": "attested-result",
        "StudieresultatUID": "study-result",
        "Betygsgrad": 11,
        "BetygsskalaID": 1,
        "Examinationsdatum": "2024-01-15",
    },
}

with pytest.raises(
    ladok3.LadokNotFoundError,
    match="DD1315: no result found in LADOK for refresh"):
    result.pull()

assert result.attested == True
assert result.finalized == True
assert result.grade == "P"
assert result.date == "2024-01-15"

def test_pull_course_result_keeps_state_if_population_fails():
    ladok = FakeLadokForCourseResult()
    component = make_course_component_for_test(ladok)
    component.course.components = lambda **kwargs: [component]

    result = ladok3.CourseResult(
        ladok=ladok,
        student=types.SimpleNamespace(ladok_id="student-uid"),
        components=[component],
        ResultatPaUtbildning={
            "SenastAttesteradeResultat": {
                "UId": "attested-uid",
                "UtbildningsinstansUID": "component-instance",
                "ResultatUID": "attested-result",
                "StudieresultatUID": "study-result",
                "Betygsgrad": 11,
                "BetygsskalaID": 1,
                "Examinationsdatum": "2024-01-15",
            },
        },
    )

    ladok.set_student_results_response({
        "Kursversioner": [{
            "VersionensModuler": [{
                "ResultatPaUtbildning": {
                    "Arbetsunderlag": {
                        "UId": "draft-uid",
                        "UtbildningsinstansUID": "component-instance",
                        "ResultatUID": "draft-result",
                        "StudieresultatUID": "study-result",
                        "ProcessStatus": 1,
                    }
                }
            ]
        }
    ]
})

```

```

        "Betygsgrad": 10,
        "BetygsskalaID": 99,
        "Examinationsdatum": "2024-02-01",
    },
},
}],
"VersionensKurs": {},
}],
})

with pytest.raises(IndexError):
    result.pull()

assert result.attested == True
assert result.finalized == True
assert result.grade == "P"
assert result.date == "2024-01-15"

def test_pull_course_result_surfaces_malformed_refresh_payload():
    ladok = FakeLadokForCourseResult(
        student_results_response={
            "Kursversioner": [{
                "VersionensModuler": [{
                    "ResultatPaUtbildning": {},
                }],
                "VersionensKurs": {},
            }],
        })
    component = make_course_component_for_test(ladok)
    component.course.components = lambda **kwargs: [component]

    result = ladok3.CourseResult(
        ladok=ladok,
        student=types.SimpleNamespace(ladok_id="student-uid"),
        components=[component],
        ResultatPaUtbildning={
            "SenastAttesteradeResultat": {
                "Uid": "attested-uid",
                "UtbildningsinstansUID": "component-instance",
                "ResultatUID": "attested-result",
                "StudieresultatUID": "study-result",
                "Betygsgrad": 11,
                "BetygsskalaID": 1,
                "Examinationsdatum": "2024-01-15",
            },
        },
    )

    with pytest.raises(
        ladok3.LadokError,

```

```

        match="couldn't parse existing module result"):
    result.pull()

```

This code is used in chunk 90a.

### 14.2.1 Setting the grade

We can accept the grade either as a grade object or as a string. We must check both values for correctness before we update either of the attributes — otherwise we might end up in an inconsistent state.

```

143a <set the grade for CourseResult 143a>≡
    if isinstance(grade, Grade) and grade not in self.grade_scale.grades():
        raise TypeError(f"The grade {grade} is not in"
            f"the scale {self.grade_scale.code}")
    elif isinstance(grade, str):
        try:
            grade = self.grade_scale.grades(code=grade)[0]
        except:
            raise TypeError(
                f"The grade {grade} is not in the scale {self.grade_scale.code}")
    else:
        raise TypeError(f"Can't use type {type(grade)} for grade")

    if isinstance(date, str):
        date = datetime.date.fromisoformat(date)
    elif not isinstance(date, datetime.date):
        raise TypeError(f"Type {type(date)} not supported for date")

    self.__grade = grade
    self.__date = date

```

This code is used in chunk 130c.

### 14.2.2 Working with existing results

To push an updated result to LADOK, we do the following.

```

143b <push the existing CourseResult grade data to LADOK 143b>≡
    try:
        response = self.ladok.update_result_JSON(
            self.__uid, self.grade.id, self.date.isoformat(), self.__last_modified
        )
    except Exception as err:
        raise LadokError(
            f"couldn't update {self.component.code} to {self.grade} ({self.date})"
            f" to LADOK: {err}"
        )

    self.__populate_attributes(**response)

```

This code is used in chunk 130c.

### 14.2.3 Adding new results

We treat new results differently. Since we don't update an already existing item, we must add a new result to LADOK. Particularly, we must add something to the student's study results.

```
144a <push the new CourseResult grade data to LADOK 144a>≡
try:
    response = self.ladok.create_result_JSON(
        self.__student.ladok_id,
        self.__component.course.instance_id,
        self.__component.instance_id,
        self.grade.id, self.date.isoformat()
    )
except Exception as err:
    raise LadokError("Couldn't register "
        f"{self.component} {self.grade} {self.date}: {err}")

self.__populate_attributes(**response)
```

This code is used in chunk 130c.

### 14.2.4 Finalizing a result

When we finalize the result, we must know who reported the result.

```
144b <finalize the grade for CourseResult 144b>≡
reporter_id = self.ladok.user_info_JSON()["AnvandareUID"]

if notify:
    response = self.ladok.finalize_result_JSON(
        self.__results_id, self.__last_modified, reporter_id, reporter_id,
        others=graders
    )
else:
    response = self.ladok.finalize_result_JSON(
        self.__results_id, self.__last_modified, reporter_id,
        others=graders
    )

self.__populate_attributes(**response)
```

This code is used in chunk 130c.

## **Part IV**

# **API calls**



## Chapter 15

# Overview of helper functions and methods

We will now document some possible API calls to LADOK. We also document the tests of these functions to illustrate their use.

### 15.1 Example outputs and test code for the API

We will provide both example outputs and test code. The test code is the test cases we want to be able to run with `pytest` later. We will design the test functions in such a way that we can reuse them to show the example outputs from the API requests.

We will use the following to test the API methods.

```
146 <test api.py 146>=  
import json  
import ladok3  
import ladok3.report  
import ladok3.cli  
import os  
import pytest  
from test_ladok3 import ladok  
  
student_uid = "de709f81-a867-11e7-8dbf-78e86dc2470c"  
dasak_instance_id = "39c56d6a-73d8-11e8-b4e0-063f9afb40e3"  
dasak_education_id = "39cf7fb4-73d8-11e8-afa7-8e408e694e54"  
dasak_round_id = "79a8cb1b-73da-11e8-b4e0-063f9afb40e3"  
LAB1_uid = "39ca27fe-73d8-11e8-afa7-8e408e694e54"  
LAB1_instance_id = "39ca2861-73d8-11e8-b4e0-063f9afb40e3"  
KTH_org_id = "2474f616-dc41-11e8-8cc1-eaeeb71b497f"
```

<test functions 151a>

This definition is continued in chunk 1355.  
Root chunk (not used in this document).

We will then add `test_X()` functions in the <test functions 151a> code block that will perform the tests. These test functions will also show how to use the functions. Also we will include example output from the function calls in the tests. This is useful for development and when LADOK changes anything in the API.

## 15.2 Exception classes

LADOK operations can fail in various ways, and it's important to handle these failures gracefully with meaningful error messages. To provide better error handling and debugging capabilities, we define a hierarchy of custom exception classes that represent different types of errors that can occur when working with the LADOK API.

All custom exceptions inherit from a base `LadokError` class, which in turn inherits from Python's built-in `Exception` class. This ensures backward compatibility while providing enhanced error handling capabilities.

### 15.2.1 Exception class hierarchy

The exception hierarchy is designed to allow applications to catch specific types of errors while still maintaining the ability to catch all LADOK-related errors with a single exception handler.

**LadokError** Base exception class for all LADOK-related errors.

**LadokServerError** For server-side LADOK errors (uses `response.json()["Meddelande"]`).

**LadokValidationError** For data validation errors (invalid person numbers, grades, etc.).

**LadokAPIError** For API/HTTP related errors (network failures, unexpected responses).

**LadokNotFoundError** For resource not found errors (missing courses, components, etc.).

Usage example:

```

1  import ladok3
2  import ladok3.cli
3
4  try:
5      session = ladok3.LadokSession(**ladok3.cli.load_credentials(),
6                                     test_environment=True)
7      student = session.get_student("invalid-person-nr")
8  except ladok3.LadokValidationError as e:
9      print(f"Invalid data provided: {e}")
10 except ladok3.LadokServerError as e:
11     print(f"LADOK server returned error: {e}")
12 except ladok3.LadokAPIError as e:
13     print(f"Network/API failure: {e}")
14 except ladok3.LadokError as e:
15     print(f"General LADOK error: {e}")

```

This example should yield at least a validation error, since we supply an invalid personnummer to `.get_student`.

### 15.2.2 Exception class definitions

The exception classes are defined as follows:

148

```
<classes 148>≡
class LadokError(Exception):
    """
    Base exception class for all LADOK-related errors.

    This is the parent class for all LADOK-specific exceptions. It can be used
    to catch any LADOK-related error in a single exception handler while still
    allowing more specific error handling when needed.

    All other LADOK exception classes inherit from this class, ensuring
    backward compatibility with existing code that catches generic exceptions.
    """
    pass

class LadokServerError(LadokError):
    """
    Exception for server-side LADOK errors.

    This exception is raised when the LADOK server returns an error response,
    typically containing an error message in the response JSON under the
    "Meddelande" key. This indicates that the request reached the server
    successfully, but the server was unable to process it due to business
    logic constraints or data validation issues on the server side.

    Examples:
    - Attempting to register a grade for a student not enrolled in the course
    - Trying to access data that the authenticated user doesn't have permission to view
    - Server-side validation failures
    """
    pass

class LadokValidationError(LadokError):
    """
    Exception for data validation errors.

    This exception is raised when input data fails validation before being
    sent to the LADOK API. This includes format validation, business rule
    validation, and other client-side checks that can be performed without
    contacting the server.

    Examples:
    - Invalid Swedish personal numbers (personnummer)
    - Invalid grade values for a specific grading scale
    - Missing required fields
    - Date format errors
    """
    pass
```

```

class LadokAPIError(LadokError):
    """
    Exception for API/HTTP related errors.

    This exception is raised when there are problems with the HTTP communication
    to the LADOK API or when the API returns unexpected responses. This includes
    network connectivity issues, HTTP protocol errors, and malformed responses.

    Examples:
    - Network connectivity failures
    - HTTP status codes indicating client or server errors
    - Malformed JSON responses
    - Authentication failures
    - Timeouts
    """
    pass

class LadokNotFoundError(LadokError):
    """
    Exception for resource not found errors.

    This exception is raised when a requested resource cannot be found in LADOK.
    This is typically used for HTTP 404 responses or when searching for entities
    that don't exist.

    Examples:
    - Course instances that don't exist
    - Students not found in the system
    - Course components that are not part of a course
    - Non-existent course rounds
    """
    pass

```

Root chunk (not used in this document).

## 15.3 HTTP queries to LADOK

We will make all queries to LADOK over HTTP as they provide a REST API. This means that we must keep track of some headers and whether we use the test or production system.

### 15.3.1 Data about the LADOK session

The data that we must keep track of is which URL to use, i.e., which system to access: the production system or test system. To run against the test environment, change the base URL to

<https://start.test.ladok.se><sup>1</sup>

<sup>1</sup>According to <https://ladok.se/drift-och-support/produktionsmiljo-for-nya-ladok>.

```

150a <LadokSession constructor body 150a>≡
    self.base_url = "https://start.ladok.se" if not test_environment \
                                     else "https://start.test.ladok.se"

    self.base_gui_url = self.base_url + "/gui"
    self.base_gui_proxy_url = self.base_gui_url + "/proxy"

```

This definition is continued in chunks 150b and 156a.

Root chunk (not used in this document).

We also set the headers that we will accept.

```

150b <LadokSession constructor body 150a>+≡
    self.headers = { 'Accept' : 'application/vnd.ladok-resultat+json, \
application/vnd.ladok-kataloginformation+json, \
application/vnd.ladok-studentinformation+json, \
application/vnd.ladok-studiedeltagande+json, \
application/vnd.ladok-utbildningsinformation+json, \
application/vnd.ladok-examen+json, \
application/vnd.ladok-extintegration+json, \
application/vnd.ladok-uppfoljning+json, \
application/vnd.ladok-extra+json, \
application/json, \
text/plain'}

```

### 15.3.2 GET, PUT and POST queries

To make things easier, we will add four methods: `get_query`, `put_query`, `post_query` and `del_query`, which are shortcuts to make GET, PUT, POST and DEL queries to LADOK.

We note that we must record the time of the last GET request to track the freshness of the XSRF token. The other requests track that by the use of the XSRF token itself. We'll get back to this in Section 15.3.3.

A successful HTTP status does not guarantee that we actually received LADOK JSON. When an authenticated session expires, LADOK may redirect us to an HTML login page and still finish with 200 OK. If we were to call `response.json()` unconditionally in that situation, the user would only see a low-level decoding failure. We therefore decode successful responses through a small helper that raises `LadokAPIError` with the final URL and content type when the body is not JSON.

The raw-text case needs one extra wrinkle. The `weblogin` session wrapper is helpful for JSON endpoints because it can inspect HTML responses and trigger a login flow when LADOK silently redirects us. But the same wrapper also feeds all text responses to its HTML detectors, and XML with an encoding declaration causes `lxml.html` to raise before our code gets the body. We therefore let `get_query_text` force authentication with an ordinary JSON request first, then make the raw request through `requests.Session.request(self.session, ...)`: that still uses the same authenticated `self.session` object (same cookies, same MFA-backed login), but bypasses `AutologinSession.request`'s HTML detection layer.

```

150c <functions 150c>≡
    def response_json_or_error(
        response: requests.Response, path: str, method: str) -> dict | list:
        """Return JSON from [[response]] or raise contextual [[LadokAPIError]]."""
        try:

```

```

    return response.json()
except ValueError as err:
    content_type = response.headers.get("content-type", "<missing>")
    body = " ".join(response.text.split())
    if len(body) > 120:
        body = body[:117] + "...
    raise LadokAPIError(
        f"{method} request to {path} returned non-JSON response "
        f"from {response.url} (Content-Type: {content_type}): {body}") from err

```

This definition is continued in chunks 157 and 158.

Root chunk (not used in this document).

Let's verify the improved error reporting with a synthetic HTML login page. The helper should raise `LadokAPIError` rather than leaking a bare JSON decoding exception.

151a `<test functions 151a>≡`

```

def test_response_json_or_error_reports_html_login_pages() -> None:
    class Response:
        url = "https://start.ladok.se/gui/loggain"
        headers = {"content-type": "text/html; charset=UTF-8"}
        text = "<html><title>Ladok - start</title></html>"

    def json(self):
        raise ValueError("not json")

    try:
        ladok3.response_json_or_error(Response(), "/studentinformation", "GET")
    except ladok3.LadokAPIError as err:
        assert "non-JSON response" in str(err)
        assert "text/html; charset=UTF-8" in str(err)
        assert "https://start.ladok.se/gui/loggain" in str(err)
    else:
        assert False

```

This definition is continued in chunks 160b, 180–83, 370b, 374b, 390b, 394b, 396b, 397b, 442, 443b, 445, 447, 450, 453, 455, 463b, 465–67, 469, 470, 472–75, 477b, 489b, 573b, 575, 582b, 704b, 796, 871, 924b, 927, 930b, 932b, 1063b, 1065b, 1108b, 1138b, 1166, 1173, 1174b, 1180b, 1184, 1197b, 1213b, 1342b, 1347b, 1348, 1356–60, 1364b, and 1366–72.

This code is used in chunk 146.

151b `<LadokSession data methods 151b>≡`

```

def get_query(self, path: str,
              content_type: str = "application/vnd.ladok-resultat+json"
              ) -> dict | list:
    """
    Make GET query to LADOK server and return JSON data.

    Args:
        path: API endpoint path
        content_type: HTTP Content-Type header value

    Returns:
        JSON data from the response

```

```

Raises:
    LadokServerError: If the server returns an error message
    LadokAPIError: If the request fails or returns an error status
"""
headers = self.headers.copy()
headers["Content-Type"] = content_type

<record time of request 156b>

response = self.session.get(
    url=self.base_gui_proxy_url + path,
    headers=headers)

if response.ok:
    return response_json_or_error(response, path, "GET")
try:
    error_msg = response.json()["Meddelande"]
    raise LadokServerError(error_msg)
except:
    error_msg = response.text
    raise LadokAPIError(f"GET request to {path} failed: {error_msg}")

def get_query_text(self, path: str, accept: str) -> str:
    """
    Make GET query to LADOK and return the raw response text.

    Use this when an endpoint serves a non-JSON representation (e.g.\
    XML) that we want to hand to the caller for parsing. The Accept
    header is set explicitly because [[self.headers]] only advertises
    the JSON variants.

    Args:
        path: API endpoint path
        accept: HTTP Accept header value, e.g.
            'application/xml, text/xml;q=0.9'

    Returns:
        response.text from the LADOK response

    Raises:
        LadokServerError: If the server returns an error message
        LadokAPIError: If the request fails or returns an error status
    """
    headers = self.headers.copy()
    headers.pop("Content-Type", None)
    headers["Accept"] = accept

    self.user_info_JSON()
    <record time of request 156b>

```

```

response = requests.Session.request(
    self.session,
    "GET",
    url=self.base_gui_proxy_url + path,
    headers=headers)

if response.ok:
    if "html" in response.headers.get("content-type", "").lower():
        raise LadokAPIError(
            f"GET request to {path} returned unexpected HTML from "
            f"{response.url}")
    return response.text
try:
    error_msg = response.json()["Meddelande"]
    raise LadokServerError(error_msg)
except:
    error_msg = response.text
raise LadokAPIError(f"GET request to {path} failed: {error_msg}")

def put_query(self, path: str, put_data: dict | list,
              content_type: str = "application/vnd.ladok-resultat+json"
              ) -> dict | list:
    """
    Make PUT query to LADOK server and return JSON data.

    Args:
        path: API endpoint path
        put_data: Data to send in request body
        content_type: HTTP Content-Type header value

    Returns:
        JSON data from the response

    Raises:
        LadokServerError: If the server returns an error message
        LadokAPIError: If the request fails or returns an error status
    """
    headers = self.headers.copy()
    headers["Content-Type"] = content_type
    headers["X-XSRF-TOKEN"] = self.xsrf_token
    headers["Referer"] = self.base_gui_url

    response = self.session.put(
        url=self.base_gui_proxy_url + path,
        json=put_data,
        headers=headers)

    if response.ok:
        return response_json_or_error(response, path, "PUT")

```



```

try:
    error_msg = response.json()["Meddelande"]
    raise LadokServerError(error_msg)
except:
    error_msg = response.text
    raise LadokAPIError(f"PUT request to {path} failed: {error_msg}")

def post_query(self, path: str, post_data: dict | list,
               content_type: str = "application/vnd.ladok-resultat+json"
               ) -> dict | list:
    """
    Make POST query to LADOK server and return JSON data.

    Args:
        path: API endpoint path
        post_data: Data to send in request body
        content_type: HTTP Content-Type header value

    Returns:
        JSON data from the response

    Raises:
        LadokServerError: If the server returns an error message
        LadokAPIError: If the request fails or returns an error status
    """
    headers = self.headers.copy()
    headers["Content-Type"] = content_type
    headers["X-XSRF-TOKEN"] = self.xsrf_token
    headers["Referer"] = self.base_gui_url

    response = self.session.post(
        url=self.base_gui_proxy_url + path,
        json=post_data,
        headers=headers)

    if response.ok:
        return response_json_or_error(response, path, "POST")
    try:
        error_msg = response.json()["Meddelande"]
        raise LadokServerError(error_msg)
    except:
        error_msg = response.text
        raise LadokAPIError(f"POST request to {path} failed: {error_msg}")

def del_query(self, path: str) -> bool | dict | list | requests.Response:
    """
    Returns DELETE query response for path on the LADOK server.

    Args:
        path (str): API endpoint path

```

Returns:

True, if success but no content is returned.  
 JSON data from the response, if any.  
 Otherwise the response object.

Raises:

LadokServerError: If the server returns an error message  
 LadokAPIError: If the request fails or returns an error status

"""

headers = self.headers.copy()

headers["X-XSRF-TOKEN"] = self.xsrf\_token

response = self.session.delete(url=self.base\_gui\_proxy\_url+path,  
 headers=headers)

if response.status\_code == requests.codes.no\_content:  
 return True

if response.ok:

try:

return response.json()

except:

return response

try:

error\_msg = response.json()["Meddelande"]

raise LadokServerError(error\_msg)

except:

error\_msg = response.text

raise LadokAPIError(f"DELETE request to {path} failed: {error\_msg}")

This definition is continued in chunks 155, 157a, 160a, 179–83, 370a, 374a, 390a, 394a, 396a, 397a, 441, 443a, 444, 446, 449, 452, 454, 463a, 464, 466–69, 471, 473, 474, 477a, 489a, 573a, 574, 582a, 704a, 795, 870, 924a, 926, 930a, 932a, 1063a, 1065a, 1108a, 1138a, 1165, 1172, 1174a, 1180a, 1183, 1197a, 1213a, 1342a, 1347, 1356–58, 1360a, 1364–69, 1371, and 1372b.

Root chunk (not used in this document).

### 15.3.3 The XSRF token

We note that the PUT, POST and DEL queries require an XSRF token. They all get it through `self.xsrf_token`. We provide a property for that. LADOK sets the XSRF token when we make our first request. If we haven't made any request, we don't have one. Also, if too long time passes between requests, the existing XSRF token will be invalidated by LADOK.

155 <LadokSession data methods 151b>+=

@property

def xsrf\_token(self) -> str:

"""

Get a fresh XSRF token for authenticated requests.

LADOK requires XSRF tokens for PUT, POST, and DELETE requests. This property ensures the token is fresh and valid, triggering a re-login if necessary.

Returns:

```
    str: A valid XSRF token for use in authenticated requests.
    """
```

*<ensure the XSRF token is fresh 156c>*

```
cookies = self.session.cookies.get_dict()
return cookies["XSRF-TOKEN"]
```

Now, we must ensure there is a fresh XSRF token. There are two cases:

- (1) If we don't have an XSRF token, this means that we must log in to get one. Since we use `weblogin`, we'll simply perform a GET request, i.e., one that doesn't require an XSRF token.
- (2) If we have one, it might be expired due to a timeout. In this case, we must log in again to get a new one.

This means that we want to keep track of when the last request happened, so we can determine if our XSRF token is fresh or not.

```
156a <LadokSession constructor body 150a>+≡
    self.__access_time = None
    self.__timeout = datetime.timedelta(minutes=15)
```

```
156b <record time of request 156b>≡
    self.__access_time = datetime.datetime.now()
```

This code is used in chunks 151b and 156c.

We note here that we assume that whenever the XSRF token is requested, a PUT, POST or DEL request will soon follow. Hence, we can update the time of the last request whenever the XSRF token is read.

```
156c <ensure the XSRF token is fresh 156c>≡
    if (not self.__access_time
        or datetime.datetime.now()-self.__access_time > self.__timeout):
        self.user_info_JSON() # trigger login
    else:
        <record time of request 156b>
```

This code is used in chunk 155.

### 15.3.4 Paginating across multiple result pages

Many LADOK endpoints return a fixed-size page of results plus a `TotaltAntalPoster` field giving the total count. If a caller wants *all* results — e.g. all course rounds for a course code, all participants in a programme round, all examination occasions for a course — they have to walk every page.

The naive workaround is to ask for an enormous limit (we used 400 in places below). That stops working the moment a query genuinely crosses the limit, and it fails silently: the caller gets the first 400 items and never finds out the rest exist. We instead provide a `_all_pages` helper that walks pages until the running total matches the server's `TotaltAntalPoster`, so the caller-facing methods can stay parameterless and always return the complete list.

The helper takes a `request_fn(page, limit)` callable rather than a URL and content-type pair. This lets it work with both `get_query` (URL query-string pagination) and `put_query` (body-field pagination, used by `occasion_results_JSON`) without having to duplicate the looping logic — the closure captures whatever endpoint-specific machinery the caller needs.

If the response is missing either key or `TotaltAntalPoster`, we raise `LadokAPIError` in the same ‘fail loud on schema drift’ style as the rest of this module: a paginated endpoint that suddenly stops returning `TotaltAntalPoster` is exactly the kind of change the caller needs to see, not silently swallow.

157a

```

<LadokSession data methods 151b> +=
def _all_pages(self,
    request_fn: Callable[[int, int], dict],
    key: str = "Resultat",
    page_size: int = 400) -> list:
    """Concatenate every page of a paginated LADOK endpoint.

    request_fn(page, limit) must return the raw response dict
    containing `key` (a list of items) and 'TotaltAntalPoster' (total
    number of items across all pages, 1-based page numbering).

    Returns the flat list of items.  Raises LadokAPIError if any page
    is missing the expected keys.
    """
    items = []
    page = 1
    while True:
        data = request_fn(page, page_size)
        try:
            chunk = data[key]
            total = data["TotaltAntalPoster"]
        except KeyError as err:
            err.add_note(f"Response data: {data}")
            raise LadokAPIError(
                f"Paginated response missing '{key}' or "
                f"'TotaltAntalPoster' on page {page}"
            ) from err
        items.extend(chunk)
        if len(items) >= total or not chunk:
            return items
        page += 1

```

## 15.4 Cleaning data for printing

We sometimes want to print the data, for instance, example output in this document. For this reason we introduce some cleaning functions. These recursively transcend the JSON structure removing the data that should be removed.

157b

```

<functions 150c> +=
def clean_data(json_obj: dict | list) -> dict | list:

```

```
"""
Clean a JSON object by removing internal links and pseudonymizing personal data.
```

```
Args:
```

```
    json_obj (dict or list): The JSON data to clean.
```

```
Returns:
```

```
    dict or list: The cleaned JSON object.
```

```
"""
```

```
remove_links(json_obj)
```

```
pseudonymize(json_obj)
```

```
return json_obj
```

The `remove_links` function removes the link key–value pairs. The link values contains URLs for all requests that data are based on.

158a

```
<functions 150c>+=
```

```
def remove_links(json_obj: dict | list) -> None:
```

```
    """
```

```
    Recursively removes all "link" keys and values
```

```
    """
```

```
    if isinstance(json_obj, dict):
```

```
        if "link" in json_obj:
```

```
            json_obj.pop("link")
```

```
        for key, value in json_obj.items():
```

```
            remove_links(value)
```

```
    elif isinstance(json_obj, list):
```

```
        for item in json_obj:
```

```
            remove_links(item)
```

The `pseudonymize` function replaces names and personnummer with dummy entries.

158b

```
<functions 150c>+=
```

```
def pseudonymize(json_obj: dict | list) -> None:
```

```
    """
```

```
    Recursively pseudonymizes a JSON data record
```

```
    """
```

```
    if isinstance(json_obj, dict):
```

```
        if "Fornamn" in json_obj:
```

```
            json_obj["Fornamn"] = "Student"
```

```
        if "Efternamn" in json_obj:
```

```
            json_obj["Efternamn"] = "Studentzadeh"
```

```
        if "Personnummer" in json_obj:
```

```
            json_obj["Personnummer"] = "191234561234"
```

```
        if "Epostadress" in json_obj:
```

```
            json_obj["Epostadress"] = "user@domain.se"
```

```
        if "Anvandarnamn" in json_obj:
```

```
            json_obj["Anvandarnamn"] = "user@domain.se"
```

```
        if "Utdelningsadress" in json_obj:
```

```
            json_obj["Utdelningsadress"] = "Stora vägen 1"
```

```
        if "Postnummer" in json_obj:
```

```
            json_obj["Postnummer"] = "12345"
```

```
if "Postort" in json_obj:
    json_obj["Postort"] = "Byn"
if "Telefonnummer" in json_obj:
    json_obj["Telefonnummer"] = "0701234567"
for value in json_obj.values():
    pseudonymize(value)
elif isinstance(json_obj, list):
    for item in json_obj:
        pseudonymize(item)
```

## Chapter 16

# Grade-related API calls

### 16.1 grade\_scales\_JSON

To request the grading scales from LADOK, we request all of them and return a list of JSON data objects containing the grading scale data.

```
160a <LadokSession data methods 151b>+=
def grade_scales_JSON(self) -> list:
    """
    Fetch all grading scales from LADOK.

    This returns the JSON variant's standard subset. Use
    [[grade_scales_all_text()]] when the caller needs the broader XML response,
    including institution-specific scales.

    Returns:
        list: A list of JSON objects containing grading scale data from LADOK.

    Raises:
        Exception: If the request fails or returns an error status.
    """
    data = self.get_query(
        "/kataloginformation/internal/grunddata/betygsskala",
        content_type="application/vnd.ladok-kataloginformation+json;charset=UTF-8"
    )

    try:
        return data["Betygsskala"]
    except KeyError as err:
        err.add_note(f"Response data: {data}")
        raise LadokAPIError(f"Unexpected response format when fetching grading scales: "
                             f"missing 'Betygsskala' key") from err

    We add the following test. If we can convert the return value to JSON, it's prob-
    ably correct. (No this isn't the best of tests.)

160b <test functions 151a>+=
def test_grade_scales_JSON() -> None:
    assert ladok.grade_scales_JSON()
```

This code is used in chunk 146.

The output looks like this.

```

1  [
2    {
3      "Benamning": {
4        "sv": "Engradig skala för deltagande",
5        "en": "One-grade scale for participation only"
6      },
7      "Beskrivning": {},
8      "Betygsgrader": [
9        {
10         "Benamning": {
11           "sv": "Deltagit",
12           "en": "Participated"
13         },
14         "Dolt": false,
15         "GiltigSomSlutbetyg": true,
16         "ID": "102041",
17         "Kod": "D",
18         "Ordningsnummer": 1
19       }
20     ],
21     "Dolt": true,
22     "Giltighetsperiod": {},
23     "ID": "102040",
24     "Kod": "DT",
25     "LarosateID": -1
26   },
27   {
28     "Benamning": {
29       "sv": "Engradig skala",
30       "en": "One-grade scale"
31     },
32     "Beskrivning": {},
33     "Betygsgrader": [
34       {
35         "Benamning": {
36           "sv": "Godkänd",
37           "en": "Pass"
38         },
39         "Dolt": false,
40         "GiltigSomSlutbetyg": true,
41         "ID": "1907",
42         "Kod": "G",
43         "Ordningsnummer": 2
44       }
45     ],
46     "Dolt": true,
47     "Giltighetsperiod": {},
48     "ID": "1",

```



```
49     "Kod": "FOG",
50     "LarosateID": -1
51 },
52 {
53     "Benamning": {
54         "sv": "Fyrgradig skala, sifferbetyg",
55         "en": "Four-grade scale, digits"
56     },
57     "Beskrivning": {},
58     "Betygsgrader": [
59         {
60             "Benamning": {
61                 "sv": "Mycket väl godkänd",
62                 "en": "Pass with distinction"
63             },
64             "Dolt": false,
65             "GiltigSomSlutbetyg": true,
66             "ID": "102036",
67             "Kod": "5",
68             "Ordningsnummer": 1
69         },
70         {
71             "Benamning": {
72                 "sv": "Väl godkänd",
73                 "en": "Pass with credit"
74             },
75             "Dolt": false,
76             "GiltigSomSlutbetyg": true,
77             "ID": "102037",
78             "Kod": "4",
79             "Ordningsnummer": 2
80         },
81         {
82             "Benamning": {
83                 "sv": "Godkänd",
84                 "en": "Pass"
85             },
86             "Dolt": false,
87             "GiltigSomSlutbetyg": true,
88             "ID": "102038",
89             "Kod": "3",
90             "Ordningsnummer": 3
91         },
92         {
93             "Benamning": {
94                 "sv": "Underkänd",
95                 "en": "Fail"
96             },
97             "Dolt": false,
98             "GiltigSomSlutbetyg": false,
99             "ID": "102039",
```

```

100         "Kod": "U",
101         "Ordningsnummer": 4
102     }
103 ],
104     "Dolt": true,
105     "Giltighetsperiod": {},
106     "ID": "102035",
107     "Kod": "TH",
108     "LarosateID": -1
109 },
110 {
111     "Benamning": {
112         "sv": "Tvågradig skala",
113         "en": "Two-grade scale"
114     },
115     "Beskrivning": {},
116     "Betygsgrader": [
117         {
118             "Benamning": {
119                 "sv": "Godkänd",
120                 "en": "Pass"
121             },
122             "Dolt": false,
123             "GiltigSomSlutbetyg": true,
124             "ID": "2302",
125             "Kod": "G",
126             "Ordningsnummer": 1
127         },
128         {
129             "Benamning": {
130                 "sv": "Underkänd",
131                 "en": "Fail"
132             },
133             "Dolt": false,
134             "GiltigSomSlutbetyg": false,
135             "ID": "2303",
136             "Kod": "U",
137             "Ordningsnummer": 2
138         }
139     ],
140     "Dolt": true,
141     "Giltighetsperiod": {},
142     "ID": "2",
143     "Kod": "UG",
144     "LarosateID": -1
145 },
146 {
147     "Benamning": {
148         "sv": "Fyrgradig skala, bokstavs-betyg",
149         "en": "Four-grade scale, letters"
150     },

```

```
151     "Beskrivning": {},
152     "Betygsgrader": [
153       {
154         "Benamning": {
155           "sv": "Med beröm godkänd",
156           "en": "Pass with distinction"
157         },
158         "Dolt": false,
159         "GiltigSomSlutbetyg": true,
160         "ID": "102031",
161         "Kod": "AB",
162         "Ordningsnummer": 1
163       },
164       {
165         "Benamning": {
166           "sv": "Icke utan beröm godkänd",
167           "en": "Pass with credit"
168         },
169         "Dolt": false,
170         "GiltigSomSlutbetyg": true,
171         "ID": "102032",
172         "Kod": "BA",
173         "Ordningsnummer": 2
174       },
175       {
176         "Benamning": {
177           "sv": "Godkänd",
178           "en": "Pass"
179         },
180         "Dolt": false,
181         "GiltigSomSlutbetyg": true,
182         "ID": "102033",
183         "Kod": "B",
184         "Ordningsnummer": 3
185       },
186       {
187         "Benamning": {
188           "sv": "Underkänd",
189           "en": "Fail"
190         },
191         "Dolt": false,
192         "GiltigSomSlutbetyg": false,
193         "ID": "102034",
194         "Kod": "U",
195         "Ordningsnummer": 4
196       }
197     ],
198     "Dolt": true,
199     "Giltighetsperiod": {},
200     "ID": "102030",
201     "Kod": "UM",
```

```

202     "LarosateID": -1
203 },
204 {
205     "Benamning": {
206         "sv": "Tregradig skala",
207         "en": "Three-grade scale"
208     },
209     "Beskrivning": {},
210     "Betygsgrader": [
211         {
212             "Benamning": {
213                 "sv": "Väl godkänd",
214                 "en": "Pass with distinction"
215             },
216             "Dolt": false,
217             "GiltigSomSlutbetyg": true,
218             "ID": "101313",
219             "Kod": "VG",
220             "Ordningsnummer": 1
221         },
222         {
223             "Benamning": {
224                 "sv": "Godkänd",
225                 "en": "Pass"
226             },
227             "Dolt": false,
228             "GiltigSomSlutbetyg": true,
229             "ID": "101314",
230             "Kod": "G",
231             "Ordningsnummer": 2
232         },
233         {
234             "Benamning": {
235                 "sv": "Underkänd",
236                 "en": "Fail"
237             },
238             "Dolt": false,
239             "GiltigSomSlutbetyg": false,
240             "ID": "101315",
241             "Kod": "U",
242             "Ordningsnummer": 3
243         }
244     ],
245     "Dolt": false,
246     "Giltighetsperiod": {},
247     "ID": "101312",
248     "Kod": "UV",
249     "LarosateID": -1
250 },
251 {
252     "Benamning": {

```

```
253     "sv": "Z_Felaktig",
254     "en": "Three-grade scale"
255 },
256 "Beskrivning": {},
257 "Betygsgrader": [
258   {
259     "Benamning": {
260       "sv": "Väl godkänd",
261       "en": "Pass with distinction"
262     },
263     "Dolt": false,
264     "GiltigSomSlutbetyg": true,
265     "ID": "101311",
266     "Kod": "VG",
267     "Ordningsnummer": 1
268   }
269 ],
270 "Dolt": true,
271 "Giltighetsperiod": {
272   "Slutdatum": "0001-01-01"
273 },
274 "ID": "101310",
275 "Kod": "UVX",
276 "LarosateID": -1
277 },
278 {
279   "Benamning": {
280     "sv": "Sjugradig betygsskala",
281     "en": "Seven point grading scale"
282   },
283   "Beskrivning": {},
284   "Betygsgrader": [
285     {
286       "Benamning": {
287         "sv": "Utmärkt",
288         "en": "Excellent"
289       },
290       "Dolt": false,
291       "GiltigSomSlutbetyg": true,
292       "ID": "131661",
293       "Kod": "A",
294       "Ordningsnummer": 1
295     },
296     {
297       "Benamning": {
298         "sv": "Mycket bra",
299         "en": "Very Good"
300       },
301       "Dolt": false,
302       "GiltigSomSlutbetyg": true,
303       "ID": "131667",
```

```
304     "Kod": "B",
305     "Ordningsnummer": 2
306 },
307 {
308     "Benamning": {
309         "sv": "Bra",
310         "en": "Good"
311     },
312     "Dolt": false,
313     "GiltigSomSlutbetyg": true,
314     "ID": "131673",
315     "Kod": "C",
316     "Ordningsnummer": 3
317 },
318 {
319     "Benamning": {
320         "sv": "Tillfredsställande",
321         "en": "Satisfactory"
322     },
323     "Dolt": false,
324     "GiltigSomSlutbetyg": true,
325     "ID": "131679",
326     "Kod": "D",
327     "Ordningsnummer": 4
328 },
329 {
330     "Benamning": {
331         "sv": "Tillräcklig",
332         "en": "Sufficient"
333     },
334     "Dolt": false,
335     "GiltigSomSlutbetyg": true,
336     "ID": "131691",
337     "Kod": "E",
338     "Ordningsnummer": 5
339 },
340 {
341     "Benamning": {
342         "sv": "Underkänd",
343         "en": "Not satisfactory"
344     },
345     "Dolt": false,
346     "GiltigSomSlutbetyg": false,
347     "ID": "131696",
348     "Kod": "FX",
349     "Ordningsnummer": 6
350 },
351 {
352     "Benamning": {
353         "sv": "Underkänd",
354         "en": "Failed"
```

```

355     },
356     "Dolt": false,
357     "GiltigSomSlutbetyg": false,
358     "ID": "131697",
359     "Kod": "F",
360     "Ordningsnummer": 7
361   }
362 ],
363 "Dolt": false,
364 "Giltighetsperiod": {
365   "Startdatum": "2007-07-01"
366 },
367 "ID": "131657",
368 "Kod": "AF",
369 "LarosateID": 29
370 },
371 {
372   "Benamning": {
373     "sv": "GD",
374     "en": "GD"
375   },
376   "Beskrivning": {},
377   "Betygsgrader": [
378     {
379       "Benamning": {
380         "sv": "Godkänd",
381         "en": "Pass"
382       },
383       "Dolt": false,
384       "GiltigSomSlutbetyg": true,
385       "ID": "131680",
386       "Kod": "G",
387       "Ordningsnummer": 1
388     },
389     {
390       "Benamning": {
391         "sv": "Deltagit",
392         "en": "Attended"
393       },
394       "Dolt": false,
395       "GiltigSomSlutbetyg": true,
396       "ID": "131688",
397       "Kod": "D",
398       "Ordningsnummer": 2
399     },
400     {
401       "Benamning": {
402         "sv": "Underkänd",
403         "en": "Not satisfactory"
404       },
405       "Dolt": false,

```

```
406         "GiltigSomSlutbetyg": false,
407         "ID": "131689",
408         "Kod": "U",
409         "Ordningsnummer": 3
410     }
411 ],
412     "Dolt": true,
413     "Giltighetsperiod": {},
414     "ID": "131650",
415     "Kod": "GD",
416     "LarosateID": 29
417 },
418 {
419     "Benamning": {
420         "sv": "MH",
421         "en": "MH"
422     },
423     "Beskrivning": {},
424     "Betygsgrader": [
425         {
426             "Benamning": {
427                 "sv": "Fem+",
428                 "en": "Five+"
429             },
430             "Dolt": false,
431             "GiltigSomSlutbetyg": true,
432             "ID": "131660",
433             "Kod": "55",
434             "Ordningsnummer": 1
435         },
436         {
437             "Benamning": {
438                 "sv": "Fem",
439                 "en": "Five"
440             },
441             "Dolt": false,
442             "GiltigSomSlutbetyg": true,
443             "ID": "131664",
444             "Kod": "50",
445             "Ordningsnummer": 2
446         },
447         {
448             "Benamning": {
449                 "sv": "Fyra+",
450                 "en": "Four+"
451             },
452             "Dolt": false,
453             "GiltigSomSlutbetyg": true,
454             "ID": "131674",
455             "Kod": "45",
456             "Ordningsnummer": 3
```



```
457     },
458     {
459         "Benamning": {
460             "sv": "Fyra",
461             "en": "Four"
462         },
463         "Dolt": false,
464         "GiltigSomSlutbetyg": true,
465         "ID": "131678",
466         "Kod": "40",
467         "Ordningsnummer": 4
468     },
469     {
470         "Benamning": {
471             "sv": "Fem++",
472             "en": "Five++"
473         },
474         "Dolt": false,
475         "GiltigSomSlutbetyg": true,
476         "ID": "131692",
477         "Kod": "60",
478         "Ordningsnummer": 5
479     },
480     {
481         "Benamning": {
482             "sv": "Tre+",
483             "en": "Three+"
484         },
485         "Dolt": false,
486         "GiltigSomSlutbetyg": true,
487         "ID": "131693",
488         "Kod": "35",
489         "Ordningsnummer": 6
490     },
491     {
492         "Benamning": {
493             "sv": "Tre",
494             "en": "Three"
495         },
496         "Dolt": false,
497         "GiltigSomSlutbetyg": true,
498         "ID": "131694",
499         "Kod": "30",
500         "Ordningsnummer": 7
501     },
502     {
503         "Benamning": {
504             "sv": "Underkänd",
505             "en": "Not satisfactory"
506         },
507         "Dolt": false,
```

```

508         "GiltigSomSlutbetyg": false,
509         "ID": "131695",
510         "Kod": "U",
511         "Ordningsnummer": 8
512     }
513 ],
514     "Dolt": true,
515     "Giltighetsperiod": {},
516     "ID": "131651",
517     "Kod": "MH",
518     "LarosateID": 29
519 },
520 {
521     "Benamning": {
522         "sv": "Okänd betygsskala",
523         "en": "Unknown grading scale"
524     },
525     "Beskrivning": {},
526     "Betygsgrader": [
527         {
528             "Benamning": {
529                 "sv": "Underkänd",
530                 "en": "Not satisfactory"
531             },
532             "Dolt": false,
533             "GiltigSomSlutbetyg": false,
534             "ID": "131672",
535             "Kod": "FX",
536             "Ordningsnummer": 1
537         }
538     ],
539     "Dolt": true,
540     "Giltighetsperiod": {
541         "Slutdatum": "2018-06-19"
542     },
543     "ID": "131654",
544     "Kod": "OKÄND",
545     "LarosateID": 29
546 },
547 {
548     "Benamning": {
549         "sv": "Tvågradig betygsskala",
550         "en": "Two point grading scale"
551     },
552     "Beskrivning": {},
553     "Betygsgrader": [
554         {
555             "Benamning": {
556                 "sv": "Godkänd",
557                 "en": "Pass"
558             },

```

```

559         "Dolt": false,
560         "GiltigSomSlutbetyg": true,
561         "ID": "131658",
562         "Kod": "P",
563         "Ordningsnummer": 1
564     },
565     {
566         "Benamning": {
567             "sv": "Underkänd",
568             "en": "Failed"
569         },
570         "Dolt": false,
571         "GiltigSomSlutbetyg": false,
572         "ID": "131663",
573         "Kod": "F",
574         "Ordningsnummer": 2
575     }
576 ],
577 "Dolt": false,
578 "Giltighetsperiod": {},
579 "ID": "131656",
580 "Kod": "PF",
581 "LarosateID": 29
582 },
583 {
584     "Benamning": {
585         "sv": "SS",
586         "en": "SS"
587     },
588     "Beskrivning": {},
589     "Betygsgrader": [
590         {
591             "Benamning": {
592                 "sv": "Sex",
593                 "en": "Six"
594             },
595             "Dolt": false,
596             "GiltigSomSlutbetyg": true,
597             "ID": "131665",
598             "Kod": "6",
599             "Ordningsnummer": 1
600         }
601     ],
602     "Dolt": true,
603     "Giltighetsperiod": {},
604     "ID": "131653",
605     "Kod": "SS",
606     "LarosateID": 29
607 },
608 {
609     "Benamning": {

```

```
610     "sv": "TH",
611     "en": "TH"
612 },
613 "Beskrivning": {},
614 "Betygsgrader": [
615   {
616     "Benamning": {
617       "sv": "Fem",
618       "en": "Five"
619     },
620     "Dolt": false,
621     "GiltigSomSlutbetyg": true,
622     "ID": "131675",
623     "Kod": "5",
624     "Ordningsnummer": 1
625   },
626   {
627     "Benamning": {
628       "sv": "Fyra",
629       "en": "Four"
630     },
631     "Dolt": false,
632     "GiltigSomSlutbetyg": true,
633     "ID": "131677",
634     "Kod": "4",
635     "Ordningsnummer": 2
636   },
637   {
638     "Benamning": {
639       "sv": "Tre",
640       "en": "Three"
641     },
642     "Dolt": false,
643     "GiltigSomSlutbetyg": true,
644     "ID": "131682",
645     "Kod": "3",
646     "Ordningsnummer": 3
647   },
648   {
649     "Benamning": {
650       "sv": "Underkänd",
651       "en": "Not satisfactory"
652     },
653     "Dolt": false,
654     "GiltigSomSlutbetyg": false,
655     "ID": "131690",
656     "Kod": "U",
657     "Ordningsnummer": 4
658   }
659 ],
660 "Dolt": true,
```

```
661     "Giltighetsperiod": {
662         "Slutdatum": "2018-06-19"
663     },
664     "ID": "131669",
665     "Kod": "TH",
666     "LarosateID": 29
667 },
668 {
669     "Benamning": {
670         "sv": "TP",
671         "en": "TP"
672     },
673     "Beskrivning": {},
674     "Betygsgrader": [
675         {
676             "Benamning": {
677                 "sv": "Fem",
678                 "en": "Five"
679             },
680             "Dolt": false,
681             "GiltigSomSlutbetyg": true,
682             "ID": "131666",
683             "Kod": "5",
684             "Ordningsnummer": 1
685         },
686         {
687             "Benamning": {
688                 "sv": "Fyra",
689                 "en": "Four"
690             },
691             "Dolt": false,
692             "GiltigSomSlutbetyg": true,
693             "ID": "131698",
694             "Kod": "4",
695             "Ordningsnummer": 2
696         },
697         {
698             "Benamning": {
699                 "sv": "Tre",
700                 "en": "Three"
701             },
702             "Dolt": false,
703             "GiltigSomSlutbetyg": true,
704             "ID": "131699",
705             "Kod": "3",
706             "Ordningsnummer": 3
707         },
708         {
709             "Benamning": {
710                 "sv": "Godkänd",
711                 "en": "Pass"
```

```

712     },
713     "Dolt": false,
714     "GiltigSomSlutbetyg": true,
715     "ID": "131700",
716     "Kod": "G",
717     "Ordningsnummer": 4
718   },
719   {
720     "Benamning": {
721       "sv": "Deltagit",
722       "en": "Attended"
723     },
724     "Dolt": false,
725     "GiltigSomSlutbetyg": true,
726     "ID": "131701",
727     "Kod": "D",
728     "Ordningsnummer": 5
729   },
730   {
731     "Benamning": {
732       "sv": "Underkänd",
733       "en": "Not satisfactory"
734     },
735     "Dolt": false,
736     "GiltigSomSlutbetyg": false,
737     "ID": "131702",
738     "Kod": "U",
739     "Ordningsnummer": 6
740   }
741 ],
742 "Dolt": true,
743 "Giltighetsperiod": {},
744 "ID": "131652",
745 "Kod": "TP",
746 "LarosateID": 29
747 },
748 {
749   "Benamning": {
750     "sv": "UV",
751     "en": "UV"
752   },
753   "Beskrivning": {},
754   "Betygsgrader": [
755     {
756       "Benamning": {
757         "sv": "Väl godkänd",
758         "en": "Pass with Distinction"
759       },
760       "Dolt": false,
761       "GiltigSomSlutbetyg": true,
762       "ID": "131670",

```

```

763     "Kod": "VG",
764     "Ordningsnummer": 1
765 },
766 {
767     "Benamning": {
768         "sv": "Godkänd",
769         "en": "Pass"
770     },
771     "Dolt": false,
772     "GiltigSomSlutbetyg": true,
773     "ID": "131671",
774     "Kod": "G",
775     "Ordningsnummer": 2
776 },
777 {
778     "Benamning": {
779         "sv": "Underkänd",
780         "en": "Not satisfactory"
781     },
782     "Dolt": false,
783     "GiltigSomSlutbetyg": false,
784     "ID": "131676",
785     "Kod": "U",
786     "Ordningsnummer": 3
787 }
788 ],
789 "Dolt": true,
790 "Giltighetsperiod": {
791     "Slutdatum": "2018-06-19"
792 },
793 "ID": "131668",
794 "Kod": "UV",
795 "LarosateID": 29
796 },
797 {
798     "Benamning": {
799         "sv": "XX",
800         "en": "XX"
801     },
802     "Beskrivning": {},
803     "Betygsgrader": [
804         {
805             "Benamning": {
806                 "sv": "Sju",
807                 "en": "Seven"
808             },
809             "Dolt": false,
810             "GiltigSomSlutbetyg": true,
811             "ID": "131659",
812             "Kod": "7",
813             "Ordningsnummer": 1

```

```
814     },
815     {
816         "Benamning": {
817             "sv": "Sex",
818             "en": "Six"
819         },
820         "Dolt": false,
821         "GiltigSomSlutbetyg": true,
822         "ID": "131662",
823         "Kod": "6",
824         "Ordningsnummer": 2
825     },
826     {
827         "Benamning": {
828             "sv": "Fem",
829             "en": "Five"
830         },
831         "Dolt": false,
832         "GiltigSomSlutbetyg": true,
833         "ID": "131681",
834         "Kod": "5",
835         "Ordningsnummer": 3
836     },
837     {
838         "Benamning": {
839             "sv": "Fyra",
840             "en": "Four"
841         },
842         "Dolt": false,
843         "GiltigSomSlutbetyg": true,
844         "ID": "131683",
845         "Kod": "4",
846         "Ordningsnummer": 4
847     },
848     {
849         "Benamning": {
850             "sv": "Tre",
851             "en": "Tree"
852         },
853         "Dolt": false,
854         "GiltigSomSlutbetyg": true,
855         "ID": "131684",
856         "Kod": "3",
857         "Ordningsnummer": 5
858     },
859     {
860         "Benamning": {
861             "sv": "Godkänd",
862             "en": "Pass"
863         },
864         "Dolt": false,
```



```
865     "GiltigSomSlutbetyg": true,
866     "ID": "131685",
867     "Kod": "G",
868     "Ordningsnummer": 6
869 },
870 {
871     "Benamning": {
872         "sv": "Deltagit",
873         "en": "Attended"
874     },
875     "Dolt": false,
876     "GiltigSomSlutbetyg": true,
877     "ID": "131686",
878     "Kod": "D",
879     "Ordningsnummer": 7
880 },
881 {
882     "Benamning": {
883         "sv": "Underkänd",
884         "en": "Not satisfactory"
885     },
886     "Dolt": false,
887     "GiltigSomSlutbetyg": false,
888     "ID": "131687",
889     "Kod": "U",
890     "Ordningsnummer": 8
891 }
892 ],
893 "Dolt": true,
894 "Giltighetsperiod": {},
895 "ID": "131655",
896 "Kod": "XX",
897 "LarosateID": 29
898 }
899 ]
```

## Chapter 17

# Student-related API calls

Here we have collected API-calls related to students.

### 17.1 get\_student\_data\_JSON and get\_student\_data\_by\_uid\_JSON

This method fetches the basic information about a student based on personnummer. To pull the data based on personnummer we must actually form a search query. (This code is a merge of a slight adaptation of the code by Baltatzis and that of Chip.)

```
179 <LadokSession data methods 151b>+=
#####
#
# get_student_data_JSON
#
# person_nr          - personnummer, flera format accepteras enligt regex:
#                      (\d\d)?(\d\d)(\d\d\d\d\d)[+\-]?(\w\w\w\w)
#
# lang               - language code 'en' or 'sv', defaults to 'sv'
#
# RETURNERAR en dictionary med för- och efternamn and more
def get_student_data_JSON(self, person_nr_raw: str, lang: str = 'sv') -> dict:
    """
    Get student data from LADOK using a Swedish personal number (personnummer).

    Args:
        person_nr_raw (str): Swedish personal number in format YYYYMMDD-XXXX or similar
        lang (str, optional): Language code 'en' or 'sv'. Defaults to 'sv'.

    Returns:
        dict: Student data dictionary containing name, contact info, and more.

    Raises:
        Exception: If the personal number format is invalid.
        ValueError: If student cannot be found or multiple matches found.
    """
    person_nr = format_personnummer(person_nr_raw)
```

```

if not person_nr: raise LadokValidationError('Invalid person nr ' + person_nr_raw)

response = self.session.get(
    url=self.base_gui_proxy_url +
        "/studentinformation/internal/student/filtrera"
        f"?personnummer={person_nr}"
        "&limit=2&page=1"
        "&orderby=EFTERNAMN_ASC&orderby=FORNAMN_ASC"
        "&orderby=PERSONNUMMER_ASC",
    headers=self.headers)

if response.status_code == requests.codes.ok:
    record = response.json()["Resultat"]
else:
    raise ValueError(
        f"can't find student based on personnummer {person_nr}: "
        f"bad response: {response.text}")

if len(record) != 1:
    raise ValueError(
        f"can't find student based on personnummer {person_nr}: "
        f"not a unique match: {record}")

return record[0]

```

To test this function, we do the following.

```

180a <test functions 151a>+≡
def test_get_student_data_JSON() -> None:
    assert ladok.get_student_data_JSON("8506097891")

```

This code is used in chunk 146.

We also have the corresponding for LADOK's UID, which fetches the record directly.

```

180b <LadokSession data methods 151b>+≡
#####
#
# get_student_data_by_uid_JSON
#
# uid          - Ladok ID
#
# RETURNERAR en dictionary med för- och efternamn and more
def get_student_data_by_uid_JSON(self, uid: str) -> dict:
    """
    Get student data from LADOK using a LADOK UID.

    Args:
        uid (str): The student's unique LADOK identifier.

    Returns:
        dict: Student data dictionary containing personal information.
    """

```

```

Raises:
    AttributeError: If student cannot be found by the given UID.
"""
data = self.get_query(
    f"/studentinformation/internal/student/{uid}",
    content_type="application/vnd.ladok-studentinformation+json;charset=UTF-8")

return data

```

To test this function, we do the following.

```

181a <test functions 151a>+≡
def test_get_student_data_by_uid_JSON() -> None:
    assert ladok.get_student_data_by_uid_JSON(student_uid)

```

This code is used in chunk 146.

The result is the same for both method.

```

1 {
2   "Avliden": false,
3   "Efternamn": "Studentzadeh",
4   "ExterntUID": "0b95cffc-3ba4-405f-b8d6-5edf2e014420",
5   "FelVidEtableringExternt": false,
6   "Fodelsedata": "1985-06-09",
7   "FolkbokforingsbevakningTillOchMed": "2027-04-11",
8   "Fornamn": "Student",
9   "KonID": 2,
10  "Personnummer": "191234561234",
11  "SenastAndradAv": "system@ladokintern",
12  "SenastSparad": "2026-02-09T21:00:49.778",
13  "Uid": "de709f81-a867-11e7-8dbf-78e86dc2470c"
14 }

```

## 17.2 get\_student\_contact\_data\_JSON

We want to get the contact info for a student from LADOK. This data includes email, postal address and phone number. It also includes when they were last updated.

```

181b <LadokSession data methods 151b>+≡
def get_student_contact_data_JSON(self, student_id: str) -> dict:
    """
    Returns contact data for student with student_id, returns JSON
    """
    try:
        return self.get_query(
            f"/studentinformation/internal/student/{student_id}/kontaktuppgifter",
            "application/vnd.ladok-studentinformation+json"
        )
    except LadokAPIError as err:
        raise LadokAPIError(f"Failed to get contact data for "
                             f"student {student_id}: {err}") from err
    except LadokServerError as err:
        raise LadokServerError(f"LADOK server error when getting contact data for ")

```

```
f"student {student_id}: {err}") from err
```

We test this function.

```
182a <test functions 151a>+≡
def test_get_student_contact_data_JSON() -> None:
    assert ladok.get_student_contact_data_JSON(student_uid)
```

This code is used in chunk 146.

The output is as follows.

```
1 {
2   "Epostadress": "user@domain.se",
3   "EpostadressSenastAndrad": "2018-06-19T17:42:23.441",
4   "LarosateID": -1,
5   "Postadresser": [
6     {
7       "PostadressTyp": "FOLKBOKFORINGSADRESS",
8       "Utdelningsadress": "Stora vägen 1",
9       "Postnummer": "12345",
10      "Postort": "Byn",
11      "Land": "Sverige",
12      "SenastAndrad": "2018-09-21T14:20:24.679"
13    }
14  ],
15  "SenastAndradAv": "informationskonverterare@kth",
16  "SenastSparad": "2018-06-19T17:42:23.457",
17  "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
18  "Telefonnummer": "0701234567",
19  "TelefonnummerSenastAndrad": "2018-06-19T17:42:23.441",
20  "Uid": "2ad333ce-a894-11e7-8f03-147ba8e44f36"
21 }
```

### 17.3 get\_student\_suspensions\_JSON

We want to check if any student is suspended from studies. We can get a list of all suspension periods from LADOK.

```
182b <LadokSession data methods 151b>+≡
def get_student_suspensions_JSON(self, student_id: str) -> dict:
    """
    Returns suspensions from studies for student with student_id,
    returns JSON
    """
    try:
        return self.get_query(
            f"/studentinformation/internal/avstangning/student/{student_id}",
            "application/vnd.ladok-studentinformation+json"
        )
    except LadokAPIError as err:
        raise LadokAPIError(f"Failed to get suspensions for "
                             f"student {student_id}: {err}") from err
    except LadokServerError as err:
```

```
raise LadokServerError(f"LADOK server error when getting suspensions for "
                       f"student {student_id}: {err}") from err
```

We test this function.

183a *<test functions 151a>+≡*

```
def test_get_student_suspensions_JSON() -> None:
    assert ladok.get_student_suspensions_JSON(student_uid)
```

This code is used in chunk 146.

The output looks like this.

```
1 {
2   "Avstangning": []
3 }
```

## 17.4 registrations\_JSON

This methods returns *all* registrations for a student, i.e., registrations on courses and programmes.

183b *<LadokSession data methods 151b>+≡*

```
def registrations_JSON(self, student_id: str) -> list:
    """
    Return all registrations for student with ID student_id.
    """
    data = self.get_query(
        "/studiedeltagande/internal/tillfallesdeltagande/kurstillfallesdeltagande"
        f"/student/{student_id}",
        "application/vnd.ladok-studiedeltagande+json"
    )

    try:
        return data["Tillfallesdeltaganden"]
    except KeyError as err:
        err.add_note(f"Response data: {data}")
        raise LadokAPIError(f"Unexpected response format when fetching registrations for "
                           f"student {student_id}: missing 'Tillfallesdeltaganden' key") from err
```

We provide the following test.

183c *<test functions 151a>+≡*

```
def test_registrations_JSON() -> None:
    results = ladok.registrations_JSON(student_uid)
    assert json.dumps(results, indent=2, ensure_ascii=False)
```

This code is used in chunk 146.

The output looks like this.

```
1 [
2   {
3     "Aterbud": false,
4     "Avklarad": false,
5     "HarTillgodoraknande": false,
6     "LarosateID": 29,
7     "Nuvarande": true,
```

```
8     "Paborjad": true,
9     "Perioddeltaganden": [
10     {
11         "Anpassat": false,
12         "Omfattningsvarde": "0.0",
13         "Periodbenamningar": {},
14         "PerioddeltagandeUID": "e2bbf16e-73db-11e8-b9fd-0a821ba7448e",
15         "Periodindex": 1,
16         "Registreringsperiod": {
17             "Slutdatum": "2014-12-31",
18             "Startdatum": "2014-07-21"
19         },
20         "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
21         "UtbildningsPeriodFran": "2014-07-21",
22         "UtbildningsPeriodTill": "2014-12-31"
23     },
24     {
25         "Anpassat": false,
26         "Omfattningsvarde": "0.0",
27         "Periodbenamningar": {},
28         "PerioddeltagandeUID": "e2bbf16f-73db-11e8-b9fd-0a821ba7448e",
29         "Periodindex": 2,
30         "Registreringsperiod": {
31             "Slutdatum": "2015-06-30",
32             "Startdatum": "2015-01-01"
33         },
34         "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
35         "UtbildningsPeriodFran": "2015-01-01",
36         "UtbildningsPeriodTill": "2015-06-30"
37     },
38     {
39         "Anpassat": false,
40         "Omfattningsvarde": "0.0",
41         "Periodbenamningar": {},
42         "PerioddeltagandeUID": "e2bbf170-73db-11e8-b9fd-0a821ba7448e",
43         "Periodindex": 3,
44         "Registreringsperiod": {
45             "Slutdatum": "2015-12-31",
46             "Startdatum": "2015-07-01"
47         },
48         "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
49         "UtbildningsPeriodFran": "2015-07-01",
50         "UtbildningsPeriodTill": "2015-12-31"
51     },
52     {
53         "Anpassat": false,
54         "Omfattningsvarde": "0.0",
55         "Periodbenamningar": {},
56         "PerioddeltagandeUID": "e2bbf171-73db-11e8-b9fd-0a821ba7448e",
57         "Periodindex": 4,
58         "Registreringsperiod": {
```

```

59         "Slutdatum": "2016-06-30",
60         "Startdatum": "2016-01-01"
61     },
62     "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
63     "UtbildningsPeriodFran": "2016-01-01",
64     "UtbildningsPeriodTill": "2016-06-30"
65 },
66 {
67     "Anpassat": false,
68     "Omfattningsvarde": "0.0",
69     "Periodbenamningar": {},
70     "PerioddeltagandeUID": "e2bbf172-73db-11e8-b9fd-0a821ba7448e",
71     "Periodindex": 5,
72     "Registreringsperiod": {
73         "Slutdatum": "2016-12-31",
74         "Startdatum": "2016-07-01"
75     },
76     "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
77     "UtbildningsPeriodFran": "2016-07-01",
78     "UtbildningsPeriodTill": "2016-12-31"
79 },
80 {
81     "Anpassat": false,
82     "Omfattningsvarde": "0.0",
83     "Periodbenamningar": {},
84     "PerioddeltagandeUID": "e2bbf173-73db-11e8-b9fd-0a821ba7448e",
85     "Periodindex": 6,
86     "Registreringsperiod": {
87         "Slutdatum": "2017-06-30",
88         "Startdatum": "2017-01-01"
89     },
90     "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
91     "UtbildningsPeriodFran": "2017-01-01",
92     "UtbildningsPeriodTill": "2017-06-30"
93 },
94 {
95     "Anpassat": false,
96     "Omfattningsvarde": "0.0",
97     "Periodbenamningar": {},
98     "PerioddeltagandeUID": "e2bbf174-73db-11e8-b9fd-0a821ba7448e",
99     "Periodindex": 7,
100    "Registreringsperiod": {
101        "Slutdatum": "2017-12-31",
102        "Startdatum": "2017-07-01"
103    },
104    "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
105    "UtbildningsPeriodFran": "2017-07-01",
106    "UtbildningsPeriodTill": "2017-12-31"
107 },
108 {
109     "Anpassat": false,

```



```

110     "Omfattningsvarde": "0.0",
111     "Periodbenamningar": {},
112     "PerioddeltagandeUID": "e2bbf175-73db-11e8-b9fd-0a821ba7448e",
113     "Periodindex": 8,
114     "Registreringsperiod": {
115         "Slutdatum": "2018-06-30",
116         "Startdatum": "2018-01-01"
117     },
118     "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
119     "UtbildningsPeriodFran": "2018-01-01",
120     "UtbildningsPeriodTill": "2018-06-30"
121 },
122 {
123     "Anpassat": false,
124     "Omfattningsvarde": "0.0",
125     "Periodbenamningar": {},
126     "PerioddeltagandeUID": "1f617c1b-bfdd-11e8-8049-fd7fef4b484c",
127     "Periodindex": 9,
128     "Registreringsperiod": {
129         "Slutdatum": "2018-12-31",
130         "Startdatum": "2018-07-01"
131     },
132     "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
133     "UtbildningsPeriodFran": "2018-07-01",
134     "UtbildningsPeriodTill": "2018-12-31"
135 },
136 {
137     "Anpassat": false,
138     "Omfattningsvarde": "0.0",
139     "Periodbenamningar": {},
140     "PerioddeltagandeUID": "1f617c1c-bfdd-11e8-8049-fd7fef4b484c",
141     "Periodindex": 10,
142     "Registreringsperiod": {
143         "Slutdatum": "2019-06-30",
144         "Startdatum": "2019-01-01"
145     },
146     "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
147     "UtbildningsPeriodFran": "2019-01-01",
148     "UtbildningsPeriodTill": "2019-06-30"
149 },
150 {
151     "Anpassat": false,
152     "Omfattningsvarde": "0.0",
153     "Periodbenamningar": {},
154     "PerioddeltagandeUID": "a0976dac-b515-11e9-a427-41cc12dd4dc3",
155     "Periodindex": 11,
156     "Registreringsperiod": {
157         "Slutdatum": "2019-12-31",
158         "Startdatum": "2019-07-01"
159     },
160     "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",

```

```

161     "UtbildningsPeriodFran": "2019-07-01",
162     "UtbildningsPeriodTill": "2019-12-31"
163 },
164 {
165     "Anpassat": false,
166     "Omfattningsvarde": "0.0",
167     "Periodbenamningar": {},
168     "PerioddeltagandeUID": "f9598cf9-3158-11ea-88ee-aa17e0384779",
169     "Periodindex": 12,
170     "Registreringsperiod": {
171         "Slutdatum": "2020-06-30",
172         "Startdatum": "2020-01-01"
173     },
174     "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
175     "UtbildningsPeriodFran": "2020-01-01",
176     "UtbildningsPeriodTill": "2020-06-30"
177 }
178 ],
179 "Sparrad": false,
180 "Studiestrukturreferens": "8d2faf86-73d9-11e8-b9fd-0a821ba7448e,null",
181 "SummeradGodkandOmfattning": "0.0",
182 "SummeradHeltTillgodoraknadOmfattning": "0.0",
183 "SummeradTillgodoraknadOmfattning": "0.0",
184 "TillstandKurs": {
185     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.registrerad",
186     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
187     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
188     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
189 },
190 "UId": "e2ba1cad-73db-11e8-b9fd-0a821ba7448e",
191 "Utbildningsinformation": {
192     "AntalPerioder": 12,
193     "Benamning": {
194         "sv": "Doktorsavhandling",
195         "en": "Doctoral thesis"
196     },
197     "Enhetskod": "HP",
198     "LarosateID": 29,
199     "PeriodIOrdning": "0",
200     "Perioder": [
201         {
202             "Index": 1,
203             "Omfattningsvarde": "0.0",
204             "Slutdatum": "2014-12-31",
205             "Startdatum": "2014-07-21",
206             "UId": "89a69d8d-73db-11e8-afa7-8e408e694e54"
207         },
208         {
209             "Index": 2,
210             "Omfattningsvarde": "0.0",
211             "Slutdatum": "2015-06-30",

```

```
212     "Startdatum": "2015-01-01",
213     "Uid": "89a69d8e-73db-11e8-afa7-8e408e694e54"
214 },
215 {
216     "Index": 3,
217     "Omfattningsvarde": "0.0",
218     "Slutdatum": "2015-12-31",
219     "Startdatum": "2015-07-01",
220     "Uid": "89a69d8f-73db-11e8-afa7-8e408e694e54"
221 },
222 {
223     "Index": 4,
224     "Omfattningsvarde": "0.0",
225     "Slutdatum": "2016-06-30",
226     "Startdatum": "2016-01-01",
227     "Uid": "89a69d90-73db-11e8-afa7-8e408e694e54"
228 },
229 {
230     "Index": 5,
231     "Omfattningsvarde": "0.0",
232     "Slutdatum": "2016-12-31",
233     "Startdatum": "2016-07-01",
234     "Uid": "89a69d91-73db-11e8-afa7-8e408e694e54"
235 },
236 {
237     "Index": 6,
238     "Omfattningsvarde": "0.0",
239     "Slutdatum": "2017-06-30",
240     "Startdatum": "2017-01-01",
241     "Uid": "89a69d92-73db-11e8-afa7-8e408e694e54"
242 },
243 {
244     "Index": 7,
245     "Omfattningsvarde": "0.0",
246     "Slutdatum": "2017-12-31",
247     "Startdatum": "2017-07-01",
248     "Uid": "89a69d93-73db-11e8-afa7-8e408e694e54"
249 },
250 {
251     "Index": 8,
252     "Omfattningsvarde": "0.0",
253     "Slutdatum": "2018-06-30",
254     "Startdatum": "2018-01-01",
255     "Uid": "89a69d94-73db-11e8-afa7-8e408e694e54"
256 },
257 {
258     "Index": 9,
259     "Omfattningsvarde": "0.0",
260     "Slutdatum": "2018-12-31",
261     "Startdatum": "2018-07-01",
262     "Uid": "1f28dff3-bfdd-11e8-8180-6b9d2e0d4d07"
```

```

263     },
264     {
265         "Index": 10,
266         "Omfattningsvarde": "0.0",
267         "Slutdatum": "2019-06-30",
268         "Startdatum": "2019-01-01",
269         "UId": "1f28dff4-bfdd-11e8-8180-6b9d2e0d4d07"
270     },
271     {
272         "Index": 11,
273         "Omfattningsvarde": "0.0",
274         "Slutdatum": "2019-12-31",
275         "Startdatum": "2019-07-01",
276         "UId": "9fb60ee3-b515-11e9-9999-748409b84dd2"
277     },
278     {
279         "Index": 12,
280         "Omfattningsvarde": "0.0",
281         "Slutdatum": "2020-06-30",
282         "Startdatum": "2020-01-01",
283         "UId": "f82ad0dd-3158-11ea-a989-1ea254964e91"
284     }
285 ],
286 "SarskildSekretessprovning": false,
287 "StudieordningID": "1",
288 "Studieperiod": {
289     "Slutdatum": "2020-06-30",
290     "Startdatum": "2014-07-21"
291 },
292 "UtbildningUID": "89a64ff2-73db-11e8-b4e0-063f9afb40e3",
293 "UtbildningsinstansUID": "89a67674-73db-11e8-afa7-8e408e694e54",
294 "UtbildningstillfalleUID": "89a64ff3-73db-11e8-b4e0-063f9afb40e3",
295 "Utbildningstillfallestyp": {
296     "Benamningar": {
297         "sv": "Tillfälle för forskningsarbete",
298         "en": "Research project instance"
299     },
300     "Giltighetsperiod": {},
301     "Grundtyp": "KURS",
302     "ID": 101953,
303     "Kod": "2007VFTF",
304     "RegelverkForUtbildningstyp": {
305         "Regelvarden": [
306             {
307                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
308                 "Varde": "grupp.for.utsokning.forskarniva"
309             },
310             {
311                 "Regelnamn": "commons.domain.regel.individuell",
312                 "Varde": "true"
313             }

```

```

314         {
315             "Regelnamn": "commons.domain.regel.studieperiod.kan.laggas.till",
316             "Varde": "true"
317         },
318         {
319             "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
320             "Varde": "true"
321         }
322     ],
323 },
324 "Sjalvstandig": false
325 },
326 "Utbildningstyp": {
327     "Benamningar": {
328         "sv": "Forskningsarbete (utan angiven omfattning)",
329         "en": "Research project (scope not specified)"
330     },
331     "Giltighetsperiod": {},
332     "Grundtyp": "KURS",
333     "ID": 110915,
334     "Kod": "2007VFUO",
335     "RegelverkForUtbildningstyp": {
336         "Regelvarde": [
337             {
338                 "Regelnamn": "commons.domain.regel.ej.angiven.omfattning",
339                 "Varde": "true"
340             },
341             {
342                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
343                 "Varde": "true"
344             },
345             {
346                 "Regelnamn": "commons.domain.regel.dokumentera_beslut_om_resultat",
347                 "Varde": "true"
348             },
349             {
350                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
351                 "Varde": "grupp.for.utsokning.forskarniva"
352             }
353         ]
354     },
355     "Sjalvstandig": true
356 },
357 "Utbildningsversion": 1
358 }
359 },
360 {
361     "Aterbud": false,
362     "Avklarad": true,
363     "Godkannandedatum": "2015-07-03",
364     "HarTillgodoraknande": false,

```

```

365     "LarosateID": 29,
366     "Nuvarande": true,
367     "Paborjad": true,
368     "Perioddeltaganden": [
369       {
370         "Anpassat": false,
371         "Omfattningsvarde": "7.5",
372         "Periodbenamningar": {},
373         "PerioddeltagandeUID": "6a75aa0e-73de-11e8-b9fd-0a821ba7448e",
374         "Periodindex": 1,
375         "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
376         "UtbildningsPeriodFran": "2015-07-01",
377         "UtbildningsPeriodTill": "2015-12-31"
378       }
379     ],
380     "Sparrad": false,
381     "Studiestrukturreferens": "8d2faf86-73d9-11e8-b9fd-0a821ba7448e,null",
382     "SummeradGodkandOmfattning": "7.5",
383     "SummeradHeltTillgodoraknadOmfattning": "0.0",
384     "SummeradTillgodoraknadOmfattning": "0.0",
385     "TillstandKurs": {
386       "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
387       "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
388       "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
389       "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
390     },
391     "Uid": "6a75aa0d-73de-11e8-b9fd-0a821ba7448e",
392     "Utbildningsinformation": {
393       "AntalPerioder": 1,
394       "Benamning": {
395         "sv": "Forskning: teori, metod, praktik",
396         "en": "Research: Theory, Method, Practice"
397       },
398       "Enhetskod": "HP",
399       "LarosateID": 29,
400       "Omfattningsvarde": "7.5",
401       "PeriodIOrdning": "0",
402       "Perioder": [
403         {
404           "Index": 1,
405           "Omfattningsvarde": "7.5",
406           "Slutdatum": "2015-12-31",
407           "Startdatum": "2015-07-01",
408           "Uid": "5b33f7fb-73d9-11e8-afa7-8e408e694e54"
409         }
410       ],
411       "SarskildSekretessprovning": false,
412       "StudieordningID": "1",
413       "Studieperiod": {
414         "Slutdatum": "2015-12-31",
415         "Startdatum": "2015-07-01"

```

```

416 },
417 "UtbildningUID": "98f1e5b6-73d8-11e8-afa7-8e408e694e54",
418 "UtbildningensOmfattningsvarde": "7.5",
419 "UtbildningsinstansUID": "98f19781-73d8-11e8-b4e0-063f9afb40e3",
420 "Utbildningskod": "FDD3001",
421 "UtbildningstillfalleUID": "5b33d0e3-73d9-11e8-b4e0-063f9afb40e3",
422 "Utbildningstillfalleskod": "KT-065EC",
423 "Utbildningstillfallestyp": {
424   "Benamningar": {
425     "sv": "Kurstillfälle, forskarnivå",
426     "en": "Course instance, Third-cycle"
427   },
428   "Giltighetsperiod": {},
429   "Grundtyp": "KURS",
430   "ID": 101955,
431   "Kod": "2007FKTF",
432   "RegelverkForUtbildningstyp": {
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434       {
435         "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
436         "Varde": "true"
437       },
438       {
439         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
440         "Varde": "grupp.for.utsokning.forskarniva"
441       }
442     ]
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445 },
446 "Utbildningstyp": {
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448     "sv": "Kurs, forskarnivå",
449     "en": "Course, Third-cycle"
450   },
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453   "ID": 101954,
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463         "Varde": "true"
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485     "LarosateID": 29,
486     "Nuvarande": true,
487     "Paborjad": true,
488     "Perioddeltaganden": [
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492             "Periodbenamningar": {},
493             "PerioddeltagandeUID": "1a48f70b-73e3-11e8-b9fd-0a821ba7448e",
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496                 "Slutdatum": "2015-12-31",
497                 "Startdatum": "2015-07-01"
498             },
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500             "UtbildningsPeriodFran": "2015-07-01",
501             "UtbildningsPeriodTill": "2015-12-31"
502         }
503     ],
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508     "SummeradTillgodoraknadOmfattning": "0.0",
509     "TillstandKurs": {
510         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
511         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
512         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
513         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
514     },
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517         "AntalPerioder": 1,

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520         "en": "EP2810 Short Project in Network Systems"
521     },
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523     "LarosateID": 29,
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525     "PeriodIOrdning": "0",
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529             "Omfattningsvarde": "3.5",
530             "Slutdatum": "2015-12-31",
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532             "Uid": "94ce0143-73df-11e8-afa7-8e408e694e54"
533         }
534     ],
535     "SarskildSekretessprovning": false,
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538         "Slutdatum": "2015-12-31",
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550         "Giltighetsperiod": {},
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558                     "Varde": "true"
559                 },
560                 {
561                     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
562                     "Varde": "grupp.for.utsokning.forskarniva"
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566                     "Varde": "true"
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568             ]
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590             },
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602 },
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611     "LarosateID": 29,
612     "Nuvarande": true,
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614     "Perioddeltaganden": [
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624   }
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627 "Studiestrukturereferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
628 "SummeradGodkandOmfattning": "7.5",
629 "SummeradHeltTillgodoraknadOmfattning": "0.0",
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633   "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
634   "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
635   "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
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645   "FinansieringsformID": 101050,
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655       "Uid": "9b6624da-73d9-11e8-afa7-8e408e694e54"
656     }
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661     "en": "Stockholm"
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663   "Studielokaliseringrepresentation": {
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666       "en": "Stockholm"
667     },
668     "Giltighetsperiod": {
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670       "Startdatum": "1917-10-19"

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680 "Studietakt": {
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683         "en": "Full-time"
684     },
685     "Takt": 100
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687 "Undervisningsform": {
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689         "sv": "Normal",
690         "en": "Normal teaching"
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704         "en": "Course instance, Undergraduate"
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706     "Giltighetsperiod": {},
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708     "ID": 101374,
709     "Kod": "1993GKTF",
710     "RegelverkForUtbildningstyp": {
711         "Regelvarden": [
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714                 "Varde": "grupp.for.utsokning.grundavanceradniva"
715             },
716             {
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718                 "Varde": "true"
719             }
720         ]
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727         "en": "Course, Undergraduate"
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732     "Kod": "1993GKURS",
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741                 "Varde": "20"
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746             }
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759     "LarosateID": 29,
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761     "Paborjad": true,
762     "Perioddeltaganden": [
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771             "UtbildningsPeriodTill": "2007-05-28"
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776 "SummeradGodkandOmfattning": "6.0",
777 "SummeradHeltTillgodoraknadOmfattning": "0.0",
778 "SummeradTillgodoraknadOmfattning": "0.0",
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781   "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
782   "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
783   "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
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792   "Enhetskod": "HP-K",
793   "FinansieringsformID": 101050,
794   "LarosateID": 29,
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804     }
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809     "en": "Stockholm"
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818       "Startdatum": "1917-10-19"
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831             "en": "Full-time"
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833         "Takt": 100
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835     "Undervisningsform": {
836         "Benamningar": {
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838             "en": "Normal teaching"
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856         "ID": 101374,
857         "Kod": "1993GKTF",
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863                 },
864                 {
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868             ]
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886         },
887         {
888             "Regelnamn": "commons.domain.regel.avbrottsregel",
889             "Varde": "20"
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898 },
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907     "LarosateID": 29,
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918             "UtbildningsPeriodFran": "2006-08-30",
919             "UtbildningsPeriodTill": "2007-01-16"
920         }
921     ],
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930         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
931         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
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934     "Utbildningsinformation": {
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938             "en": "Mathematics 2"
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941         "FinansieringsformID": 101050,
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952             }
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957             "en": "Stockholm"
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995 "UtbildningstillfalleUID": "fe150cf6-73d9-11e8-b4e0-063f9afb40e3",
996 "Utbildningstillfalleskod": "Y0013",
997 "Utbildningstillfallestyp": {
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1000         "en": "Course instance, Undergraduate"
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1006     "RegelverkForUtbildningstyp": {
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1014                 "Varde": "true"
1015             }
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1017     },
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1021     "Benamningar": {
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1026     "Grundtyp": "KURS",
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1037           "Varde": "20"
1038         },
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1046   },
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1049 },
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1054   "HarTillgodoraknande": true,
1055   "LarosateID": 29,
1056   "Nuvarande": true,
1057   "Paborjad": true,
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1077       "UtbildningsPeriodTill": "2007-05-28"
1078     }

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1084 "SummeradTillgodoraknadOmfattning": "15.0",
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1088   "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
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1099   "FinansieringsformID": 101050,
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1171     "RegelverkForUtbildningstyp": {
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1175                 "Varde": "grupp.for.utsokning.grundavanceradniva"
1176             },
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1178                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1179                 "Varde": "true"
1180             }

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1221   "Paborjad": true,
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1241   "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
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1252   "FinansieringsformID": 131711,
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1264   ],
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1297             "en": "Distance learning"
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1305     "Utbildningskod": "5B1144",
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1326                 }
1327             ]
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1330     },
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1389       "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
1390     },
1391     "UId": "98b7c41e-73f2-11e8-b9fd-0a821ba7448e",
1392     "Utbildningsinformation": {
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1396         "en": "Preparatory Course in Mathematics"
1397       },
1398       "Enhetskod": "HP-K",
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1420       "Utbildningskod": "5B1144",
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1441     }
1442 ]
1443 },
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1445 },
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1460             },
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1464             },
1465             {
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1468             }
1469         ]
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1472 },
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1474 }
1475 },
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1480     "LarosateID": 29,
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1492     "UtbildningsPeriodTill": "2005-06-04"
1493   }
1494 ],
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1497 "SummeradHeltTillgodoraknadOmfattning": "0.0",
1498 "SummeradTillgodoraknadOmfattning": "0.0",
1499 "TillstandKurs": {
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1501   "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
1502   "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
1503   "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
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1505 "UId": "98c335ce-73f2-11e8-b9fd-0a821ba7448e",
1506 "Utbildningsinformation": {
1507   "AntalPerioder": 1,
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1510     "en": "Extended Preparation Course in Mathematics"
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1513   "FinansieringsformID": 131711,
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1524     }
1525   ],
1526   "SarskildSekretessprovning": false,
1527   "Studielokalisering": {
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1529     "en": "Stockholm"
1530   },
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1546     "Startdatum": "2005-01-17"
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1551         "en": "Full-time"
1552     },
1553     "Takt": 100
1554 },
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1558         "en": "Distance learning"
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1566 "Utbildningskod": "5B1145",
1567 "UtbildningstillfalleUID": "fe735a24-73d9-11e8-b4e0-063f9afb40e3",
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1572         "en": "Course instance, Undergraduate"
1573     },
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1586                 "Varde": "true"
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1595         "en": "Course, Undergraduate"
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1637             "Tillstand": "studiedeltagande.domain.tillstandsdefinition.omregistrerad",
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1645 "SummeradTillgodoraknadOmfattning": "0.0",
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1647   "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.omregistrerad",
1648   "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.omregistrerad",
1649   "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
1650   "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
1651 },
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1657     "en": "Extended Preparation Course in Mathematics"
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1670     }
1671   ],
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1677   },
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1702             }
1703         ]
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1710         "en": "Course, Undergraduate"
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1724                 "Varde": "20"
1725             },
1726             {
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1728                 "Varde": "grupp.for.utsokning.grundavanceradniva"
1729             }
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1739     "Avklarad": true,
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1741     "HarTillgodoraknande": false,

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1836         },
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1839         "ID": 101374,
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1841         "RegelverkForUtbildningstyp": {
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1935     }
1936   ],
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1962         "en": "Full-time"
1963     },
1964     "Takt": 100
1965 },
1966 "Undervisningsform": {
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1969         "en": "Normal teaching"
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1993                 "Varde": "true"
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2080     ],
2081     "Sparrad": false,
2082     "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
2083     "SummeradGodkandOmfattning": "6.0",
2084     "SummeradHeltTillgodoraknadOmfattning": "0.0",
2085     "SummeradTillgodoraknadOmfattning": "0.0",
2086     "TillstandKurs": {
2087         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
2088         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
2089         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
2090         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
2091     },
2092     "Uid": "98eeb290-73f2-11e8-b9fd-0a821ba7448e",
2093     "Utbildningsinformation": {
2094         "AntalPerioder": 1,
2095         "Benamning": {
2096             "sv": "Databasteknik",
2097             "en": "Database Technology"
2098         }

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2099     "Enhetskod": "HP",
2100     "FinansieringsformID": 101050,
2101     "LarosateID": 29,
2102     "Omfattningsvarde": "6.0",
2103     "PeriodIOrdning": "0",
2104     "Perioder": [
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2107             "Omfattningsvarde": "6.0",
2108             "Slutdatum": "2009-05-27",
2109             "Startdatum": "2009-01-12",
2110             "Uid": "77a002c7-73da-11e8-afa7-8e408e694e54"
2111         }
2112     ],
2113     "SarskildSekretessprovning": false,
2114     "Studielokalisering": {
2115         "sv": "Stockholm",
2116         "en": "Stockholm"
2117     },
2118     "Studielokaliseringrepresentation": {
2119         "Benamningar": {
2120             "sv": "Stockholm",
2121             "en": "Stockholm"
2122         },
2123         "Giltighetsperiod": {
2124             "Slutdatum": "2019-01-14",
2125             "Startdatum": "1917-10-19"
2126         },
2127         "ID": 131778,
2128         "Kod": "0180"
2129     },
2130     "StudieordningID": "1",
2131     "Studieperiod": {
2132         "Slutdatum": "2009-05-27",
2133         "Startdatum": "2009-01-12"
2134     },
2135     "Studietakt": {
2136         "Benamning": {
2137             "sv": "Helfart",
2138             "en": "Full-time"
2139         },
2140         "Takt": 100
2141     },
2142     "Undervisningsform": {
2143         "Benamningar": {
2144             "sv": "Normal",
2145             "en": "Normal teaching"
2146         },
2147         "Giltighetsperiod": {},
2148         "ID": 1
2149     },

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2150     "UtbildningUID": "38cd51a2-73d8-11e8-afa7-8e408e694e54",
2151     "UtbildningensOmfattningsvarde": "6.0",
2152     "UtbildningsinstansUID": "38c00b22-73d8-11e8-b4e0-063f9afb40e3",
2153     "Utbildningskod": "DD1334",
2154     "UtbildningstillfalleUID": "779fb4b1-73da-11e8-b4e0-063f9afb40e3",
2155     "Utbildningstillfalleskod": "60243",
2156     "Utbildningstillfallestyp": {
2157         "Benamningar": {
2158             "sv": "Kurstillfälle",
2159             "en": "Course instance"
2160         },
2161         "Giltighetsperiod": {},
2162         "Grundtyp": "KURS",
2163         "ID": 52,
2164         "Kod": "2007KTF",
2165         "RegelverkForUtbildningstyp": {
2166             "Regelvarde": [
2167                 {
2168                     "Regelnamn": "commons.domain.regel.kan.utannonseras",
2169                     "Varde": "true"
2170                 },
2171                 {
2172                     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2173                     "Varde": "grupp.for.utsokning.grundavanceradniva"
2174                 },
2175                 {
2176                     "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
2177                     "Varde": "true"
2178                 },
2179                 {
2180                     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2181                     "Varde": "true"
2182                 },
2183                 {
2184                     "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
2185                     "Varde": "varning"
2186                 }
2187             ]
2188         },
2189         "Sjalvstandig": false
2190     },
2191     "Utbildningstyp": {
2192         "Benamningar": {
2193             "sv": "Kurs, grundnivå",
2194             "en": "Course, First-cycle"
2195         },
2196         "Giltighetsperiod": {},
2197         "Grundtyp": "KURS",
2198         "ID": 22,
2199         "Kod": "2007GKURS",
2200         "RegelverkForUtbildningstyp": {

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2203         "Regelnamn": "commons.domain.regel.avbrottsregel",
2204         "Varde": "20"
2205       },
2206       {
2207         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
2208         "Varde": "true"
2209       },
2210       {
2211         "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
2212         "Varde": "true"
2213       },
2214       {
2215         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2216         "Varde": "grupp.for.utsokning.grundavanceradniva"
2217       },
2218       {
2219         "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
2220         "Varde": "true"
2221       },
2222       {
2223         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
2224         "Varde": "true"
2225       },
2226       {
2227         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2228         "Varde": "true"
2229       }
2230     ]
2231   },
2232   "Sjalvstandig": true
2233 },
2234 "Utbildningsversion": 1
2235 }
2236 },
2237 {
2238   "Aterbud": false,
2239   "Avklarad": false,
2240   "HarTillgodoraknande": false,
2241   "LarosateID": 29,
2242   "Nuvarande": true,
2243   "Paborjad": true,
2244   "Perioddeltaganden": [
2245     {
2246       "Anpassat": false,
2247       "Omfattningsvarde": "7.5",
2248       "Periodbenamningar": {},
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2253         "UtbildningsPeriodTill": "2009-01-10"
2254     }
2255 ],
2256 "Sparrad": false,
2257 "Studiestrukturereferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
2258 "SummeradGodkandOmfattning": "3.0",
2259 "SummeradHeltTillgodoraknadOmfattning": "0.0",
2260 "SummeradTillgodoraknadOmfattning": "0.0",
2261 "TillstandKurs": {
2262     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.registrerad",
2263     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
2264     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
2265     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
2266 },
2267 "UId": "98f8768b-73f2-11e8-b9fd-0a821ba7448e",
2268 "Utbildningsinformation": {
2269     "AntalPerioder": 1,
2270     "Benamning": {
2271         "sv": "Programmeringsparadigm",
2272         "en": "Programming Paradigms"
2273     },
2274     "Enhetskod": "HP",
2275     "FinansieringsformID": 101050,
2276     "LarosateID": 29,
2277     "Omfattningsvarde": "7.5",
2278     "PeriodIOrdning": "0",
2279     "Perioder": [
2280         {
2281             "Index": 1,
2282             "Omfattningsvarde": "7.5",
2283             "Slutdatum": "2009-01-10",
2284             "Startdatum": "2008-08-29",
2285             "UId": "7813faec-73da-11e8-afa7-8e408e694e54"
2286         }
2287     ],
2288     "SarskildSekretessprovning": false,
2289     "Studielokalisering": {
2290         "sv": "Stockholm",
2291         "en": "Stockholm"
2292     },
2293     "Studielokaliseringrepresentation": {
2294         "Benamningar": {
2295             "sv": "Stockholm",
2296             "en": "Stockholm"
2297         },
2298         "Giltighetsperiod": {
2299             "Slutdatum": "2019-01-14",
2300             "Startdatum": "1917-10-19"
2301         },
2302         "ID": 131778,
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2303     "Kod": "0180"
2304 },
2305 "StudieordningID": "1",
2306 "Studieperiod": {
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2308     "Startdatum": "2008-08-29"
2309 },
2310 "Studietakt": {
2311     "Benamning": {
2312         "sv": "Helfart",
2313         "en": "Full-time"
2314     },
2315     "Takt": 100
2316 },
2317 "Undervisningsform": {
2318     "Benamningar": {
2319         "sv": "Normal",
2320         "en": "Normal teaching"
2321     },
2322     "Giltighetsperiod": {},
2323     "ID": 1
2324 },
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2326 "UtbildningensOmfattningsvarde": "7.5",
2327 "UtbildningsinstansUID": "38fec21a-73d8-11e8-b4e0-063f9afb40e3",
2328 "Utbildningskod": "DD1361",
2329 "UtbildningstillfalleUID": "781385bf-73da-11e8-b4e0-063f9afb40e3",
2330 "Utbildningstillfalleskod": "51003",
2331 "Utbildningstillfallestyp": {
2332     "Benamningar": {
2333         "sv": "Kurstillfälle",
2334         "en": "Course instance"
2335     },
2336     "Giltighetsperiod": {},
2337     "Grundtyp": "KURS",
2338     "ID": 52,
2339     "Kod": "2007KTF",
2340     "RegelverkForUtbildningstyp": {
2341         "Regelvarde": [
2342             {
2343                 "Regelnamn": "commons.domain.regel.kan.utannonseras",
2344                 "Varde": "true"
2345             },
2346             {
2347                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2348                 "Varde": "grupp.for.utsokning.grundavanceradniva"
2349             },
2350             {
2351                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
2352                 "Varde": "true"
2353             }

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2354     {
2355       "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2356       "Varde": "true"
2357     },
2358     {
2359       "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
2360       "Varde": "varning"
2361     }
2362   ]
2363 },
2364 "Sjalvstandig": false
2365 },
2366 "Utbildningstyp": {
2367   "Benamningar": {
2368     "sv": "Kurs, grundnivå",
2369     "en": "Course, First-cycle"
2370   },
2371   "Giltighetsperiod": {},
2372   "Grundtyp": "KURS",
2373   "ID": 22,
2374   "Kod": "2007GKURS",
2375   "RegelverkForUtbildningstyp": {
2376     "Regelvarde": [
2377       {
2378         "Regelnamn": "commons.domain.regel.avbrottsregel",
2379         "Varde": "20"
2380       },
2381       {
2382         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
2383         "Varde": "true"
2384       },
2385       {
2386         "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
2387         "Varde": "true"
2388       },
2389       {
2390         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2391         "Varde": "grupp.for.utsokning.grundavanceradniva"
2392       },
2393       {
2394         "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
2395         "Varde": "true"
2396       },
2397       {
2398         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
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2400       },
2401       {
2402         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2403         "Varde": "true"
2404       }
2405     ]
2406   }
2407 }
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2405         ]
2406     },
2407     "Sjalvstandig": true
2408 },
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2410 }
2411 },
2412 {
2413     "Aterbud": false,
2414     "Avklarad": false,
2415     "HarTillgodoraknande": false,
2416     "LarosateID": 29,
2417     "Nuvarande": true,
2418     "Paborjad": true,
2419     "Perioddeltaganden": [
2420     {
2421         "Anpassat": false,
2422         "Omfattningsvarde": "6.0",
2423         "Periodbenamningar": {},
2424         "PerioddeltagandeUID": "99056efc-73f2-11e8-b9fd-0a821ba7448e",
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2426         "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
2427         "UtbildningsPeriodFran": "2010-08-27",
2428         "UtbildningsPeriodTill": "2011-01-07"
2429     }
2430 ],
2431     "Sparrad": false,
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2434     "SummeradHeltTillgodoraknadOmfattning": "0.0",
2435     "SummeradTillgodoraknadOmfattning": "0.0",
2436     "TillstandKurs": {
2437         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.registrerad",
2438         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
2439         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
2440         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
2441     },
2442     "UId": "99056ef6-73f2-11e8-b9fd-0a821ba7448e",
2443     "Utbildningsinformation": {
2444         "AntalPerioder": 1,
2445         "Benamning": {
2446             "sv": "Algoritmer och komplexitet",
2447             "en": "Algorithms and Complexity"
2448         },
2449         "Enhetskod": "HP",
2450         "FinansieringsformID": 101050,
2451         "LarosateID": 29,
2452         "Omfattningsvarde": "6.0",
2453         "PeriodIOrdning": "0",
2454         "Perioder": [
2455             {

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2456         "Index": 1,
2457         "Omfattningsvarde": "6.0",
2458         "Slutdatum": "2011-01-07",
2459         "Startdatum": "2010-08-27",
2460         "Uid": "794a574e-73da-11e8-afa7-8e408e694e54"
2461     }
2462 ],
2463 "SarskildSekretessprovning": false,
2464 "Studielokalisering": {
2465     "sv": "Stockholm",
2466     "en": "Stockholm"
2467 },
2468 "Studielokaliseringrepresentation": {
2469     "Benamningar": {
2470         "sv": "Stockholm",
2471         "en": "Stockholm"
2472     },
2473     "Giltighetsperiod": {
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2475         "Startdatum": "1917-10-19"
2476     },
2477     "ID": 131778,
2478     "Kod": "0180"
2479 },
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2483     "Startdatum": "2010-08-27"
2484 },
2485 "Studietakt": {
2486     "Benamning": {
2487         "sv": "Helfart",
2488         "en": "Full-time"
2489     },
2490     "Takt": 100
2491 },
2492 "Undervisningsform": {
2493     "Benamningar": {
2494         "sv": "Normal",
2495         "en": "Normal teaching"
2496     },
2497     "Giltighetsperiod": {},
2498     "ID": 1
2499 },
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2501 "UtbildningensOmfattningsvarde": "6.0",
2502 "UtbildningsinstansUID": "3981d461-73d8-11e8-b4e0-063f9afb40e3",
2503 "Utbildningskod": "DD2354",
2504 "UtbildningstillfalleUID": "794a09c3-73da-11e8-b4e0-063f9afb40e3",
2505 "Utbildningstillfalleskod": "X0104",
2506 "Utbildningstillfallestyp": {

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2507     "Benamningar": {
2508         "sv": "Kurstillfälle",
2509         "en": "Course instance"
2510     },
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2513     "ID": 52,
2514     "Kod": "2007KTF",
2515     "RegelverkForUtbildningstyp": {
2516         "Regelvarden": [
2517             {
2518                 "Regelnamn": "commons.domain.regel.kan.utannonseras",
2519                 "Varde": "true"
2520             },
2521             {
2522                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2523                 "Varde": "grupp.for.utsokning.grundavanceradniva"
2524             },
2525             {
2526                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
2527                 "Varde": "true"
2528             },
2529             {
2530                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2531                 "Varde": "true"
2532             },
2533             {
2534                 "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
2535                 "Varde": "varning"
2536             }
2537         ]
2538     },
2539     "Själavstandig": false
2540 },
2541 "Utbildningstyp": {
2542     "Benamningar": {
2543         "sv": "Kurs, avancerad nivå",
2544         "en": "Course, Second-cycle"
2545     },
2546     "Giltighetsperiod": {},
2547     "Grundtyp": "KURS",
2548     "ID": 24,
2549     "Kod": "2007AKURS",
2550     "RegelverkForUtbildningstyp": {
2551         "Regelvarden": [
2552             {
2553                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2554                 "Varde": "grupp.for.utsokning.grundavanceradniva"
2555             },
2556             {
2557                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",

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2558         "Varde": "true"
2559     },
2560     {
2561         "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
2562         "Varde": "true"
2563     },
2564     {
2565         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
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2567     },
2568     {
2569         "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
2570         "Varde": "true"
2571     },
2572     {
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2574         "Varde": "20"
2575     },
2576     {
2577         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
2578         "Varde": "true"
2579     }
2580 ]
2581 },
2582 "Sjalvstandig": true
2583 },
2584 "Utbildningsversion": 1
2585 }
2586 },
2587 {
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2589     "Avklarad": true,
2590     "Godkannandedatum": "2008-04-04",
2591     "HarTillgodoraknande": false,
2592     "LarosateID": 29,
2593     "Nuvarande": true,
2594     "Paborjad": true,
2595     "Perioddeltaganden": [
2596     {
2597         "Anpassat": false,
2598         "Omfattningsvarde": "7.5",
2599         "Periodbenamningar": {},
2600         "PerioddeltagandeUID": "9916d48e-73f2-11e8-b9fd-0a821ba7448e",
2601         "Periodindex": 1,
2602         "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
2603         "UtbildningsPeriodFran": "2008-01-14",
2604         "UtbildningsPeriodTill": "2008-05-26"
2605     }
2606 ],
2607 "Sparrad": false,
2608 "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e"

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"SummeradTillgodoraknadOmfattning": "0.0",
"TillstandKurs": {
  "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
  "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
  "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
  "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
},
"UId": "9916866c-73f2-11e8-b9fd-0a821ba7448e",
"Utbildningsinformation": {
  "AntalPerioder": 1,
  "Benamning": {
    "sv": "Maskinnära programmering och datorarkitektur",
    "en": "Low Level Programming and Computer Architecture"
  },
  "Enhetskod": "HP",
  "FinansieringsformID": 101050,
  "LarosateID": 29,
  "Omfattningsvarde": "7.5",
  "PeriodIOrdning": "0",
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      "Index": 1,
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      "Slutdatum": "2008-05-26",
      "Startdatum": "2008-01-14",
      "UId": "795d6a06-73da-11e8-afa7-8e408e694e54"
    }
  ],
  "SarskildSekretessprovning": false,
  "Studielokalisering": {
    "sv": "Stockholm",
    "en": "Stockholm"
  },
  "Studielokaliseringrepresentation": {
    "Benamningar": {
      "sv": "Stockholm",
      "en": "Stockholm"
    },
    "Giltighetsperiod": {
      "Slutdatum": "2019-01-14",
      "Startdatum": "1917-10-19"
    },
    "ID": 131778,
    "Kod": "0180"
  },
  "StudieordningID": "1",
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2660 },
2661 "Studietakt": {
2662   "Benamning": {
2663     "sv": "Helfart",
2664     "en": "Full-time"
2665   },
2666   "Takt": 100
2667 },
2668 "Undervisningsform": {
2669   "Benamningar": {
2670     "sv": "Normal",
2671     "en": "Normal teaching"
2672   },
2673   "Giltighetsperiod": {},
2674   "ID": 1
2675 },
2676 "UtbildningUID": "39aba39c-73d8-11e8-afa7-8e408e694e54",
2677 "UtbildningensOmfattningsvarde": "7.5",
2678 "UtbildningsinstansUID": "399d99ec-73d8-11e8-b4e0-063f9afb40e3",
2679 "Utbildningskod": "DD2377",
2680 "UtbildningstillfalleUID": "795cf5a4-73da-11e8-b4e0-063f9afb40e3",
2681 "Utbildningstillfalleskod": "DD030",
2682 "Utbildningstillfallestyp": {
2683   "Benamningar": {
2684     "sv": "Kurstillfälle",
2685     "en": "Course instance"
2686   },
2687   "Giltighetsperiod": {},
2688   "Grundtyp": "KURS",
2689   "ID": 52,
2690   "Kod": "2007KTF",
2691   "RegelverkForUtbildningstyp": {
2692     "Regelvarde": [
2693       {
2694         "Regelnamn": "commons.domain.regel.kan.utannonseras",
2695         "Varde": "true"
2696       },
2697       {
2698         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2699         "Varde": "grupp.for.utsokning.grundavanceradniva"
2700       },
2701       {
2702         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
2703         "Varde": "true"
2704       },
2705       {
2706         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2707         "Varde": "true"
2708       },
2709       {
2710         "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",

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2711         "Varde": "varning"
2712     }
2713 ]
2714 },
2715 "Sjalvstandig": false
2716 },
2717 "Utbildningstyp": {
2718     "Benamningar": {
2719         "sv": "Kurs, avancerad nivå",
2720         "en": "Course, Second-cycle"
2721     },
2722     "Giltighetsperiod": {},
2723     "Grundtyp": "KURS",
2724     "ID": 24,
2725     "Kod": "2007AKURS",
2726     "RegelverkForUtbildningstyp": {
2727         "Regelvarde": [
2728             {
2729                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2730                 "Varde": "grupp.for.utsokning.grundavanceradniva"
2731             },
2732             {
2733                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2734                 "Varde": "true"
2735             },
2736             {
2737                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
2738                 "Varde": "true"
2739             },
2740             {
2741                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
2742                 "Varde": "true"
2743             },
2744             {
2745                 "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
2746                 "Varde": "true"
2747             },
2748             {
2749                 "Regelnamn": "commons.domain.regel.avbrottsregel",
2750                 "Varde": "20"
2751             },
2752             {
2753                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
2754                 "Varde": "true"
2755             }
2756         ]
2757     },
2758     "Sjalvstandig": true
2759 },
2760 "Utbildningsversion": 1
2761 }

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2762 },
2763 {
2764   "Aterbud": false,
2765   "Avklarad": false,
2766   "HarTillgodoraknande": false,
2767   "LarosateID": 29,
2768   "Nuvarande": true,
2769   "Paborjad": true,
2770   "Perioddeltaganden": [
2771     {
2772       "Anpassat": false,
2773       "Omfattningsvarde": "6.0",
2774       "Periodbenamningar": {},
2775       "PerioddeltagandeUID": "991f5f8f-73f2-11e8-b9fd-0a821ba7448e",
2776       "Periodindex": 1,
2777       "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
2778       "UtbildningsPeriodFran": "2009-08-28",
2779       "UtbildningsPeriodTill": "2009-10-25"
2780     }
2781   ],
2782   "Sparrad": false,
2783   "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
2784   "SummeradGodkandOmfattning": "0.0",
2785   "SummeradHeltTillgodoraknadOmfattning": "0.0",
2786   "SummeradTillgodoraknadOmfattning": "0.0",
2787   "TillstandKurs": {
2788     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.registrerad",
2789     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
2790     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
2791     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
2792   },
2793   "UId": "991f387c-73f2-11e8-b9fd-0a821ba7448e",
2794   "Utbildningsinformation": {
2795     "AntalPerioder": 1,
2796     "Benamning": {
2797       "sv": "Artificiell intelligens",
2798       "en": "Artificial Intelligence"
2799     },
2800     "Enhetskod": "HP",
2801     "FinansieringsformID": 101050,
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2803     "Omfattningsvarde": "6.0",
2804     "PeriodIOrdning": "0",
2805     "Perioder": [
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2807         "Index": 1,
2808         "Omfattningsvarde": "6.0",
2809         "Slutdatum": "2009-10-25",
2810         "Startdatum": "2009-08-28",
2811         "UId": "796161c6-73da-11e8-afa7-8e408e694e54"
2812       }

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2813 ],
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2816   "sv": "Stockholm",
2817   "en": "Stockholm"
2818 },
2819 "Studielokaliseringrepresentation": {
2820   "Benamningar": {
2821     "sv": "Stockholm",
2822     "en": "Stockholm"
2823   },
2824   "Giltighetsperiod": {
2825     "Slutdatum": "2019-01-14",
2826     "Startdatum": "1917-10-19"
2827   },
2828   "ID": 131778,
2829   "Kod": "0180"
2830 },
2831 "StudieordningID": "1",
2832 "Studieperiod": {
2833   "Slutdatum": "2009-10-25",
2834   "Startdatum": "2009-08-28"
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2836 "Studietakt": {
2837   "Benamning": {
2838     "sv": "Helfart",
2839     "en": "Full-time"
2840   },
2841   "Takt": 100
2842 },
2843 "Undervisningsform": {
2844   "Benamningar": {
2845     "sv": "Normal",
2846     "en": "Normal teaching"
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2852 "UtbildningensOmfattningsvarde": "6.0",
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2854 "Utbildningskod": "DD2380",
2855 "UtbildningstillfalleUID": "79613b68-73da-11e8-b4e0-063f9afb40e3",
2856 "Utbildningstillfalleskod": "70325",
2857 "Utbildningstillfallestyp": {
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2863   "Grundtyp": "KURS",

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2870                 "Varde": "true"  
2871             },  
2872             {  
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2874                 "Varde": "grupp.for.utsokning.grundavanceradniva"  
2875             },  
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2879             },  
2880             {  
2881                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",  
2882                 "Varde": "true"  
2883             },  
2884             {  
2885                 "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",  
2886                 "Varde": "varning"  
2887             }  
2888         ]  
2889     },  
2890     "Sj Alvstandig": false  
2891 },  
2892 "Utbildningstyp": {  
2893     "Benamningar": {  
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2895         "en": "Course, Second-cycle"  
2896     },  
2897     "Giltighetsperiod": {},  
2898     "Grundtyp": "KURS",  
2899     "ID": 24,  
2900     "Kod": "2007AKURS",  
2901     "RegelverkForUtbildningstyp": {  
2902         "Regelvarden": [  
2903             {  
2904                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",  
2905                 "Varde": "grupp.for.utsokning.grundavanceradniva"  
2906             },  
2907             {  
2908                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",  
2909                 "Varde": "true"  
2910             },  
2911             {  
2912                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",  
2913                 "Varde": "true"  
2914             },
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2919         {
2920             "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
2921             "Varde": "true"
2922         },
2923         {
2924             "Regelnamn": "commons.domain.regel.avbrottsregel",
2925             "Varde": "20"
2926         },
2927         {
2928             "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
2929             "Varde": "true"
2930         }
2931     ]
2932 },
2933 "Sjalvstandig": true
2934 },
2935 "Utbildningsversion": 1
2936 }
2937 },
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2940     "Avklarad": true,
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2942     "HarTillgodoraknande": false,
2943     "LarosateID": 29,
2944     "Nuvarande": true,
2945     "Paborjad": true,
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2949             "Omfattningsvarde": "6.0",
2950             "Periodbenamningar": {},
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2955             "UtbildningsPeriodTill": "2010-05-29"
2956         }
2957     ],
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2959     "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
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2961     "SummeradHeltTillgodoraknadOmfattning": "0.0",
2962     "SummeradTillgodoraknadOmfattning": "0.0",
2963     "TillstandKurs": {
2964         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
2965         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",

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2966     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
2967     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
2968 },
2969 "UId": "9933d259-73f2-11e8-b9fd-0a821ba7448e",
2970 "Utbildningsinformation": {
2971     "AntalPerioder": 1,
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2974         "en": "Software Engineering"
2975     },
2976     "Enhetskod": "HP",
2977     "FinansieringsformID": 101050,
2978     "LarosateID": 29,
2979     "Omfattningsvarde": "6.0",
2980     "PeriodIOrdning": "0",
2981     "Perioder": [
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2987             "UId": "79727980-73da-11e8-afa7-8e408e694e54"
2988         }
2989     ],
2990     "SarskildSekretessprovning": false,
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2993         "en": "Stockholm"
2994     },
2995     "Studielokaliseringrepresentation": {
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2998             "en": "Stockholm"
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3005         "Kod": "0180"
3006     },
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3008     "Studieperiod": {
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3010         "Startdatum": "2010-03-22"
3011     },
3012     "Studietakt": {
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3015             "en": "Half-time"
3016         },

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3022         "en": "Normal teaching"
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3024     "Giltighetsperiod": {},
3025     "ID": 1
3026 },
3027 "UtbildningUID": "39bae5cd-73d8-11e8-afa7-8e408e694e54",
3028 "UtbildningensOmfattningsvarde": "6.0",
3029 "UtbildningsinstansUID": "39ca9d4d-73d8-11e8-afa7-8e408e694e54",
3030 "Utbildningskod": "DD2385",
3031 "UtbildningstillfalleUID": "7972045d-73da-11e8-b4e0-063f9afb40e3",
3032 "Utbildningstillfalleskod": "80167",
3033 "Utbildningstillfallestyp": {
3034     "Benamningar": {
3035         "sv": "Kurstillfälle",
3036         "en": "Course instance"
3037     },
3038     "Giltighetsperiod": {},
3039     "Grundtyp": "KURS",
3040     "ID": 52,
3041     "Kod": "2007KTF",
3042     "RegelverkForUtbildningstyp": {
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3044             {
3045                 "Regelnamn": "commons.domain.regel.kan.utannonseras",
3046                 "Varde": "true"
3047             },
3048             {
3049                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3050                 "Varde": "grupp.for.utsokning.grundavanceradniva"
3051             },
3052             {
3053                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3054                 "Varde": "true"
3055             },
3056             {
3057                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3058                 "Varde": "true"
3059             },
3060             {
3061                 "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
3062                 "Varde": "varning"
3063             }
3064         ]
3065     },
3066     "Själavstandig": false
3067 },

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3068     "Utbildningstyp": {
3069       "Benamningar": {
3070         "sv": "Kurs, avancerad nivå",
3071         "en": "Course, Second-cycle"
3072       },
3073       "Giltighetsperiod": {},
3074       "Grundtyp": "KURS",
3075       "ID": 24,
3076       "Kod": "2007AKURS",
3077       "RegelverkForUtbildningstyp": {
3078         "Regelvarden": [
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3080             "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3081             "Varde": "grupp.for.utsokning.grundavanceradniva"
3082           },
3083           {
3084             "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3085             "Varde": "true"
3086           },
3087           {
3088             "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
3089             "Varde": "true"
3090           },
3091           {
3092             "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3093             "Varde": "true"
3094           },
3095           {
3096             "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
3097             "Varde": "true"
3098           },
3099           {
3100             "Regelnamn": "commons.domain.regel.avbrottsregel",
3101             "Varde": "20"
3102           },
3103           {
3104             "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
3105             "Varde": "true"
3106           }
3107         ]
3108       },
3109       "Sjalvstandig": true
3110     },
3111     "Utbildningsversion": 2
3112   }
3113 },
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3116   "Avklarad": true,
3117   "Godkannandedatum": "2010-04-07",
3118   "HarTillgodoraknande": false,

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3125         "Omfattningsvarde": "6.0",
3126         "Periodbenamningar": {},
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3128         "Periodindex": 1,
3129         "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
3130         "UtbildningsPeriodFran": "2010-01-18",
3131         "UtbildningsPeriodTill": "2010-03-21"
3132       }
3133     ],
3134     "Sparrad": false,
3135     "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
3136     "SummeradGodkandOmfattning": "6.0",
3137     "SummeradHeltTillgodoraknadOmfattning": "0.0",
3138     "SummeradTillgodoraknadOmfattning": "0.0",
3139     "TillstandKurs": {
3140       "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
3141       "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
3142       "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
3143       "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
3144     },
3145     "Uid": "99402e3c-73f2-11e8-b9fd-0a821ba7448e",
3146     "Utbildningsinformation": {
3147       "AntalPerioder": 1,
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3150         "en": "Computer Security"
3151       },
3152       "Enhetskod": "HP",
3153       "FinansieringsformID": 101050,
3154       "LarosateID": 29,
3155       "Omfattningsvarde": "6.0",
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3157       "Perioder": [
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3163           "Uid": "79a9402f-73da-11e8-afa7-8e408e694e54"
3164         }
3165       ],
3166       "SarskildSekretessprovning": false,
3167       "Studielokalisering": {
3168         "sv": "Stockholm",
3169         "en": "Stockholm"

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3170 },
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3174     "en": "Stockholm"
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3180   "ID": 131778,
3181   "Kod": "0180"
3182 },
3183 "StudieordningID": "1",
3184 "Studieperiod": {
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3186   "Startdatum": "2010-01-18"
3187 },
3188 "Studietakt": {
3189   "Benamning": {
3190     "sv": "Helfart",
3191     "en": "Full-time"
3192   },
3193   "Takt": 100
3194 },
3195 "Undervisningsform": {
3196   "Benamningar": {
3197     "sv": "Normal",
3198     "en": "Normal teaching"
3199   },
3200   "Giltighetsperiod": {},
3201   "ID": 1
3202 },
3203 "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
3204 "UtbildningsOmfattningsvarde": "6.0",
3205 "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
3206 "Utbildningskod": "DD2395",
3207 "UtbildningstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
3208 "Utbildningstillfalleskod": "81099",
3209 "Utbildningstillfallestyp": {
3210   "Benamningar": {
3211     "sv": "Kurstillfälle",
3212     "en": "Course instance"
3213   },
3214   "Giltighetsperiod": {},
3215   "Grundtyp": "KURS",
3216   "ID": 52,
3217   "Kod": "2007KTF",
3218   "RegelverkForUtbildningstyp": {
3219     "Regelvarden": [
3220       {

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3221         "Regelnamn": "commons.domain.regel.kan.utannonseras",
3222         "Varde": "true"
3223     },
3224     {
3225         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3226         "Varde": "grupp.for.utsokning.grundavanceradniva"
3227     },
3228     {
3229         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3230         "Varde": "true"
3231     },
3232     {
3233         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3234         "Varde": "true"
3235     },
3236     {
3237         "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
3238         "Varde": "varning"
3239     }
3240 ]
3241 },
3242 "Sjalvstandig": false
3243 },
3244 "Utbildningstyp": {
3245     "Benamningar": {
3246         "sv": "Kurs, avancerad nivå",
3247         "en": "Course, Second-cycle"
3248     },
3249     "Giltighetsperiod": {},
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3251     "ID": 24,
3252     "Kod": "2007AKURS",
3253     "RegelverkForUtbildningstyp": {
3254         "Regelvarden": [
3255             {
3256                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3257                 "Varde": "grupp.for.utsokning.grundavanceradniva"
3258             },
3259             {
3260                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3261                 "Varde": "true"
3262             },
3263             {
3264                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
3265                 "Varde": "true"
3266             },
3267             {
3268                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3269                 "Varde": "true"
3270             },
3271             {

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3272         "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
3273         "Varde": "true"
3274     },
3275     {
3276         "Regelnamn": "commons.domain.regel.avbrottsregel",
3277         "Varde": "20"
3278     },
3279     {
3280         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
3281         "Varde": "true"
3282     }
3283 ]
3284 },
3285 "Sjalvstandig": true
3286 },
3287 "Utbildningsversion": 1
3288 }
3289 },
3290 {
3291     "Aterbud": false,
3292     "Avklarad": true,
3293     "Godkannandedatum": "2010-10-28",
3294     "HarTillgodoraknande": false,
3295     "LarosateID": 29,
3296     "Nuvarande": true,
3297     "Paborjad": true,
3298     "Perioddeltaganden": [
3299         {
3300             "Anpassat": false,
3301             "Omfattningsvarde": "6.0",
3302             "Periodbenamningar": {},
3303             "PerioddeltagandeUID": "9951e160-73f2-11e8-b9fd-0a821ba7448e",
3304             "Periodindex": 1,
3305             "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
3306             "UtbildningsPeriodFran": "2010-08-27",
3307             "UtbildningsPeriodTill": "2010-10-24"
3308         }
3309     ],
3310     "Sparrad": false,
3311     "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
3312     "SummeradGodkandOmfattning": "6.0",
3313     "SummeradHeltTillgodoraknadOmfattning": "0.0",
3314     "SummeradTillgodoraknadOmfattning": "0.0",
3315     "TillstandKurs": {
3316         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
3317         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
3318         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
3319         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
3320     },
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3322     "Utbildningsinformation": {

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3325       "sv": "Maskininläarning",
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3328     "Enhetskod": "HP",
3329     "FinansieringsformID": 101050,
3330     "LarosateID": 29,
3331     "Omfattningsvarde": "6.0",
3332     "PeriodIOrdning": "0",
3333     "Perioder": [
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3335         "Index": 1,
3336         "Omfattningsvarde": "6.0",
3337         "Slutdatum": "2010-10-24",
3338         "Startdatum": "2010-08-27",
3339         "Uid": "7a2e9d97-73da-11e8-afa7-8e408e694e54"
3340       }
3341     ],
3342     "SarskildSekretessprovning": false,
3343     "Studielokalisering": {
3344       "sv": "Stockholm",
3345       "en": "Stockholm"
3346     },
3347     "Studielokaliseringrepresentation": {
3348       "Benamningar": {
3349         "sv": "Stockholm",
3350         "en": "Stockholm"
3351       },
3352       "Giltighetsperiod": {
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3354         "Startdatum": "1917-10-19"
3355       },
3356       "ID": 131778,
3357       "Kod": "0180"
3358     },
3359     "StudieordningID": "1",
3360     "Studieperiod": {
3361       "Slutdatum": "2010-10-24",
3362       "Startdatum": "2010-08-27"
3363     },
3364     "Studietakt": {
3365       "Benamning": {
3366         "sv": "Helfart",
3367         "en": "Full-time"
3368       },
3369       "Takt": 100
3370     },
3371     "Undervisningsform": {
3372       "Benamningar": {
3373         "sv": "Normal",
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3374         "en": "Normal teaching"
3375     },
3376     "Giltighetsperiod": {},
3377     "ID": 1
3378 },
3379 "UtbildningUID": "3a1ba326-73d8-11e8-afa7-8e408e694e54",
3380 "UtbildningensOmfattningsvarde": "6.0",
3381 "UtbildningsinstansUID": "3a2a972f-73d8-11e8-afa7-8e408e694e54",
3382 "Utbildningskod": "DD2431",
3383 "UtbildningstillfalleUID": "7a2e4e9d-73da-11e8-b4e0-063f9afb40e3",
3384 "Utbildningstillfalleskod": "90313",
3385 "Utbildningstillfallestyp": {
3386     "Benamningar": {
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3388         "en": "Course instance"
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3390     "Giltighetsperiod": {},
3391     "Grundtyp": "KURS",
3392     "ID": 52,
3393     "Kod": "2007KTF",
3394     "RegelverkForUtbildningstyp": {
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3398                 "Varde": "true"
3399             },
3400             {
3401                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3402                 "Varde": "grupp.for.utsokning.grundavanceradniva"
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3407             },
3408             {
3409                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3410                 "Varde": "true"
3411             },
3412             {
3413                 "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
3414                 "Varde": "varning"
3415             }
3416         ]
3417     },
3418     "Sjalvstandig": false
3419 },
3420 "Utbildningstyp": {
3421     "Benamningar": {
3422         "sv": "Kurs, avancerad nivå",
3423         "en": "Course, Second-cycle"
3424     },

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3427     "ID": 24,
3428     "Kod": "2007AKURS",
3429     "RegelverkForUtbildningstyp": {
3430         "Regelvarden": [
3431             {
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3433                 "Varde": "grupp.for.utsokning.grundavanceradniva"
3434             },
3435             {
3436                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3437                 "Varde": "true"
3438             },
3439             {
3440                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
3441                 "Varde": "true"
3442             },
3443             {
3444                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3445                 "Varde": "true"
3446             },
3447             {
3448                 "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
3449                 "Varde": "true"
3450             },
3451             {
3452                 "Regelnamn": "commons.domain.regel.avbrottsregel",
3453                 "Varde": "20"
3454             },
3455             {
3456                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
3457                 "Varde": "true"
3458             }
3459         ]
3460     },
3461     "Sjalvstandig": true
3462 },
3463     "Utbildningsversion": 2
3464 }
3465 },
3466 {
3467     "Aterbud": false,
3468     "Avklarad": true,
3469     "Godkannandedatum": "2010-04-22",
3470     "HarTillgodoraknande": false,
3471     "LarosateID": 29,
3472     "Nuvarande": true,
3473     "Paborjad": true,
3474     "Perioddeltaganden": [
3475         {

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3476         "Anpassat": false,
3477         "Omfattningsvarde": "7.5",
3478         "Periodbenamningar": {},
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3481         "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
3482         "UtbildningsPeriodFran": "2010-01-18",
3483         "UtbildningsPeriodTill": "2010-03-21"
3484     }
3485 ],
3486 "Sparrad": false,
3487 "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
3488 "SummeradGodkandOmfattning": "7.5",
3489 "SummeradHeltTillgodoraknadOmfattning": "0.0",
3490 "SummeradTillgodoraknadOmfattning": "0.0",
3491 "TillstandKurs": {
3492     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
3493     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
3494     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
3495     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
3496 },
3497 "Uid": "995cb6af-73f2-11e8-b9fd-0a821ba7448e",
3498 "Utbildningsinformation": {
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3502         "en": "Foundations of Cryptography"
3503     },
3504     "Enhetskod": "HP",
3505     "FinansieringsformID": 101050,
3506     "LarosateID": 29,
3507     "Omfattningsvarde": "7.5",
3508     "PeriodIOrdning": "0",
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3513             "Slutdatum": "2010-03-21",
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3515             "Uid": "7a86ced1-73da-11e8-afa7-8e408e694e54"
3516         }
3517     ],
3518     "SarskildSekretessprovning": false,
3519     "Studielokalisering": {
3520         "sv": "Stockholm",
3521         "en": "Stockholm"
3522     },
3523     "Studielokaliseringrepresentation": {
3524         "Benamningar": {
3525             "sv": "Stockholm",
3526             "en": "Stockholm"

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3527     },
3528     "Giltighetsperiod": {
3529         "Slutdatum": "2019-01-14",
3530         "Startdatum": "1917-10-19"
3531     },
3532     "ID": 131778,
3533     "Kod": "0180"
3534 },
3535 "StudieordningID": "1",
3536 "Studieperiod": {
3537     "Slutdatum": "2010-03-21",
3538     "Startdatum": "2010-01-18"
3539 },
3540 "Studietakt": {
3541     "Benamning": {
3542         "sv": "Helfart",
3543         "en": "Full-time"
3544     },
3545     "Takt": 100
3546 },
3547 "Undervisningsform": {
3548     "Benamningar": {
3549         "sv": "Normal",
3550         "en": "Normal teaching"
3551     },
3552     "Giltighetsperiod": {},
3553     "ID": 1
3554 },
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3556 "UtbildningsOmfattningsvarde": "7.5",
3557 "UtbildningsinstansUID": "3a3ff422-73d8-11e8-b4e0-063f9afb40e3",
3558 "Utbildningskod": "DD2448",
3559 "UtbildningstillfalleUID": "7a865a37-73da-11e8-b4e0-063f9afb40e3",
3560 "Utbildningstillfalleleskod": "81084",
3561 "Utbildningstillfallestyp": {
3562     "Benamningar": {
3563         "sv": "Kurstillfälle",
3564         "en": "Course instance"
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3566     "Giltighetsperiod": {},
3567     "Grundtyp": "KURS",
3568     "ID": 52,
3569     "Kod": "2007KTF",
3570     "RegelverkForUtbildningstyp": {
3571         "Regelvarden": [
3572             {
3573                 "Regelnamn": "commons.domain.regel.kan.utannonseras",
3574                 "Varde": "true"
3575             },
3576             {
3577                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",

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3578         "Varde": "grupp.for.utsokning.grundavanceradniva"
3579     },
3580     {
3581         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3582         "Varde": "true"
3583     },
3584     {
3585         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3586         "Varde": "true"
3587     },
3588     {
3589         "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
3590         "Varde": "varning"
3591     }
3592 ]
3593 },
3594 "Sjalvstandig": false
3595 },
3596 "Utbildningstyp": {
3597     "Benamningar": {
3598         "sv": "Kurs, avancerad nivå",
3599         "en": "Course, Second-cycle"
3600     },
3601     "Giltighetsperiod": {},
3602     "Grundtyp": "KURS",
3603     "ID": 24,
3604     "Kod": "2007AKURS",
3605     "RegelverkForUtbildningstyp": {
3606         "Regelvarden": [
3607             {
3608                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3609                 "Varde": "grupp.for.utsokning.grundavanceradniva"
3610             },
3611             {
3612                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3613                 "Varde": "true"
3614             },
3615             {
3616                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
3617                 "Varde": "true"
3618             },
3619             {
3620                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3621                 "Varde": "true"
3622             },
3623             {
3624                 "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
3625                 "Varde": "true"
3626             },
3627             {
3628                 "Regelnamn": "commons.domain.regel.avbrottsregel",
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3629         "Varde": "20"
3630     },
3631     {
3632         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
3633         "Varde": "true"
3634     }
3635 ]
3636 },
3637 "Sjalvstandig": true
3638 },
3639 "Utbildningsversion": 1
3640 }
3641 },
3642 {
3643     "Aterbud": false,
3644     "Avklarad": true,
3645     "Godkannandedatum": "2009-06-15",
3646     "HarTillgodoraknande": false,
3647     "LarosateID": 29,
3648     "Nuvarande": true,
3649     "Paborjad": true,
3650     "Perioddeltaganden": [
3651         {
3652             "Anpassat": false,
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3654             "Periodbenamningar": {},
3655             "PerioddeltagandeUID": "9964f3be-73f2-11e8-b9fd-0a821ba7448e",
3656             "Periodindex": 1,
3657             "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
3658             "UtbildningsPeriodFran": "2009-01-12",
3659             "UtbildningsPeriodTill": "2009-05-27"
3660         }
3661     ],
3662     "Sparrad": false,
3663     "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
3664     "SummeradGodkandOmfattning": "7.5",
3665     "SummeradHeltTillgodoraknadOmfattning": "0.0",
3666     "SummeradTillgodoraknadOmfattning": "0.0",
3667     "TillstandKurs": {
3668         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
3669         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
3670         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
3671         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
3672     },
3673     "Uid": "9964a599-73f2-11e8-b9fd-0a821ba7448e",
3674     "Utbildningsinformation": {
3675         "AntalPerioder": 1,
3676         "Benamning": {
3677             "sv": "Kommunikation och media",
3678             "en": "Communication and Media"
3679         }
3680     }
3681 },

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3682     "LarosateID": 29,
3683     "Omfattningsvarde": "7.5",
3684     "PeriodIOrdning": "0",
3685     "Perioder": [
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3687             "Index": 1,
3688             "Omfattningsvarde": "7.5",
3689             "Slutdatum": "2009-05-27",
3690             "Startdatum": "2009-01-12",
3691             "Uid": "7b83ccf4-73da-11e8-afa7-8e408e694e54"
3692         }
3693     ],
3694     "SarskildSekretessprovning": false,
3695     "Studielokalisering": {
3696         "sv": "Stockholm",
3697         "en": "Stockholm"
3698     },
3699     "Studielokaliseringrepresentation": {
3700         "Benamningar": {
3701             "sv": "Stockholm",
3702             "en": "Stockholm"
3703         },
3704         "Giltighetsperiod": {
3705             "Slutdatum": "2019-01-14",
3706             "Startdatum": "1917-10-19"
3707         },
3708         "ID": 131778,
3709         "Kod": "0180"
3710     },
3711     "StudieordningID": "1",
3712     "Studieperiod": {
3713         "Slutdatum": "2009-05-27",
3714         "Startdatum": "2009-01-12"
3715     },
3716     "Studietakt": {
3717         "Benamning": {
3718             "sv": "Helfart",
3719             "en": "Full-time"
3720         },
3721         "Takt": 100
3722     },
3723     "Undervisningsform": {
3724         "Benamningar": {
3725             "sv": "Normal",
3726             "en": "Normal teaching"
3727         },
3728         "Giltighetsperiod": {},
3729         "ID": 1
3730     },

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3732 "UtbildningensOmfattningsvarde": "7.5",
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3734 "Utbildningskod": "DH1601",
3735 "UtbildningstillfalleUID": "7b837e74-73da-11e8-b4e0-063f9afb40e3",
3736 "Utbildningstillfalleskod": "60323",
3737 "Utbildningstillfallestyp": {
3738   "Benamningar": {
3739     "sv": "Kurstillfälle",
3740     "en": "Course instance"
3741   },
3742   "Giltighetsperiod": {},
3743   "Grundtyp": "KURS",
3744   "ID": 52,
3745   "Kod": "2007KTF",
3746   "RegelverkForUtbildningstyp": {
3747     "Regelvarde": [
3748       {
3749         "Regelnamn": "commons.domain.regel.kan.utannonseras",
3750         "Varde": "true"
3751       },
3752       {
3753         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3754         "Varde": "grupp.for.utsokning.grundavanceradniva"
3755       },
3756       {
3757         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3758         "Varde": "true"
3759       },
3760       {
3761         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3762         "Varde": "true"
3763       },
3764       {
3765         "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
3766         "Varde": "varning"
3767       }
3768     ]
3769   },
3770   "Sjalvstandig": false
3771 },
3772 "Utbildningstyp": {
3773   "Benamningar": {
3774     "sv": "Kurs, grundnivå",
3775     "en": "Course, First-cycle"
3776   },
3777   "Giltighetsperiod": {},
3778   "Grundtyp": "KURS",
3779   "ID": 22,
3780   "Kod": "2007GKURS",
3781   "RegelverkForUtbildningstyp": {

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3784         "Regelnamn": "commons.domain.regel.avbrottsregel",
3785         "Varde": "20"
3786       },
3787       {
3788         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
3789         "Varde": "true"
3790       },
3791       {
3792         "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
3793         "Varde": "true"
3794       },
3795       {
3796         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3797         "Varde": "grupp.for.utsokning.grundavanceradniva"
3798       },
3799       {
3800         "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
3801         "Varde": "true"
3802       },
3803       {
3804         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3805         "Varde": "true"
3806       },
3807       {
3808         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3809         "Varde": "true"
3810       }
3811     ],
3812     "Sjalvstandig": true
3813   },
3814   "Utbildningsversion": 2
3815 }
3816 },
3817 {
3818   "Aterbud": false,
3819   "Avklarad": true,
3820   "Godkannandedatum": "2008-12-22",
3821   "HarTillgodoraknande": false,
3822   "LarosateID": 29,
3823   "Nuvarande": false,
3824   "Paborjad": true,
3825   "Perioddeltaganden": [
3826     {
3827       "Anpassat": false,
3828       "Omfattningsvarde": "6.0",
3829       "Periodbenamningar": {},
3830       "PerioddeltagandeUID": "996ff03a-73f2-11e8-b9fd-0a821ba7448e",
3831       "Periodindex": 1,

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3833         "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
3834         "UtbildningsPeriodFran": "2007-08-31",
3835         "UtbildningsPeriodTill": "2008-01-11"
3836     }
3837 ],
3838 "Sparrad": false,
3839 "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
3840 "SummeradGodkandOmfattning": "6.0",
3841 "SummeradHeltTillgodoraknadOmfattning": "0.0",
3842 "SummeradTillgodoraknadOmfattning": "0.0",
3843 "TillstandKurs": {
3844     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
3845     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
3846     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
3847     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
3848 },
3849 "UId": "996fa213-73f2-11e8-b9fd-0a821ba7448e",
3850 "Utbildningsinformation": {
3851     "AntalPerioder": 1,
3852     "Benamning": {
3853         "sv": "Lärande och IKT, projektkurs",
3854         "en": "Learning and ICT, Project Course"
3855     },
3856     "Enhetskod": "HP",
3857     "FinansieringsformID": 101050,
3858     "LarosateID": 29,
3859     "Omfattningsvarde": "6.0",
3860     "PeriodIOrdning": "0",
3861     "Perioder": [
3862         {
3863             "Index": 1,
3864             "Omfattningsvarde": "6.0",
3865             "Slutdatum": "2008-01-11",
3866             "Startdatum": "2007-08-31",
3867             "UId": "7b8fda64-73da-11e8-afa7-8e408e694e54"
3868         }
3869     ],
3870     "SarskildSekretessprovning": false,
3871     "Studielokalisering": {
3872         "sv": "Stockholm",
3873         "en": "Stockholm"
3874     },
3875     "Studielokaliseringrepresentation": {
3876         "Benamningar": {
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3878             "en": "Stockholm"
3879         },
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3882             "Startdatum": "1917-10-19"
3883         }
3884     },

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3886 },
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3890     "Startdatum": "2007-08-31"
3891 },
3892 "Studietakt": {
3893     "Benamning": {
3894         "sv": "Helfart",
3895         "en": "Full-time"
3896     },
3897     "Takt": 100
3898 },
3899 "Undervisningsform": {
3900     "Benamningar": {
3901         "sv": "Normal",
3902         "en": "Normal teaching"
3903     },
3904     "Giltighetsperiod": {},
3905     "ID": 1
3906 },
3907 "UtbildningUID": "3b0a48c1-73d8-11e8-afa7-8e408e694e54",
3908 "UtbildningensOmfattningsvarde": "6.0",
3909 "UtbildningsinstansUID": "3b0259b8-73d8-11e8-b4e0-063f9afb40e3",
3910 "Utbildningskod": "DH1607",
3911 "UtbildningstillfalleUID": "7b8f8c71-73da-11e8-b4e0-063f9afb40e3",
3912 "Utbildningstillfalleskod": "DH004",
3913 "Utbildningstillfallestyp": {
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3916         "en": "Course instance"
3917     },
3918     "Giltighetsperiod": {},
3919     "Grundtyp": "KURS",
3920     "ID": 52,
3921     "Kod": "2007KTF",
3922     "RegelverkForUtbildningstyp": {
3923         "Regelvarde": [
3924             {
3925                 "Regelnamn": "commons.domain.regel.kan.utannonseras",
3926                 "Varde": "true"
3927             },
3928             {
3929                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3930                 "Varde": "grupp.for.utsokning.grundavanceradniva"
3931             },
3932             {
3933                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3934                 "Varde": "true"

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3935     },
3936     {
3937         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3938         "Varde": "true"
3939     },
3940     {
3941         "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
3942         "Varde": "varning"
3943     }
3944 ]
3945 },
3946 "Sj Alvstandig": false
3947 },
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3951         "en": "Course, First-cycle"
3952     },
3953     "Giltighetsperiod": {},
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3955     "ID": 22,
3956     "Kod": "2007GKURS",
3957     "RegelverkForUtbildningstyp": {
3958         "Regelvarde": [
3959             {
3960                 "Regelnamn": "commons.domain.regel.avbrottsregel",
3961                 "Varde": "20"
3962             },
3963             {
3964                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
3965                 "Varde": "true"
3966             },
3967             {
3968                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
3969                 "Varde": "true"
3970             },
3971             {
3972                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3973                 "Varde": "grupp.for.utsokning.grundavanceradniva"
3974             },
3975             {
3976                 "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
3977                 "Varde": "true"
3978             },
3979             {
3980                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3981                 "Varde": "true"
3982             },
3983             {
3984                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3985                 "Varde": "true"

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3986         }
3987     ]
3988 },
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3990 },
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3992 }
3993 },
3994 {
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3996     "Avklarad": true,
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3998     "Godkannandedatum": "2008-12-22",
3999     "HarTillgodoraknande": false,
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4001     "Nuvarande": true,
4002     "Paborjad": true,
4003     "Perioddeltaganden": [
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4007             "Periodbenamningar": {},
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4009             "Periodindex": 1,
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4011             "UtbildningsPeriodFran": "2008-08-29",
4012             "UtbildningsPeriodTill": "2009-01-10"
4013         }
4014     ],
4015     "Sparrad": false,
4016     "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
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4018     "SummeradHeltTillgodoraknadOmfattning": "0.0",
4019     "SummeradTillgodoraknadOmfattning": "0.0",
4020     "TillstandKurs": {
4021         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
4022         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
4023         "Tillfalllesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
4024         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
4025     },
4026     "Uid": "997bd741-73f2-11e8-b9fd-0a821ba7448e",
4027     "Utbildningsinformation": {
4028         "AntalPerioder": 1,
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4030             "sv": "Lärande och IKT, projektkurs",
4031             "en": "Learning and ICT, Project Course"
4032         },
4033         "Enhetskod": "HP",
4034         "LarosateID": 29,
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4036         "PeriodIOrdning": "0",

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4041             "Slutdatum": "2009-01-10",
4042             "Startdatum": "2008-08-29",
4043             "Uid": "05472211-73db-11e8-afa7-8e408e694e54"
4044         }
4045     ],
4046     "SarskildSekretessprovning": false,
4047     "StudieordningID": "1",
4048     "Studieperiod": {
4049         "Slutdatum": "2009-01-10",
4050         "Startdatum": "2008-08-29"
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4053     "UtbildningensOmfattningsvarde": "6.0",
4054     "UtbildningsinstansUID": "3b0259b8-73d8-11e8-b4e0-063f9afb40e3",
4055     "Utbildningskod": "DH1607",
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4063         "Giltighetsperiod": {},
4064         "Grundtyp": "KURS",
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4067         "RegelverkForUtbildningstyp": {
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4069                 {
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4071                     "Varde": "true"
4072                 },
4073                 {
4074                     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4075                     "Varde": "grupp.for.utsokning.grundavanceradniva"
4076                 },
4077                 {
4078                     "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
4079                     "Varde": "true"
4080                 },
4081                 {
4082                     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4083                     "Varde": "true"
4084                 },
4085                 {
4086                     "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
4087                     "Varde": "varning"

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4088         }
4089     ]
4090 },
4091     "Sjalvstandig": false
4092 },
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4094         "Benamningar": {
4095             "sv": "Kurs, grundnivå",
4096             "en": "Course, First-cycle"
4097         },
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4104                 {
4105                     "Regelnamn": "commons.domain.regel.avbrottsregel",
4106                     "Varde": "20"
4107                 },
4108                 {
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4110                     "Varde": "true"
4111                 },
4112                 {
4113                     "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
4114                     "Varde": "true"
4115                 },
4116                 {
4117                     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4118                     "Varde": "grupp.for.utsokning.grundavanceradniva"
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4123                 },
4124                 {
4125                     "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
4126                     "Varde": "true"
4127                 },
4128                 {
4129                     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4130                     "Varde": "true"
4131                 }
4132             ]
4133         },
4134         "Sjalvstandig": true
4135     },
4136     "Utbildningsversion": 1
4137 }
4138 },

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4142   "Godkannandedatum": "2009-11-23",
4143   "HarTillgodoraknande": false,
4144   "LarosateID": 29,
4145   "Nuvarande": true,
4146   "Paborjad": true,
4147   "Perioddeltaganden": [
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4151       "Periodbenamningar": {},
4152       "PerioddeltagandeUID": "998748fe-73f2-11e8-b9fd-0a821ba7448e",
4153       "Periodindex": 1,
4154       "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
4155       "UtbildningsPeriodFran": "2009-08-28",
4156       "UtbildningsPeriodTill": "2009-11-01"
4157     }
4158   ],
4159   "Sparrad": false,
4160   "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
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4162   "SummeradHeltTillgodoraknadOmfattning": "0.0",
4163   "SummeradTillgodoraknadOmfattning": "0.0",
4164   "TillstandKurs": {
4165     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
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4167     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
4168     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
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4170   "Uid": "9986d3c0-73f2-11e8-b9fd-0a821ba7448e",
4171   "Utbildningsinformation": {
4172     "AntalPerioder": 1,
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4175       "en": "Language Engineering"
4176     },
4177     "Enhetskod": "HP",
4178     "FinansieringsformID": 101050,
4179     "LarosateID": 29,
4180     "Omfattningsvarde": "6.0",
4181     "PeriodIOrdning": "0",
4182     "Perioder": [
4183       {
4184         "Index": 1,
4185         "Omfattningsvarde": "6.0",
4186         "Slutdatum": "2009-11-01",
4187         "Startdatum": "2009-08-28",
4188         "Uid": "7bf94b4f-73da-11e8-afa7-8e408e694e54"
4189       }

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4190 ],
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4192 "Studielokalisering": {
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4194   "en": "Stockholm"
4195 },
4196 "Studielokaliseringrepresentation": {
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4199     "en": "Stockholm"
4200   },
4201   "Giltighetsperiod": {
4202     "Slutdatum": "2019-01-14",
4203     "Startdatum": "1917-10-19"
4204   },
4205   "ID": 131778,
4206   "Kod": "0180"
4207 },
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4209 "Studieperiod": {
4210   "Slutdatum": "2009-11-01",
4211   "Startdatum": "2009-08-28"
4212 },
4213 "Studietakt": {
4214   "Benamning": {
4215     "sv": "Halvfart",
4216     "en": "Half-time"
4217   },
4218   "Takt": 50
4219 },
4220 "Undervisningsform": {
4221   "Benamningar": {
4222     "sv": "Normal",
4223     "en": "Normal teaching"
4224   },
4225   "Giltighetsperiod": {},
4226   "ID": 1
4227 },
4228 "UtbildningUID": "3b415f03-73d8-11e8-afa7-8e408e694e54",
4229 "UtbildningensOmfattningsvarde": "6.0",
4230 "UtbildningsinstansUID": "3b3529d4-73d8-11e8-b4e0-063f9afb40e3",
4231 "Utbildningskod": "DH2418",
4232 "UtbildningstillfalleUID": "7bf8d63b-73da-11e8-b4e0-063f9afb40e3",
4233 "Utbildningstillfalleskod": "70349",
4234 "Utbildningstillfallestyp": {
4235   "Benamningar": {
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4237     "en": "Course instance"
4238   },
4239   "Giltighetsperiod": {},
4240   "Grundtyp": "KURS",

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4247                 "Varde": "true"  
4248             },  
4249             {  
4250                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",  
4251                 "Varde": "grupp.for.utsokning.grundavanceradniva"  
4252             },  
4253             {  
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4255                 "Varde": "true"  
4256             },  
4257             {  
4258                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",  
4259                 "Varde": "true"  
4260             },  
4261             {  
4262                 "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",  
4263                 "Varde": "varning"  
4264             }  
4265         ]  
4266     },  
4267     "Sjolvstandig": false  
4268 },  
4269 "Utbildningstyp": {  
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4272         "en": "Course, Second-cycle"  
4273     },  
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4275     "Grundtyp": "KURS",  
4276     "ID": 24,  
4277     "Kod": "2007AKURS",  
4278     "RegelverkForUtbildningstyp": {  
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4281                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",  
4282                 "Varde": "grupp.for.utsokning.grundavanceradniva"  
4283             },  
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4286                 "Varde": "true"  
4287             },  
4288             {  
4289                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",  
4290                 "Varde": "true"  
4291             },
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4295         },
4296         {
4297             "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
4298             "Varde": "true"
4299         },
4300         {
4301             "Regelnamn": "commons.domain.regel.avbrottsregel",
4302             "Varde": "20"
4303         },
4304         {
4305             "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
4306             "Varde": "true"
4307         }
4308     ]
4309 },
4310 "Sjalvstandig": true
4311 },
4312 "Utbildningsversion": 1
4313 }
4314 },
4315 {
4316     "Aterbud": false,
4317     "Avklarad": true,
4318     "Godkannandedatum": "2010-12-15",
4319     "HarTillgodoraknande": false,
4320     "LarosateID": 29,
4321     "Nuvarande": true,
4322     "Paborjad": true,
4323     "Perioddeltaganden": [
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4325             "Anpassat": false,
4326             "Omfattningsvarde": "4.5",
4327             "Periodbenamningar": {},
4328             "PerioddeltagandeUID": "99924579-73f2-11e8-b9fd-0a821ba7448e",
4329             "Periodindex": 1,
4330             "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
4331             "UtbildningsPeriodFran": "2010-08-27",
4332             "UtbildningsPeriodTill": "2010-12-26"
4333         }
4334     ],
4335     "Sparrad": false,
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4338     "SummeradHeltTillgodoraknadOmfattning": "0.0",
4339     "SummeradTillgodoraknadOmfattning": "0.0",
4340     "TillstandKurs": {
4341         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
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4345 },
4346 "UId": "99924577-73f2-11e8-b9fd-0a821ba7448e",
4347 "Utbildningsinformation": {
4348     "AntalPerioder": 1,
4349     "Benamning": {
4350         "sv": "Vetenskap, teknik och lärande, del II, inkl VFU",
4351         "en": "Science, Technology and Learning, part II, incl Teaching Practice"
4352     },
4353     "Enhetskod": "HP",
4354     "FinansieringsformID": 101050,
4355     "LarosateID": 29,
4356     "Omfattningsvarde": "4.5",
4357     "PeriodIOrdning": "0",
4358     "Perioder": [
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4363             "Startdatum": "2010-08-27",
4364             "UId": "7c1f709a-73da-11e8-afa7-8e408e694e54"
4365         }
4366     ],
4367     "SarskildSekretessprovning": false,
4368     "Studielokalisering": {
4369         "sv": "Stockholm",
4370         "en": "Stockholm"
4371     },
4372     "Studielokaliseringrepresentation": {
4373         "Benamningar": {
4374             "sv": "Stockholm",
4375             "en": "Stockholm"
4376         },
4377         "Giltighetsperiod": {
4378             "Slutdatum": "2019-01-14",
4379             "Startdatum": "1917-10-19"
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4381         "ID": 131778,
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4383     },
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4385     "Studieperiod": {
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4387         "Startdatum": "2010-08-27"
4388     },
4389     "Studietakt": {
4390         "Benamning": {
4391             "sv": "Kvartsfart",
4392             "en": "One-quarter-time"
4393         },

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4394     "Takt": 25
4395 },
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4399         "en": "Normal teaching"
4400     },
4401     "Giltighetsperiod": {},
4402     "ID": 1
4403 },
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4405 "UtbildningensOmfattningsvarde": "4.5",
4406 "UtbildningsinstansUID": "3b4d6cf2-73d8-11e8-b4e0-063f9afb40e3",
4407 "Utbildningskod": "DH2605",
4408 "UtbildningstillfalleUID": "7c1d747a-73da-11e8-b4e0-063f9afb40e3",
4409 "Utbildningstillfalleskod": "90329",
4410 "Utbildningstillfallestyp": {
4411     "Benamningar": {
4412         "sv": "Kurstillfälle",
4413         "en": "Course instance"
4414     },
4415     "Giltighetsperiod": {},
4416     "Grundtyp": "KURS",
4417     "ID": 52,
4418     "Kod": "2007KTF",
4419     "RegelverkForUtbildningstyp": {
4420         "Regelvarden": [
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4423                 "Varde": "true"
4424             },
4425             {
4426                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4427                 "Varde": "grupp.for.utsokning.grundavanceradniva"
4428             },
4429             {
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4431                 "Varde": "true"
4432             },
4433             {
4434                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4435                 "Varde": "true"
4436             },
4437             {
4438                 "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
4439                 "Varde": "varning"
4440             }
4441         ]
4442     },
4443     "Själavstandig": false
4444 },

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4448         "en": "Course, Second-cycle"
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4450       "Giltighetsperiod": {},
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4452       "ID": 24,
4453       "Kod": "2007AKURS",
4454       "RegelverkForUtbildningstyp": {
4455         "Regelvarden": [
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4458             "Varde": "grupp.for.utsokning.grundavanceradniva"
4459           },
4460           {
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4462             "Varde": "true"
4463           },
4464           {
4465             "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
4466             "Varde": "true"
4467           },
4468           {
4469             "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
4470             "Varde": "true"
4471           },
4472           {
4473             "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
4474             "Varde": "true"
4475           },
4476           {
4477             "Regelnamn": "commons.domain.regel.avbrottsregel",
4478             "Varde": "20"
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4482             "Varde": "true"
4483           }
4484         ]
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4486       "Sjalvstandig": true
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4493   "Avklarad": true,
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4498     "Paborjad": true,
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4503         "Periodbenamningar": {},
4504         "PerioddeltagandeUID": "999cccaa-73f2-11e8-b9fd-0a821ba7448e",
4505         "Periodindex": 1,
4506         "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
4507         "UtbildningsPeriodFran": "2008-08-29",
4508         "UtbildningsPeriodTill": "2009-01-10"
4509     }
4510 ],
4511     "Sparrad": false,
4512     "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448",
4513     "SummeradGodkandOmfattning": "7.5",
4514     "SummeradHeltTillgodoraknadOmfattning": "0.0",
4515     "SummeradTillgodoraknadOmfattning": "0.0",
4516     "TillstandKurs": {
4517         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
4518         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
4519         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
4520         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
4521     },
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4523     "Utbildningsinformation": {
4524         "AntalPerioder": 1,
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4527             "en": "Human-Computer Interaction - a Didactive Perspective"
4528         },
4529         "Enhetskod": "HP",
4530         "FinansieringsformID": 101050,
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4538             "Slutdatum": "2009-01-10",
4539             "Startdatum": "2008-08-29",
4540             "Uid": "7c44d341-73da-11e8-afa7-8e408e694e54"
4541         }
4542     ],
4543     "SarskildSekretessprovning": false,
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4545         "sv": "Stockholm",
4546         "en": "Stockholm"

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4568     "en": "Full-time"
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4570   "Takt": 100
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4575     "en": "Normal teaching"
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4577   "Giltighetsperiod": {},
4578   "ID": 1
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4583 "Utbildningskod": "DH2624",
4584 "UtbildningstillfalleUID": "7c4484a6-73da-11e8-b4e0-063f9afb40e3",
4585 "Utbildningstillfalleskod": "50957",
4586 "Utbildningstillfallestyp": {
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4588     "sv": "Kurstillfälle",
4589     "en": "Course instance"
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4591   "Giltighetsperiod": {},
4592   "Grundtyp": "KURS",
4593   "ID": 52,
4594   "Kod": "2007KTF",
4595   "RegelverkForUtbildningstyp": {
4596     "Regelvarden": [
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4603         "Varde": "grupp.for.utsokning.grundavanceradniva"
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4609     {
4610         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4611         "Varde": "true"
4612     },
4613     {
4614         "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
4615         "Varde": "varning"
4616     }
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4618 },
4619 "Sjalvstandig": false
4620 },
4621 "Utbildningstyp": {
4622     "Benamningar": {
4623         "sv": "Kurs, avancerad nivå",
4624         "en": "Course, Second-cycle"
4625     },
4626     "Giltighetsperiod": {},
4627     "Grundtyp": "KURS",
4628     "ID": 24,
4629     "Kod": "2007AKURS",
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4631         "Regelvarden": [
4632             {
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4638                 "Varde": "true"
4639             },
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4648             {

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4656     {
4657         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
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4659     }
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4661 },
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4663 },
4664 "Utbildningsversion": 1
4665 }
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4672     "LarosateID": 29,
4673     "Nuvarande": true,
4674     "Paborjad": true,
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4677             "Anpassat": false,
4678             "Omfattningsvarde": "4.5",
4679             "Periodbenamningar": {},
4680             "PerioddeltagandeUID": "99b0ca8e-73f2-11e8-b9fd-0a821ba7448e",
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4683             "UtbildningsPeriodFran": "2007-08-31",
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4694             "UtbildningsPeriodTill": "2008-05-26"
4695         }
4696     ],
4697     "Sparrad": false,
4698     "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
4699     "SummeradGodkandOmfattning": "6.0",

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4701 "SummeradTillgodoraknadOmfattning": "0.0",
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4703   "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
4704   "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
4705   "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
4706   "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
4707 },
4708 "Uid": "99ae8083-73f2-11e8-b9fd-0a821ba7448e",
4709 "Utbildningsinformation": {
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4711   "Benamning": {
4712     "sv": "Numeriska metoder, grundkurs II",
4713     "en": "Numerical Methods, Basic Course II"
4714   },
4715   "Enhetskod": "HP",
4716   "FinansieringsformID": 101050,
4717   "LarosateID": 29,
4718   "Omfattningsvarde": "6.0",
4719   "PeriodIOrdning": "0",
4720   "Perioder": [
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4722       "Index": 1,
4723       "Omfattningsvarde": "4.5",
4724       "Slutdatum": "2008-01-11",
4725       "Startdatum": "2007-08-31",
4726       "Uid": "7e62d16f-73da-11e8-afa7-8e408e694e54"
4727     },
4728     {
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4730       "Omfattningsvarde": "1.5",
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4732       "Startdatum": "2008-01-14",
4733       "Uid": "7e62d170-73da-11e8-afa7-8e408e694e54"
4734     }
4735   ],
4736   "SarskildSekretessprovning": false,
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4739     "en": "Stockholm"
4740   },
4741   "Studielokaliseringrepresentation": {
4742     "Benamningar": {
4743       "sv": "Stockholm",
4744       "en": "Stockholm"
4745     },
4746     "Giltighetsperiod": {
4747       "Slutdatum": "2019-01-14",
4748       "Startdatum": "1917-10-19"
4749     },
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4757 },
4758 "Studietakt": {
4759     "Benamning": {
4760         "sv": "Helfart",
4761         "en": "Full-time"
4762     },
4763     "Takt": 100
4764 },
4765 "Undervisningsform": {
4766     "Benamningar": {
4767         "sv": "Normal",
4768         "en": "Normal teaching"
4769     },
4770     "Giltighetsperiod": {},
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4774 "UtbildningensOmfattningsvarde": "6.0",
4775 "UtbildningsinstansUID": "3ccedc84-73d8-11e8-b4e0-063f9afb40e3",
4776 "Utbildningskod": "DN1240",
4777 "UtbildningstillfalleUID": "7e625b93-73da-11e8-b4e0-063f9afb40e3",
4778 "Utbildningstillfalleskod": "Q0023",
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4790             {
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4792                 "Varde": "true"
4793             },
4794             {
4795                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4796                 "Varde": "grupp.for.utsokning.grundavanceradniva"
4797             },
4798             {
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4800                 "Varde": "true"
4801             }

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4802     {
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4804         "Varde": "true"
4805     },
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4807         "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
4808         "Varde": "varning"
4809     }
4810 ]
4811 },
4812 "Sjalvstandig": false
4813 },
4814 "Utbildningstyp": {
4815     "Benamningar": {
4816         "sv": "Kurs, grundnivå",
4817         "en": "Course, First-cycle"
4818     },
4819     "Giltighetsperiod": {},
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4821     "ID": 22,
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4823     "RegelverkForUtbildningstyp": {
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4826                 "Regelnamn": "commons.domain.regel.avbrottsregel",
4827                 "Varde": "20"
4828             },
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4831                 "Varde": "true"
4832             },
4833             {
4834                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
4835                 "Varde": "true"
4836             },
4837             {
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4839                 "Varde": "grupp.for.utsokning.grundavanceradniva"
4840             },
4841             {
4842                 "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
4843                 "Varde": "true"
4844             },
4845             {
4846                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
4847                 "Varde": "true"
4848             },
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4850                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4851                 "Varde": "true"
4852             }

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4853     ]
4854     },
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4856   },
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4858 }
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4862   "Avklarad": true,
4863   "Godkannandedatum": "2007-12-11",
4864   "HarTillgodoraknande": true,
4865   "LarosateID": 29,
4866   "Nuvarande": true,
4867   "Paborjad": true,
4868   "Perioddeltaganden": [
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4870       "Anpassat": false,
4871       "Omfattningsvarde": "7.5",
4872       "Periodbenamningar": {},
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4875       "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
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4877       "UtbildningsPeriodTill": "2008-01-11"
4878     }
4879   ],
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4883   "SummeradHeltTillgodoraknadOmfattning": "0.0",
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4888     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
4889     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
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4892   "Utbildningsinformation": {
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4896       "en": "Theories of Learning"
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4909         "Uid": "95d74de2-73da-11e8-afa7-8e408e694e54"
4910     }
4911 ],
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4914     "sv": "Stockholm",
4915     "en": "Stockholm"
4916 },
4917 "Studielokaliseringrepresentation": {
4918     "Benamningar": {
4919         "sv": "Stockholm",
4920         "en": "Stockholm"
4921     },
4922     "Giltighetsperiod": {
4923         "Slutdatum": "2019-01-14",
4924         "Startdatum": "1917-10-19"
4925     },
4926     "ID": 131778,
4927     "Kod": "0180"
4928 },
4929 "StudieordningID": "1",
4930 "Studieperiod": {
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4932     "Startdatum": "2007-08-31"
4933 },
4934 "Studietakt": {
4935     "Benamning": {
4936         "sv": "Helfart",
4937         "en": "Full-time"
4938     },
4939     "Takt": 100
4940 },
4941 "Undervisningsform": {
4942     "Benamningar": {
4943         "sv": "Normal",
4944         "en": "Normal teaching"
4945     },
4946     "Giltighetsperiod": {},
4947     "ID": 1
4948 },
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4950 "UtbildningensOmfattningsvarde": "7.5",
4951 "UtbildningsinstansUID": "4b621782-73d8-11e8-b4e0-063f9afb40e3",
4952 "Utbildningskod": "GA2010",
4953 "UtbildningstillfalleUID": "95d6ff04-73da-11e8-b4e0-063f9afb40e3",
4954 "Utbildningstillfalleskod": "X0036",
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4958             "en": "Course instance (including attributes from the study regulation of 1993)"
4959         },
4960         "Giltighetsperiod": {},
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4962         "ID": 105632,
4963         "Kod": "0793KTF",
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4968                     "Varde": "grupp.for.utsokning.grundavanceradniva"
4969                 },
4970                 {
4971                     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4972                     "Varde": "true"
4973                 }
4974             ]
4975         },
4976         "Sjalvstandig": false
4977     },
4978     "Utbildningstyp": {
4979         "Benamningar": {
4980             "sv": "Kurs, grundnivå (inkl. attribut från 1993 års studieordning)",
4981             "en": "Course, First-cycle (including attributes from the study regulation of 1993)"
4982         },
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4985         "ID": 105630,
4986         "Kod": "0793GKURS",
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4990                     "Regelnamn": "commons.domain.regel.avbrottsregel",
4991                     "Varde": "20"
4992                 },
4993                 {
4994                     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4995                     "Varde": "true"
4996                 },
4997                 {
4998                     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4999                     "Varde": "grupp.for.utsokning.grundavanceradniva"
5000                 }
5001             ]
5002         },
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5004     },
5005     "Utbildningsversion": 1

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5007 },
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5012     "LarosateID": 29,
5013     "Nuvarande": true,
5014     "Paborjad": true,
5015     "Perioddeltaganden": [
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5018             "Omfattningsvarde": "7.5",
5019             "Periodbenamningar": {},
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5022             "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
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5024             "UtbildningsPeriodTill": "2008-05-26"
5025         }
5026     ],
5027     "Sparrad": false,
5028     "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
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5030     "SummeradHeltTillgodoraknadOmfattning": "0.0",
5031     "SummeradTillgodoraknadOmfattning": "0.0",
5032     "TillstandKurs": {
5033         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avbrott",
5034         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avbrott",
5035         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
5036         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avbrott"
5037     },
5038     "Uid": "99c25642-73f2-11e8-b9fd-0a821ba7448e",
5039     "Utbildningsinformation": {
5040         "AntalPerioder": 1,
5041         "Benamning": {
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5043             "en": "Education, Pedagogy and Society - Yesterday, Today and Tomorrow"
5044         },
5045         "Enhetskod": "HP",
5046         "FinansieringsformID": 131731,
5047         "LarosateID": 29,
5048         "Omfattningsvarde": "7.5",
5049         "PeriodIOrdning": "0",
5050         "Perioder": [
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5053                 "Omfattningsvarde": "7.5",
5054                 "Slutdatum": "2008-05-26",
5055                 "Startdatum": "2008-01-14",
5056                 "Uid": "95d74de7-73da-11e8-afa7-8e408e694e54"

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5058 ],
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5067         "en": "Stockholm"
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5071         "Startdatum": "1917-10-19"
5072     },
5073     "ID": 131778,
5074     "Kod": "0180"
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5079     "Startdatum": "2008-01-14"
5080 },
5081 "Studietakt": {
5082     "Benamning": {
5083         "sv": "Helfart",
5084         "en": "Full-time"
5085     },
5086     "Takt": 100
5087 },
5088 "Undervisningsform": {
5089     "Benamningar": {
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5091         "en": "Normal teaching"
5092     },
5093     "Giltighetsperiod": {},
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5096 "UtbildningUID": "4b68f595-73d8-11e8-afa7-8e408e694e54",
5097 "UtbildningensOmfattningsvarde": "7.5",
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5130           "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
5131           "Varde": "varning"
5132         }
5133       ]
5134     },
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5136   },
5137   "Utbildningstyp": {
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5152         {
5153           "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
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5155         },
5156         {
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5158           "Varde": "true"

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5176     ]
5177 },
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5189     "Paborjad": true,
5190     "Perioddeltaganden": [
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5199             "UtbildningsPeriodTill": "2008-05-26"
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5205     "SummeradHeltTillgodoraknadOmfattning": "0.0",
5206     "SummeradTillgodoraknadOmfattning": "0.0",
5207     "TillstandKurs": {
5208         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avbrott",
5209         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avbrott",

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5213 "Uid": "99c9f710-73f2-11e8-b9fd-0a821ba7448e",
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5217         "sv": "Individens utveckling och socialisation",
5218         "en": "The Individual's Development and Socialization"
5219     },
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5291             },
5292             {
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5294                 "Varde": "grupp.for.utsokning.grundavanceradniva"
5295             },
5296             {
5297                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
5298                 "Varde": "true"
5299             },
5300             {
5301                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
5302                 "Varde": "true"
5303             },
5304             {
5305                 "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
5306                 "Varde": "varning"
5307             }
5308         ]
5309     },
5310     "Själavstandig": false
5311 },

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5312     "Utbildningstyp": {
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5315             "en": "Course, First-cycle"
5316         },
5317         "Giltighetsperiod": {},
5318         "Grundtyp": "KURS",
5319         "ID": 22,
5320         "Kod": "2007GKURS",
5321         "RegelverkForUtbildningstyp": {
5322             "Regelvarden": [
5323                 {
5324                     "Regelnamn": "commons.domain.regel.avbrottsregel",
5325                     "Varde": "20"
5326                 },
5327                 {
5328                     "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
5329                     "Varde": "true"
5330                 },
5331                 {
5332                     "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
5333                     "Varde": "true"
5334                 },
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5336                     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5337                     "Varde": "grupp.for.utsokning.grundavanceradniva"
5338                 },
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5362     "HarTillgodoraknande": false,

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5369         "Omfattningsvarde": "7.5",
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5374         "UtbildningsPeriodFran": "2006-08-30",
5375         "UtbildningsPeriodTill": "2007-01-16"
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5382     "SummeradTillgodoraknadOmfattning": "0.0",
5383     "TillstandKurs": {
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5385         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
5386         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
5387         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
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5394             "en": "Basic Course in Teacher Commission and Professional Teacherhood, incl Teaching Practice"
5395         },
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5399         "Omfattningsvarde": "7.5",
5400         "PeriodIOrdning": "0",
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5407             "Uid": "afca5ecd-73da-11e8-afa7-8e408e694e54"
5408         }
5409     ],
5410     "SarskildSekretessprovning": false,
5411     "Studielokalisering": {
5412         "sv": "Stockholm",
5413         "en": "Stockholm"

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5414     },
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5418             "en": "Stockholm"
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5425         "Kod": "0180"
5426     },
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5430         "Startdatum": "2006-08-30"
5431     },
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5433         "Benamning": {
5434             "sv": "Helfart",
5435             "en": "Full-time"
5436         },
5437         "Takt": 100
5438     },
5439     "Undervisningsform": {
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5442             "en": "Normal teaching"
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5449     "UtbildningsinstansUID": "6158ce38-73d8-11e8-b4e0-063f9afb40e3",
5450     "Utbildningskod": "KTAU1N",
5451     "UtbildningstillfalleUID": "afca0fec-73da-11e8-b4e0-063f9afb40e3",
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5458         "Giltighetsperiod": {},
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5461         "Kod": "0793KTF",
5462         "RegelverkForUtbildningstyp": {
5463             "Regelvarden": [
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5466         "Varde": "grupp.for.utsokning.grundavanceradniva"
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5470         "Varde": "true"
5471     }
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5473 },
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5479         "en": "Course, First-cycle (including attributes from the study regulation of 1993)"
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5481     "Giltighetsperiod": {},
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5483     "ID": 105630,
5484     "Kod": "0793GKURS",
5485     "RegelverkForUtbildningstyp": {
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5487             {
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5489                 "Varde": "20"
5490             },
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5492                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
5493                 "Varde": "true"
5494             },
5495             {
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5497                 "Varde": "grupp.for.utsokning.grundavanceradniva"
5498             }
5499         ]
5500     },
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5502 },
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5510     "LarosateID": 29,
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5532     "UtbildningsPeriodTill": "2007-05-28"
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5534 {
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5537     "Periodbenamningar": {},
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5552     "UtbildningsPeriodTill": "2010-01-08"
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5560     "Tillstand": "studiedeltagande.domain.tillstandsdefinition.ej_paborjad",
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5566 "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e"

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5572         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
5573         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
5574         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
5575     },
5576     "UId": "99dedf51-73f2-11e8-b9fd-0a821ba7448e",
5577     "Utbildningsinformation": {
5578         "AntalPerioder": 5,
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5581             "en": "Educational Perspective on Mathematics, incl Teaching Practice"
5582         },
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5584         "FinansieringsformID": 131731,
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5603             {
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5610             {
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5622         "UId": "afca37a9-73da-11e8-afa7-8e408e694e54"
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5628     "en": "Stockholm"
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5650         "en": "Full-time"
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5652     "Takt": 100
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5660     "ID": 1
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5677     "RegelverkForUtbildningstyp": {
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5685                 "Varde": "true"
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5706             {
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5708                 "Varde": "true"
5709             },
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5713             }
5714         ]
5715     },
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5718 "Utbildningsversion": 1
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5726     "Nuvarande": true,
5727     "Paborjad": true,
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5732             "Periodbenamningar": {},
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5737             "UtbildningsPeriodTill": "2008-05-26"
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5739     ],
5740     "Sparrad": false,
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5744     "SummeradTillgodoraknadOmfattning": "0.0",
5745     "TillstandKurs": {
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5748         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
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5769                 "Uid": "afd310db-73da-11e8-afa7-8e408e694e54"
5770             }

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5812 "Utbildningskod": "KTD130",
5813 "UtbildningstillfalleUID": "afd2e9a1-73da-11e8-b4e0-063f9afb40e3",
5814 "Utbildningstillfalleskod": "X0415",
5815 "Utbildningstillfallestyp": {
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5819   },
5820   "Giltighetsperiod": {},
5821   "Grundtyp": "KURS",

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5829             },
5830             {
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5832                 "Varde": "true"
5833             }
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5866 }
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5886   }
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5890 "SummeradGodkandOmfattning": "7.5",
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5897   "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
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5900 "Utbildningsinformation": {
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5902   "Benamning": {
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5904     "en": "Educational Perspective on Mathematics, incl Teaching Practice"
5905   },
5906   "Enhetskod": "HP",
5907   "FinansieringsformID": 131731,
5908   "LarosateID": 29,
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5918     }
5919   ],
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5921   "Studielokalisering": {
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5933         },
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5945             "en": "Full-time"
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5948     },
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5971         "Kod": "2007KTF",
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5988         "Varde": "true"
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6023                 "Varde": "grupp.for.utsokning.grundavanceradniva"
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6051     "Paborjad": true,
6052     "Perioddeltaganden": [
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6069     "TillstandKurs": {
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6072         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
6073         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
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6172     "Sjalvstandig": false
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6444             "Uid": "c3766115-73da-11e8-afa7-8e408e694e54"
6445         }
6446     ],
6447     "SarskildSekretessprovning": false,
6448     "Studielokalisering": {
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6451     },
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6455             "en": "Stockholm"
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6459             "Startdatum": "1917-10-19"
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6462         "Kod": "0180"
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6472             "en": "Full-time"
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6479             "en": "Normal teaching"
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6488     "UtbildningstillfalleUID": "c3763993-73da-11e8-b4e0-063f9afb40e3",
6489     "Utbildningstillfalleskod": "X0027",
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6494         },
6495         "Giltighetsperiod": {},
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6497         "ID": 105632,
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6499         "RegelverkForUtbildningstyp": {
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6503                     "Varde": "grupp.for.utsokning.grundavanceradniva"
6504                 },
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6506                     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
6507                     "Varde": "true"
6508                 }
6509             ]
6510         },
6511         "Sjalvstandig": false
6512     },
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6514         "Benamningar": {
6515             "sv": "Kurs, grundnivå (inkl. attribut från 1993 års studieordning)",
6516             "en": "Course, First-cycle (including attributes from the study regulation of 1993)"
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6519         "Grundtyp": "KURS",
6520         "ID": 105630,
6521         "Kod": "0793GKURS",
6522         "RegelverkForUtbildningstyp": {
6523             "Regelvarde": [
6524                 {
6525                     "Regelnamn": "commons.domain.regel.avbrottsregel",
6526                     "Varde": "20"
6527                 },
6528                 {
6529                     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
6530                     "Varde": "true"
6531                 },
6532                 {
6533                     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6534                     "Varde": "grupp.for.utsokning.grundavanceradniva"
6535                 }

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6548     "LarosateID": 29,
6549     "Nuvarande": true,
6550     "Paborjad": true,
6551     "Perioddeltaganden": [
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6554         "Omfattningsvarde": "30.0",
6555         "Periodbenamningar": {},
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6559         "UtbildningsPeriodFran": "2011-01-10",
6560         "UtbildningsPeriodTill": "2011-05-28"
6561     }
6562 ],
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6567     "SummeradTillgodoraknadOmfattning": "0.0",
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6569         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
6570         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
6571         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
6572         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
6573     },
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6575     "Utbildningsinformation": {
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6577         "Benamning": {
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6579             "en": "Degree Project in Technology and Learning, Second Cycle"
6580         },
6581         "Enhetskod": "HP",
6582         "FinansieringsformID": 101050,
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6592         "Uid": "c3a8e32c-73da-11e8-afa7-8e408e694e54"
6593     }
6594 ],
6595 "SarskildSekretessprovning": false,
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6598     "en": "Stockholm"
6599 },
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6604     },
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6610     "Kod": "0180"
6611 },
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6615     "Startdatum": "2011-01-10"
6616 },
6617 "Studietakt": {
6618     "Benamning": {
6619         "sv": "Helfart",
6620         "en": "Full-time"
6621     },
6622     "Takt": 100
6623 },
6624 "Undervisningsform": {
6625     "Benamningar": {
6626         "sv": "Normal",
6627         "en": "Normal teaching"
6628     },
6629     "Giltighetsperiod": {},
6630     "ID": 1
6631 },
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6662                     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
6663                     "Varde": "true"
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6667                     "Varde": "varning"
6668                 }
6669             ]
6670         },
6671         "Sjalvstandig": false
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6676             "en": "Course, Second-cycle"
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6682         "RegelverkForUtbildningstyp": {
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6710         "Varde": "true"
6711     }
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6721     "Avklarad": false,
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6725     "Paborjad": true,
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6735         "UtbildningsPeriodTill": "2008-01-11"
6736     }
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6741     "SummeradHeltTillgodoraknadOmfattning": "0.0",
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6743     "TillstandKurs": {
6744         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avbrott",
6745         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avbrott",
6746         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
6747         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avbrott"
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6750     "Utbildningsinformation": {
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6754             "en": "Perspectives of Educational Science, incl Teaching Practice"
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6756         "Enhetskod": "HP",
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6769         ],
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6778                 "en": "Stockholm"
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6782                 "Startdatum": "1917-10-19"
6783             },
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6785             "Kod": "0180"
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6798     },
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6811     "UtbildningstillfalleUID": "c3af99a9-73da-11e8-b4e0-063f9afb40e3",
6812     "Utbildningstillfalleskod": "X0403",
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6821       "Kod": "0793KTF",
6822       "RegelverkForUtbildningstyp": {
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6826             "Varde": "grupp.for.utsokning.grundavanceradniva"
6827           },
6828           {
6829             "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
6830             "Varde": "true"
6831           }
6832         ]
6833       },
6834       "Sjalvstandig": false
6835     },
6836     "Utbildningstyp": {
6837       "Benamningar": {
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6850         },
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6854         },
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6857           "Varde": "grupp.for.utsokning.grundavanceradniva"
6858         }
6859       ]
6860     },
6861     "Sjalvstandig": true
6862   },
6863   "Utbildningsversion": 1
6864 }
6865 },
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6903   "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
6904   "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
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6912     "en": "Differential Equations and Transforms III"
6913   },
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6938     "en": "Stockholm"
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6943       "en": "Stockholm"

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6950     "Kod": "0180"
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6955     "Startdatum": "2007-08-31"
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6957 "Studietakt": {
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6960         "en": "Full-time"
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6962     "Takt": 100
6963 },
6964 "Undervisningsform": {
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6966         "sv": "Normal",
6967         "en": "Normal teaching"
6968     },
6969     "Giltighetsperiod": {},
6970     "ID": 1
6971 },
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6974 "UtbildningsinstansUID": "7f46653c-73d8-11e8-b4e0-063f9afb40e3",
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6976 "UtbildningstillfalleUID": "c7cd37d2-73da-11e8-b4e0-063f9afb40e3",
6977 "Utbildningstillfallekod": "Q0044",
6978 "Utbildningstillfallestyp": {
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6981         "en": "Course instance"
6982     },
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6987     "RegelverkForUtbildningstyp": {
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6992             },
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7004     },
7005     {
7006         "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
7007         "Varde": "varning"
7008     }
7009 ]
7010 },
7011 "Sjalvstandig": false
7012 },
7013 "Utbildningstyp": {
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7015         "sv": "Kurs, grundnivå",
7016         "en": "Course, First-cycle"
7017     },
7018     "Giltighetsperiod": {},
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7021     "Kod": "2007GKURS",
7022     "RegelverkForUtbildningstyp": {
7023         "Regelvarden": [
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7026                 "Varde": "20"
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7031             },
7032             {
7033                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
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7035             },
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7038                 "Varde": "grupp.for.utsokning.grundavanceradniva"
7039             },
7040             {
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7043             },
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7051     }
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7058 },
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7063     "HarTillgodoraknande": false,
7064     "LarosateID": 29,
7065     "Nuvarande": true,
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7067     "Perioddeltaganden": [
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7076             "UtbildningsPeriodTill": "2009-01-10"
7077         }
7078     ],
7079     "Sparrad": false,
7080     "Studiestruktureferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448",
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7082     "SummeradHeltTillgodoraknadOmfattning": "0.0",
7083     "SummeradTillgodoraknadOmfattning": "0.0",
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7085         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
7086         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
7087         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
7088         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
7089     },
7090     "Uid": "9a4dcd72-73f2-11e8-b9fd-0a821ba7448e",
7091     "Utbildningsinformation": {
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7095             "en": "Mathematical Statistics, Basic Course"
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7110     ],
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7119             "en": "Stockholm"
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7123             "Startdatum": "1917-10-19"
7124         },
7125         "ID": 131778,
7126         "Kod": "0180"
7127     },
7128     "StudieordningID": "1",
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7131         "Startdatum": "2008-08-29"
7132     },
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7135             "sv": "Helfart",
7136             "en": "Full-time"
7137         },
7138         "Takt": 100
7139     },
7140     "Undervisningsform": {
7141         "Benamningar": {
7142             "sv": "Normal",
7143             "en": "Normal teaching"
7144         },
7145         "Giltighetsperiod": {},
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7152     "UtbildningstillfalleUID": "c8d7a30a-73da-11e8-b4e0-063f9afb40e3",
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7157             "en": "Course instance"
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7162         "Kod": "2007KTF",
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7178                     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
7179                     "Varde": "true"
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7183                     "Varde": "varning"
7184                 }
7185             ]
7186         },
7187         "Sjalvstandig": false
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7189     "Utbildningstyp": {
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7192             "en": "Course, First-cycle"
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7196         "ID": 22,
7197         "Kod": "2007GKURS",
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7203       },
7204       {
7205         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
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7218         "Varde": "true"
7219       },
7220       {
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7225         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
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7230   },
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7232 }
7233 },
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7239   "LarosateID": 29,
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7241   "Paborjad": true,
7242   "Perioddeltaganden": [
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7254 ],
7255 "Sparrad": false,
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7258 "SummeradHeltTillgodoraknadOmfattning": "0.0",
7259 "SummeradTillgodoraknadOmfattning": "0.0",
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7271         "en": "Mathematics, Advanced Course"
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7285         }
7286     ],
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7417     "Paborjad": true,
7418     "Perioddeltaganden": [
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7434     "SummeradTillgodoraknadOmfattning": "0.0",
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7449         "FinansieringsformID": 101050,
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7451         "Omfattningsvarde": "7.5",
7452         "PeriodIOrdning": "0",
7453         "Perioder": [

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7459         "Uid": "c960f7cb-73da-11e8-afa7-8e408e694e54"
7460     }
7461 ],
7462 "SarskildSekretessprovning": false,
7463 "Studielokalisering": {
7464     "sv": "Stockholm",
7465     "en": "Stockholm"
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7467 "Studielokaliseringrepresentation": {
7468     "Benamningar": {
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7487         "en": "One-quarter-time"
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7490 },
7491 "Undervisningsform": {
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7502 "Utbildningskod": "SF2721",
7503 "UtbildningstillfalleUID": "c960a967-73da-11e8-b4e0-063f9afb40e3",
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7522                     "Varde": "grupp.for.utsokning.grundavanceradniva"
7523                 },
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7530                     "Varde": "true"
7531                 },
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7533                     "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
7534                     "Varde": "varning"
7535                 }
7536             ]
7537         },
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7539     },
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7542             "sv": "Kurs, avancerad nivå",
7543             "en": "Course, Second-cycle"
7544         },
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7548         "Kod": "2007AKURS",
7549         "RegelverkForUtbildningstyp": {
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7564         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
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7566     },
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7568         "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
7569         "Varde": "true"
7570     },
7571     {
7572         "Regelnamn": "commons.domain.regel.avbrottsregel",
7573         "Varde": "20"
7574     },
7575     {
7576         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
7577         "Varde": "true"
7578     }
7579 ]
7580 },
7581 "Sjalvstandig": true
7582 },
7583 "Utbildningsversion": 1
7584 }
7585 },
7586 {
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7590     "HarTillgodoraknande": false,
7591     "LarosateID": 29,
7592     "Nuvarande": true,
7593     "Paborjad": true,
7594     "Perioddeltaganden": [
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7598             "Periodbenamningar": {},
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7600             "Periodindex": 1,
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7602             "UtbildningsPeriodFran": "2009-08-28",
7603             "UtbildningsPeriodTill": "2010-01-08"
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7605         {
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7613         "UtbildningsPeriodTill": "2010-05-29"
7614     }
7615 ],
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7617 "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
7618 "SummeradGodkandOmfattning": "6.0",
7619 "SummeradHeltTillgodoraknadOmfattning": "0.0",
7620 "SummeradTillgodoraknadOmfattning": "0.0",
7621 "TillstandKurs": {
7622     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
7623     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
7624     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
7625     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
7626 },
7627 "Uid": "9a752b1c-73f2-11e8-b9fd-0a821ba7448e",
7628 "Utbildningsinformation": {
7629     "AntalPerioder": 2,
7630     "Benamning": {
7631         "sv": "Matematiskt forum III",
7632         "en": "Mathematical Forum III"
7633     },
7634     "Enhetskod": "HP",
7635     "FinansieringsformID": 101050,
7636     "LarosateID": 29,
7637     "Omfattningsvarde": "6.0",
7638     "PeriodIOrdning": "0",
7639     "Perioder": [
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7663         "en": "Stockholm"
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7665     "Giltighetsperiod": {
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7669     "ID": 131778,
7670     "Kod": "0180"
7671 },
7672 "StudieordningID": "1",
7673 "Studieperiod": {
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7675     "Startdatum": "2009-08-28"
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7677 "Studietakt": {
7678     "Benamning": {
7679         "sv": "Helfart",
7680         "en": "Full-time"
7681     },
7682     "Takt": 100
7683 },
7684 "Undervisningsform": {
7685     "Benamningar": {
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7687         "en": "Normal teaching"
7688     },
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7690     "ID": 1
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7693 "UtbildningensOmfattningsvarde": "6.0",
7694 "UtbildningsinstansUID": "80c7fb88-73d8-11e8-b4e0-063f9afb40e3",
7695 "Utbildningskod": "SF2727",
7696 "UtbildningstillfalleUID": "c968238f-73da-11e8-b4e0-063f9afb40e3",
7697 "Utbildningstillfalleskod": "71274",
7698 "Utbildningstillfallestyp": {
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7701         "en": "Course instance"
7702     },
7703     "Giltighetsperiod": {},
7704     "Grundtyp": "KURS",
7705     "ID": 52,
7706     "Kod": "2007KTF",
7707     "RegelverkForUtbildningstyp": {
7708         "Regelvarden": [

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7711             "Varde": "true"
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7715             "Varde": "grupp.for.utsokning.grundavanceradniva"
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7719             "Varde": "true"
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7723             "Varde": "true"
7724         },
7725         {
7726             "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
7727             "Varde": "varning"
7728         }
7729     ],
7730     "Sjalvstandig": false
7731 },
7732 "Utbildningstyp": {
7733     "Benamningar": {
7734         "sv": "Kurs, avancerad nivå",
7735         "en": "Course, Second-cycle"
7736     },
7737     "Giltighetsperiod": {},
7738     "Grundtyp": "KURS",
7739     "ID": 24,
7740     "Kod": "2007AKURS",
7741     "RegelverkForUtbildningstyp": {
7742         "Regelvarden": [
7743             {
7744                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
7745                 "Varde": "grupp.for.utsokning.grundavanceradniva"
7746             },
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7749                 "Varde": "true"
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7757                 "Varde": "true"
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7765             "Regelnamn": "commons.domain.regel.avbrottsregel",
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7770             "Varde": "true"
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7772     ]
7773 },
7774 "Sjalvstandig": true
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7777 }
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7783     "HarTillgodoraknande": false,
7784     "LarosateID": 29,
7785     "Nuvarande": true,
7786     "Paborjad": true,
7787     "Perioddeltaganden": [
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7789             "Anpassat": false,
7790             "Omfattningsvarde": "7.5",
7791             "Periodbenamningar": {},
7792             "PerioddeltagandeUID": "9a8d6ea4-73f2-11e8-b9fd-0a821ba7448e",
7793             "Periodindex": 1,
7794             "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
7795             "UtbildningsPeriodFran": "2008-08-29",
7796             "UtbildningsPeriodTill": "2009-01-10"
7797         }
7798     ],
7799     "Sparrad": false,
7800     "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
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7804     "TillstandKurs": {
7805         "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
7806         "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
7807         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
7808         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
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7816   },
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7818   "FinansieringsformID": 101050,
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7820   "Omfattningsvarde": "7.5",
7821   "PeriodIOrdning": "0",
7822   "Perioder": [
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7825       "Omfattningsvarde": "7.5",
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7828       "Uid": "cde71bdf-73da-11e8-afa7-8e408e694e54"
7829     }
7830   ],
7831   "SarskildSekretessprovning": false,
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7833     "sv": "Stockholm",
7834     "en": "Stockholm"
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7836   "Studielokaliseringrepresentation": {
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7845     "ID": 131778,
7846     "Kod": "0180"
7847   },
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7853   "Studietakt": {
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7855       "sv": "Helfart",
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7858     "Takt": 100
7859   },
7860   "Undervisningsform": {
7861     "Benamningar": {
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7900             },
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7903                 "Varde": "varning"
7904             }
7905         ]
7906     },
7907     "Sjalvstandig": false
7908 },
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7910     "Benamningar": {
7911         "sv": "Kurs, grundnivå",
7912         "en": "Course, First-cycle"

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7924             {
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7926                 "Varde": "true"
7927             },
7928             {
7929                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
7930                 "Varde": "true"
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7934                 "Varde": "grupp.for.utsokning.grundavanceradniva"
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7939             },
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7943             },
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7946                 "Varde": "true"
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7948         ]
7949     },
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7961     "Nuvarande": true,
7962     "Paborjad": true,
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7971         "UtbildningsPeriodFran": "2009-03-16",
7972         "UtbildningsPeriodTill": "2009-06-07"
7973     }
7974 ],
7975 "Sparrad": false,
7976 "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
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7978 "SummeradHeltTillgodoraknadOmfattning": "0.0",
7979 "SummeradTillgodoraknadOmfattning": "0.0",
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7981     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
7982     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
7983     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
7984     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
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8010         "en": "Stockholm"
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8032         "en": "Full-time"
8033     },
8034     "Takt": 100
8035 },
8036 "Undervisningsform": {
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8039         "en": "Normal teaching"
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8042     "ID": 1
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8045 "UtbildningsOmfattningsvarde": "7.5",
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8047 "Utbildningskod": "UBK400",
8048 "UtbildningstillfalleUID": "d0b09c59-73da-11e8-b4e0-063f9afb40e3",
8049 "Utbildningstillfalleskod": "61538",
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8059     "RegelverkForUtbildningstyp": {
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8063                 "Varde": "true"
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8065             {

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8626         "Varde": "20"
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8633         "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
8634         "Varde": "true"
8635     },
8636     {
8637         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
8638         "Varde": "grupp.for.utsokning.grundavanceradniva"
8639     },
8640     {
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8643     },
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8647     },
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8649         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
8650         "Varde": "true"
8651     }
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8653 },
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8655 },
8656 "Utbildningsversion": 1
8657 }
8658 },
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8663     "HarTillgodoraknande": false,
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8665     "Nuvarande": true,
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8670             "Omfattningsvarde": "15.0",
8671             "Periodbenamningar": {},
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8673             "Periodindex": 1,
8674             "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
8675             "UtbildningsPeriodFran": "2009-10-26",
8676             "UtbildningsPeriodTill": "2010-01-24"
8677         }

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8683 "SummeradTillgodoraknadOmfattning": "0.0",
8684 "TillstandKurs": {
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8687   "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
8688   "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
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8691 "Utbildningsinformation": {
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8695     "en": "Pedagogical Content Knowledge - in School Service"
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8697   "Enhetskod": "HP",
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8709     }
8710   ],
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8714     "en": "Stockholm"
8715   },
8716   "Studielokaliseringrepresentation": {
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8718       "sv": "Stockholm",
8719       "en": "Stockholm"
8720     },
8721     "Giltighetsperiod": {
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8723       "Startdatum": "1917-10-19"
8724     },
8725     "ID": 131778,
8726     "Kod": "0180"
8727   },
8728   "StudieordningID": "1",

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8736             "en": "Full-time"
8737         },
8738         "Takt": 100
8739     },
8740     "Undervisningsform": {
8741         "Benamningar": {
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8743             "en": "Normal teaching"
8744         },
8745         "Giltighetsperiod": {},
8746         "ID": 1
8747     },
8748     "UtbildningUID": "8841491f-73d8-11e8-afa7-8e408e694e54",
8749     "UtbildningensOmfattningsvarde": "15.0",
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8757             "en": "Course instance"
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8761         "ID": 52,
8762         "Kod": "2007KTF",
8763         "RegelverkForUtbildningstyp": {
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8767                     "Varde": "true"
8768                 },
8769                 {
8770                     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
8771                     "Varde": "grupp.for.utsokning.grundavanceradniva"
8772                 },
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8778                     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
8779                     "Varde": "true"

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8785 ]
8786 },
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8788 },
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8792         "en": "Course, Second-cycle"
8793     },
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8795     "Grundtyp": "KURS",
8796     "ID": 24,
8797     "Kod": "2007AKURS",
8798     "RegelverkForUtbildningstyp": {
8799         "Regelvarde": [
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8811             },
8812             {
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8814                 "Varde": "true"
8815             },
8816             {
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8818                 "Varde": "true"
8819             },
8820             {
8821                 "Regelnamn": "commons.domain.regel.avbrottsregel",
8822                 "Varde": "20"
8823             },
8824             {
8825                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
8826                 "Varde": "true"
8827             }
8828         ]
8829     },
8830     "Sjalvstandig": true

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8833   }
8834 },
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8840   "LarosateID": 29,
8841   "Nuvarande": true,
8842   "Paborjad": true,
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8847       "Periodbenamningar": {},
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8851       "UtbildningsPeriodFran": "2010-08-27",
8852       "UtbildningsPeriodTill": "2010-10-31"
8853     }
8854   ],
8855   "Sparrad": false,
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8862     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
8863     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
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8871       "en": "Challenges for Special Education - Youth and Adults"
8872     },
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8876     "Omfattningsvarde": "7.5",
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8887 "SarskildSekretessprovning": false,
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8890     "en": "Stockholm"
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8895         "en": "Stockholm"
8896     },
8897     "Giltighetsperiod": {
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8902     "Kod": "0180"
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8919         "en": "Normal teaching"
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8922     "ID": 1
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8925 "UtbildningensOmfattningsvarde": "7.5",
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8962 },
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8968     "en": "Course, Second-cycle"
8969   },
8970   "Giltighetsperiod": {},
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8972   "ID": 24,
8973   "Kod": "2007AKURS",
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8975     "Regelvarden": [
8976       {
8977         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
8978         "Varde": "grupp.for.utsokning.grundavanceradniva"
8979       },
8980       {
8981         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
8982         "Varde": "true"
8983       }

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8995         },
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9031             "UtbildningsPeriodTill": "2018-06-04"
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9038     "SummeradHeltTillgodoraknadOmfattning": "0.0",
9039     "SummeradTillgodoraknadOmfattning": "0.0",
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9043         "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
9044         "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
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9051             "en": "Conducting Systematic Literature Reviews in Systems Engineering"
9052         },
9053         "Enhetskod": "HP",
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9094         "Takt": 25
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9105     "UtbildningensOmfattningsvarde": "5.0",
9106     "UtbildningsinstansUID": "9b5a0c26-73d8-11e8-b4e0-063f9afb40e3",
9107     "Utbildningskod": "FJP3101",
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9109     "Utbildningstillfalleskod": "61354",
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9113             "en": "Course instance, Third-cycle"
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9125                 {
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9127                     "Varde": "grupp.for.utsokning.forskarniva"
9128                 }
9129             ]
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9132     },
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9134         "Benamningar": {
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9136             "en": "Course, Third-cycle"

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9154           "Varde": "grupp.for.utsokning.forskarniva"
9155         },
9156         {
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9158           "Varde": "true"
9159         }
9160       ]
9161     },
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9163   },
9164   "Utbildningsversion": 1
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9171   "LarosateID": 29,
9172   "Nuvarande": true,
9173   "Paborjad": true,
9174   "Perioddeltaganden": [
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9177       "Omfattningsvarde": "5.0",
9178       "Periodbenamningar": {},
9179       "PerioddeltagandeUID": "a6776912-f00f-11e9-8679-1d653f8f4f42",
9180       "Periodindex": 1,
9181       "Registreringsperiod": {
9182         "Slutdatum": "2019-09-02",
9183         "Startdatum": "2019-08-22"
9184       },
9185       "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
9186       "UtbildningsPeriodFran": "2019-08-26",
9187       "UtbildningsPeriodTill": "2019-10-25"

```

```

9188     }
9189 ],
9190 "Sparrad": false,
9191 "Studiestrukturereferens": "8d2faf86-73d9-11e8-b9fd-0a821ba7448e,null",
9192 "SummeradGodkandOmfattning": "0.0",
9193 "SummeradHeltTillgodoraknadOmfattning": "0.0",
9194 "SummeradTillgodoraknadOmfattning": "0.0",
9195 "TillstandKurs": {
9196   "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.registrerad",
9197   "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
9198   "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
9199   "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
9200 },
9201 "UId": "a676f3e1-f00f-11e9-8679-1d653f8f4f42",
9202 "Utbildningsinformation": {
9203   "AntalPerioder": 1,
9204   "Benamning": {
9205     "sv": "Forskningsmetoder i teknikstött lärande",
9206     "en": "Research Methods in Technology Enhanced Learning"
9207   },
9208   "Enhetskod": "HP",
9209   "FinansieringsformID": 131713,
9210   "LarosateID": 29,
9211   "Omfattningsvarde": "5.0",
9212   "PeriodIOrdning": "0",
9213   "Perioder": [
9214     {
9215       "Index": 1,
9216       "Omfattningsvarde": "5.0",
9217       "Slutdatum": "2019-10-25",
9218       "Startdatum": "2019-08-26",
9219       "UId": "f6d43058-91b5-11e9-be70-a303c1114884"
9220     }
9221   ],
9222   "SarskildSekretessprovning": false,
9223   "Studielokalisering": {
9224     "sv": "KTH Campus",
9225     "en": "KTH Campus"
9226   },
9227   "Studielokaliseringrepresentation": {
9228     "Benamningar": {
9229       "sv": "KTH Campus",
9230       "en": "KTH Campus"
9231     },
9232     "Giltighetsperiod": {
9233       "Startdatum": "2018-06-20"
9234     },
9235     "ID": 135195,
9236     "Kod": "KTHCAMPUS"
9237   },
9238   "StudieordningID": "1",

```

```

9239     "Studieperiod": {
9240         "Slutdatum": "2019-10-25",
9241         "Startdatum": "2019-08-26"
9242     },
9243     "Studietakt": {
9244         "Benamning": {
9245             "sv": "Tredjedelsfart",
9246             "en": "One-third-time"
9247         },
9248         "Takt": 33
9249     },
9250     "Undervisningsform": {
9251         "Benamningar": {
9252             "sv": "Normal",
9253             "en": "Normal teaching"
9254         },
9255         "Giltighetsperiod": {},
9256         "ID": 1
9257     },
9258     "UtbildningUID": "1a16606c-8c10-11e9-be70-a303c1114884",
9259     "UtbildningensOmfattningsvarde": "5.0",
9260     "UtbildningsinstansUID": "1a166069-8c10-11e9-be70-a303c1114884",
9261     "Utbildningskod": "FDH3363",
9262     "UtbildningstillfalleUID": "f6d43053-91b5-11e9-be70-a303c1114884",
9263     "Utbildningstillfalleskod": "51409",
9264     "Utbildningstillfallestyp": {
9265         "Benamningar": {
9266             "sv": "Kurstillfälle, forskarnivå",
9267             "en": "Course instance, Third-cycle"
9268         },
9269         "Giltighetsperiod": {},
9270         "Grundtyp": "KURS",
9271         "ID": 101955,
9272         "Kod": "2007FKTF",
9273         "RegelverkForUtbildningstyp": {
9274             "Regelvarden": [
9275                 {
9276                     "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
9277                     "Varde": "true"
9278                 },
9279                 {
9280                     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
9281                     "Varde": "grupp.for.utsokning.forskarniva"
9282                 }
9283             ]
9284         },
9285         "Sjalvstandig": false
9286     },
9287     "Utbildningstyp": {
9288         "Benamningar": {
9289             "sv": "Kurs, forskarnivå",

```

```

9290     "en": "Course, Third-cycle"
9291 },
9292 "Giltighetsperiod": {},
9293 "Grundtyp": "KURS",
9294 "ID": 101954,
9295 "Kod": "2007FKURS",
9296 "RegelverkForUtbildningstyp": {
9297   "Regelvarden": [
9298     {
9299       "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
9300       "Varde": "true"
9301     },
9302     {
9303       "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
9304       "Varde": "true"
9305     },
9306     {
9307       "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
9308       "Varde": "grupp.for.utsokning.forskarniva"
9309     },
9310     {
9311       "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
9312       "Varde": "true"
9313     }
9314   ]
9315 },
9316 "Sjalvstandig": true
9317 },
9318 "Utbildningsversion": 1
9319 }
9320 },
9321 {
9322   "Aterbud": false,
9323   "Avklarad": false,
9324   "HarTillgodoraknande": false,
9325   "LarosateID": 29,
9326   "Nuvarande": true,
9327   "Paborjad": true,
9328   "Perioddeltaganden": [
9329     {
9330       "Anpassat": false,
9331       "Omfattningsvarde": "3.0",
9332       "Periodbenamningar": {},
9333       "PerioddeltagandeUID": "99835977-016c-11eb-8078-e6edba324a99",
9334       "Periodindex": 1,
9335       "Registreringsperiod": {
9336         "Slutdatum": "2020-10-22",
9337         "Startdatum": "2020-10-07"
9338       },
9339       "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
9340       "UtbildningsPeriodFran": "2020-10-21",

```

```

9341     "UtbildningsPeriodTill": "2021-01-15"
9342   }
9343 ],
9344 "Sparrad": false,
9345 "SummeradGodkandOmfattning": "0.0",
9346 "SummeradHeltTillgodoraknadOmfattning": "0.0",
9347 "SummeradTillgodoraknadOmfattning": "0.0",
9348 "TillstandKurs": {
9349   "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.registrerad",
9350   "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
9351   "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
9352   "Utbildning": "studiedeltagande.domain.tillstandsdefinition.paborjad"
9353 },
9354 "UId": "99835976-016c-11eb-8078-e6edba324a99",
9355 "Utbildningsinformation": {
9356   "AntalPerioder": 1,
9357   "Benamning": {
9358     "sv": "Handledning och examination av examensarbete på grund och avancerad nivå",
9359     "en": "Supervision and Assessment of Degree Project Work in First and Second Cycle"
9360   },
9361   "Enhetskod": "HP",
9362   "FinansieringsformID": 131741,
9363   "LarosateID": 29,
9364   "Omfattningsvarde": "3.0",
9365   "PeriodIOrdning": "0",
9366   "Perioder": [
9367     {
9368       "Index": 1,
9369       "Omfattningsvarde": "3.0",
9370       "Slutdatum": "2021-01-15",
9371       "Startdatum": "2020-10-21",
9372       "UId": "cedafe55-a634-11ea-a0cc-61a26a0147e7"
9373     }
9374   ],
9375   "SarskildSekretessprovning": false,
9376   "Studielokalisering": {
9377     "sv": "KTH Campus",
9378     "en": "KTH Campus"
9379   },
9380   "Studielokaliseringrepresentation": {
9381     "Benamningar": {
9382       "sv": "KTH Campus",
9383       "en": "KTH Campus"
9384     },
9385     "Giltighetsperiod": {
9386       "Startdatum": "2018-06-20"
9387     },
9388     "ID": 135195,
9389     "Kod": "KTHCAMPUS"
9390   },
9391   "StudieordningID": "1",

```

```

9392     "Studieperiod": {
9393         "Slutdatum": "2021-01-15",
9394         "Startdatum": "2020-10-21"
9395     },
9396     "Studietakt": {
9397         "Benamning": {
9398             "sv": "Sjättedelsfart",
9399             "en": "One-sixth-time"
9400         },
9401         "Takt": 17
9402     },
9403     "Undervisningsform": {
9404         "Benamningar": {
9405             "sv": "Normal",
9406             "en": "Normal teaching"
9407         },
9408         "Giltighetsperiod": {},
9409         "ID": 1
9410     },
9411     "UtbildningUID": "6483f61d-73d8-11e8-afa7-8e408e694e54",
9412     "UtbildningensOmfattningsvarde": "3.0",
9413     "UtbildningsinstansUID": "659a26c0-a0d9-11ea-a6be-cc3f59c64779",
9414     "Utbildningskod": "LH219V",
9415     "UtbildningstillfalleUID": "cedafe4d-a634-11ea-a0cc-61a26a0147e7",
9416     "Utbildningstillfalleskod": "50736",
9417     "Utbildningstillfallestyp": {
9418         "Benamningar": {
9419             "sv": "Kurstillfälle",
9420             "en": "Course instance"
9421         },
9422         "Giltighetsperiod": {},
9423         "Grundtyp": "KURS",
9424         "ID": 52,
9425         "Kod": "2007KTF",
9426         "RegelverkForUtbildningstyp": {
9427             "Regelvarde": [
9428                 {
9429                     "Regelnamn": "commons.domain.regel.kan.utannonseras",
9430                     "Varde": "true"
9431                 },
9432                 {
9433                     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
9434                     "Varde": "grupp.for.utsokning.grundavanceradniva"
9435                 },
9436                 {
9437                     "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
9438                     "Varde": "true"
9439                 },
9440                 {
9441                     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
9442                     "Varde": "true"

```

```

9443     },
9444     {
9445         "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
9446         "Varde": "varning"
9447     }
9448 ]
9449 },
9450 "Sjalvstandig": false
9451 },
9452 "Utbildningstyp": {
9453     "Benamningar": {
9454         "sv": "Kurs, avancerad nivå",
9455         "en": "Course, Second-cycle"
9456     },
9457     "Giltighetsperiod": {},
9458     "Grundtyp": "KURS",
9459     "ID": 24,
9460     "Kod": "2007AKURS",
9461     "RegelverkForUtbildningstyp": {
9462         "Regelvarde": [
9463             {
9464                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
9465                 "Varde": "grupp.for.utsokning.grundavanceradniva"
9466             },
9467             {
9468                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
9469                 "Varde": "true"
9470             },
9471             {
9472                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
9473                 "Varde": "true"
9474             },
9475             {
9476                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
9477                 "Varde": "true"
9478             },
9479             {
9480                 "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
9481                 "Varde": "true"
9482             },
9483             {
9484                 "Regelnamn": "commons.domain.regel.avbrottsregel",
9485                 "Varde": "20"
9486             },
9487             {
9488                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
9489                 "Varde": "true"
9490             }
9491         ]
9492     },
9493     "Sjalvstandig": true

```



```

9494     },
9495     "Utbildningsversion": 3
9496   }
9497 }
9498 ]

```

## 17.5 registrations\_on\_course\_JSON

This method returns all registrations for a particular course for a particular student. This way we can check if a student has been registered several times on a course.

370a *<LadokSession data methods 151b>+≡*

```

def registrations_on_course_JSON(
    self, course_education_id: str, student_id: str) -> list:
    """
    Return a list of registrations on course with education_id for student with
    student_id. JSON format.
    """
    data = self.get_query(
        "/studiedeltagande/internal/tillfallesdeltagande"
        f"/utbildning/{course_education_id}/student/{student_id}",
        "application/vnd.ladok-studiedeltagande+json"
    )

    try:
        return data["Tillfallesdeltaganden"]
    except KeyError as err:
        err.add_note(f"Response data: {data}")
        raise LadokAPIError(f"Unexpected response format when fetching registrations for "
            f"student {student_id} on course {course_education_id}: "
            f"missing 'Tillfallesdeltaganden' key") from err

```

We add the following test.

370b *<test functions 151a>+≡*

```

def test_registrations_on_course_JSON() -> None:
    results = ladok.registrations_on_course_JSON(dasak_education_id, student_uid)
    assert json.dumps(results, indent=2, ensure_ascii=False)

```

This code is used in chunk 146.

The output looks like this.

```

1  [
2    {
3      "Aterbud": false,
4      "Avklarad": true,
5      "Godkannandedatum": "2010-04-07",
6      "HarTillgodoraknande": false,
7      "LarosateID": 29,
8      "Nuvarande": true,
9      "Paborjad": true,
10     "Perioddeltaganden": [
11       {

```

```

12     "Anpassat": false,
13     "Omfattningsvarde": "6.0",
14     "Periodbenamningar": {},
15     "PerioddeltagandeUID": "9940554d-73f2-11e8-b9fd-0a821ba7448e",
16     "Periodindex": 1,
17     "Tillstand": "studiedeltagande.domain.tillstandsdefinition.registrerad",
18     "UtbildningsPeriodFran": "2010-01-18",
19     "UtbildningsPeriodTill": "2010-03-21"
20 }
21 ],
22 "Sparrad": false,
23 "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
24 "SummeradGodkandOmfattning": "6.0",
25 "SummeradHeltTillgodoraknadOmfattning": "0.0",
26 "SummeradTillgodoraknadOmfattning": "0.0",
27 "TillstandKurs": {
28     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
29     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
30     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
31     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
32 },
33 "Uid": "99402e3c-73f2-11e8-b9fd-0a821ba7448e",
34 "Utbildningsinformation": {
35     "AntalPerioder": 1,
36     "Benamning": {
37         "sv": "Datasäkerhet",
38         "en": "Computer Security"
39     },
40     "Enhetskod": "HP",
41     "FinansieringsformID": 101050,
42     "LarosateID": 29,
43     "Omfattningsvarde": "6.0",
44     "PeriodIOrdning": "0",
45     "Perioder": [
46         {
47             "Index": 1,
48             "Omfattningsvarde": "6.0",
49             "Slutdatum": "2010-03-21",
50             "Startdatum": "2010-01-18",
51             "Uid": "79a9402f-73da-11e8-afa7-8e408e694e54"
52         }
53     ],
54     "SarskildSekretessprovning": false,
55     "Studielokalisering": {
56         "sv": "Stockholm",
57         "en": "Stockholm"
58     },
59     "Studielokaliseringrepresentation": {
60         "Benamningar": {
61             "sv": "Stockholm",
62             "en": "Stockholm"

```

```

63     },
64     "Giltighetsperiod": {
65         "Slutdatum": "2019-01-14",
66         "Startdatum": "1917-10-19"
67     },
68     "ID": 131778,
69     "Kod": "0180"
70 },
71 "StudieordningID": "1",
72 "Studieperiod": {
73     "Slutdatum": "2010-03-21",
74     "Startdatum": "2010-01-18"
75 },
76 "Studietakt": {
77     "Benamning": {
78         "sv": "Helfart",
79         "en": "Full-time"
80     },
81     "Takt": 100
82 },
83 "Undervisningsform": {
84     "Benamningar": {
85         "sv": "Normal",
86         "en": "Normal teaching"
87     },
88     "Giltighetsperiod": {},
89     "ID": 1
90 },
91 "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
92 "UtbildningsOmfattningsvarde": "6.0",
93 "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
94 "Utbildningskod": "DD2395",
95 "UtbildningstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
96 "Utbildningstillfallekod": "81099",
97 "Utbildningstillfallestyp": {
98     "Benamningar": {
99         "sv": "Kurstillfälle",
100        "en": "Course instance"
101    },
102    "Giltighetsperiod": {},
103    "Grundtyp": "KURS",
104    "ID": 52,
105    "Kod": "2007KTF",
106    "RegelverkForUtbildningstyp": {
107        "Regelvarden": [
108            {
109                "Regelnamn": "commons.domain.regel.kan.utannonseras",
110                "Varde": "true"
111            },
112            {
113                "Regelnamn": "commons.domain.regel.grupp.for.utsokning",

```

```

114         "Varde": "grupp.for.utsokning.grundavanceradniva"
115     },
116     {
117         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
118         "Varde": "true"
119     },
120     {
121         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
122         "Varde": "true"
123     },
124     {
125         "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
126         "Varde": "varning"
127     }
128 ]
129 },
130 "Sjalvstandig": false
131 },
132 "Utbildningstyp": {
133     "Benamningar": {
134         "sv": "Kurs, avancerad nivå",
135         "en": "Course, Second-cycle"
136     },
137     "Giltighetsperiod": {},
138     "Grundtyp": "KURS",
139     "ID": 24,
140     "Kod": "2007AKURS",
141     "RegelverkForUtbildningstyp": {
142         "Regelvarden": [
143             {
144                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
145                 "Varde": "grupp.for.utsokning.grundavanceradniva"
146             },
147             {
148                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
149                 "Varde": "true"
150             },
151             {
152                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
153                 "Varde": "true"
154             },
155             {
156                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
157                 "Varde": "true"
158             },
159             {
160                 "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
161                 "Varde": "true"
162             },
163             {
164                 "Regelnamn": "commons.domain.regel.avbrottsregel",

```

```

165         "Varde": "20"
166     },
167     {
168         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
169         "Varde": "true"
170     }
171 ]
172 },
173 "Sjalvstandig": true
174 },
175 "Utbildningsversion": 1
176 }
177 }
178 ]

```

## 17.6 studystucture\_student\_JSON

We also want to get a student's study structure, that is programmes that they are admitted to.

374a *<LadokSession data methods 151b>+≡*

```

# added by GQMJr
def studystucture_student_JSON(self, uid: str) -> dict:
    """
    Returns a dictionary of student information. This contains programmes that
    the student is admitted to.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/studiedeltagande/internal/studiestruktur/student/'+uid,
        headers=self.headers)
    if r.status_code == 200:
        return r.json()
    raise LadokAPIError(f"can't get study structure for student {uid}: {r.text}")

```

Let's add a test. This should return a dictionary.

374b *<test functions 151a>+≡*

```

def test_studystucture_student_JSON() -> None:
    r = ladok.studystucture_student_JSON(student_uid)
    assert type(r) == dict

```

This code is used in chunk 146.

The output looks like this:

```

1 {
2   "Studiestrukturer": [
3     {
4       "Barn": [],
5       "Referens": "8d2faf86-73d9-11e8-b9fd-0a821ba7448e,null",
6       "Tillfalllesdeltagande": {
7         "Aterbud": false,
8         "Avklarad": false,

```

```

9      "HarPagandeUppehall": false,
10     "LarosateID": 29,
11     "Nuvarande": true,
12     "Paborjad": true,
13     "SenareDel": false,
14     "Sparrad": false,
15     "Studiestruktureferens": "8d2faf86-73d9-11e8-b9fd-0a821ba7448e,null",
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21       "ValTillgangligtFranOchMed": "2014-07-01"
22     },
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25       "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.ejpagaende.pga.inaktivi
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27     },
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32       "Benamning": {
33         "sv": "Datalogi",
34         "en": "Computer Science"
35       },
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47         }
48       ],
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63     "Utbildningstillfallestyp": {
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65             "sv": "\u00c4mnestillf\u00e4lle, forskarniv\u00e5",
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67         },
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71         "Kod": "2007FATF",
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74                 {
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93         "ID": 101956,
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103                     "Varde": "240"
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111         "Varde": "grupp.for.utsokning.forskarniva"
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208 },
209 "Utbildningsversion": 1
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221                 "Godkannandedatum": "2012-04-26",
222                 "HarPagandeUppehall": false,
223                 "LarosateID": 29,
224                 "Nuvarande": true,
225                 "Paborjad": true,
226                 "Sparrad": false,
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287             "en": "Full-time"
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289         "Takt": 100
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307             "sv": "Inriktningstillf\u00e4lle",
308             "en": "Specialisation instance"
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378     ],
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460                 },
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467                     "Varde": "false"

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484     "Nuvarande": true,
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506             "en": "Master of Science in Engineering and of Education"
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548         "en": "Full-time"
549     },
550     "Takt": 100
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552 "Undervisningsform": {
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555         "en": "Normal teaching"
556     },
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584         },
585         {
586           "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
587           "Varde": "true"
588         },
589         {
590           "Regelnamn": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",
591           "Varde": "varning"
592         },
593         {
594           "Regelnamn": "commons.domain.regel.kan.utannonseras",
595           "Varde": "true"
596         }
597       ]
598     },
599     "Sjalvstandig": false
600   },
601   "Utbildningstyp": {
602     "Benamningar": {
603       "sv": "Program",
604       "en": "Programme"
605     },
606     "Giltighetsperiod": {},
607     "Grundtyp": "KURSPAKETERING",
608     "ID": 78,
609     "Kod": "2007PRG",
610     "RegelverkForUtbildningstyp": {
611       "Regelvarden": [
612         {
613           "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
614           "Varde": "true"
615         },
616         {
617           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
618           "Varde": "grupp.for.utsokning.grundavanceradniva"
619         },
620         {

```

```

621         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
622         "Varde": "true"
623     },
624     {
625         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
626         "Varde": "true"
627     }
628 ],
629 },
630 "Sjalvstandig": true
631 },
632 "Utbildningsversion": 1
633 },
634 "YtterstaPaketeringen": true
635 },
636 "Utbildningsinformation": {
637     "AntalPerioder": 1,
638     "Benamning": {
639         "sv": "Civilingenj\u00f6r och l\u00e4rare",
640         "en": "Master of Science in Engineering and of Education"
641     },
642     "Enhetskod": "HP",
643     "FinansieringsformID": 101050,
644     "LarosateID": 29,
645     "Omfattningsvarde": "300.0",
646     "PeriodIOrdning": "0",
647     "Perioder": [
648         {
649             "Index": 1,
650             "Omfattningsvarde": "300.0",
651             "Slutdatum": "2011-05-28",
652             "Startdatum": "2006-08-30",
653             "UId": "d674e59d-73da-11e8-afa7-8e408e694e54"
654         }
655     ],
656     "SarskildSekretessprovning": false,
657     "SenareDel": false,
658     "Studielokalisering": {
659         "sv": "Stockholm",
660         "en": "Stockholm"
661     },
662     "Studielokaliseringrepresentation": {
663         "Benamningar": {
664             "sv": "Stockholm",
665             "en": "Stockholm"
666         },
667         "Giltighetsperiod": {
668             "Slutdatum": "2019-01-14",
669             "Startdatum": "1917-10-19"
670         },
671         "ID": 131778,

```

```

672     "Kod": "0180"
673 },
674 "StudieordningID": "1",
675 "Studieperiod": {
676     "Slutdatum": "2011-05-28",
677     "Startdatum": "2006-08-30"
678 },
679 "Studietakt": {
680     "Benamning": {
681         "sv": "Helfart",
682         "en": "Full-time"
683     },
684     "Takt": 100
685 },
686 "Undervisningsform": {
687     "Benamningar": {
688         "sv": "Normal",
689         "en": "Normal teaching"
690     },
691     "Giltighetsperiod": {},
692     "ID": 1
693 },
694 "UtbildningUID": "a0ae2f2c-73d8-11e8-afa7-8e408e694e54",
695 "UtbildningensOmfattningsvarde": "300.0",
696 "UtbildningsinstansUID": "a0ae2f1d-73d8-11e8-afa7-8e408e694e54",
697 "Utbildningskod": "CL",
698 "UtbildningstillfalleUID": "d67449a2-73da-11e8-b4e0-063f9afb40e3",
699 "Utbildningstillfalleskod": "KONV-0008B",
700 "Utbildningstillfallestyp": {
701     "Benamningar": {
702         "sv": "Programtillf\u00e4lle",
703         "en": "Programme instance"
704     },
705     "Giltighetsperiod": {},
706     "Grundtyp": "KURSPAKETERING",
707     "ID": 94,
708     "Kod": "2007PRGTF",
709     "RegelverkForUtbildningstyp": {
710         "Regelvarden": [
711             {
712                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
713                 "Varde": "grupp.for.utsokning.grundavanceradniva"
714             },
715             {
716                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
717                 "Varde": "true"
718             },
719             {
720                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
721                 "Varde": "true"
722             }

```

```

723         {
724             "Regelnamn": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",
725             "Varde": "varning"
726         },
727         {
728             "Regelnamn": "commons.domain.regel.kan.utannonseras",
729             "Varde": "true"
730         }
731     ],
732 },
733 "Sjalvstandig": false
734 },
735 "Utbildningstyp": {
736     "Benamningar": {
737         "sv": "Program",
738         "en": "Programme"
739     },
740     "Giltighetsperiod": {},
741     "Grundtyp": "KURSPAKETERING",
742     "ID": 78,
743     "Kod": "2007PRG",
744     "RegelverkForUtbildningstyp": {
745         "Regelvarden": [
746             {
747                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
748                 "Varde": "true"
749             },
750             {
751                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
752                 "Varde": "grupp.for.utsokning.grundavanceradniva"
753             },
754             {
755                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
756                 "Varde": "true"
757             },
758             {
759                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
760                 "Varde": "true"
761             }
762         ]
763     },
764     "Sjalvstandig": true
765 },
766 "Utbildningsversion": 1
767 }
768 }
769 ]
770 }

```

## Chapter 18

# Course-related API calls

### 18.1 search\_course\_rounds\_JSON

We want to search for course rounds by one or more keys.

```
390a <LadokSession data methods 151b> +=  
def search_course_rounds_JSON(self, /, **kwargs) -> list:  
    """Query LADOK about course rounds, possible keys:  
    code, round_code, name  
    """  
    url = "/resultat/internal/kurstillfalle/filtrera?"  
  
    if "code" in kwargs:  
        url += f"kurskod={kwargs['code']}&"  
    if "name" in kwargs:  
        url += f"benamning={kwargs['name']}&"  
    if "round_code" in kwargs:  
        url += f"tillfalleskod={kwargs['round_code']}&"  
  
    url += "page=1&limit=400&sprakkod=sv"  
  
    data = self.get_query(url)  
  
    try:  
        return data["Resultat"]  
    except KeyError as err:  
        err.add_note(f"Response data: {data}")  
        raise LadokAPIError(f"Unexpected response format when searching for course rounds: "  
                             f"missing 'Resultat' key") from err
```

We add the following test.

```
390b <test functions 151a> +=  
def test_search_course_rounds_JSON() -> None:  
    results = ladok.search_course_rounds_JSON(code="DD1317")  
    assert results
```

This code is used in chunk 146.

The output looks like this.

```

1  [
2    {
3      "FinansieringsformID": 101050,
4      "Slutdatum": "2027-01-11",
5      "Startdatum": "2026-08-24",
6      "StudielokaliseringID": 135195,
7      "StudietaktID": 6,
8      "TillfallesKod": "10768",
9      "UId": "9731dce7-c60c-11f0-9aa4-4a24d5f444fb",
10     "UndervisningsformID": 1,
11     "Utbildningsinstans": {
12       "Avvecklad": false,
13       "Benamning": [
14         {
15           "Sprakkod": "sv",
16           "Text": "Programmeringsteknik"
17         },
18         {
19           "Sprakkod": "en",
20           "Text": "Programming Techniques"
21         }
22       ],
23       "Enhet": "HP",
24       "GallerUtbildningUtanAngivenOmfattning": false,
25       "Omfattning": 7.5,
26       "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
27       "ResultatPaKursVidAttesteringAvModul": false,
28       "UId": "70d5fdb1-2db7-11ec-bb06-8c8c04c8482a",
29       "UtbildningUID": "70d5fdb9-2db7-11ec-bb06-8c8c04c8482a",
30       "Utbildningskod": "DD1317",
31       "Versionsnummer": 1
32     }
33   },
34   {
35     "FinansieringsformID": 101050,
36     "Slutdatum": "2026-01-12",
37     "Startdatum": "2025-08-25",
38     "StudielokaliseringID": 135195,
39     "StudietaktID": 6,
40     "TillfallesKod": "50441",
41     "UId": "c2e79045-b95c-11ef-9553-beecfac44351",
42     "UndervisningsformID": 1,
43     "Utbildningsinstans": {
44       "Avvecklad": false,
45       "Benamning": [
46         {
47           "Sprakkod": "sv",
48           "Text": "Programmeringsteknik"
49         },

```

```

50     {
51         "Sprakkod": "en",
52         "Text": "Programming Techniques"
53     }
54 ],
55 "Enhet": "HP",
56 "GallerUtbildningUtanAngivenOmfattning": false,
57 "Omfattning": 7.5,
58 "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
59 "ResultatPaKursVidAttestingAvModul": false,
60 "Uid": "70d5fdb1-2db7-11ec-bb06-8c8c04c8482a",
61 "UtbildningUID": "70d5fdb9-2db7-11ec-bb06-8c8c04c8482a",
62 "Utbildningskod": "DD1317",
63 "Versionsnummer": 1
64 }
65 },
66 {
67     "FinansieringsformID": 101050,
68     "Slutdatum": "2025-01-13",
69     "Startdatum": "2024-08-26",
70     "StudielokaliseringID": 135195,
71     "StudietaktID": 6,
72     "TillfallesKod": "51345",
73     "Uid": "500c3e9f-8f71-11ee-b4f1-bdc8f0e04f23",
74     "UndervisningsformID": 1,
75     "Utbildningsinstans": {
76         "Avvecklad": false,
77         "Benamning": [
78             {
79                 "Sprakkod": "sv",
80                 "Text": "Programmeringsteknik"
81             },
82             {
83                 "Sprakkod": "en",
84                 "Text": "Programming Techniques"
85             }
86         ],
87         "Enhet": "HP",
88         "GallerUtbildningUtanAngivenOmfattning": false,
89         "Omfattning": 7.5,
90         "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
91         "ResultatPaKursVidAttestingAvModul": false,
92         "Uid": "70d5fdb1-2db7-11ec-bb06-8c8c04c8482a",
93         "UtbildningUID": "70d5fdb9-2db7-11ec-bb06-8c8c04c8482a",
94         "Utbildningskod": "DD1317",
95         "Versionsnummer": 1
96     }
97 },
98 {
99     "FinansieringsformID": 101050,
100    "Slutdatum": "2024-01-15",

```

```

101     "Startdatum": "2023-08-28",
102     "StudielokaliseringID": 135195,
103     "StudietaktID": 6,
104     "TillfallesKod": "50566",
105     "UId": "04217d06-7baf-11ed-83fc-99df00a14a2f",
106     "UndervisningsformID": 1,
107     "Utbildningsinstans": {
108         "Avvecklad": false,
109         "Benamning": [
110             {
111                 "Sprakkod": "sv",
112                 "Text": "Programmeringsteknik"
113             },
114             {
115                 "Sprakkod": "en",
116                 "Text": "Programming Techniques"
117             }
118         ],
119         "Enhet": "HP",
120         "GallerUtbildningUtanAngivenOmfattning": false,
121         "Omfattning": 7.5,
122         "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
123         "ResultatPaKursVidAttesteringAvModul": false,
124         "UId": "70d5fdb1-2db7-11ec-bb06-8c8c04c8482a",
125         "UtbildningUID": "70d5fdb9-2db7-11ec-bb06-8c8c04c8482a",
126         "Utbildningskod": "DD1317",
127         "Versionsnummer": 1
128     }
129 },
130 {
131     "FinansieringsformID": 101050,
132     "Slutdatum": "2023-01-16",
133     "Startdatum": "2022-08-29",
134     "StudielokaliseringID": 135195,
135     "StudietaktID": 6,
136     "TillfallesKod": "51035",
137     "UId": "e45347cc-5cbd-11ec-b92f-2b1dd40a480d",
138     "UndervisningsformID": 1,
139     "Utbildningsinstans": {
140         "Avvecklad": false,
141         "Benamning": [
142             {
143                 "Sprakkod": "sv",
144                 "Text": "Programmeringsteknik"
145             },
146             {
147                 "Sprakkod": "en",
148                 "Text": "Programming Techniques"
149             }
150         ],
151         "Enhet": "HP",

```



```

152     "GallerUtbildningUtanAngivenOmfattning": false,
153     "Omfattning": 7.5,
154     "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
155     "ResultatPaKursVidAttesterAvModul": false,
156     "UId": "70d5fdb1-2db7-11ec-bb06-8c8c04c8482a",
157     "UtbildningUID": "70d5fdb9-2db7-11ec-bb06-8c8c04c8482a",
158     "Utbildningskod": "DD1317",
159     "Versionsnummer": 1
160 }
161 }
162 ]

```

## 18.2 course\_rounds\_JSON

This method fetches all course rounds that uses the given course instance.

394a *<LadokSession data methods 151b>+≡*

```

def course_rounds_JSON(self, course_instance_id: str) -> list:
    """Requires course instance ID"""
    data = self.get_query(
        f"/resultat/internal/kurstillfalle/kursinstans/{course_instance_id}"
    )

    try:
        return data["Utbildningstillfalle"]
    except KeyError as err:
        err.add_note(f"Response data: {data}")
        raise LadokAPIError(f"Unexpected response format when fetching course rounds for "
                             f"instance {course_instance_id}: missing 'Utbildningstillfalle' key") from err

```

We test this method as follows.

394b *<test functions 151a>+≡*

```

def test_course_rounds_JSON() -> None:
    results = ladok.course_rounds_JSON(dasak_instance_id)
    assert json.dumps(results[:1]+results[-1:], indent=2, ensure_ascii=False)

```

This code is used in chunk 146.

The output looks like this.

```

1  [
2  {
3      "FinansieringsformID": 131738,
4      "Slutdatum": "2019-01-14",
5      "Startdatum": "2018-10-29",
6      "StudielokaliseringID": 131778,
7      "StudietaktID": 5,
8      "TillfallesKod": "10069",
9      "UId": "79b4b213-73da-11e8-b4e0-063f9afb40e3",
10     "UndervisningsformID": 1,
11     "Utbildningsinstans": {
12         "Avvecklad": false,
13         "Benamning": [

```

```

14      {
15          "Sprakkod": "sv",
16          "Text": "Datasäkerhet"
17      },
18      {
19          "Sprakkod": "en",
20          "Text": "Computer Security"
21      }
22  ],
23  "Enhet": "HP",
24  "GallerUtbildningUtanAngivenOmfattning": false,
25  "Omfattning": 6.0,
26  "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
27  "ResultatPaKursVidAttestingAvModul": false,
28  "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
29  "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
30  "Utbildningskod": "DD2395",
31  "Versionsnummer": 1
32  }
33  },
34  {
35      "FinansieringsformID": 102075,
36      "Slutdatum": "2008-01-11",
37      "Startdatum": "2007-08-31",
38      "StudielokaliseringID": 131778,
39      "StudietaktID": 1,
40      "TillfallesKod": "X0054",
41      "Uid": "79a48556-73da-11e8-b4e0-063f9afb40e3",
42      "UndervisningsformID": 1,
43      "Utbildningsinstans": {
44          "Avvecklad": false,
45          "Benamning": [
46              {
47                  "Sprakkod": "sv",
48                  "Text": "Datasäkerhet"
49              },
50              {
51                  "Sprakkod": "en",
52                  "Text": "Computer Security"
53              }
54          ],
55          "Enhet": "HP",
56          "GallerUtbildningUtanAngivenOmfattning": false,
57          "Omfattning": 6.0,
58          "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
59          "ResultatPaKursVidAttestingAvModul": false,
60          "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
61          "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
62          "Utbildningskod": "DD2395",
63          "Versionsnummer": 1
64      }

```

```
65     }
66 ]
```

### 18.3 course\_instance\_JSON

This method fetches the data for a given course instance. It requires the course instance ID. (This is a slightly rewritten version of Maguire's original method.)

```
396a <LadokSession data methods 151b>+=
def course_instance_JSON(self, instance_id: str) -> dict:
    """
    Returns course instance data for a course with instance ID instance_id
    """
    try:
        return self.get_query(
            f"/resultat/internal/utbildningsinstans/kursinstans/{instance_id}"
        )
    except LadokAPIError as err:
        raise LadokAPIError(f"Failed to get course instance data for "
                            f"{instance_id}: {err}") from err
    except LadokServerError as err:
        raise LadokServerError(f"LADOK server error when getting course instance data for "
                                f"{instance_id}: {err}") from err
```

We add the following test.

```
396b <test functions 151a>+=
def test_course_instance_JSON() -> None:
    results = ladok.course_instance_JSON(dasak_instance_id)
    assert json.dumps(results, indent=2, ensure_ascii=False)
```

This code is used in chunk 146.

The output looks like this.

```
1 {
2   "Avvecklad": false,
3   "Benamning": [
4     {
5       "Sprakkod": "sv",
6       "Text": "Datasäkerhet"
7     },
8     {
9       "Sprakkod": "en",
10      "Text": "Computer Security"
11    }
12  ],
13  "BetygsskalaID": 131657,
14  "Enhet": "HP",
15  "GallerUtbildningUtanAngivenOmfattning": false,
16  "KravPaHanvisningTillBeslutshandling": false,
17  "KravPaProjekttitel": false,
18  "Omfattning": 6.0,
19  "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
```

```

20     "ResultatPaKursVidAttesteringAvModul": false,
21     "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
22     "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
23     "Utbildningskod": "DD2395",
24     "Versionsnummer": 1
25 }

```

## 18.4 course\_instances\_JSON

We can get a list of course instances for a given course code.

397a *<LadokSession data methods 151b>+≡*

```

# added by GQMJr
def course_instances_JSON(self, course_code: str, lang: str = 'sv') -> dict:
    """
    Returns a list of dictionaries with course instances for a given course code.
    The course code is a string such as "DD1310". The language code is 'en' or
    'sv'.

    Note that there seems to be a limit of 403 for the number of pages.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url + '/resultat/internal/kurstillfalle/filtrera?kurskod=' +
        course_code + '&page=1&limit=100&skipCount=false&sprakkod=' + lang, # not sure about this one /
        headers=self.headers)
    if r.status_code == requests.codes.ok:
        return r.json()
    raise LadokAPIError(f"failed to get course instances for {course_code}: {r.text}")

```

Let's add a test. This should return a list of dictionaries.

397b *<test functions 151a>+≡*

```

def test_course_instances_JSON() -> None:
    r = ladok.course_instances_JSON('DD2395')
    assert type(r) == dict

```

This code is used in chunk 146.

The output looks like this:

```

1  {
2    "Resultat": [
3      {
4        "FinansieringsformID": 101050,
5        "Slutdatum": "2026-10-23",
6        "Startdatum": "2026-08-24",
7        "StudielokaliseringID": 135195,
8        "StudietaktID": 4,
9        "TillfallesKod": "11547",
10       "Uid": "c0608917-c9de-11f0-a255-650837bd40cf",
11       "UndervisningsformID": 1,
12       "Utbildningsinstans": {
13         "Avvecklad": false,
14         "Benamning": [

```

```

15      {
16        "Sprakkod": "sv",
17        "Text": "Datas\u00e4kerhet"
18      },
19      {
20        "Sprakkod": "en",
21        "Text": "Computer Security"
22      }
23    ],
24    "Enhet": "HP",
25    "GallerUtbildningUtanAngivenOmfattning": false,
26    "Omfattning": 6.0,
27    "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
28    "ResultatPaKursVidAttesteringAvModul": false,
29    "Uid": "0e358c21-03f0-11f0-a627-6c90d47f45b9",
30    "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
31    "Utbildningskod": "DD2395",
32    "Versionsnummer": 3
33  }
34 },
35 {
36   "FinansieringsformID": 131738,
37   "Slutdatum": "2026-10-23",
38   "Startdatum": "2026-08-24",
39   "StudielokaliseringID": 135195,
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2122                 }
2123             ],
2124             "Enhhet": "HP",
2125             "GallerUtbildningUtanAngivenOmfattning": false,
2126             "Omfattning": 6.0,
2127             "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
2128             "ResultatPaKursVidAttesteringAvModul": false,
2129             "UId": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
2130             "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
2131             "Utbildningskod": "DD2395",
2132             "Versionsnummer": 1
2133         }
2134     },
2135     {
2136         "FinansieringsformID": 101050,
2137         "Slutdatum": "2008-05-26",
2138         "Startdatum": "2008-01-14",
2139         "StudielokaliseringID": 131778,
2140         "StudietaktID": 1,
2141         "TillfallesKod": "DD038",
2142         "UId": "79a48557-73da-11e8-b4e0-063f9afb40e3",
2143         "UndervisningsformID": 1,
2144         "Utbildningsinstans": {
2145             "Avvecklad": false,
2146             "Benamning": [
2147                 {
2148                     "Sprakkod": "sv",
2149                     "Text": "Datas\u00e4kerhet"
2150                 },
2151                 {
2152                     "Sprakkod": "en",
2153                     "Text": "Computer Security"
2154                 }
2155             ],
2156             "Enhhet": "HP",

```

```

2157         "GallerUtbildningUtanAngivenOmfattning": false,
2158         "Omfattning": 6.0,
2159         "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
2160         "ResultatPaKursVidAttesteringAvModul": false,
2161         "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
2162         "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
2163         "Utbildningskod": "DD2395",
2164         "Versionsnummer": 1
2165     }
2166 },
2167 {
2168     "FinansieringsformID": 101050,
2169     "Slutdatum": "2008-01-11",
2170     "Startdatum": "2007-08-31",
2171     "StudielokaliseringID": 131778,
2172     "StudietaktID": 1,
2173     "TillfallesKod": "DD038",
2174     "Uid": "79a48555-73da-11e8-b4e0-063f9afb40e3",
2175     "UndervisningsformID": 1,
2176     "Utbildningsinstans": {
2177         "Avvecklad": false,
2178         "Benamning": [
2179             {
2180                 "Sprakkod": "sv",
2181                 "Text": "Datas\u00e4kerhet"
2182             },
2183             {
2184                 "Sprakkod": "en",
2185                 "Text": "Computer Security"
2186             }
2187         ],
2188         "Enhet": "HP",
2189         "GallerUtbildningUtanAngivenOmfattning": false,
2190         "Omfattning": 6.0,
2191         "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
2192         "ResultatPaKursVidAttesteringAvModul": false,
2193         "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
2194         "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
2195         "Utbildningskod": "DD2395",
2196         "Versionsnummer": 1
2197     }
2198 },
2199 {
2200     "FinansieringsformID": 102075,
2201     "Slutdatum": "2008-01-11",
2202     "Startdatum": "2007-08-31",
2203     "StudielokaliseringID": 131778,
2204     "StudietaktID": 1,
2205     "TillfallesKod": "X0054",
2206     "Uid": "79a48556-73da-11e8-b4e0-063f9afb40e3",
2207     "UndervisningsformID": 1,

```

```

2208     "Utbildningsinstans": {
2209         "Avvecklad": false,
2210         "Benamning": [
2211             {
2212                 "Sprakkod": "sv",
2213                 "Text": "Datas\u00e4kerhet"
2214             },
2215             {
2216                 "Sprakkod": "en",
2217                 "Text": "Computer Security"
2218             }
2219         ],
2220         "Enhhet": "HP",
2221         "GallerUtbildningUtanAngivenOmfattning": false,
2222         "Omfattning": 6.0,
2223         "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
2224         "ResultatPaKursVidAttesteringAvModul": false,
2225         "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
2226         "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
2227         "Utbildningskod": "DD2395",
2228         "Versionsnummer": 1
2229     }
2230 }
2231 ],
2232 "TotaltAntalPoster": 73
2233 }

```

## 18.5 instance\_info

This function gets a course instance by the combination of course code (e.g., DD1310) and the five digit round code (e.g., 50429).

```

441 <LadokSession data methods 151b>+=
    # added by GQMJr
    def instance_info(
        self, course_code: str, instance_code: str, lang: str = 'sv') -> dict:
        """
        Returns a dictionary of course instance information.

        course_code          - course code, such as "DD1310"

        instance_code        - instance of the course ('TillfallesKod')

        lang                 - language code 'en' or 'sv', defaults to 'sv'
        """
        r = self.session.get(
            url=self.base_gui_proxy_url +
                '/resultat/internal/kurstillfalle/filtrera?kurskod=' + course_code +
                '&page=1&limit=25&skipCount=false&sprakkod=' + lang,
            headers=self.headers)
        if r.status_code == requests.codes.ok:

```



```

    rj=r.json()
    for course in rj['Resultat']:
        if course['TillfalllesKod'] == instance_code:
            return course
    # If we get here, the course instance was not found
    raise LadokNotFoundError(f"course instance {instance_code} not found for course {course_code}")
    raise LadokAPIError(f"failed to search for course instance {course_code}/{instance_code}: {r.text}")

```

Let's add a test. This should return a dictionary.

```

442 <test functions 151a>+≡
def test_instance_info() -> None:
    r = ladok.instance_info('DD1310', '50429')
    assert type(r) == dict

```

This code is used in chunk 146.

The output looks like this:

```

1  {
2      "FinansieringsformID": 101050,
3      "Slutdatum": "2025-01-13",
4      "Startdatum": "2024-08-26",
5      "StudielokaliseringID": 135195,
6      "StudietaktID": 7,
7      "TillfalllesKod": "50429",
8      "Uid": "da99b691-8f70-11ee-b4f1-bdc8f0e04f23",
9      "UndervisningsformID": 1,
10     "Utbildningsinstans": {
11         "Avvecklad": false,
12         "Benamning": [
13             {
14                 "Sprakkod": "sv",
15                 "Text": "Programmeringsteknik"
16             },
17             {
18                 "Sprakkod": "en",
19                 "Text": "Programming Techniques"
20             }
21         ],
22         "Enhet": "HP",
23         "GallerUtbildningUtanAngivenOmfattning": false,
24         "Omfattning": 6.0,
25         "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
26         "ResultatPaKursVidAttesteringAvModul": false,
27         "Uid": "4cf550c7-d6b5-11e8-8fd5-cf9d2c5c41ba",
28         "UtbildningUID": "386a70fa-73d8-11e8-afa7-8e408e694e54",
29         "Utbildningskod": "DD1310",
30         "Versionsnummer": 2
31     }
32 }

```

## 18.6 instance\_info\_uid

This function returns the same as above (`instance_info`) but uses the course's LADOK ID. This ID can be found as the `sis_course_id` in Canvas.

```
443a <LadokSession data methods 151b>+=
    # added by GQMJr
    def instance_info_uid(self, instance_uid: str) -> dict:
        """
        Returns a dictionary of course instance information.

        instance_uid: course's Uid (from course_integration_id or
                        sis_course_id in Canvas)
        """
        r = self.session.get(
            url=self.base_gui_proxy_url +
              '/resultat/internal/kurstillfalle/'+instance_uid,
            headers=self.headers)
        if r.status_code == requests.codes.ok:
            return r.json()
        raise LadokAPIError(f"failed to get course instance info for {instance_uid}: {r.text}")

    Let's add a test. This should return a dictionary.

443b <test functions 151a>+=
    def test_instance_info_uid() -> None:
        r = ladok.instance_info_uid(dasak_round_id)
        assert type(r) == dict
```

This code is used in chunk 146.

The output looks like this:

```
1 {
2   "FinansieringsformID": 101050,
3   "Slutdatum": "2010-03-21",
4   "Startdatum": "2010-01-18",
5   "StudielokaliseringID": 131778,
6   "StudietaktID": 1,
7   "TillfallesKod": "81099",
8   "Uid": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
9   "UndervisningsformID": 1,
10  "Utbildningsinstans": {
11    "Avvecklad": false,
12    "Benamning": [
13      {
14        "Sprakkod": "sv",
15        "Text": "Datas\u00e4kerhet"
16      },
17      {
18        "Sprakkod": "en",
19        "Text": "Computer Security"
20      }
21    ],
22    "Enhet": "HP",
```

```

23     "GallerUtbildningUtanAngivenOmfattning": false,
24     "Omfattning": 6.0,
25     "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
26     "ResultatPaKursVidAttesteringAvModul": false,
27     "Uid": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
28     "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
29     "Utbildningskod": "DD2395",
30     "Versionsnummer": 1
31 }
32 }

```

## 18.7 Course components

There are two ways to get the components for a course.

### 18.7.1 `course_round_components_JSON`

This method fetches the course components of a course round from LADOK. It requires the course round ID. This one includes data such as the number of registered students as well, unlike the method in the next section.

```

444 <LadokSession data methods 151b>+≡
    def course_round_components_JSON(self, round_id: str) -> list:
        """
        Fetch course components for a given course round.

        Args:
            round_id (str): The unique identifier of the course round.

        Returns:
            list: A list of course component JSON objects.

        Raises:
            LadokServerError: If the request fails or server returns an error message.
        """
        data = self.put_query(
            "/resultat/internal/kurstillfalle/moment",
            {"Identitet": [round_id]}
        )

        try:
            return data["MomentPerKurstillfallen"][0]["Moment"]
        except (KeyError, IndexError) as err:
            err.add_note(f"Response data: {data}")
            raise LadokAPIError(f"Unexpected response format when fetching components for "
                                f"round {round_id}: {type(err).__name__}") from err

```

We add the following test.

```
445 <test functions 151a>+≡
def test_course_round_components_JSON() -> None:
    components = ladok.course_round_components_JSON(dasak_round_id)
    assert json.dumps(components, indent=2, ensure_ascii=False)
```

This code is used in chunk 146.

The output looks like this.

```
1 {
2   "AntalRegistrerade": 0,
3   "Benamning": {
4     "sv": "Datasäkerhet",
5     "en": "Computer Security"
6   },
7   "BetygsskalaID": 131657,
8   "Enhet": "HP",
9   "GallerUtbildningUtanAngivenOmfattning": false,
10  "IngaendeMoment": [
11    {
12      "Benamning": {
13        "sv": "Laborationer",
14        "en": "Laboratory Work"
15      },
16      "BetygsskalaID": 131656,
17      "Enhet": "HP",
18      "GallerUtbildningUtanAngivenOmfattning": false,
19      "KravPaProjekttitel": false,
20      "Omfattning": 3.0,
21      "ResultatrapporteringMojlig": true,
22      "UtbildningUID": "39ca27fe-73d8-11e8-afa7-8e408e694e54",
23      "UtbildningsinstansUID": "39ca2861-73d8-11e8-b4e0-063f9afb40e3",
24      "Utbildningskod": "LAB1"
25    },
26    {
27      "Benamning": {
28        "sv": "Tentamen",
29        "en": "Examination"
30      },
31      "BetygsskalaID": 131657,
32      "Enhet": "HP",
33      "GallerUtbildningUtanAngivenOmfattning": false,
34      "KravPaProjekttitel": false,
35      "Omfattning": 3.0,
36      "ResultatrapporteringMojlig": true,
37      "UtbildningUID": "39c593d1-73d8-11e8-afa7-8e408e694e54",
38      "UtbildningsinstansUID": "39c5947b-73d8-11e8-b4e0-063f9afb40e3",
39      "Utbildningskod": "TEN1"
40    }
41  ],
42  "KravPaProjekttitel": false,
```

```

43  "Kurstillfalleskod": "81099",
44  "Omfattning": 6.0,
45  "ResultatrapporteringMojlig": true,
46  "Slutdatum": "2010-03-21 ",
47  "Startdatum": "2010-01-18 ",
48  "Studietaktsbenamning": {
49      "sv": "Helfart",
50      "en": "Full-time"
51  },
52  "Takt": 100,
53  "Undervisningsformbenamning": {
54      "sv": "Normal",
55      "en": "Normal teaching"
56  },
57  "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
58  "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
59  "Utbildningskod": "DD2395",
60  "Versionsnummer": 1
61  }

```

### 18.7.2 course\_instance\_components\_JSON

This method fetches the course components for a course instance, i.e., a version of the syllabus.

```

446  <LadokSession data methods 151b>+=
    def course_instance_components_JSON(self, course_instance_id: str) -> dict:
        """
        Fetch course components for a given course instance.

        Args:
            course_instance_id (str): The unique identifier of the course instance.

        Returns:
            dict: JSON object containing course instance components.

        Raises:
            LadokServerError: If the request fails or server returns an error message.
        """
        data = self.put_query(
            "/resultat/internal/utbildningsinstans/moduler",
            {"Identitet": [course_instance_id]}
        )

        try:
            return data["Utbildningsinstans"][0]
        except (KeyError, IndexError) as err:
            err.add_note(f"Response data: {data}")
            raise LadokAPIError(f"Unexpected response format when fetching components for "
                                f"instance {course_instance_id}: {type(err).__name__}") from err

```

We add the following test code.

```
447 <test functions 151a>+=
def test_course_instance_components_JSON() -> None:
    components = ladok.course_instance_components_JSON(dasak_instance_id)
    assert json.dumps(components, indent=2, ensure_ascii=False)
```

This code is used in chunk 146.

The output looks like this.

```
1 {
2   "Avvecklad": false,
3   "Benamning": [
4     {
5       "Sprakkod": "sv",
6       "Text": "Datasäkerhet"
7     },
8     {
9       "Sprakkod": "en",
10      "Text": "Computer Security"
11    }
12  ],
13  "BetygsskalaID": 131657,
14  "Enhet": "HP",
15  "GallerUtbildningUtanAngivenOmfattning": false,
16  "KravPaHanvisningTillBeslutshandling": false,
17  "KravPaProjekttitel": false,
18  "Moduler": [
19    {
20      "Avvecklad": false,
21      "Benamning": [
22        {
23          "Sprakkod": "sv",
24          "Text": "Laborationer"
25        },
26        {
27          "Sprakkod": "en",
28          "Text": "Laboratory Work"
29        }
30      ],
31      "BetygsskalaID": 131656,
32      "Enhet": "HP",
33      "GallerUtbildningUtanAngivenOmfattning": false,
34      "KravPaHanvisningTillBeslutshandling": false,
35      "KravPaProjekttitel": false,
36      "Moduler": [],
37      "Omfattning": 3.0,
38      "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
39      "ResultatPaKursVidAttestingAvModul": false,
40      "Uid": "39ca2861-73d8-11e8-b4e0-063f9afb40e3",
41      "UtbildningUID": "39ca27fe-73d8-11e8-afa7-8e408e694e54",
42      "Utbildningskod": "LAB1",
```

```
43     "Versionsnummer": 1
44   },
45   {
46     "Avvecklad": false,
47     "Benamning": [
48       {
49         "Sprakkod": "sv",
50         "Text": "Tentamen"
51       },
52       {
53         "Sprakkod": "en",
54         "Text": "Examination"
55       }
56     ],
57     "BetygsskalaID": 131657,
58     "Enhet": "HP",
59     "GallerUtbildningUtanAngivenOmfattning": false,
60     "KravPaHanvisningTillBeslutshandling": false,
61     "KravPaProjekttitel": false,
62     "Moduler": [],
63     "Omfattning": 3.0,
64     "OrganisationUID": "638add54-dc41-11e8-8cc1-eaeeb71b497f",
65     "ResultatPaKursVidAttesteringAvModul": false,
66     "UId": "39c5947b-73d8-11e8-b4e0-063f9afb40e3",
67     "UtbildningUID": "39c593d1-73d8-11e8-afa7-8e408e694e54",
68     "Utbildningskod": "TEN1",
69     "Versionsnummer": 1
70   }
71 ],
72 "Omfattning": 6.0,
73 "OrganisationUID": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6",
74 "ResultatPaKursVidAttesteringAvModul": false,
75 "UId": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
76 "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
77 "Utbildningskod": "DD2395",
78 "Versionsnummer": 1
79 }
```

## Chapter 19

# Results-related API calls

In this chapter we look at how to fetch results from LADOK and report new results to LADOK.

### 19.1 Reported results

There are two ways to get results for a course. One method gives more data than the other.

#### 19.1.1 search\_reported\_results\_JSON

This method searches for student results for a given component on a given course round.

```
449 <LadokSession data methods 151b>+=
def search_reported_results_JSON(
    self, course_round_id: str, component_instance_id: str) -> list:
    """Requires:
    course_round_id: round_id for a course,
    component_instance_id: instance_id for a component of the course.
    """
    put_data = {
        "Filtrering": ["OBEHANDLADE", "UTKAST", "ATTESTERADE"],
        "KurstillfallenUID": [course_round_id],
        "OrderBy": [
            "EFTERNAMN_ASC",
            "FORNAMN_ASC",
            "PERSONNUMMER_ASC"
        ],
        "Limit": 400,
        "Page": 1,
        "StudenterUID": []
    }

    data = self.put_query(
        "/resultat/internal/studieresultat/rapportera"
        f"/utbildningsinstans/{component_instance_id}/sok",
```



```

    put_data)

    try:
        return data["Resultat"]
    except KeyError as err:
        err.add_note(f"Response data: {data}")
        raise LadokAPIError(f"Unexpected response format when searching for results for "
                            f"round {course_round_id}, component {component_instance_id}: "
                            f"missing 'Resultat' key") from err

```

We write the following test.

```

450 <test functions 151a>+≡
def test_search_reported_results_JSON() -> None:
    results = ladok.search_reported_results_JSON(dasak_round_id,
        LAB1_instance_id)
    assert json.dumps(results, indent=2, ensure_ascii=False)

```

This code is used in chunk 146.

The output looks like this.

```

1  [
2  {
3      "AktuellKursinstans": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
4      "AktuelltKurstillfalle": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
5      "KursUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
6      "Rapporteringskontext": {
7          "BetygsskalaID": 131656,
8          "GallerUtbildningUtanAngivenOmfattning": false,
9          "KravPaHanvisningTillBeslutshandling": false,
10         "KravPaProjekttitel": false,
11         "UtbildningUID": "39ca27fe-73d8-11e8-afa7-8e408e694e54",
12         "UtbildningsinstansUID": "39ca2861-73d8-11e8-b4e0-063f9afb40e3"
13     },
14     "ResultatPaUtbildningar": [
15         {
16             "HarFleraAttesteradeResultat": false,
17             "HarTillgodoraknande": false,
18             "HeltTillgodoraknad": false,
19             "KanExkluderas": false,
20             "SenastAttesteradeResultat": {
21                 "Anteckning": "Detaljer om modulresultat från gamla Ladok: Inläggningsdatum (idatum):[2010-04-07]",
22                 "ArDokumenteratBeslut": false,
23                 "Beslutsdatum": "2010-04-07",
24                 "Beslutsfattare": "Uppgift om examinator saknas/Not applicable",
25                 "Betygsgrad": 131658,
26                 "Betygsgradsobjekt": {
27                     "GiltigSomSlutbetyg": true,
28                     "ID": 131658,
29                     "Kod": "P"
30                 },
31                 "BetygsskalaID": 131656,
32                 "Examinationsdatum": "2010-04-07",

```

```

33     "ForbereddForBorttag": false,
34     "KursinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
35     "KurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
36     "Noteringar": [],
37     "Noteringsdefinitioner": [],
38     "ProcessStatus": 3,
39     "ResultatUID": "34b536b2-7410-11e8-b046-cb26945c40f5",
40     "SenasteResultatandring": "2018-06-20T00:29:18.739",
41     "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
42     "StudieresultatUID": "a4a4be29-73f2-11e8-b046-cb26945c40f5",
43     "Uid": "34b536b2-7410-11e8-b046-cb26945c40f5",
44     "UtbildningsinstansUID": "39ca2861-73d8-11e8-b4e0-063f9afb40e3"
45 },
46 "TotalTillgodoraknadOmfattning": 0.0,
47 "UtbildningUID": "39ca27fe-73d8-11e8-afa7-8e408e694e54"
48 },
49 {
50     "HarFleraAttesteradeResultat": false,
51     "HarTillgodoraknande": false,
52     "HeltTillgodoraknad": false,
53     "KanExkluderas": false,
54     "SenastAttesteradeResultat": {
55         "Anteckning": "Detaljer om modulresultat från gamla Ladok: Inläggningsdatum (idatum):[2010-04
56         "ArDokumenteratBeslut": false,
57         "Beslutsdatum": "2010-03-18",
58         "Beslutsfattare": "Uppgift om examinerator saknas/Not applicable",
59         "Betygsgrad": 131661,
60         "Betygsgradsobjekt": {
61             "GiltigSomSlutbetyg": true,
62             "ID": 131661,
63             "Kod": "A"
64         },
65         "BetygsskalaID": 131657,
66         "Examinationsdatum": "2010-03-18",
67         "ForbereddForBorttag": false,
68         "KursinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
69         "KurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
70         "Noteringar": [],
71         "Noteringsdefinitioner": [],
72         "ProcessStatus": 3,
73         "ResultatUID": "34b780dc-7410-11e8-b046-cb26945c40f5",
74         "SenasteResultatandring": "2018-06-20T00:29:18.754",
75         "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
76         "StudieresultatUID": "a4a4be29-73f2-11e8-b046-cb26945c40f5",
77         "Uid": "34b780dc-7410-11e8-b046-cb26945c40f5",
78         "UtbildningsinstansUID": "39c5947b-73d8-11e8-b4e0-063f9afb40e3"
79     },
80     "TotalTillgodoraknadOmfattning": 0.0,
81     "UtbildningUID": "39c593d1-73d8-11e8-afa7-8e408e694e54"
82 },
83 {

```

```

84     "HarFleraAttesteradeResultat": false,
85     "HarTillgodoraknande": false,
86     "HeltTillgodoraknad": false,
87     "KanExkluderas": false,
88     "SenastAttesteradeResultat": {
89         "Anteckning": "Detaljer om kursresultat från gamla Ladok: Inläggningsdatum (idatum):[2010-04-
90         "ArDokumenteratBeslut": false,
91         "Beslutsdatum": "2010-04-07",
92         "Beslutsfattare": "Sonja Buchegger",
93         "Betygsgrad": 131661,
94         "Betygsgradsobjekt": {
95             "GiltigSomSlutbetyg": true,
96             "ID": 131661,
97             "Kod": "A"
98         },
99         "BetygsskalaID": 131657,
100        "Examinationsdatum": "2010-04-07",
101        "ForbereddForBorttag": false,
102        "KursinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
103        "KurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
104        "Noteringar": [],
105        "Noteringsdefinitioner": [],
106        "ProcessStatus": 3,
107        "ResultatUID": "d274ed3f-741a-11e8-b046-cb26945c40f5",
108        "SenasteResultatandring": "2018-06-20T01:45:18.367",
109        "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
110        "StudieresultatUID": "a4a4be29-73f2-11e8-b046-cb26945c40f5",
111        "Uid": "d274ed3f-741a-11e8-b046-cb26945c40f5",
112        "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3"
113    },
114    "TotalTillgodoraknadOmfattning": 0.0,
115    "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54"
116 }
117 ],
118 "Student": {
119     "Efternamn": "Studentzadeh",
120     "Fornamn": "Student",
121     "Personnummer": "191234561234",
122     "Uid": "de709f81-a867-11e7-8dbf-78e86dc2470c"
123 },
124 "Uid": "a4a4be29-73f2-11e8-b046-cb26945c40f5"
125 }
126 ]

```

### 19.1.2 search\_course\_results\_JSON

Another method, which gives slightly different results is the following.

```

452 <LadokSession data methods 151b>+=
    def search_course_results_JSON(
        self, course_round_id: str, component_instance_id: str) -> list:

```

```

"""
Retrieve course results for a specific component in a course round.

Args:
    course_round_id (str): The unique identifier of the course round.
    component_instance_id (str): The unique identifier of the component instance.

Returns:
    list: List of course result JSON objects.

Raises:
    LadokAPIError: If the request fails.
"""
put_data = {
    "KurstillfallenUID": [course_round_id],
    "Tillstand": ["REGISTRERAD", "AVKLARAD", "AVBROTT"],
    "OrderBy": ["EFTERNAMN_ASC", "FORNAMN_ASC"],
    "Limit": 400,
    "Page": 1,
}

data = self.put_query(
    "/resultat/internal/resultatuppfoljning/resultatuppfoljning/sok",
    put_data)

try:
    return data["Resultat"]
except KeyError as err:
    err.add_note(f"Response data: {data}")
    raise LadokAPIError(f"Unexpected response format when searching course results for "
                        f"round {course_round_id}, component {component_instance_id}: "
                        f"missing 'Resultat' key") from err

```

We test this by the following.

```

453 <test functions 151a>+≡
def test_search_course_results_JSON() -> None:
    results = ladok.search_course_results_JSON(dasak_round_id, LAB1_instance_id)
    assert json.dumps(results, indent=2, ensure_ascii=False)

```

This code is used in chunk 146.

The output looks like this.

```

1  [
2    {
3      "KurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
4      "LarosateID": 29,
5      "Resultat": [
6        {
7          "Betygsgradskod": "P",
8          "Examinationsdatum": "2010-04-07",
9          "LarosateID": 29,
10         "SenastAndradAv": "informationskonverterare@kth",

```

```

11     "SenastSparad": "2018-06-20T00:29:18.755",
12     "Uid": "34b536b2-7410-11e8-b046-cb26945c40f5",
13     "UtbildningUID": "39ca27fe-73d8-11e8-afa7-8e408e694e54",
14     "UtbildningsinstansUID": "39ca2861-73d8-11e8-b4e0-063f9afb40e3"
15 },
16 {
17     "Betygsgradskod": "A",
18     "Examinationsdatum": "2010-03-18",
19     "LarosateID": 29,
20     "SenastAndradAv": "informationskonverterare@kth",
21     "SenastSparad": "2018-06-20T00:29:18.755",
22     "Uid": "34b780dc-7410-11e8-b046-cb26945c40f5",
23     "UtbildningUID": "39c593d1-73d8-11e8-afa7-8e408e694e54",
24     "UtbildningsinstansUID": "39c5947b-73d8-11e8-b4e0-063f9afb40e3"
25 },
26 {
27     "Betygsgradskod": "A",
28     "Examinationsdatum": "2010-04-07",
29     "LarosateID": 29,
30     "SenastAndradAv": "informationskonverterare@kth",
31     "SenastSparad": "2018-06-20T01:45:18.369",
32     "Uid": "d274ed3f-741a-11e8-b046-cb26945c40f5",
33     "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
34     "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3"
35 }
36 ],
37 "Student": {
38     "Efternamn": "Studentzadeh",
39     "Fornamn": "Student",
40     "Personnummer": "191234561234",
41     "Uid": "de709f81-a867-11e7-8dbf-78e86dc2470c"
42 },
43 "Tillstand": "AVKLARAD"
44 }
45 ]

```

## 19.2 Results for a student: student\_results\_JSON

This method pulls results for an individual student for a particular course. LADOK changed this API request in 2022.

```

454 <LadokSession data methods 151b>+=
def student_results_JSON(
    self, student_id: str, course_education_id: str) -> dict:
    """Returns the results for a student on a course"""
    try:
        return self.get_query(
            "/resultat/internal/studentenskurser/kursinformation"
            f"/student/{student_id}/kursUID/{course_education_id}"
        )
    except LadokAPIError as err:

```

```

        raise LadokAPIError(f"Failed to get results for student {student_id} "
                             f"on course {course_education_id}: {err}") from err
except LadokServerError as err:
    raise LadokServerError(f"LADOK server error when getting results for "
                           f"student {student_id} on course {course_education_id}: "
                           f"{err}") from err

```

We test this in the following way.

```

455 <test functions 151a>+≡
def test_student_results_JSON() -> None:
    results = ladok.student_results_JSON(student_uid, dasak_education_id)
    assert json.dumps(results, indent=2, ensure_ascii=False)

```

This code is used in chunk 146.

The output looks like this.

```

1  {
2  "GallandeKurstillfalle": {
3      "Slutdatum": "2010-03-21",
4      "Startdatum": "2010-01-18",
5      "StudielokaliseringID": 131778,
6      "StudietaktID": 1,
7      "TillfallesKod": "81099",
8      "Uid": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
9      "UndervisningsformID": 1
10 },
11 "Kursversioner": [
12     {
13         "ArAktuellVersion": true,
14         "GallandeKurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
15         "HarTillgodoraknandePaHelaKursen": false,
16         "Kursversion": 1,
17         "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
18         "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
19         "VersionensKurs": {
20             "Betygsskala": {
21                 "Benamning": {
22                     "sv": "Sjugradig betygsskala",
23                     "en": "Seven point grading scale"
24                 },
25                 "Beskrivning": {},
26                 "Betygsgrad": [
27                     {
28                         "Benamning": {
29                             "sv": "Utmärkt",
30                             "en": "Excellent"
31                         },
32                         "GiltigSomSlutbetyg": true,
33                         "ID": 131661,
34                         "Kod": "A"
35                     },
36                     {

```

```

37     "Benamning": {
38       "sv": "Mycket bra",
39       "en": "Very Good"
40     },
41     "GiltigSomSlutbetyg": true,
42     "ID": 131667,
43     "Kod": "B"
44   },
45   {
46     "Benamning": {
47       "sv": "Bra",
48       "en": "Good"
49     },
50     "GiltigSomSlutbetyg": true,
51     "ID": 131673,
52     "Kod": "C"
53   },
54   {
55     "Benamning": {
56       "sv": "Tillfredsställande",
57       "en": "Satisfactory"
58     },
59     "GiltigSomSlutbetyg": true,
60     "ID": 131679,
61     "Kod": "D"
62   },
63   {
64     "Benamning": {
65       "sv": "Tillräcklig",
66       "en": "Sufficient"
67     },
68     "GiltigSomSlutbetyg": true,
69     "ID": 131691,
70     "Kod": "E"
71   },
72   {
73     "Benamning": {
74       "sv": "Underkänd",
75       "en": "Not satisfactory"
76     },
77     "GiltigSomSlutbetyg": false,
78     "ID": 131696,
79     "Kod": "FX"
80   },
81   {
82     "Benamning": {
83       "sv": "Underkänd",
84       "en": "Failed"
85     },
86     "GiltigSomSlutbetyg": false,
87     "ID": 131697,

```

```

88         "Kod": "F"
89     }
90 ],
91     "Dolt": false,
92     "Giltighetsperiod": {
93         "Startdatum": "2007-07-01"
94     },
95     "ID": "131657",
96     "Kod": "AF"
97 },
98 "Enhet": "HP",
99 "GallerUtbildningUtanAngivenOmfattning": false,
100 "HarTillgodoraknandePaHelaUtbildningen": false,
101 "Kod": "DD2395",
102 "KravPaHanvisningTillBeslutshandling": false,
103 "KravPaProjekttitel": false,
104 "KursenHarAvbrott": false,
105 "Omfattning": 6.0,
106 "ResultatPaKursVidAttesteringAvModul": false,
107 "ResultatPaUtbildning": {
108     "HarTillgodoraknande": false,
109     "HeltTillgodoraknad": false,
110     "KanExkluderas": false,
111     "OvrigaResultat": [],
112     "SenastAttesteradeResultat": {
113         "Anteckning": "Detaljer om kursresultat från gamla Ladok: Inläggningsdatum (idatum):[2010-0
114         "ArDokumenteratBeslut": false,
115         "Beslutsdatum": "2010-04-07",
116         "Beslutsfattare": "Sonja Buchegger",
117         "Betygsgrad": 131661,
118         "Betygsgradsobjekt": {
119             "Benamning": {
120                 "sv": "Utmärkt",
121                 "en": "Excellent"
122             },
123             "GiltigSomSlutbetyg": true,
124             "ID": 131661,
125             "Kod": "A"
126         },
127         "BetygsskalaID": 131657,
128         "Examinationsdatum": "2010-04-07",
129         "ForbereddForBorttag": false,
130         "KursinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
131         "KurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
132         "Noteringar": [],
133         "Noteringsdefinitioner": [],
134         "ProcessStatus": 3,
135         "ResultatUID": "d274ed3f-741a-11e8-b046-cb26945c40f5",
136         "SenasteResultatandring": "2018-06-20T01:45:18.367",
137         "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
138         "StudieresultatUID": "a4a4be29-73f2-11e8-b046-cb26945c40f5",

```



```

139         "UId": "d274ed3f-741a-11e8-b046-cb26945c40f5",
140         "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3"
141     },
142     "TotalTillgodoraknadOmfattning": 0.0,
143     "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54"
144 },
145 "Tillgodoraknanden": [],
146 "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54",
147 "UtbildningsinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
148 "Utbildningsinstansbenamningar": {
149     "sv": "Datasäkerhet",
150     "en": "Computer Security"
151 }
152 },
153 "VersionensModuler": [
154     {
155         "Betygsskala": {
156             "Benamning": {
157                 "sv": "Sjugradig betygsskala",
158                 "en": "Seven point grading scale"
159             },
160             "Beskrivning": {},
161             "Betygsgrad": [
162                 {
163                     "Benamning": {
164                         "sv": "Utmärkt",
165                         "en": "Excellent"
166                     },
167                     "GiltigSomSlutbetyg": true,
168                     "ID": 131661,
169                     "Kod": "A"
170                 },
171                 {
172                     "Benamning": {
173                         "sv": "Mycket bra",
174                         "en": "Very Good"
175                     },
176                     "GiltigSomSlutbetyg": true,
177                     "ID": 131667,
178                     "Kod": "B"
179                 },
180                 {
181                     "Benamning": {
182                         "sv": "Bra",
183                         "en": "Good"
184                     },
185                     "GiltigSomSlutbetyg": true,
186                     "ID": 131673,
187                     "Kod": "C"
188                 }
189             ]
190         }
191     }
192 ]

```

```

190         "Benamning": {
191             "sv": "Tillfredsställande",
192             "en": "Satisfactory"
193         },
194         "GiltigSomSlutbetyg": true,
195         "ID": 131679,
196         "Kod": "D"
197     },
198     {
199         "Benamning": {
200             "sv": "Tillräcklig",
201             "en": "Sufficient"
202         },
203         "GiltigSomSlutbetyg": true,
204         "ID": 131691,
205         "Kod": "E"
206     },
207     {
208         "Benamning": {
209             "sv": "Underkänd",
210             "en": "Not satisfactory"
211         },
212         "GiltigSomSlutbetyg": false,
213         "ID": 131696,
214         "Kod": "FX"
215     },
216     {
217         "Benamning": {
218             "sv": "Underkänd",
219             "en": "Failed"
220         },
221         "GiltigSomSlutbetyg": false,
222         "ID": 131697,
223         "Kod": "F"
224     }
225 ],
226 "Dolt": false,
227 "Giltighetsperiod": {
228     "Startdatum": "2007-07-01"
229 },
230 "ID": "131657",
231 "Kod": "AF"
232 },
233 "Enhet": "HP",
234 "GallerUtbildningUtanAngivenOmfattning": false,
235 "HarTillgodoraknandePaHelaUtbildningen": false,
236 "Kod": "TEN1",
237 "KravPaHanvisningTillBeslutshandling": false,
238 "KravPaProjekttitel": false,
239 "KursenHarAvbrott": false,
240 "Omfattning": 3.0,

```

```

241     "ResultatPaKursVidAttesteringAvModul": false,
242     "ResultatPaUtbildning": {
243       "HarTillgodoraknande": false,
244       "HeltTillgodoraknad": false,
245       "KanExkluderas": false,
246       "OvrigaResultat": [],
247       "SenastAttesteradeResultat": {
248         "Anteckning": "Detaljer om modulresultat från gamla Ladok: Inläggningsdatum (idatum):[201
249         "ArDokumenteratBeslut": false,
250         "Beslutsdatum": "2010-03-18",
251         "Beslutsfattare": "Uppgift om examinator saknas/Not applicable",
252         "Betygsgrad": 131661,
253         "Betygsgradsobjekt": {
254           "Benamning": {
255             "sv": "Utmärkt",
256             "en": "Excellent"
257           },
258           "GiltigSomSlutbetyg": true,
259           "ID": 131661,
260           "Kod": "A"
261         },
262         "BetygsskalaID": 131657,
263         "Examinationsdatum": "2010-03-18",
264         "ForbereddForBorttag": false,
265         "KursinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
266         "KurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
267         "Noteringar": [],
268         "Noteringsdefinitioner": [],
269         "ProcessStatus": 3,
270         "ResultatUID": "34b780dc-7410-11e8-b046-cb26945c40f5",
271         "SenasteResultatandring": "2018-06-20T00:29:18.754",
272         "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
273         "StudieresultatUID": "a4a4be29-73f2-11e8-b046-cb26945c40f5",
274         "Uid": "34b780dc-7410-11e8-b046-cb26945c40f5",
275         "UtbildningsinstansUID": "39c5947b-73d8-11e8-b4e0-063f9afb40e3"
276       },
277       "TotalTillgodoraknadOmfattning": 0.0,
278       "UtbildningUID": "39c593d1-73d8-11e8-afa7-8e408e694e54"
279     },
280     "Tillgodoraknanden": [],
281     "UtbildningUID": "39c593d1-73d8-11e8-afa7-8e408e694e54",
282     "UtbildningsinstansUID": "39c5947b-73d8-11e8-b4e0-063f9afb40e3",
283     "Utbildningsinstansbenamningar": {
284       "sv": "Tentamen",
285       "en": "Examination"
286     }
287   },
288   {
289     "Betygsskala": {
290       "Benamning": {
291         "sv": "Tvågradig betygsskala",

```

```

292     "en": "Two point grading scale"
293 },
294 "Beskrivning": {},
295 "Betygsgrad": [
296   {
297     "Benamning": {
298       "sv": "Godkänd",
299       "en": "Pass"
300     },
301     "GiltigSomSlutbetyg": true,
302     "ID": 131658,
303     "Kod": "P"
304   },
305   {
306     "Benamning": {
307       "sv": "Underkänd",
308       "en": "Failed"
309     },
310     "GiltigSomSlutbetyg": false,
311     "ID": 131663,
312     "Kod": "F"
313   }
314 ],
315 "Dolt": false,
316 "Giltighetsperiod": {},
317 "ID": "131656",
318 "Kod": "PF"
319 },
320 "Enhet": "HP",
321 "GallerUtbildningUtanAngivenOmfattning": false,
322 "HarTillgodoraknandePaHelaUtbildningen": false,
323 "Kod": "LAB1",
324 "KravPaHanvisningTillBeslutshandling": false,
325 "KravPaProjekttitel": false,
326 "KursenHarAvbrott": false,
327 "Omfattning": 3.0,
328 "ResultatPaKursVidAttesteringAvModul": false,
329 "ResultatPaUtbildning": {
330   "HarTillgodoraknande": false,
331   "HeltTillgodoraknad": false,
332   "KanExkluderas": false,
333   "OvrigaResultat": [],
334   "SenastAttesteradeResultat": {
335     "Anteckning": "Detaljer om modulresultat från gamla Ladok: Inläggningsdatum (idatum):[201
336     "ArDokumenteratBeslut": false,
337     "Beslutsdatum": "2010-04-07",
338     "Beslutsfattare": "Uppgift om examinator saknas/Not applicable",
339     "Betygsgrad": 131658,
340     "Betygsgradsobjekt": {
341       "Benamning": {
342         "sv": "Godkänd",

```

```

343         "en": "Pass"
344     },
345     "GiltigSomSlutbetyg": true,
346     "ID": 131658,
347     "Kod": "P"
348 },
349 "BetygsskalaID": 131656,
350 "Examinationsdatum": "2010-04-07",
351 "ForbereddForBorttag": false,
352 "KursinstansUID": "39c56d6a-73d8-11e8-b4e0-063f9afb40e3",
353 "KurstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3",
354 "Noteringar": [],
355 "Noteringsdefinitioner": [],
356 "ProcessStatus": 3,
357 "ResultatUID": "34b536b2-7410-11e8-b046-cb26945c40f5",
358 "SenasteResultatandring": "2018-06-20T00:29:18.739",
359 "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
360 "StudieresultatUID": "a4a4be29-73f2-11e8-b046-cb26945c40f5",
361 "UId": "34b536b2-7410-11e8-b046-cb26945c40f5",
362 "UtbildningsinstansUID": "39ca2861-73d8-11e8-b4e0-063f9afb40e3"
363 },
364 "TotalTillgodoraknadOmfattning": 0.0,
365 "UtbildningUID": "39ca27fe-73d8-11e8-afa7-8e408e694e54"
366 },
367 "Tillgodoraknanden": [],
368 "UtbildningUID": "39ca27fe-73d8-11e8-afa7-8e408e694e54",
369 "UtbildningsinstansUID": "39ca2861-73d8-11e8-b4e0-063f9afb40e3",
370 "Utbildningsinstansbenamningar": {
371     "sv": "Laborationer",
372     "en": "Laboratory Work"
373 }
374 }
375 ]
376 }
377 ],
378 "NoteringsdefinitionerKoppladeTillResultat": [],
379 "ResultatUtanKopplingTillKursversion": [],
380 "StudentUID": "de709f81-a867-11e7-8dbf-78e86dc2470c",
381 "UtbildningUID": "39cf7fb4-73d8-11e8-afa7-8e408e694e54"
382 }

```

## 19.3 Modifying results

We have two alternatives: add a new result or update an existing result draft.

### 19.3.1 create\_result\_JSON

This method is used to create a new result. This result will be a draft. It must later be finalized and then attested.

Note that since this is a new result, we must provide the `StudieresultatUID` where we want to add the result. When we've done this, we'll get a `ResultatUID` back in the response. From then on, it's the `ResultatUID` that's interesting.

Note also that we can use `course_instance_id` as `component_id`, this will set the result on the whole course.

```
463a <LadokSession data methods 151b>+=
def create_result_JSON(self,
    student_id: str, course_instance_id: str, component_id: str,
    grade_id: int, date: str,
    project_title: str | None = None) -> dict:
    """
    Creates a new result
    """
    try:
        return self.post_query(
            f"/resultat/internal/resultat/student/{student_id}"
            f"/kursinstans/{course_instance_id}"
            f"/utbildningsinstans/{component_id}"
            f"/skapa",
            {
                "Betygsgrad": grade_id,
                "Examinationsdatum": date,
                "Projekttitel": project_title
            }
        )
    except LadokAPIError as err:
        raise LadokAPIError(f"Failed to create result for student {student_id} "
            f"on component {component_id}: {err}") from err
    except LadokServerError as err:
        raise LadokServerError(f"LADOK server error when creating result for "
            f"student {student_id} on component {component_id}: "
            f"{err}") from err
```

We test this in the following way.

```
463b <test functions 151a>+=
datintro_student_uid = "76291c55-d24a-11ea-a4db-82cca4dd4b3e"
datintro_instance_id = "2179e02c-d6b5-11e8-8fd5-cf9d2c5c41ba"
datintro_LAB1_id = "385a4428-73d8-11e8-b4e0-063f9afb40e3"

result_uid = None
result_last_modified = None

def test_create_result_JSON() -> None:
    result = ladok.create_result_JSON(
        datintro_student_uid, datintro_instance_id, datintro_LAB1_id,
        131663, "2022-11-29")

    global result_uid
    result_uid = result["Uid"]
    global result_last_modified
```

```
result_last_modified = result["SenasteResultatandring"]
```

```
assert json.dumps(result, indent=2, ensure_ascii=False)
```

This code is used in chunk 146.

The output looks like this.

```
1 {
2   "ArDokumenteratBeslut": false,
3   "Betygsgrad": 131663,
4   "Betygsgradsobjekt": {
5     "GiltigSomSlutbetyg": false,
6     "ID": 131663,
7     "Kod": "F"
8   },
9   "BetygsskalaID": 131656,
10  "Examinationsdatum": "2022-11-27",
11  "ForbereddForBorttag": false,
12  "KursinstansUID": "2179e02c-d6b5-11e8-8fd5-cf9d2c5c41ba",
13  "KurstillfalleUID": "e058a850-1a94-11ea-a622-3565135944de",
14  "Noteringar": [],
15  "Noteringsdefinitioner": [],
16  "ProcessStatus": 1,
17  "ResultatUID": "7e66dfb0-4ec9-11f1-8f36-873fb7c64d18",
18  "SenasteResultatandring": "2026-05-13T14:44:34.126",
19  "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
20  "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
21  "Uid": "7e66dfb0-4ec9-11f1-8f36-873fb7c64d18",
22  "UtbildningsinstansUID": "385a4428-73d8-11e8-b4e0-063f9afb40e3"
23 }
```

LADOK changed this API request in 2022.

### 19.3.2 update\_result\_JSON

This method updates an existing result draft. Note that we cannot use this method to update a finalized result. Note also that we use the ResultatUID and not the StudieresultatUID as we did for create\_result\_JSON.

```
464 <LadokSession data methods 151b>+=
def update_result_JSON(self,
    result_id: str, grade_id: int, date: str,
    last_modified: str,
    notes: list | None = None) -> dict:
    """Update an existing result draft in LADOK.
```

Note: Cannot be used to update finalized results. Uses ResultatUID, not StudieresultatUID.

Args:

```
result_id (str): The unique result identifier (ResultatUID).
grade_id (int): The numeric grade identifier from the grade scale.
date (str): Examination date in YYYY-MM-DD format.
last_modified (str): Last modification timestamp to prevent conflicts.
```

notes (list, optional): List of notes to attach to the result.

Returns:

dict: Updated result data from LADOK.

Raises:

Exception: If the update request fails or is rejected by LADOK.

"""

if notes is None:

notes = []

try:

return self.put\_query(

f"/resultat/internal/resultat/uppdatera/{result\_id}",

{

'Betygsgrad': grade\_id,

'Examinationsdatum': date,

'Noteringar': notes,

'SenasteResultatandring': last\_modified

}

)

except LadokAPIError as err:

raise LadokAPIError(f"Failed to update result {result\_id}: {err}") from err

except LadokServerError as err:

raise LadokServerError(f"LADOK server error when updating result "

f"{result\_id}: {err}") from err

We test this in the following way.

```
465 <test functions 151a>+≡
def test_update_result_JSON() -> None:
    global result_uid
    global result_last_modified

    result = ladok.update_result_JSON(
        result_uid, 131658, "2022-11-28", result_last_modified)

    result_last_modified = result["SenasteResultatandring"]

    assert json.dumps(result, indent=2, ensure_ascii=False)
```

This code is used in chunk 146.

The output looks like this.

```
1 {
2   "ArDokumenteratBeslut": false,
3   "Betygsgrad": 131658,
4   "Betygsgradsobjekt": {
5     "GiltigSomSlutbetyg": true,
6     "ID": 131658,
7     "Kod": "P"
8   },
9   "BetygsskalaID": 131656,
10  "Examinationsdatum": "2022-11-29",
```



```

11     "ForbereddForBorttag": false,
12     "KursinstansUID": "2179e02c-d6b5-11e8-8fd5-cf9d2c5c41ba",
13     "KurstillfalleUID": "e058a850-1a94-11ea-a622-3565135944de",
14     "Noteringar": [],
15     "Noteringsdefinitioner": [],
16     "ProcessStatus": 1,
17     "ResultatUID": "7e66dfb0-4ec9-11f1-8f36-873fb7c64d18",
18     "SenasteResultatandring": "2026-05-13T14:44:34.197",
19     "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
20     "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
21     "UId": "7e66dfb0-4ec9-11f1-8f36-873fb7c64d18",
22     "UtbildningsinstansUID": "385a4428-73d8-11e8-b4e0-063f9afb40e3"
23 }

```

## 19.4 Finalizing a result

Here we cover the API calls needed to finalize (klarmarkera) a result in LADOK. To finalize a result, we first need to know the possible reporters and attestants. However, normally that's us, so we want to find the info of the currently logged in LADOK user.

### 19.4.1 result\_attestants\_JSON and result\_reporters\_JSON

To finalize a result, we must know two things: who is reporting and who can attest. We start with who can attest.

```

466a <LadokSession data methods 151b>+=
def result_attestants_JSON(self, result_id: str) -> list:
    """Returns a list of result attestants"""
    data = self.put_query(
        "/resultat/internal/anvandare/resultatrattighet/attestanter/kurstillfallesrapportering",
        {"Identitet": [result_id]}
    )

    try:
        return data["Anvandare"]
    except KeyError as err:
        err.add_note(f"Response data: {data}")
        raise LadokAPIError(f"Unexpected response format when fetching attestants for "
                             f"result {result_id}: missing 'Anvandare' key") from err

```

The `result_id` is the ID returned in the `ResultatUID` field in the response from the `create_result_JSON` method.

LADOK changed this API request in 2022: the `internal` is mandatory part of the path.

We can test this in the following way.

```

466b <test functions 151a>+=
def test_result_attestants_JSON() -> None:
    global result_uid
    try:
        attestants = ladok.result_attestants_JSON(result_uid)
        assert json.dumps(attestants, indent=2, ensure_ascii=False)

```

```
except Exception as err:
    assert "Några av angivna resultatidentiter" in str(err)
```

This code is used in chunk 146.

The output looks like this.

```
1  [
2    {
3      "Anvandarnamn": "user@domain.se",
4      "Efternamn": "Studentzadeh",
5      "Fornamn": "Student",
6      "Uid": "0ad46a6f-f058-11e6-914e-6af6ab854a1a"
7    },
8    {
9      "Anvandarnamn": "user@domain.se",
10     "Efternamn": "Studentzadeh",
11     "Fornamn": "Student",
12     "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
13   }
14 ]
```

Now, we get a list of who can report (basically anyone registered in the entire organization).

```
467a <LadokSession data methods 151b>+=
def result_reporters_JSON(self, organization_id: str) -> list:
    """Returns a list of who can report results in an organization"""
    data = self.get_query(
        "/kataloginformation/internal/anvandare/organisation/" +
        organization_id + "/resultatrapportorer",
        "application/vnd.ladok-kataloginformation+json"
    )

    try:
        return data["Anvandare"]
    except KeyError as err:
        err.add_note(f"Response data: {data}")
        raise LadokAPIError(f"Unexpected response format when fetching reporters for "
                             f"organization {organization_id}: missing 'Anvandare' key") from err
```

We test this method as follows.

```
467b <test functions 151a>+=
def test_result_reporters_JSON() -> None:
    reporters = ladok.result_reporters_JSON(KTH_org_id)
    assert json.dumps(reporters, indent=2, ensure_ascii=False)
```

This code is used in chunk 146.

The output looks like this.

```
1  [
2    {
3      "AnvandareStatus": "AKTIV",
4      "Anvandarnamn": "user@domain.se",
5      "Efternamn": "Studentzadeh",
```

```

6     "Fornamn": "Student",
7     "LarosateID": 29,
8     "Uid": "7c3b78ca-5790-11e9-aa01-33005ebe4882"
9 },
10 {
11     "AnvandareStatus": "AKTIV",
12     "Anvandarnamn": "user@domain.se",
13     "Efternamn": "Studentzadeh",
14     "Fornamn": "Student",
15     "LarosateID": 29,
16     "Uid": "c2c14b87-3a90-11e9-98c7-6e9130f64812"
17 },
18 {
19     "AnvandareStatus": "AKTIV",
20     "Anvandarnamn": "user@domain.se",
21     "Efternamn": "Studentzadeh",
22     "Fornamn": "Student",
23     "LarosateID": 29,
24     "Uid": "ab6ef714-15fb-11e7-a1a0-8cb7e2bc425d"
25 }
26 ]

```

#### 19.4.2 user\_info\_JSON

Usually, we want to set the reporter to the logged-in user. We can use the following API call to get information about the logged-in user.

```

468 <LadokSession data methods 151b>+=
def user_info_JSON(self) -> dict:
    """
    Get information about the currently logged-in user.

    Returns:
        dict: User information including name, roles, and permissions.

    Raises:
        Exception: If the request fails or returns an error status.
    """
    try:
        return self.get_query(
            "/kataloginformation/internal/anvandare/anvandarinformation",
            "application/vnd.ladok-kataloginformation+json"
        )
    except LadokAPIError as err:
        raise LadokAPIError(f"Failed to get user info: {err}") from err
    except LadokServerError as err:
        raise LadokServerError(f"LADOK server error when getting user info: "
                               f"{err}") from err

```

We test this as follows.

```
469a <test functions 151a>+≡
def test_user_info_JSON() -> None:
    me_teacher = ladok.user_info_JSON()
    assert json.dumps(me_teacher, indent=2, ensure_ascii=False)
```

This code is used in chunk 146.

The output looks like this.

```
1 {
2   "AnvandareUID": "21f4667a-e864-11ea-adbf-a14961264cf0",
3   "Epost": "dbosk@kth.se",
4   "Leveranspreferenser": [],
5   "Uid": "25c8c6d7-e864-11ea-adbf-a14961264cf0"
6 }
```

### 19.4.3 finalize\_result\_JSON

Finally, we can finalize the reported grade. If attestant\_id is not None, then LADOK will send a notification to that person. (LADOK changed this API request in 2022.)

```
469b <LadokSession data methods 151b>+≡
def finalize_result_JSON(self,
    result_id: str, last_modified: str, reporter_id: str,
    attestant_ids: list | None = None,
    others: list | None = None) -> dict:
    """Marks a result as finalized (klarmarkera)"""
    if attestant_ids is None:
        attestant_ids = []
    if others is None:
        others = []
    try:
        return self.put_query(
            f"/resultat/internal/resultat/klarmarkera/{result_id}",
            {
                "Beslutsfattare": attestant_ids,
                "KlarmarkeradAvUID": reporter_id,
                "RattadAv": [],
                "OvrigaMedverkande": "\n".join(set(others)),
                "ResultatetsSenastSparad": last_modified
            }
        )
    except LadokAPIError as err:
        raise LadokAPIError(f"Failed to finalize result {result_id}: {err}") from err
    except LadokServerError as err:
        raise LadokServerError(f"LADOK server error when finalizing result "
                                f"{result_id}: {err}") from err
```

This method returns a copy of the finalized result.

We test this in the following way.

```
469c <test functions 151a>+≡
reporter_id = "21f4667a-e864-11ea-adbf-a14961264cf0"
```

```
def test_finalize_result_JSON() -> None:
    global result_uid
    global result_last_modified

    result = ladok.finalize_result_JSON(
        result_uid, result_last_modified, reporter_id)

    result_last_modified = result["SenasteResultatandring"]

    assert result.get("ProcessStatus") == 2
    assert json.dumps(result, indent=2, ensure_ascii=False)
```

This code is used in chunk 146.

We also want to verify that the CourseResult class correctly reflects the finalized state through its finalized property.

470a

```
<test functions 151a>+≡
def test_finalized_CourseResult() -> None:
    """Verify CourseResult.finalized property after finalization."""
    student = ladok.get_student(datintro_student_uid)

    # Find the course participation for datintro
    courses = [c for c in student.courses()
                if c.instance_id == datintro_instance_id]
    assert len(courses) > 0, "Student should have course participation"
    course = courses[0]

    # Find the result that was just finalized (should be finalized but not attested)
    results = course.results()
    finalized_results = [r for r in results
                        if r.finalized and not r.attested]
    assert len(finalized_results) > 0, "Should have a finalized result"

    result = finalized_results[0]
    assert result.finalized == True
    assert result.attested == False
```

This code is used in chunk 146.

We can also verify that the reporting helper refuses to silently accept a different result once LADOK has a finalized value waiting for attestation. This exercises the live create/finalize cycle while keeping the cleanup flow unchanged.

470b

```
<test functions 151a>+≡
def test_report_set_grade_rejects_mismatching_finalized_result() -> None:
    ladok.cache.clear()
    student = ladok.get_student(datintro_student_uid)

    courses = [c for c in student.courses()
                if c.instance_id == datintro_instance_id]
    assert len(courses) > 0, "Student should have course participation"
    course = courses[0]
```

```

lab_results = [r for r in course.results(component="LAB1")
               if r.finalized and not r.attested]
assert len(lab_results) > 0, "Should have a finalized LAB1 result"

result = lab_results[0]
args = type("Args", (), {"finalize": False, "verbose": 0})()

with pytest.raises(
    ladok3.LadokValidationError,
    match="change the finalized result back to draft in LADOK"):
    ladok3.report.set_grade(
        ladok, args, datintro_student_uid, course.code, result.component.code,
        str(result.grade), "2022-11-30", [])

```

This code is used in chunk 146.

The output looks like this.

```

1  {
2    "ArDokumenteratBeslut": false,
3    "Betygsgrad": 131658,
4    "Betygsgradsobjekt": {
5      "GiltigSomSlutbetyg": true,
6      "ID": 131658,
7      "Kod": "P"
8    },
9    "BetygsskalaID": 131656,
10   "Examinationsdatum": "2022-11-29",
11   "ForbereddForBorttag": false,
12   "KursinstansUID": "2179e02c-d6b5-11e8-8fd5-cf9d2c5c41ba",
13   "KurstillfalleUID": "e058a850-1a94-11ea-a622-3565135944de",
14   "Noteringar": [],
15   "Noteringsdefinitioner": [],
16   "ProcessStatus": 2,
17   "ResultatUID": "7e66dfb0-4ec9-11f1-8f36-873fb7c64d18",
18   "SenasteResultatandring": "2026-05-13T14:44:34.477",
19   "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
20   "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
21   "Uid": "7e66dfb0-4ec9-11f1-8f36-873fb7c64d18",
22   "UtbildningsinstansUID": "385a4428-73d8-11e8-b4e0-063f9afb40e3"
23 }

```

#### 19.4.4 update\_finalized\_result\_JSON

To update an already finalised result, we can use the following API call. The only difference from the call above (Section 19.3.2) is that the URL uses `updateraklarmarkerat` instead of just `updatera`.

```

471 <LadokSession data methods 151b>+=
    def update_finalized_result_JSON(self,
        result_id: str, grade_id: int, date: str,
        last_modified: str,
        notes: list | None = None) -> dict:

```

```

if notes is None:
    notes = []
try:
    return self.put_query(
        f"/resultat/internal/resultat/updateraklarmarkerat/{result_id}",
        {
            'Betygsgrad': grade_id,
            'Examinationsdatum': date,
            'Noteringar': notes,
            'SenasteResultatandring': last_modified
        }
    )
except LadokAPIError as err:
    raise LadokAPIError(f"Failed to update finalized result {result_id}: "
                        f"{err}") from err
except LadokServerError as err:
    raise LadokServerError(f"LADOK server error when updating finalized result "
                           f"{result_id}: {err}") from err

```

We test this in the following way.

```

472 <test functions 151a>+≡
def test_update_finalized_result_JSON() -> None:
    global result_uid
    global result_last_modified

    result = ladok.update_finalized_result_JSON(
        result_uid, 131658, "2022-11-29", result_last_modified)

    result_last_modified = result["SenasteResultatandring"]

    assert json.dumps(result, indent=2, ensure_ascii=False)

```

This code is used in chunk 146.

The output looks like this.

```

1  {
2      "ArDokumenteratBeslut": false,
3      "Betygsgrad": 131658,
4      "Betygsgradsobjekt": {
5          "GiltigSomSlutbetyg": true,
6          "ID": 131658,
7          "Kod": "P"
8      },
9      "BetygsskalaID": 131656,
10     "Examinationsdatum": "2022-11-29",
11     "ForbereddForBorttag": false,
12     "KursinstansUID": "2179e02c-d6b5-11e8-8fd5-cf9d2c5c41ba",
13     "KurstillfalleUID": "e058a850-1a94-11ea-a622-3565135944de",
14     "Noteringar": [],
15     "Noteringsdefinitioner": [],
16     "ProcessStatus": 2,
17     "ResultatUID": "7e66dfb0-4ec9-11f1-8f36-873fb7c64d18",

```

```

18  "SenasteResultatandring": "2026-05-13T14:44:34.541",
19  "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
20  "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
21  "Uid": "7e66dfb0-4ec9-11f1-8f36-873fb7c64d18",
22  "UtbildningsinstansUID": "385a4428-73d8-11e8-b4e0-063f9afb40e3"
23  }

```

#### 19.4.5 finalized\_result\_to\_draft\_JSON

We can also change a result from finalized back to draft status.

```

473a  <LadokSession data methods 151b>+=
def finalized_result_to_draft_JSON(
    self, result_id: str, last_modified: str) -> dict:
    try:
        return self.put_query(
            f"/resultat/internal/resultat/tillbakatillutkast/{result_id}",
            {
                'ResultatUID': result_id,
                'ResultatetsSenastSparad': last_modified
            }
        )
    except LadokAPIError as err:
        raise LadokAPIError(f"Failed to change finalized result {result_id} to draft: "
                               f"{err}") from err
    except LadokServerError as err:
        raise LadokServerError(f"LADOK server error when changing finalized result "
                               f"{result_id} to draft: {err}") from err

```

We test this in the following way.

```

473b  <test functions 151a>+=
def test_finalized_result_to_draft_JSON() -> None:
    global result_uid
    global result_last_modified

    result = ladok.finalized_result_to_draft_JSON(
        result_uid, result_last_modified)

    assert json.dumps(result, indent=2, ensure_ascii=False)

```

This code is used in chunk 146.

The output looks like this.

```

1  {
2  "ArDokumenteratBeslut": false,
3  "Betygsgrad": 131658,
4  "Betygsgradsobjekt": {
5  "GiltigSomSlutbetyg": true,
6  "ID": 131658,
7  "Kod": "P"
8  },
9  "BetygsskalaID": 131656,

```



```

10  "Examinationsdatum": "2022-11-29",
11  "ForbereddForBorttag": false,
12  "KurstillfalleUID": "e058a850-1a94-11ea-a622-3565135944de",
13  "Noteringar": [],
14  "Noteringsdefinitioner": [],
15  "ProcessStatus": 1,
16  "ResultatUID": "7e66dfb0-4ec9-11f1-8f36-873fb7c64d18",
17  "SenasteResultatandring": "2026-05-13T14:44:34.620",
18  "StudentUID": "76291c55-d24a-11ea-a4db-82cca4dd4b3e",
19  "StudieresultatUID": "c052ecf9-e2d6-11ea-8f88-9c9fd6664756",
20  "Uid": "7e66dfb0-4ec9-11f1-8f36-873fb7c64d18",
21  "UtbildningsinstansUID": "385a4428-73d8-11e8-b4e0-063f9afb40e3"
22 }

```

#### 19.4.6 remove\_result\_draft\_JSON

We can also change a result from finalized back to draft status.

```

474a <LadokSession data methods 151b>+≡
def remove_result_draft_JSON(self, result_id: str) -> None:
    try:
        data = self.del_query(
            f"/resultat/internal/resultat/tabort/{result_id}"
        )
    except LadokAPIError as err:
        raise LadokAPIError(f"LADOK request to remove draft result "
                             f"{result_id} failed: {err}") from err
    except LadokServerError as err:
        raise LadokServerError(f"LADOK server error when removing "
                                f"draft result {result_id}: "
                                f"{err}") from err

```

We test this in the following way.

```

474b <test functions 151a>+≡
def test_remove_result_draft_JSON() -> None:
    global result_uid

    ladok.remove_result_draft_JSON(result_uid)

```

This code is used in chunk 146.

There is no output.

### 19.5 participants\_JSON

The method returns JSON data containing a list of students (the participants in the course round). (This is an extension of Maguire's original participants\_JSON method. The essential difference is keyword arguments to filter which students to include.)

```

474c <LadokSession data methods 151b>+≡
def participants_JSON(self, course_round_id: str, /, **kwargs) -> list:
    """Returns JSON record containing participants in a course identified by
    round ID.
    Filters in kwargs: not_started, ongoing, registered, finished, cancelled"""

```

```

participants_types = []
if "not_started" in kwargs and kwargs["not_started"]:
    participants_types.append("EJ_PABORJAD")
if "ongoing" in kwargs and kwargs["ongoing"]:
    participants_types.append("PAGAENDE")
if "registered" in kwargs and kwargs["registered"]:
    participants_types.append("REGISTRERAD")
if "finished" in kwargs and kwargs["finished"]:
    participants_types.append("AVKLARAD")
if "cancelled" in kwargs and kwargs["cancelled"]:
    participants_types.append("AVBROTT")
# 'ATERBUD', # Withdrawal
# 'PAGAENDE_MED_SPARR', # on-going block exists
# 'EJ_PAGAENDE_TILLFALLESBYTE', # not on-going due to instance exchange
# 'UPPEHALL', # not on-going due to approved leave from studies

if not kwargs:
    participants_types = ["PAGAENDE", "REGISTRERAD", "AVKLARAD"]

put_data = {
    'page': 1,
    'limit': 400,
    'orderby': ['EFTERNAMN_ASC',
                'FORNAMN_ASC',
                'PERSONNUMMER_ASC',
                'KONTROLLERAD_KURS_ASC'],
    'deltagare_tillstand': participants_types,
    'utbildningstillfalleUID': [course_round_id]
}

response = self.put_query(
    '/studiedeltagande/internal/deltagare/kurstillfalle',
    put_data,
    "application/vnd.ladok-studiedeltagande+json")
try:
    return response["Resultat"]
except KeyError as err:
    err.add_note(f"Response data: {response}")
    raise LadokAPIError(f"Unexpected response format when fetching participants for "
                        f"round {course_round_id}: missing 'Resultat' key") from err

```

We test this as follows.

```

475 <test functions 151a>+≡
def test_participants_JSON() -> None:
    results = ladok.participants_JSON(dasak_round_id)
    assert json.dumps(results, indent=2, ensure_ascii=False)

```

This code is used in chunk 146.

The output looks like this.

1 [

```
2  {
3    "Avklarad": true,
4    "FleraDeltagandenPaSammaUtbildning": false,
5    "KodRotpaketering": "CL",
6    "Nuvarande": true,
7    "Paborjad": true,
8    "Student": {
9      "Efternamn": "Studentzadeh",
10     "Fornamn": "Student",
11     "Personnummer": "191234561234",
12     "UId": "de709f81-a867-11e7-8dbf-78e86dc2470c"
13   },
14   "Studiestrukturreferens": "6cd8b548-73e0-11e8-b9fd-0a821ba7448e,6ce3ffb8-73e0-11e8-b9fd-0a821ba7448e",
15   "TillfallesantagningUID": "99402e3c-73f2-11e8-b9fd-0a821ba7448e",
16   "TillstandI18n": "studiedeltagande.studenthantering.deltagare.tillstand.avklarad",
17   "TillstandKurs": {
18     "Sammanfattat": "studiedeltagande.domain.tillstandsdefinition.avklarad",
19     "Sammanfattattillstand": "studiedeltagande.domain.tillstandsdefinition.avklarad",
20     "Tillfallesdeltagande": "studiedeltagande.domain.tillstandsdefinition.paborjad",
21     "Utbildning": "studiedeltagande.domain.tillstandsdefinition.avklarad"
22   },
23   "UId": "99402e3c-73f2-11e8-b9fd-0a821ba7448e",
24   "UtbildningstillfalleUID": "79a8cb1b-73da-11e8-b4e0-063f9afb40e3"
25 }
26 ]
```

## Chapter 20

# Other API calls

The following API calls were explored and written by Chip Maguire. Bosk has merely added tests and generated example output, as well as minor reformatting of the code.

### 20.1 grading\_rights

We can get a list of our rights in LADOK.

```
477a <LadokSession data methods 151b>+=  
# added by GQMJr  
def grading_rights(self) -> list:  
    """  
    Returns a list of dictionaries with the grading rights of the logged in user.  
    """  
    r = self.session.get(  
        url=self.base_gui_proxy_url +  
        '/resultat/internal/resultatrattighet/listaforinloggadanvandare',  
        headers=self.headers)  
    if r.status_code == requests.codes.ok:  
        return r.json()['Resultatrattighet']  
    raise LadokAPIError(f"failed to get grading rights: {r.text}")
```

Let's add a test. This should return a list of dictionaries.

```
477b <test functions 151a>+=  
def test_grading_rights() -> None:  
    r = ladok.grading_rights()  
    assert type(r) == list  
    assert type(r[0]) == dict
```

This code is used in chunk 146.

The output looks like this:

```
1  [  
2  {  
3      "_resultatrattighet": "Kursrattighet",  
4      "Anvandare": {  
5          "Anvandarnamn": "user@domain.se",  
6          "Efternamn": "Studentzadeh",  
7          "Fornamn": "Student",
```

```

8      "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
9  },
10  "AviseraVidKlarForHelkurs": false,
11  "AvserAvveckladKurs": false,
12  "Benamning": "DD1301 Computer Introduction",
13  "Gruppavgransningar": [],
14  "KursUID": "385f74c0-73d8-11e8-afa7-8e408e694e54",
15  "Kursinstansavgransningar": [],
16  "Kurstillfallesavgransningar": [],
17  "Medarbetartyp": "RAPPORTOR",
18  "Modulavgransningar": [],
19  "Organisation": {
20    "Benamning": {
21      "sv": "EECS/Teoretisk datalogi",
22      "en": "EECS/Theoretical Computer Science"
23    },
24    "Kod": "JHT",
25    "Uid": "638add54-dc41-11e8-8cc1-eaeeb71b497f"
26  },
27  "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
28  "RattighetenSaknarPraktiskMening": false,
29  "SenastAndradAv": "tillman@kth.se",
30  "SenastSparad": "2026-01-29T10:51:14.672",
31  "Studentavgransningar": [],
32  "Uid": "0ce21f88-fcf8-11f0-9f6f-d1cf7b894209",
33  "Utbildningstypbenamning": {
34    "sv": "Kurs, grundniv\u00e5",
35    "en": "Course, First-cycle"
36  }
37 },
38 {
39   "_resultatrattighet": "Kursrattighet",
40   "Anvandare": {
41     "Anvandarnamn": "user@domain.se",
42     "Efternamn": "Studentzadeh",
43     "Fornamn": "Student",
44     "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
45   },
46   "AviseraVidKlarForHelkurs": false,
47   "AvserAvveckladKurs": false,
48   "Benamning": "DD1301 Computer Introduction",
49   "Gruppavgransningar": [],
50   "KursUID": "385f74c0-73d8-11e8-afa7-8e408e694e54",
51   "Kursinstansavgransningar": [],
52   "Kurstillfallesavgransningar": [],
53   "Medarbetartyp": "ATTESTANT",
54   "Modulavgransningar": [],
55   "Organisation": {
56     "Benamning": {
57       "sv": "EECS/Teoretisk datalogi",
58       "en": "EECS/Theoretical Computer Science"

```

```

59     },
60     "Kod": "JHT",
61     "UId": "638add54-dc41-11e8-8cc1-eaeeb71b497f"
62 },
63 "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
64 "RattighetenSaknarPraktiskMening": false,
65 "SenastAndradAv": "tillman@kth.se",
66 "SenastSparad": "2026-01-29T10:51:14.702",
67 "Studentavgransningar": [],
68 "UId": "0ce6b36a-fcf8-11f0-9f6f-d1cf7b894209",
69 "Utbildningstypbenamning": {
70     "sv": "Kurs, grundniv\u00e5",
71     "en": "Course, First-cycle"
72 }
73 },
74 {
75     "_resultatrattighet": "Kursrattighet",
76     "Anvandare": {
77         "Anvandarnamn": "user@domain.se",
78         "Efternamn": "Studentzadeh",
79         "Fornamn": "Student",
80         "UId": "21f4667a-e864-11ea-adbf-a14961264cf0"
81     },
82     "AviseraVidKlarForHelkurs": false,
83     "AvserAvveckladKurs": false,
84     "Benamning": "DD1317 Programming Techniques",
85     "Gruppavgransningar": [],
86     "KursUID": "70d5fdb9-2db7-11ec-bb06-8c8c04c8482a",
87     "Kursinstansavgransningar": [],
88     "Kurstillfallesavgransningar": [],
89     "Medarbetartyp": "ATTESTANT",
90     "Modulavgransningar": [],
91     "Organisation": {
92         "Benamning": {
93             "sv": "EECS/Teoretisk datalogi",
94             "en": "EECS/Theoretical Computer Science"
95         },
96         "Kod": "JHT",
97         "UId": "638add54-dc41-11e8-8cc1-eaeeb71b497f"
98     },
99     "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
100    "RattighetenSaknarPraktiskMening": false,
101    "SenastAndradAv": "tillman@kth.se",
102    "SenastSparad": "2026-01-29T11:38:36.160",
103    "Studentavgransningar": [],
104    "UId": "aa8ac8c5-fcfe-11f0-9f6f-d1cf7b894209",
105    "Utbildningstypbenamning": {
106        "sv": "Kurs, grundniv\u00e5",
107        "en": "Course, First-cycle"
108    }
109 },

```

```

110 {
111   "_resultatrattighet": "Kursrattighet",
112   "Anvandare": {
113     "Anvandarnamn": "user@domain.se",
114     "Efternamn": "Studentzadeh",
115     "Fornamn": "Student",
116     "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
117   },
118   "AviseraVidKlarForHelkurs": true,
119   "AvserAvveckladKurs": false,
120   "Benamning": "DD2520 Applied Cryptography",
121   "Gruppavgransningar": [],
122   "KursUID": "ab9c7c6b-d605-11e8-b094-9def723747ec",
123   "Kursinstansavgransningar": [],
124   "Kurstillfallesavgransningar": [],
125   "Medarbetartyp": "RAPPORTOR",
126   "Modulavgransningar": [],
127   "Organisation": {
128     "Benamning": {
129       "sv": "EECS/Teoretisk datalogi",
130       "en": "EECS/Theoretical Computer Science"
131     },
132     "Kod": "JHT",
133     "Uid": "638add54-dc41-11e8-8cc1-eaeeb71b497f"
134   },
135   "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
136   "RattighetenSaknarPraktiskMening": false,
137   "SenastAndradAv": "liniyo@kth.se",
138   "SenastSparad": "2026-01-30T08:32:27.702",
139   "Studentavgransningar": [],
140   "Uid": "d409163f-fdad-11f0-9bee-4a6818304b91",
141   "Utbildningstypbenamning": {
142     "sv": "Kurs, avancerad niv\u00e5",
143     "en": "Course, Second-cycle"
144   }
145 },
146 {
147   "_resultatrattighet": "Kursrattighet",
148   "Anvandare": {
149     "Anvandarnamn": "user@domain.se",
150     "Efternamn": "Studentzadeh",
151     "Fornamn": "Student",
152     "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
153   },
154   "AviseraVidKlarForHelkurs": false,
155   "AvserAvveckladKurs": false,
156   "Benamning": "DD2520 Applied Cryptography",
157   "Gruppavgransningar": [],
158   "KursUID": "ab9c7c6b-d605-11e8-b094-9def723747ec",
159   "Kursinstansavgransningar": [],
160   "Kurstillfallesavgransningar": [],

```

```

161     "Medarbetartyp": "ATTESTANT",
162     "Modulavgransningar": [],
163     "Organisation": {
164         "Benamning": {
165             "sv": "EECS/Teoretisk datalogi",
166             "en": "EECS/Theoretical Computer Science"
167         },
168         "Kod": "JHT",
169         "Uid": "638add54-dc41-11e8-8cc1-eaeeb71b497f"
170     },
171     "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
172     "RattighetenSaknarPraktiskMening": false,
173     "SenastAndradAv": "liniyo@kth.se",
174     "SenastSparad": "2026-01-30T08:32:27.749",
175     "Studentavgransningar": [],
176     "Uid": "d4104230-fdad-11f0-9bee-4a6818304b91",
177     "Utbildningstypbenamning": {
178         "sv": "Kurs, avancerad niv\u00e5",
179         "en": "Course, Second-cycle"
180     }
181 },
182 {
183     "_resultatrattighet": "Kursrattighet",
184     "Anvandare": {
185         "Anvandarnamn": "user@domain.se",
186         "Efternamn": "Studentzadeh",
187         "Fornamn": "Student",
188         "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
189     },
190     "AviseraVidKlarForHelkurs": true,
191     "AvserAvveckladKurs": false,
192     "Benamning": "DA2215 Theory of Science and Scientific methods in Cybersecurity",
193     "Gruppavgransningar": [],
194     "KursUID": "b790ea69-5065-11ed-9bb3-15472a47482f",
195     "Kursinstansavgransningar": [],
196     "Kurstillfallesavgransningar": [],
197     "Medarbetartyp": "RAPPORTOR",
198     "Modulavgransningar": [],
199     "Organisation": {
200         "Benamning": {
201             "sv": "EECS/Teoretisk datalogi",
202             "en": "EECS/Theoretical Computer Science"
203         },
204         "Kod": "JHT",
205         "Uid": "638add54-dc41-11e8-8cc1-eaeeb71b497f"
206     },
207     "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
208     "RattighetenSaknarPraktiskMening": false,
209     "SenastAndradAv": "liniyo@kth.se",
210     "SenastSparad": "2026-01-30T08:35:47.133",
211     "Studentavgransningar": [],

```



```

212     "Uid": "4ae7d755-fdae-11f0-9bee-4a6818304b91",
213     "Utbildningstypbenamning": {
214         "sv": "Kurs, avancerad niv\u00e5",
215         "en": "Course, Second-cycle"
216     }
217 },
218 {
219     "_resultatrattighet": "Kursrattighet",
220     "Anvandare": {
221         "Anvandarnamn": "user@domain.se",
222         "Efternamn": "Studentzadeh",
223         "Fornamn": "Student",
224         "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
225     },
226     "AviseraVidKlarForHelkurs": false,
227     "AvserAvveckladKurs": false,
228     "Benamning": "DA2215 Theory of Science and Scientific methods in Cybersecurity",
229     "Gruppavgransningar": [],
230     "KursUID": "b790ea69-5065-11ed-9bb3-15472a47482f",
231     "Kursinstansavgransningar": [],
232     "Kurstillfallesavgransningar": [],
233     "Medarbetartyp": "ATTESTANT",
234     "Modulavgransningar": [],
235     "Organisation": {
236         "Benamning": {
237             "sv": "EECS/Teoretisk datalogi",
238             "en": "EECS/Theoretical Computer Science"
239         },
240         "Kod": "JHT",
241         "Uid": "638add54-dc41-11e8-8cc1-eaeeb71b497f"
242     },
243     "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
244     "RattighetenSaknarPraktiskMening": false,
245     "SenastAndradAv": "liniyo@kth.se",
246     "SenastSparad": "2026-01-30T08:35:47.190",
247     "Studentavgransningar": [],
248     "Uid": "4af089ea-fdae-11f0-9bee-4a6818304b91",
249     "Utbildningstypbenamning": {
250         "sv": "Kurs, avancerad niv\u00e5",
251         "en": "Course, Second-cycle"
252     }
253 },
254 {
255     "_resultatrattighet": "Kursrattighet",
256     "Anvandare": {
257         "Anvandarnamn": "user@domain.se",
258         "Efternamn": "Studentzadeh",
259         "Fornamn": "Student",
260         "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
261     },
262     "AviseraVidKlarForHelkurs": false,

```

```

263     "AvserAvveckladKurs": true,
264     "Benamning": "DD1315 Programming Techniques and Matlab",
265     "Gruppavgransningar": [],
266     "KursUID": "38ab2393-73d8-11e8-afa7-8e408e694e54",
267     "Kursinstansavgransningar": [],
268     "Kurstillfallesavgransningar": [],
269     "Medarbetartyp": "ATTESTANT",
270     "Modulavgransningar": [],
271     "Organisation": {
272       "Benamning": {
273         "sv": "EECS/Datavetenskap",
274         "en": "EECS/Computer Science"
275       },
276       "Kod": "JH",
277       "Uid": "2474f616-dc41-11e8-8cc1-eaeeb71b497f"
278     },
279     "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
280     "RattighetenSaknarPraktiskMening": false,
281     "SenastAndradAv": "nannah@kth.se",
282     "SenastSparad": "2020-09-24T13:46:48.089",
283     "Studentavgransningar": [],
284     "Uid": "a0c3d8c7-fe5b-11ea-a46d-46a9df314f55",
285     "Utbildningstypbenamning": {
286       "sv": "Kurs, grundniv\u00e5",
287       "en": "Course, First-cycle"
288     }
289   },
290   {
291     "_resultatrattighet": "Kursrattighet",
292     "Anvandare": {
293       "Anvandarnamn": "user@domain.se",
294       "Efternamn": "Studentzadeh",
295       "Fornamn": "Student",
296       "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
297     },
298     "AviseraVidKlarForHelkurs": false,
299     "AvserAvveckladKurs": true,
300     "Benamning": "DD1315 Programming Techniques and Matlab",
301     "Gruppavgransningar": [],
302     "KursUID": "38ab2393-73d8-11e8-afa7-8e408e694e54",
303     "Kursinstansavgransningar": [],
304     "Kurstillfallesavgransningar": [],
305     "Medarbetartyp": "ATTESTANT",
306     "Modulavgransningar": [],
307     "Organisation": {
308       "Benamning": {
309         "sv": "CSC/Teoretisk datalogi",
310         "en": "CSC/Theoretical Computer Science"
311       },
312       "Kod": "DL",
313       "Uid": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6"

```

```

314     },
315     "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
316     "RattighetenSaknarPraktiskMening": false,
317     "SenastAndradAv": "suscar@kth.se",
318     "SenastSparad": "2020-10-09T13:08:19.986",
319     "Studentavgransningar": [],
320     "UId": "bd39872d-0a1f-11eb-9d38-9773472c4c59",
321     "Utbildningstypbenamning": {
322       "sv": "Kurs, grundniv\u00e5",
323       "en": "Course, First-cycle"
324     }
325   },
326   {
327     "_resultatrattighet": "Kursrattighet",
328     "Anvandare": {
329       "Anvandarnamn": "user@domain.se",
330       "Efternamn": "Studentzadeh",
331       "Fornamn": "Student",
332       "UId": "21f4667a-e864-11ea-adbf-a14961264cf0"
333     },
334     "AviseraVidKlarForHelkurs": false,
335     "AvserAvveckladKurs": false,
336     "Benamning": "DD1310 Programming Techniques",
337     "Gruppavgransningar": [],
338     "KursUID": "386a70fa-73d8-11e8-afa7-8e408e694e54",
339     "Kursinstansavgransningar": [],
340     "Kurstillfallesavgransningar": [],
341     "Medarbetartyp": "RAPPORTOR",
342     "Modulavgransningar": [],
343     "Organisation": {
344       "Benamning": {
345         "sv": "CSC/Teoretisk datalogi",
346         "en": "CSC/Theoretical Computer Science"
347       },
348       "Kod": "DL",
349       "UId": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6"
350     },
351     "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
352     "RattighetenSaknarPraktiskMening": false,
353     "SenastAndradAv": "mbw@kth.se",
354     "SenastSparad": "2021-09-17T10:18:49.263",
355     "Studentavgransningar": [],
356     "UId": "e2b09bfd-178f-11ec-a4aa-32ead39744f5",
357     "Utbildningstypbenamning": {
358       "sv": "Kurs, grundniv\u00e5",
359       "en": "Course, First-cycle"
360     }
361   },
362   {
363     "_resultatrattighet": "Kursrattighet",
364     "Anvandare": {

```

```

365     "Anvandarnamn": "user@domain.se",
366     "Efternamn": "Studentzadeh",
367     "Fornamn": "Student",
368     "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
369 },
370 "AviseraVidKlarForHelkurs": false,
371 "AvserAvveckladKurs": true,
372 "Benamning": "DD1315 Programming Techniques and Matlab",
373 "Gruppavgransningar": [],
374 "KursUID": "38ab2393-73d8-11e8-afa7-8e408e694e54",
375 "Kursinstansavgransningar": [],
376 "Kurstillfallesavgransningar": [],
377 "Medarbetartyp": "RAPPORTOR",
378 "Modulavgransningar": [],
379 "Organisation": {
380     "Benamning": {
381         "sv": "EECS/Datavetenskap",
382         "en": "EECS/Computer Science"
383     },
384     "Kod": "JH",
385     "Uid": "2474f616-dc41-11e8-8cc1-eaeeb71b497f"
386 },
387 "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
388 "RattighetenSaknarPraktiskMening": false,
389 "SenastAndradAv": "gusrud@kth.se",
390 "SenastSparad": "2020-09-25T10:47:53.563",
391 "Studentavgransningar": [],
392 "Uid": "cce6eb80-ff0b-11ea-a46d-46a9df314f55",
393 "Utbildningstypbenamning": {
394     "sv": "Kurs, grundniv\u00e5",
395     "en": "Course, First-cycle"
396 }
397 },
398 {
399     "_resultatrattighet": "Kursrattighet",
400     "Anvandare": {
401         "Anvandarnamn": "user@domain.se",
402         "Efternamn": "Studentzadeh",
403         "Fornamn": "Student",
404         "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
405     },
406     "AviseraVidKlarForHelkurs": false,
407     "AvserAvveckladKurs": true,
408     "Benamning": "DD1315 Programming Techniques and Matlab",
409     "Gruppavgransningar": [],
410     "KursUID": "38ab2393-73d8-11e8-afa7-8e408e694e54",
411     "Kursinstansavgransningar": [],
412     "Kurstillfallesavgransningar": [],
413     "Medarbetartyp": "RAPPORTOR",
414     "Modulavgransningar": [],
415     "Organisation": {

```

```

416     "Benamning": {
417         "sv": "CSC/Teoretisk datalogi",
418         "en": "CSC/Theoretical Computer Science"
419     },
420     "Kod": "DL",
421     "Uid": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6"
422 },
423 "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
424 "RattighetenSaknarPraktiskMening": false,
425 "SenastAndradAv": "gusrud@kth.se",
426 "SenastSparad": "2020-09-25T10:48:22.722",
427 "Studentavgransningar": [],
428 "Uid": "de483a53-ff0b-11ea-a46d-46a9df314f55",
429 "Utbildningstypbenamning": {
430     "sv": "Kurs, grundniv\u00e5",
431     "en": "Course, First-cycle"
432 }
433 },
434 {
435     "_resultatrattighet": "Kursrattighet",
436     "Anvandare": {
437         "Anvandarnamn": "user@domain.se",
438         "Efternamn": "Studentzadeh",
439         "Fornamn": "Student",
440         "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
441     },
442     "AviseraVidKlarForHelkurs": false,
443     "AvserAvveckladKurs": false,
444     "Benamning": "DD1310 Programming Techniques",
445     "Gruppavgransningar": [],
446     "KursUID": "386a70fa-73d8-11e8-afa7-8e408e694e54",
447     "Kursinstansavgransningar": [],
448     "Kurstillfallesavgransningar": [],
449     "Medarbetartyp": "RAPPORTOR",
450     "Modulavgransningar": [],
451     "Organisation": {
452         "Benamning": {
453             "sv": "EECS/Teoretisk datalogi",
454             "en": "EECS/Theoretical Computer Science"
455         },
456         "Kod": "JHT",
457         "Uid": "638add54-dc41-11e8-8cc1-eaeeb71b497f"
458     },
459     "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
460     "RattighetenSaknarPraktiskMening": false,
461     "SenastAndradAv": "tillman@kth.se",
462     "SenastSparad": "2026-01-29T11:33:53.108",
463     "Studentavgransningar": [],
464     "Uid": "01d47a07-fcfe-11f0-9f6f-d1cf7b894209",
465     "Utbildningstypbenamning": {
466         "sv": "Kurs, grundniv\u00e5",

```

```

467     "en": "Course, First-cycle"
468   }
469 },
470 {
471   "_resultatrattighet": "Kursrattighet",
472   "Anvandare": {
473     "Anvandarnamn": "user@domain.se",
474     "Efternamn": "Studentzadeh",
475     "Fornamn": "Student",
476     "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
477   },
478   "AviseraVidKlarForHelkurs": false,
479   "AvserAvveckladKurs": false,
480   "Benamning": "DD1317 Programming Techniques",
481   "Gruppavgransningar": [],
482   "KursUID": "70d5fdb9-2db7-11ec-bb06-8c8c04c8482a",
483   "Kursinstansavgransningar": [],
484   "Kurstillfallesavgransningar": [],
485   "Medarbetartyp": "RAPPORTOR",
486   "Modulavgransningar": [],
487   "Organisation": {
488     "Benamning": {
489       "sv": "EECS/Teoretisk datalogi",
490       "en": "EECS/Theoretical Computer Science"
491     },
492     "Kod": "JHT",
493     "Uid": "638add54-dc41-11e8-8cc1-eaeeb71b497f"
494   },
495   "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
496   "RattighetenSaknarPraktiskMening": false,
497   "SenastAndradAv": "tillman@kth.se",
498   "SenastSparad": "2026-01-29T11:38:36.126",
499   "Studentavgransningar": [],
500   "Uid": "aa8598a4-fcfe-11f0-9f6f-d1cf7b894209",
501   "Utbildningstypbenamning": {
502     "sv": "Kurs, grundniv\u00e5",
503     "en": "Course, First-cycle"
504   }
505 },
506 {
507   "_resultatrattighet": "Kursrattighet",
508   "Anvandare": {
509     "Anvandarnamn": "user@domain.se",
510     "Efternamn": "Studentzadeh",
511     "Fornamn": "Student",
512     "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
513   },
514   "AviseraVidKlarForHelkurs": false,
515   "AvserAvveckladKurs": false,
516   "Benamning": "DD1301 Computer Introduction",
517   "Gruppavgransningar": [],

```

```

518     "KursUID": "385f74c0-73d8-11e8-afa7-8e408e694e54",
519     "Kursinstansavgransningar": [],
520     "Kurstillfallesavgransningar": [],
521     "Medarbetartyp": "RAPPORTOR",
522     "Modulavgransningar": [],
523     "Organisation": {
524         "Benamning": {
525             "sv": "CSC/Teoretisk datalogi",
526             "en": "CSC/Theoretical Computer Science"
527         },
528         "Kod": "DL",
529         "Uid": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6"
530     },
531     "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
532     "RattighetenSaknarPraktiskMening": false,
533     "SenastAndradAv": "nannah@kth.se",
534     "SenastSparad": "2020-09-24T13:47:46.853",
535     "Studentavgransningar": [],
536     "Uid": "c3ca862e-fe5b-11ea-a46d-46a9df314f55",
537     "Utbildningstypbenamning": {
538         "sv": "Kurs, grundniv\u00e5",
539         "en": "Course, First-cycle"
540     }
541 },
542 {
543     "_resultatrattighet": "Kursrattighet",
544     "Anvandare": {
545         "Anvandarnamn": "user@domain.se",
546         "Efternamn": "Studentzadeh",
547         "Fornamn": "Student",
548         "Uid": "21f4667a-e864-11ea-adbf-a14961264cf0"
549     },
550     "AviseraVidKlarForHelkurs": false,
551     "AvserAvveckladKurs": false,
552     "Benamning": "DD1301 Computer Introduction",
553     "Gruppavgransningar": [],
554     "KursUID": "385f74c0-73d8-11e8-afa7-8e408e694e54",
555     "Kursinstansavgransningar": [],
556     "Kurstillfallesavgransningar": [],
557     "Medarbetartyp": "ATTESTANT",
558     "Modulavgransningar": [],
559     "Organisation": {
560         "Benamning": {
561             "sv": "CSC/Teoretisk datalogi",
562             "en": "CSC/Theoretical Computer Science"
563         },
564         "Kod": "DL",
565         "Uid": "ea8a551c-73d6-11e8-8c58-f9aa7f7e4fb6"
566     },
567     "RattighetenAvser": "HEL_KURS_OCH_MODUL_RESULTAT",
568     "RattighetenSaknarPraktiskMening": false,

```

```

569     "SenastAndradAv": "suscar@kth.se",
570     "SenastSparad": "2020-10-09T12:38:48.965",
571     "Studentavgransningar": [],
572     "Uid": "9d9d2b77-0a1b-11eb-9d38-9773472c4c59",
573     "Utbildningstypbenamning": {
574         "sv": "Kurs, grundniv\u00e5",
575         "en": "Course, First-cycle"
576     }
577 }
578 ]

```

## 20.2 organization\_info\_JSON

We can get information about the organization.

```

489a <LadokSession data methods 151b>+=
# added by GQMJr
def organization_info_JSON(self) -> dict:
    """
    Returns a dictionary of organization information for the entire institution
    of the logged in user.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url + '/resultat/internal/organisation/utanlankar',
        headers=self.headers)
    if r.status_code == requests.codes.ok:
        return r.json()
    raise LadokAPIError(f"failed to get organization info: {r.text}")

Let's add a test. This should return a dictionary.

489b <test functions 151a>+=
def test_organization_info_JSON() -> None:
    r = ladok.organization_info_JSON()
    assert type(r) == dict

```

This code is used in chunk 146.

The output looks like this:

```

1  {
2    "Organisation": [
3      {
4        "Benamning": {
5          "sv": "KTH Universitetsf\u00f6rvaltning/SI",
6          "en": "KTH Student's Office/SI"
7        },
8        "Kod": "100",
9        "Organisationsenhetstyp": "INSTITUTION",
10       "Uid": "e83d5892-73d6-11e8-8c58-f9aa7f7e4fb6"
11     },
12     {
13       "Benamning": {
14         "sv": "KTH Arkitekturskolan",

```



```

15     "en": "KTH School of Architecture"
16 },
17 "Kod": "110",
18 "Organisationsenhetstyp": "INSTITUTION",
19 "Uid": "e842afc9-73d6-11e8-8c58-f9aa7f7e4fb6"
20 },
21 {
22     "Benamning": {
23         "sv": "KTH Mark och vattenteknik",
24         "en": "KTH Land & Water Resources Engineering"
25     },
26     "Kod": "120",
27     "Organisationsenhetstyp": "INSTITUTION",
28     "Uid": "e8482e10-73d6-11e8-8c58-f9aa7f7e4fb6"
29 },
30 {
31     "Benamning": {
32         "sv": "KTH Byggekonstruktion",
33         "en": "KTH Structural Engineering"
34     },
35     "Kod": "130",
36     "Organisationsenhetstyp": "INSTITUTION",
37     "Uid": "e84dac57-73d6-11e8-8c58-f9aa7f7e4fb6"
38 },
39 {
40     "Benamning": {
41         "sv": "KTH Bygghälsan",
42         "en": "KTH Civil and Architectural Engineering"
43     },
44     "Kod": "140",
45     "Organisationsenhetstyp": "INSTITUTION",
46     "Uid": "e857705e-73d6-11e8-8c58-f9aa7f7e4fb6"
47 },
48 {
49     "Benamning": {
50         "sv": "Inst f byggv.sk., anv ej - nu inst 140",
51         "en": "- No translation available -"
52     },
53     "Kod": "1401",
54     "Organisationsenhetstyp": "INSTITUTION",
55     "Uid": "e85ceea5-73d6-11e8-8c58-f9aa7f7e4fb6"
56 },
57 {
58     "Benamning": {
59         "sv": "KTH Geodesi o fotogrammetri",
60         "en": "KTH Geodesy and Photogrammetry"
61     },
62     "Kod": "150",
63     "Organisationsenhetstyp": "INSTITUTION",
64     "Uid": "e8637e5c-73d6-11e8-8c58-f9aa7f7e4fb6"
65 },

```

```

66     {
67         "Benamning": {
68             "sv": "KTH Fastigheter och byggande",
69             "en": "KTH Real Estate & Construction Managem"
70         },
71         "Kod": "160",
72         "Organisationsenhetstyp": "INSTITUTION",
73         "Uid": "e8688773-73d6-11e8-8c58-f9aa7f7e4fb6"
74     },
75     {
76         "Benamning": {
77             "sv": "KTH Infrastruktur",
78             "en": "KTH Infrastructure"
79         },
80         "Kod": "165",
81         "Organisationsenhetstyp": "INSTITUTION",
82         "Uid": "e86d908a-73d6-11e8-8c58-f9aa7f7e4fb6"
83     },
84     {
85         "Benamning": {
86             "sv": "Milj\u00f6 och naturresursinformation",
87             "en": "-- No translation available --"
88         },
89         "Kod": "170",
90         "Organisationsenhetstyp": "INSTITUTION",
91         "Uid": "e8730dd1-73d6-11e8-8c58-f9aa7f7e4fb6"
92     },
93     {
94         "Benamning": {
95             "sv": "KTH Byggd milj\u00f6",
96             "en": "KTH Built Environment"
97         },
98         "Kod": "180",
99         "Organisationsenhetstyp": "INSTITUTION",
100        "Uid": "e875f408-73d6-11e8-8c58-f9aa7f7e4fb6"
101    },
102    {
103        "Benamning": {
104            "sv": "KTH Universitetsf\u00f6rvaltning/A",
105            "en": "KTH Student's Office/A"
106        },
107        "Kod": "190",
108        "Organisationsenhetstyp": "INSTITUTION",
109        "Uid": "e879014f-73d6-11e8-8c58-f9aa7f7e4fb6"
110    },
111    {
112        "Benamning": {
113            "sv": "KTH Universitetsf\u00f6rvaltning/DEF",
114            "en": "KTH Student's Office/DEF"
115        },
116        "Kod": "200",

```

```

117     "Organisationsenhetstyp": "INSTITUTION",
118     "Uid": "e87c83c6-73d6-11e8-8c58-f9aa7f7e4fb6"
119 },
120 {
121     "Benamning": {
122         "sv": "KTH Alfv\u00e9nlaboratoriet",
123         "en": "KTH Alfv\u00e9n Laboratory"
124     },
125     "Kod": "210",
126     "Organisationsenhetstyp": "INSTITUTION",
127     "Uid": "e880063d-73d6-11e8-8c58-f9aa7f7e4fb6"
128 },
129 {
130     "Benamning": {
131         "sv": "Alfv\u00e9nlaboratoriet, anv ej - nu inst 210",
132         "en": "Dept. of Alfv\u00e9n Laboratory"
133     },
134     "Kod": "2101",
135     "Organisationsenhetstyp": "INSTITUTION",
136     "Uid": "e883d6d4-73d6-11e8-8c58-f9aa7f7e4fb6"
137 },
138 {
139     "Benamning": {
140         "sv": "KTH Mikroelektronik & informat.teknik",
141         "en": "KTH Microelectronics & Inform.Techn"
142     },
143     "Kod": "220",
144     "Organisationsenhetstyp": "INSTITUTION",
145     "Uid": "e8870b2b-73d6-11e8-8c58-f9aa7f7e4fb6"
146 },
147 {
148     "Benamning": {
149         "sv": "KTH Elektrotekniska system",
150         "en": "KTH Electrical Engineering"
151     },
152     "Kod": "230",
153     "Organisationsenhetstyp": "INSTITUTION",
154     "Uid": "e889f162-73d6-11e8-8c58-f9aa7f7e4fb6"
155 },
156 {
157     "Benamning": {
158         "sv": "KTH Numerisk analys o datalogi",
159         "en": "KTH Num Analysis & Computing Science"
160     },
161     "Kod": "240",
162     "Organisationsenhetstyp": "INSTITUTION",
163     "Uid": "e88cd799-73d6-11e8-8c58-f9aa7f7e4fb6"
164 },
165 {
166     "Benamning": {
167         "sv": "KTH Signaler, sensorer och system",

```

```

168     "en": "KTH Signals, Sensors and System"
169 },
170 "Kod": "250",
171 "Organisationsenhetstyp": "INSTITUTION",
172 "Uid": "e88f6fb0-73d6-11e8-8c58-f9aa7f7e4fb6"
173 },
174 {
175     "Benamning": {
176         "sv": "Forskarskola - S3",
177         "en": "Signals, Sensors and Systems"
178     },
179     "Kod": "2502",
180     "Organisationsenhetstyp": "INSTITUTION",
181     "Uid": "e89255e7-73d6-11e8-8c58-f9aa7f7e4fb6"
182 },
183 {
184     "Benamning": {
185         "sv": "KTH Tal, musik och h\u00f6rsel",
186         "en": "KTH Speech, Music and Hearing"
187     },
188     "Kod": "260",
189     "Organisationsenhetstyp": "INSTITUTION",
190     "Uid": "e895632e-73d6-11e8-8c58-f9aa7f7e4fb6"
191 },
192 {
193     "Benamning": {
194         "sv": "KTH Teoretisk elektroteknik",
195         "en": "KTH Electromagnetic Theory"
196     },
197     "Kod": "280",
198     "Organisationsenhetstyp": "INSTITUTION",
199     "Uid": "e8982255-73d6-11e8-8c58-f9aa7f7e4fb6"
200 },
201 {
202     "Benamning": {
203         "sv": "KTH Data- och systemvetenskap",
204         "en": "KTH Computer and Systems Sciences"
205     },
206     "Kod": "290",
207     "Organisationsenhetstyp": "INSTITUTION",
208     "Uid": "e89ae17c-73d6-11e8-8c58-f9aa7f7e4fb6"
209 },
210 {
211     "Benamning": {
212         "sv": "KTH Universitetsf\u00f6rvaltning/KKB",
213         "en": "KTH Student's Office/KKB"
214     },
215     "Kod": "300",
216     "Organisationsenhetstyp": "INSTITUTION",
217     "Uid": "e89dc7b3-73d6-11e8-8c58-f9aa7f7e4fb6"
218 },

```

```
219     {
220         "Benamning": {
221             "sv": "KTH Bioteknologi",
222             "en": "KTH Biotechnology"
223         },
224         "Kod": "310",
225         "Organisationsenhetstyp": "INSTITUTION",
226         "Uid": "e8a1231a-73d6-11e8-8c58-f9aa7f7e4fb6"
227     },
228     {
229         "Benamning": {
230             "sv": "KTH Kemi",
231             "en": "KTH Chemistry"
232         },
233         "Kod": "320",
234         "Organisationsenhetstyp": "INSTITUTION",
235         "Uid": "e8a3e241-73d6-11e8-8c58-f9aa7f7e4fb6"
236     },
237     {
238         "Benamning": {
239             "sv": "KTH Kemiteknik",
240             "en": "KTH Chemical Eng. and Technology"
241         },
242         "Kod": "330",
243         "Organisationsenhetstyp": "INSTITUTION",
244         "Uid": "e8a6c878-73d6-11e8-8c58-f9aa7f7e4fb6"
245     },
246     {
247         "Benamning": {
248             "sv": "KTH Fiber- och polymerteknologi",
249             "en": "KTH Fiber and Polymer Technology"
250         },
251         "Kod": "350",
252         "Organisationsenhetstyp": "INSTITUTION",
253         "Uid": "e8a9d5bf-73d6-11e8-8c58-f9aa7f7e4fb6"
254     },
255     {
256         "Benamning": {
257             "sv": "KTH Universitetsf\u00f6rvaltning/MMT",
258             "en": "KTH Student's Office/MMT"
259         },
260         "Kod": "400",
261         "Organisationsenhetstyp": "INSTITUTION",
262         "Uid": "e8ad0a16-73d6-11e8-8c58-f9aa7f7e4fb6"
263     },
264     {
265         "Benamning": {
266             "sv": "KTH Energiteknik",
267             "en": "KTH Energy Technology"
268         },
269         "Kod": "410",
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4067   "Kod": "UE",
4068   "Organisationsenhetstyp": "INSTITUTION",
4069   "UId": "ec53a38d-73d6-11e8-8c58-f9aa7f7e4fb6"
4070 },
4071 {
4072   "Benamning": {
4073     "sv": "Journalistkurser vid SU",
4074     "en": "- No translation available -"
4075   },
4076   "Kod": "UJ",
4077   "Organisationsenhetstyp": "INSTITUTION",
4078   "UId": "ec5662b4-73d6-11e8-8c58-f9aa7f7e4fb6"
4079 },
4080 {
4081   "Benamning": {
4082     "sv": "Stockholms universitet",
4083     "en": "Stockholm University"
4084   },
4085   "Kod": "UL",
4086   "Organisationsenhetstyp": "INSTITUTION",
4087   "UId": "ec5921db-73d6-11e8-8c58-f9aa7f7e4fb6"
4088 },
4089 {
4090   "Benamning": {
4091     "sv": "Byggd milj\u00f6, H\u00f6gsk i G\u00e4vle",
4092     "en": "- No translation available -"
4093   },
4094   "Kod": "UM",

```



```

4095     "Organisationsenhetstyp": "INSTITUTION",
4096     "Uid": "ec5be102-73d6-11e8-8c58-f9aa7f7e4fb6"
4097 },
4098 {
4099     "Benamning": {
4100         "sv": "Tekniska h\u00f6gskolans studentk\u00e5r",
4101         "en": "Student Union"
4102     },
4103     "Kod": "UTHS",
4104     "Organisationsenhetstyp": "INSTITUTION",
4105     "Uid": "ec5e7919-73d6-11e8-8c58-f9aa7f7e4fb6"
4106 },
4107 {
4108     "Benamning": {
4109         "sv": "Universitetsf\u00f6rvaltningen",
4110         "en": "University Administration"
4111     },
4112     "Kod": "V",
4113     "Organisationsenhetstyp": "INSTITUTION",
4114     "Uid": "ec618660-73d6-11e8-8c58-f9aa7f7e4fb6"
4115 },
4116 {
4117     "Benamning": {
4118         "sv": "Universitetsf\u00f6rvaltningen/Rektors planeringsenhet",
4119         "en": "University Administration"
4120     },
4121     "Kod": "VDA",
4122     "Organisationsenhetstyp": "INSTITUTION",
4123     "Uid": "ec641e77-73d6-11e8-8c58-f9aa7f7e4fb6"
4124 },
4125 {
4126     "Benamning": {
4127         "sv": "Universitetsf\u00f6rvaltningen/Stiftelse- och EK f\u00f6rvaltning",
4128         "en": "University Administration"
4129     },
4130     "Kod": "VDB",
4131     "Organisationsenhetstyp": "INSTITUTION",
4132     "Uid": "ec66dd9e-73d6-11e8-8c58-f9aa7f7e4fb6"
4133 },
4134 {
4135     "Benamning": {
4136         "sv": "Universitetsf\u00f6rvaltningen/avd f\u00f6r dokumenthantering",
4137         "en": "University Administration"
4138     },
4139     "Kod": "VDC",
4140     "Organisationsenhetstyp": "INSTITUTION",
4141     "Uid": "ec69eae5-73d6-11e8-8c58-f9aa7f7e4fb6"
4142 },
4143 {
4144     "Benamning": {
4145         "sv": "KTH/Universitetsf\u00f6rvaltningen/VoS",

```

```

4146         "en": "KTH/University Administration, Sweden"
4147     },
4148     "Kod": "VDDA",
4149     "Organisationsenhetstyp": "INSTITUTION",
4150     "Uid": "ec6fb753-73d6-11e8-8c58-f9aa7f7e4fb6"
4151 },
4152 {
4153     "Benamning": {
4154         "sv": "KTH/Universitetsf\u00f6rvaltningen/Personalavdelningen",
4155         "en": "KTH University Administration"
4156     },
4157     "Kod": "VDDH",
4158     "Organisationsenhetstyp": "INSTITUTION",
4159     "Uid": "ec729d8a-73d6-11e8-8c58-f9aa7f7e4fb6"
4160 },
4161 {
4162     "Benamning": {
4163         "sv": "Universitetsf\u00f6rvaltningen/Kommunikationsavdelningen (KOM)",
4164         "en": "University Administration"
4165     },
4166     "Kod": "VDE",
4167     "Organisationsenhetstyp": "INSTITUTION",
4168     "Uid": "ec7583c1-73d6-11e8-8c58-f9aa7f7e4fb6"
4169 },
4170 {
4171     "Benamning": {
4172         "sv": "Universitetsf\u00f6rvaltningen/Fakultetens kansli",
4173         "en": "University Administration"
4174     },
4175     "Kod": "VDG",
4176     "Organisationsenhetstyp": "INSTITUTION",
4177     "Uid": "ec78b818-73d6-11e8-8c58-f9aa7f7e4fb6"
4178 },
4179 {
4180     "Benamning": {
4181         "sv": "KTH/Universitetsf\u00f6rvaltningen/Avdelningen f\u00f6r student service",
4182         "en": "KTH/University Administration"
4183     },
4184     "Kod": "VDH",
4185     "Organisationsenhetstyp": "INSTITUTION",
4186     "Uid": "ec7c137f-73d6-11e8-8c58-f9aa7f7e4fb6"
4187 },
4188 {
4189     "Benamning": {
4190         "sv": "Universitetsf\u00f6rvaltningen/Enheten f\u00f6r externa relationer",
4191         "en": "University Administration"
4192     },
4193     "Kod": "VDI",
4194     "Organisationsenhetstyp": "INSTITUTION",
4195     "Uid": "ec7f47d6-73d6-11e8-8c58-f9aa7f7e4fb6"
4196 },

```

```

4197 {
4198   "Benamning": {
4199     "sv": "KTH/Universitetsf\u00f6rvaltningen/Juridiska avdelningen",
4200     "en": "KTH/University Administration/Legal Department"
4201   },
4202   "Kod": "VDJ",
4203   "Organisationsenhetstyp": "INSTITUTION",
4204   "UId": "ec82a33d-73d6-11e8-8c58-f9aa7f7e4fb6"
4205 },
4206 {
4207   "Benamning": {
4208     "sv": "Universitetsf\u00f6rvaltningen/IRO - Internationella relationer",
4209     "en": "University Administration"
4210   },
4211   "Kod": "VDK",
4212   "Organisationsenhetstyp": "INSTITUTION",
4213   "UId": "ec853b54-73d6-11e8-8c58-f9aa7f7e4fb6"
4214 },
4215 {
4216   "Benamning": {
4217     "sv": "KTH/Universitetsf\u00f6rvaltningen/Lokalserviceavdelningen",
4218     "en": "KTH/University Administration"
4219   },
4220   "Kod": "VDO",
4221   "Organisationsenhetstyp": "INSTITUTION",
4222   "UId": "ec895a0b-73d6-11e8-8c58-f9aa7f7e4fb6"
4223 },
4224 {
4225   "Benamning": {
4226     "sv": "Universitetsf\u00f6rvaltningen/IT-enheten",
4227     "en": "University Administration"
4228   },
4229   "Kod": "VDP",
4230   "Organisationsenhetstyp": "INSTITUTION",
4231   "UId": "ec8c1932-73d6-11e8-8c58-f9aa7f7e4fb6"
4232 },
4233 {
4234   "Benamning": {
4235     "sv": "Universitetsf\u00f6rvaltningen/KTH N\u00e4ringslivssamverkan",
4236     "en": "-- No translation available --"
4237   },
4238   "Kod": "VDU",
4239   "Organisationsenhetstyp": "INSTITUTION",
4240   "UId": "ec8f4d89-73d6-11e8-8c58-f9aa7f7e4fb6"
4241 },
4242 {
4243   "Benamning": {
4244     "sv": "KTH/Universitetsf\u00f6rvaltningen/AUA",
4245     "en": "KTH University Administration"
4246   },
4247   "Kod": "VDV",

```

```

4248     "Organisationsenhetstyp": "INSTITUTION",
4249     "Uid": "ec6cd11c-73d6-11e8-8c58-f9aa7f7e4fb6"
4250 },
4251 {
4252     "Benamning": {
4253         "sv": "KTH/Universitetsf\u00f6rvaltningen/AUA/Antagningsgruppen",
4254         "en": "KTH Admissions Office"
4255     },
4256     "Kod": "VDVA",
4257     "Organisationsenhetstyp": "INSTITUTION",
4258     "Uid": "ec92a8f0-73d6-11e8-8c58-f9aa7f7e4fb6"
4259 },
4260 {
4261     "Benamning": {
4262         "sv": "KTH/Universitetsf\u00f6rvaltningen/AUA/Examensgruppen",
4263         "en": "KTH Degree Administration Office"
4264     },
4265     "Kod": "VDVB",
4266     "Organisationsenhetstyp": "INSTITUTION",
4267     "Uid": "ec95b637-73d6-11e8-8c58-f9aa7f7e4fb6"
4268 },
4269 {
4270     "Benamning": {
4271         "sv": "KTH/Universitetsf\u00f6rvaltningen/AUA/VoS",
4272         "en": "KTH University Administration"
4273     },
4274     "Kod": "VDVC",
4275     "Organisationsenhetstyp": "INSTITUTION",
4276     "Uid": "ec99119e-73d6-11e8-8c58-f9aa7f7e4fb6"
4277 }
4278 ]
4279 }

```

### 20.3 larosatesinformation\_JSON

```

573a <LadokSession data methods 151b>+=
# added by GQMJr
def larosatesinformation_JSON(self) -> dict:
    """
    Returns a dictionary of the university or college information.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/larosatesinformation',
        headers=self.headers).json()
    return r

    Let's add a test. This should return a dictionary.

573b <test functions 151a>+=
def test_larosatesinformation_JSON() -> None:

```

```
r = ladok.larosatesinformation_JSON()
assert type(r) == dict
```

This code is used in chunk 146.

The output looks like this:

```
1 {
2   "Larosatesinformation": [
3     {
4       "Benamning": {
5         "sv": "Kungliga Tekniska h\u00f6gskolan",
6         "en": "KTH Royal Institute of Technology"
7       },
8       "Beskrivning": {},
9       "Dolt": false,
10      "ExtraAttribut": [],
11      "Giltighetsperiod": {},
12      "ID": "29",
13      "Kod": "KTH",
14      "LankTillWebbplats": {
15        "Url": "https://www.kth.se/"
16      },
17      "LankTillWebbplatsEngelskSida": {
18        "Url": "https://www.kth.se/en"
19      },
20      "LarosateID": 29,
21      "OrtID": 18,
22      "Postadress": {
23        "Postnummer": "12345",
24        "Postort": "Byn"
25      },
26      "Telefonnummer": "0701234567"
27    }
28  ]
29 }
```

## 20.4 undervisningssprak\_JSON

```
574 <LadokSession data methods 151b>+=
# added by GQMJr
def undervisningssprak_JSON(self) -> dict:
    """
    Returns a dictionary of teaching languages.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/undervisningssprak',
        headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

```
575 <test functions 151a>+=
def test_undervisningssprak_JSON() -> None:
    r = ladok.undervisningssprak_JSON()
    assert type(r) == dict
```

This code is used in chunk 146.

The output looks like this:

```
1 {
2   "Undervisningssprak": [
3     {
4       "Benamning": {
5         "sv": "Engelska",
6         "en": "English"
7       },
8       "Beskrivning": {},
9       "Dolt": false,
10      "Giltighetsperiod": {},
11      "ID": "2",
12      "Kod": "ENG",
13      "LarosateID": -1
14    },
15    {
16      "Benamning": {
17        "sv": "Ryska",
18        "en": "Russian"
19      },
20      "Beskrivning": {},
21      "Dolt": true,
22      "Giltighetsperiod": {},
23      "ID": "4",
24      "Kod": "RUS",
25      "LarosateID": -1
26    },
27    {
28      "Benamning": {
29        "sv": "Teckenspr\u00e5k",
30        "en": "Sign Language"
31      },
32      "Beskrivning": {},
33      "Dolt": true,
34      "Giltighetsperiod": {},
35      "ID": "5",
36      "Kod": "SGN",
37      "LarosateID": -1
38    },
39    {
40      "Benamning": {
41        "sv": "Svenska",
42        "en": "Swedish"
43      },
```

```
44     "Beskrivning": {},
45     "Dolt": false,
46     "Giltighetsperiod": {},
47     "ID": "1",
48     "Kod": "SWE",
49     "LarosateID": -1
50 },
51 {
52     "Benamning": {
53         "sv": "Danska",
54         "en": "Danish"
55     },
56     "Beskrivning": {},
57     "Dolt": true,
58     "Giltighetsperiod": {},
59     "ID": "109804",
60     "Kod": "DAN",
61     "LarosateID": -1
62 },
63 {
64     "Benamning": {
65         "sv": "Finska",
66         "en": "Finnish"
67     },
68     "Beskrivning": {},
69     "Dolt": true,
70     "Giltighetsperiod": {},
71     "ID": "109805",
72     "Kod": "FIN",
73     "LarosateID": -1
74 },
75 {
76     "Benamning": {
77         "sv": "Italienska",
78         "en": "Italian"
79     },
80     "Beskrivning": {},
81     "Dolt": true,
82     "Giltighetsperiod": {},
83     "ID": "109806",
84     "Kod": "ITA",
85     "LarosateID": -1
86 },
87 {
88     "Benamning": {
89         "sv": "Japanska",
90         "en": "Japanese"
91     },
92     "Beskrivning": {},
93     "Dolt": true,
94     "Giltighetsperiod": {},
```

```
95     "ID": "109807",
96     "Kod": "JPN",
97     "LarosateID": -1
98 },
99 {
100     "Benamning": {
101         "sv": "Norska",
102         "en": "Norwegian"
103     },
104     "Beskrivning": {},
105     "Dolt": true,
106     "Giltighetsperiod": {},
107     "ID": "109808",
108     "Kod": "NOR",
109     "LarosateID": -1
110 },
111 {
112     "Benamning": {
113         "sv": "Portugisiska",
114         "en": "Portugese"
115     },
116     "Beskrivning": {},
117     "Dolt": true,
118     "Giltighetsperiod": {},
119     "ID": "109809",
120     "Kod": "POR",
121     "LarosateID": -1
122 },
123 {
124     "Benamning": {
125         "sv": "Franska",
126         "en": "French"
127     },
128     "Beskrivning": {},
129     "Dolt": true,
130     "Giltighetsperiod": {},
131     "ID": "109810",
132     "Kod": "FRE",
133     "LarosateID": -1
134 },
135 {
136     "Benamning": {
137         "sv": "Tyska",
138         "en": "German"
139     },
140     "Beskrivning": {},
141     "Dolt": true,
142     "Giltighetsperiod": {},
143     "ID": "109811",
144     "Kod": "GER",
145     "LarosateID": -1
```



```

146     },
147     {
148         "Benamning": {
149             "sv": "Arabiska",
150             "en": "Arabic"
151         },
152         "Beskrivning": {},
153         "Dolt": true,
154         "Giltighetsperiod": {},
155         "ID": "111032",
156         "Kod": "ARA",
157         "LarosateID": -1
158     },
159     {
160         "Benamning": {
161             "sv": "Kinesiska",
162             "en": "Chinese"
163         },
164         "Beskrivning": {},
165         "Dolt": true,
166         "Giltighetsperiod": {},
167         "ID": "111033",
168         "Kod": "CHI",
169         "LarosateID": -1
170     },
171     {
172         "Benamning": {
173             "sv": "Kurdiska",
174             "en": "Kurdish"
175         },
176         "Beskrivning": {},
177         "Dolt": true,
178         "Giltighetsperiod": {},
179         "ID": "150757",
180         "Kod": "KUR",
181         "LarosateID": -1
182     },
183     {
184         "Benamning": {
185             "sv": "Flerspr\u00e5kig undervisning",
186             "en": "Multiple languages"
187         },
188         "Beskrivning": {},
189         "Dolt": true,
190         "Giltighetsperiod": {},
191         "ID": "150758",
192         "Kod": "MUL",
193         "LarosateID": -1
194     },
195     {
196         "Benamning": {

```

```

197     "sv": "Turkiska",
198     "en": "Turkish"
199 },
200 "Beskrivning": {},
201 "Dolt": true,
202 "Giltighetsperiod": {},
203 "ID": "150759",
204 "Kod": "TUR",
205 "LarosateID": -1
206 },
207 {
208   "Benamning": {
209     "sv": "Persiska",
210     "en": "Persian"
211   },
212   "Beskrivning": {},
213   "Dolt": true,
214   "Giltighetsperiod": {},
215   "ID": "150907",
216   "Kod": "PER",
217   "LarosateID": -1
218 },
219 {
220   "Benamning": {
221     "sv": "Isl\u00e4ndska",
222     "en": "Icelandic"
223   },
224   "Beskrivning": {},
225   "Dolt": true,
226   "Giltighetsperiod": {},
227   "ID": "151538",
228   "Kod": "ISL",
229   "LarosateID": -1
230 },
231 {
232   "Benamning": {
233     "sv": "Me\u00e4nskieli",
234     "en": "Me\u00e4nskieli"
235   },
236   "Beskrivning": {},
237   "Dolt": true,
238   "Giltighetsperiod": {},
239   "ID": "151967",
240   "Kod": "FIT",
241   "LarosateID": -1
242 },
243 {
244   "Benamning": {
245     "sv": "Samiska",
246     "en": "Sami"
247   },

```

```

248     "Beskrivning": {},
249     "Dolt": true,
250     "Giltighetsperiod": {},
251     "ID": "151968",
252     "Kod": "SMI",
253     "LarosateID": -1
254 },
255 {
256     "Benamning": {
257         "sv": "Polska",
258         "en": "Polish"
259     },
260     "Beskrivning": {},
261     "Dolt": true,
262     "Giltighetsperiod": {},
263     "ID": "152516",
264     "Kod": "POL",
265     "LarosateID": -1
266 },
267 {
268     "Benamning": {
269         "sv": "Rum\u00e4nska",
270         "en": "Romanian"
271     },
272     "Beskrivning": {},
273     "Dolt": true,
274     "Giltighetsperiod": {},
275     "ID": "159549",
276     "Kod": "RUM",
277     "LarosateID": -1
278 },
279 {
280     "Benamning": {
281         "sv": "Jiddisch",
282         "en": "Yiddish"
283     },
284     "Beskrivning": {},
285     "Dolt": true,
286     "Giltighetsperiod": {},
287     "ID": "160526",
288     "Kod": "YID",
289     "LarosateID": -1
290 },
291 {
292     "Benamning": {
293         "sv": "Grekiska (modern)",
294         "en": "Greek (modern)"
295     },
296     "Beskrivning": {},
297     "Dolt": true,
298     "Giltighetsperiod": {},

```

```
299     "ID": "160825",
300     "Kod": "ELL",
301     "LarosateID": -1
302 },
303 {
304     "Benamning": {
305         "sv": "Nederl\u00e4ndska",
306         "en": "Dutch"
307     },
308     "Beskrivning": {},
309     "Dolt": true,
310     "Giltighetsperiod": {},
311     "ID": "161660",
312     "Kod": "NLD",
313     "LarosateID": -1
314 },
315 {
316     "Benamning": {
317         "sv": "Lettiska",
318         "en": "Latvian"
319     },
320     "Beskrivning": {},
321     "Dolt": true,
322     "Giltighetsperiod": {},
323     "ID": "161672",
324     "Kod": "LAT",
325     "LarosateID": -1
326 },
327 {
328     "Benamning": {
329         "sv": "Litauiska",
330         "en": "Lithuanian"
331     },
332     "Beskrivning": {},
333     "Dolt": true,
334     "Giltighetsperiod": {},
335     "ID": "161673",
336     "Kod": "LIT",
337     "LarosateID": -1
338 },
339 {
340     "Benamning": {
341         "sv": "Ukrainska",
342         "en": "Ukrainian"
343     },
344     "Beskrivning": {},
345     "Dolt": true,
346     "Giltighetsperiod": {},
347     "ID": "161674",
348     "Kod": "UKR",
349     "LarosateID": -1
```

```

350     },
351     {
352         "Benamning": {
353             "sv": "Spanska",
354             "en": "Spanish"
355         },
356         "Beskrivning": {},
357         "Dolt": true,
358         "Giltighetsperiod": {},
359         "ID": "3",
360         "Kod": "SPA",
361         "LarosateID": -1
362     },
363     {
364         "Benamning": {
365             "sv": "Tjeckiska",
366             "en": "Czech"
367         },
368         "Beskrivning": {},
369         "Dolt": true,
370         "Giltighetsperiod": {},
371         "ID": "161671",
372         "Kod": "CES",
373         "LarosateID": -1
374     }
375 ]
376 }

```

## 20.5 i18n\_translation\_JSON

```

582a <LadokSession data methods 151b>+=
# added by GQMJr
def i18n_translation_JSON(self, lang: str = 'sv') -> dict:
    """
    Returns a dictionary of i18n translations used in Ladok3.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/i18n/oversattningar/sprakkod/' + lang,
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

```

582b <test functions 151a>+=
def test_i18n_translation_JSON() -> None:
    r = ladok.i18n_translation_JSON()
    assert type(r) == dict

```

This code is used in chunk 146.

The output looks like this:

```

1  {
2    "Oversattningar": [
3      {
4        "I18nNyckel": "commons.fel.detaljkod.utbildningsinformationsstruktur",
5        "Text": "Struktur"
6      },
7      {
8        "I18nNyckel": "systemaktivitet.bevakning.lasa",
9        "Text": "Bevakning: L\u00e4s grundinformation"
10     },
11     {
12       "I18nNyckel": "studentarende.besluta",
13       "Text": "Besluta och avsluta"
14     },
15     {
16       "I18nNyckel": "kataloginformation.grunddatakategori.lan.beskrivning",
17       "Text": "Regionalt f\u00f6rvaltningsomr\u00e5de, administrativ och geografisk indelning av Sverige"
18     },
19     {
20       "I18nNyckel": "systemaktivitet.studentinformation.nationell.sokning.pa.student",
21       "Text": "Studentinformation: S\u00f6k student i hela Ladok - nationell r\u00f6ttighetsniv\u00e5"
22     },
23     {
24       "I18nNyckel": "systemaktivitet.studiedeltagande.forbereda_tillfallesbyte.student",
25       "Text": "Student-Studiedeltagande: F\u00f6rbered tillf\u00e4llesbyte"
26     },
27     {
28       "I18nNyckel": "systemaktivitet.studiedeltagande.lasa_studieval",
29       "Text": "Studiedeltagande: Studieval - endast l\u00e4sa"
30     },
31     {
32       "I18nNyckel": "kataloginformation.fel.detaljkod.lokaltext",
33       "Text": "Lokal text"
34     },
35     {
36       "I18nNyckel": "systemaktivitet.resultat.bereda_avslag_studentarende",
37       "Text": "Tillgodor\u00f6rande: Bereda avslag"
38     },
39     {
40       "I18nNyckel": "arendestod.fel.detaljkod.fordelningsfilter",
41       "Text": "F\u00f6rdelningsfilter"
42     },
43     {
44       "I18nNyckel": "kataloginformation.fel.detaljkod.bestalld_tidpunkt",
45       "Text": "Best\u00e4lld tidpunkt"
46     },
47     {
48       "I18nNyckel": "systemaktivitet.examen.hantera.nationell.bevisinformation",
49       "Text": "Bevis: Hantera nationell bevisinformation"
50     }
51   ]
52 }

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50     },
51     {
52         "I18nNyckel": "systemaktivitet.resultat.tabort.attesterat_resultat",
53         "Text": "Resultat: Ta bort attesterat resultat"
54     },
55     {
56         "I18nNyckel": "systemaktivitet.resultat.handlagga_tillgodoraknande",
57         "Text": "Tillgodor\u00e4knande: Bereda tillgodor\u00e4knande f\u00f6r del av kurs inkl. klarmärke"
58     },
59     {
60         "I18nNyckel": "systemaktivitet.resultat.aktivitetstillfalle.se_anonym_student.student",
61         "Text": "Student-Resultat: Se student med anonymkod"
62     },
63     {
64         "I18nNyckel": "commons.domain.anvandarnamn",
65         "Text": "Anv\u00e4ndarnamn (EPPN)"
66     },
67     {
68         "I18nNyckel": "commons.fel.detaljkod.autentisering_return_uri",
69         "Text": "URI f\u00f6r att slutf\u00f6ra \u00e5tg\u00e4rd som kr\u00e4ver autentisering"
70     },
71     {
72         "I18nNyckel": "commons.domain.larosate.hkr",
73         "Text": "H\u00f6gskolan Kristianstad"
74     },
75     {
76         "I18nNyckel": "systemaktivitet.studentinformation.nationell.sokning.pa.student.lokal",
77         "Text": "Studentinformation: S\u00f6ka student i hela Ladok - lokal r\u00e4ttighetsniv\u00e5"
78     },
79     {
80         "I18nNyckel": "systemaktivitet.examen.bevisansokan.av.student.student",
81         "Text": "Student-Bevis: Bevisans\u00f6kan av student"
82     },
83     {
84         "I18nNyckel": "kataloginformation.grunddatakategori.definitionavantagningsomgang.beskrivning",
85         "Text": "F\u00f6rdefinierad omg\u00e5ng f\u00f6r sammanh\u00e5llen hantering av anm\u00e4lningar"
86     },
87     {
88         "I18nNyckel": "commons.fel.detaljkod.idpdata",
89         "Text": "Idp data"
90     },
91     {
92         "I18nNyckel": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
93         "Text": "Ing\u00e5r i grupp: \u00d6verf\u00f6rs till NyA"
94     },
95     {
96         "I18nNyckel": "systemaktivitet.studiedeltagande.ta_bort_registrering_efter_studieperiodens_slut",
97         "Text": "Studiedeltagande: Ta bort registrering efter studieperiodens slut (kompletterande)"
98     },
99     {
100        "I18nNyckel": "systemaktivitet.examen.administrera.installningar.for.dokument",

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101     "Text": "Bevis: Hantera inst\u00e4llningar f\u00f6r dokument"
102   },
103   {
104     "I18nNyckel": "systemaktivitet.uppfoljning.publicering.egen.utsokning",
105     "Text": "Uppf\u00f6ljning: Publicera egen uts\u00f6kning"
106   },
107   {
108     "I18nNyckel": "commons.domain.regel.informationsbehorighet.utbytesstudier",
109     "Text": "Ing\u00e5r i grupp: Informationsbeh\u00f6righet - Utbytesstudier"
110   },
111   {
112     "I18nNyckel": "commons.domain.regel.versionshanteras",
113     "Text": "Versionshanteras"
114   },
115   {
116     "I18nNyckel": "systemaktivitet.utbildningsinformation.hantera.flera.utbildningstillfalle.bytt.status",
117     "Text": "Utbildningsinformation: Hantera flera tillf\u00\u00e4llen - S\u00e4tt status till p\u00e5b\u00f6rjad"
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119   {
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121     "Text": "Pedagogiskt st\u00f6d: Skapa ans\u00f6kan \u00f6r student"
122   },
123   {
124     "I18nNyckel": "systemaktivitet.examen.bevisunderlag.andra_namn_vid_utfardande_av_bevis",
125     "Text": "Bevis: \u00c4ndra students namn vid utf\u00e4rdande av bevis"
126   },
127   {
128     "I18nNyckel": "commons.fel.detaljkod.procent",
129     "Text": "Procent"
130   },
131   {
132     "I18nNyckel": "systemaktivitet.studiedeltagande.forbereda_tillfallesbyte",
133     "Text": "Studiedeltagande: F\u00f6rbered tillf\u00\u00e4llesbyte"
134   },
135   {
136     "I18nNyckel": "systemaktivitet.resultat.administrera.attesteringsrattigheter",
137     "Text": "Resultat: Hantera attesteringsr\u00e4ttigheter"
138   },
139   {
140     "I18nNyckel": "commons.domain.larosate.hhs",
141     "Text": "Handelsh\u00f6gskolan i Stockholm"
142   },
143   {
144     "I18nNyckel": "systemaktivitet.examen.utfarda.bevis.for.skyddad.student",
145     "Text": "Bevis: Hantera bevis f\u00f6r student med skyddade personuppgifter"
146   },
147   {
148     "I18nNyckel": "systemaktivitet.studiedeltagande.tillat_forvantat_deltagande_trots_avskiljande",
149     "Text": "Studiedeltagande: L\u00e4gg till f\u00f6r\u00e4ntat deltagande f\u00f6r partiellt avskiljande"
150   },
151   {

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152     "I18nNyckel": "extintegration.arende.antagningsarende",
153     "Text": "Antagnings\u00e4rende"
154 },
155 {
156     "I18nNyckel": "systemaktivitet.extintegration.skapa.registreringsintyg.student",
157     "Text": "Student-Intyg: Skapa registreringsintyg"
158 },
159 {
160     "I18nNyckel": "commons.domain.larosate.hig",
161     "Text": "H\u00f6gskolan i G\u00e4vle"
162 },
163 {
164     "I18nNyckel": "systemaktivitet.studentinformation.ta.bort.student",
165     "Text": "Studentinformation: Ta bort student utan kopplingar till l\u00e4ros\u00e4ten"
166 },
167 {
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169     "Text": "SWAMID AL3"
170 },
171 {
172     "I18nNyckel": "commons.fel.detaljkod.period",
173     "Text": "Period"
174 },
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176     "I18nNyckel": "commons.domain.utbildningstyp.utbytesavtal",
177     "Text": "Utbytesavtal"
178 },
179 {
180     "I18nNyckel": "systemaktivitet.studiedeltagande.tillat_registrering_omregistrering_vid_avklarad_k",
181     "Text": "Studiedeltagande: Registrera i efterhand p\u00e5 avklarad kurs (kompletterande)"
182 },
183 {
184     "I18nNyckel": "commons.domain.utbildningstillfalleskod",
185     "Text": "Tillf\u00e4lleskod"
186 },
187 {
188     "I18nNyckel": "commons.domain.tidpunkt",
189     "Text": "Tidpunkt"
190 },
191 {
192     "I18nNyckel": "systemaktivitet.processhantering.nationell_administration",
193     "Text": "Processt\u00f6d: Nationell administration"
194 },
195 {
196     "I18nNyckel": "systemaktivitet.kataloginformationbehorighet.agera.ombud.for.student",
197     "Text": "Beh\u00f6righetshantering: Agera ombud f\u00f6r student"
198 },
199 {
200     "I18nNyckel": "systemaktivitet.isp.avklara_isp",
201     "Text": "Individuell studieplan: Ange som Avklarad"
202 },

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203     {
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205         "Text": "Studiedeltagande: Informationsbeh\u00f6righet - Polisutbildning"
206     },
207     {
208         "I18nNyckel": "tillitsniva.2",
209         "Text": "L\u00f6senordsinloggning"
210     },
211     {
212         "I18nNyckel": "tillitsniva.3",
213         "Text": "SWAMID AL2"
214     },
215     {
216         "I18nNyckel": "kataloginformation.grunddatakategori.antagningsomgang.beskrivning",
217         "Text": "Sammanh\u00f6llen hantering av anm\u00f6lningar till h\u00f6gskoleutbildning med gemensam
218     },
219     {
220         "I18nNyckel": "commons.fel.grupp.varde_forandrat",
221         "Text": "V\u00f6rde f\u00f6r\u00e4ndrat"
222     },
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225         "Text": "Bevis valt"
226     },
227     {
228         "I18nNyckel": "systemaktivitet.arendestod.hantera.arendefritext.vid.sokning",
229         "Text": "Studiedeltagande: Hantera fritext\u00f6rend vid s\u00f6kning (kompletterande)"
230     },
231     {
232         "I18nNyckel": "commons.domain.larosate.lnu",
233         "Text": "Linn\u00e9universitetet"
234     },
235     {
236         "I18nNyckel": "commons.fel.detaljkod.startperiod",
237         "Text": "Startperiod"
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241         "Text": "Takt"
242     },
243     {
244         "I18nNyckel": "systemaktivitet.studiedeltagande.ta_bort_avbrott_pa_kurspaketering",
245         "Text": "Studiedeltagande: Ta bort avbrott p\u00f6 kurspaketering"
246     },
247     {
248         "I18nNyckel": "commons.fel.grupp.resurs_saknas",
249         "Text": "Den beg\u00f6rda resursen finns inte p\u00f6 servern"
250     },
251     {
252         "I18nNyckel": "commons.fel.kategori.sakerhetsovertradelse",
253         "Text": "Beh\u00f6righet saknas"

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254     },
255     {
256         "I18nNyckel": "systemaktivitet.utbildningsinformation.lagg_till_kurspaketeringstillfalle_till_utb",
257         "Text": "Utbudsomg\u00e5ng: L\u00e4gg till p\u00e5g\u00e5ende kurspaketeringstillf\u00e4llen till",
258     },
259     {
260         "I18nNyckel": "systemaktivitet.resultat.vidimera.merit.ratta",
261         "Text": "Resultat: R\u00e4tta annan merit"
262     },
263     {
264         "I18nNyckel": "kataloginformation.fel.detaljkod.lan",
265         "Text": "L\u00e4n"
266     },
267     {
268         "I18nNyckel": "systemaktivitet.resultat.aktivitetstillfalle.se_anonym_student",
269         "Text": "Resultat: L\u00e4sa studentuppgifter p\u00e5 anonyma aktivitetstillf\u00e4llen"
270     },
271     {
272         "I18nNyckel": "kataloginformation.fel.text.behorighetsprofil.far_inte_radera_studentrattigheter",
273         "Text": "Beh\u00f6righetsprofiler p\u00e5 niv\u00e5 studentr\u00e4ttigheter f\u00f6r inte tas bort",
274     },
275     {
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277         "Text": "H\u00f6gskolan Dalarna"
278     },
279     {
280         "I18nNyckel": "systemaktivitet.studiedeltagande.informationsbehorighet.alla.utbildningstyper",
281         "Text": "Studiedeltagande: Informationsbeh\u00f6righet - Alla utbildningstyper"
282     },
283     {
284         "I18nNyckel": "systemaktivitet.uppfoljning.andra.andras.utsokning",
285         "Text": "Uppf\u00f6ljning: \u00c4ndra ben\u00e4mning p\u00e5 andras uts\u00f6kningar"
286     },
287     {
288         "I18nNyckel": "arendestod.fel.beslutsfattare",
289         "Text": "Beslutsfattare"
290     },
291     {
292         "I18nNyckel": "sw.menyval.examen_och_bevis",
293         "Text": "Menyval: Examen och bevis"
294     },
295     {
296         "I18nNyckel": "rattighetsniva.lokal",
297         "Text": "Lokala r\u00e4ttigheter"
298     },
299     {
300         "I18nNyckel": "systemaktivitet.studiedeltagande.forbereda_tillfallesbyte_med_mojlighet_att_andra_",
301         "Text": "Student-Studiedeltagande: F\u00f6rbered tillf\u00e4llesbyte med m\u00f6jlighet att \u00e4ndra",
302     },
303     {
304         "I18nNyckel": "systemaktivitet.extintegration.scb_administration",

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305     "Text": "Extern integration: Hantera SCB-rapporter"
306   },
307   {
308     "I18nNyckel": "kataloginformation.grunddatakategori.enhet",
309     "Text": "Enhet"
310   },
311   {
312     "I18nNyckel": "systemaktivitet.kataloginformation.byt.till.alternativ.anvandare",
313     "Text": "Kataloginformation: Byt till alternativ anv\u00e4ndare"
314   },
315   {
316     "I18nNyckel": "arendestod.varning.ingenarendekorgmatchararendet",
317     "Text": "Inget f\u00f6rdelningsfilter tillh\u00f6rande en \u00e4rendekorg matchar \u00e4rendet"
318   },
319   {
320     "I18nNyckel": "sw.menyval.studieavgifter",
321     "Text": "Menyval: Studieavgifter"
322   },
323   {
324     "I18nNyckel": "commons.domain.benamning.en",
325     "Text": "Engelsk ben\u00e4mning"
326   },
327   {
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329     "Text": "Sida"
330   },
331   {
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333     "Text": "Finansieringsformsgrupp"
334   },
335   {
336     "I18nNyckel": "kataloginformation.fel.detaljkod.forkunskapsniva",
337     "Text": "F\u00f6rkunskapsniv\u00e5"
338   },
339   {
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341     "Text": "Betygsskala"
342   },
343   {
344     "I18nNyckel": "systemaktivitet.arendestod.hantera.arendekommunikation",
345     "Text": "\u00e4rendest\u00f6d: Hantera kommunikation"
346   },
347   {
348     "I18nNyckel": "systemaktivitet.resultat.dokumentera.praktik",
349     "Text": "Resultat: Dokumentera praktik"
350   },
351   {
352     "I18nNyckel": "commons.domain.utbildningstillfalle.kurstillfalleskod",
353     "Text": "Kurstillf\u00e4lleskod"
354   },
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356     "I18nNyckel": "kataloginformation.grunddatakategori.verksamhetsomrade",
357     "Text": "Verksamhetsomr\u00e5de"
358 },
359 {
360     "I18nNyckel": "commons.domain.regel.ingar.i.grupp.utbytesavtal",
361     "Text": "Ing\u00e5r i grupp: Utbytesavtal"
362 },
363 {
364     "I18nNyckel": "kataloginformation.grunddatakategori.land",
365     "Text": "Land"
366 },
367 {
368     "I18nNyckel": "systemaktivitet.studiedeltagande.administrera_studieavgiftsbetalning_for_period",
369     "Text": "Studiedeltagande: Hantera studieavgiftsbetalning f\u00f6r period"
370 },
371 {
372     "I18nNyckel": "commons.domain.beslut",
373     "Text": "Beslut"
374 },
375 {
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381     "Text": "Organisationskod"
382 },
383 {
384     "I18nNyckel": "systemaktivitet.utbildningsinformation.utbildning.administrera.i.status.paborjad",
385     "Text": "Utbildningsinformation: Hantera utbildning i status p\u00e5b\u00f6rjad"
386 },
387 {
388     "I18nNyckel": "systemaktivitet.arendestod.hantera.arend.ersatt.identitet.vid.sokning.nationell",
389     "Text": "Studentinformation: Hantera ersatt identitets\u00f6rend vid s\u00f6kning (kompletterand
390 },
391 {
392     "I18nNyckel": "commons.domain.regel.kan_ha_litteraturlista",
393     "Text": "Kan ha litteraturlista"
394 },
395 {
396     "I18nNyckel": "systemaktivitet.resultat.aktivitetstillfalle_andra",
397     "Text": "Resultat: \u00f6ndra aktivitetstillf\u00e4lle"
398 },
399 {
400     "I18nNyckel": "systemaktivitet.studiedeltagande.informationsbehorighet.grund.och.avancerad",
401     "Text": "Studiedeltagande: Informationsbeh\u00f6righet - Grund och avancerad niv\u00e5"
402 },
403 {
404     "I18nNyckel": "systemaktivitet.examen.andra.bevisbenamning.och.preciseringar",
405     "Text": "Bevis: \u00f6ndra bevisben\u00e4mning och preciseringar i bevisunderlag"
406 },

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410     },
411     {
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413       "Text": "Specificerat underlag"
414     },
415     {
416       "I18nNyckel": "systemaktivitet.arendestod.hantera.arendestudieavgiftsskyldighet.vid.sokning",
417       "Text": "Studentinformation: Hantera avgiftsskyldighets\u00e4rende vid s\u00f6kning (kompletteran
418     },
419     {
420       "I18nNyckel": "systemaktivitet.arendestod.avsluta",
421       "Text": "\u00c4rendest\u00f6d: Avsluta \u00e4rende"
422     },
423     {
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425       "Text": "Svensk ben\u00e4mning"
426     },
427     {
428       "I18nNyckel": "commons.domain.utbildningsgrundtyp.kurspaketering",
429       "Text": "Kurspaketering"
430     },
431     {
432       "I18nNyckel": "commons.domain.systemfunktion",
433       "Text": "Systemfunktion"
434     },
435     {
436       "I18nNyckel": "kataloginformation.fel.detaljkod.arendekorg.koppladanvandare",
437       "Text": "Kopplad anv\u00e4ndare"
438     },
439     {
440       "I18nNyckel": "arendestod.fel.detaljkod.arendestudieavgiftsskyldighet.vid.sokning",
441       "Text": "\u00c4rende"
442     },
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445       "Text": "Emrex: Visa ELMO-XML"
446     },
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448       "I18nNyckel": "commons.fel.detaljkod.orsak",
449       "Text": "Orsak"
450     },
451     {
452       "I18nNyckel": "kataloginformation.grunddatakategori.definitionavantagningsomgang",
453       "Text": "Definition av antagningsomg\u00e5ng"
454     },
455     {
456       "I18nNyckel": "commons.fel.detaljkod.motivering",
457       "Text": "Motivering"
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458     },
459     {
460         "I18nNyckel": "commons.domain.antagningsforfarande.utananmalan.beskrivning",
461         "Text": "-"
462     },
463     {
464         "I18nNyckel": "systemaktivitet.studiedeltagande.lasa_aktivitet_och_finansiering",
465         "Text": "Studiedeltagande: Studieaktivitet och -finansiering - endast l\u00e4sa"
466     },
467     {
468         "I18nNyckel": "systemaktivitet.examen.student.lasa.utfardade.bevis",
469         "Text": "Student-Bevis: L\u00e4sa utf\u00e4rdade bevis"
470     },
471     {
472         "I18nNyckel": "si.identitetsuppg.blockera.uppdatera",
473         "Text": "Blockera uppdatering av studentidentitetsuppgifter"
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1420     "I18nNyckel": "kataloginformation.grunddatakategori.nationelltundervisningsamne.beskrivning",
1421     "Text": "\u00c4mne i grund- och gymnasieskola som l\u00e4rare bedriver undervisning i. Anv\u00e4ndare
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1425     "Text": "Borttag av anv\u00e4ndare"
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1433         "Text": "Studentinformation: Hantera avgiftsskyldighet"
1434     },
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1437         "Text": "Studieordning"
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1441         "Text": "Utbildningsinformation: L\u00e4gg till studieperiod"
1442     },
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1453         "Text": "E-postadress"
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1457         "Text": "\u00c5ter\u00f6ppna"
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1461         "Text": "Menyval: Examen och bevis"
1462     },
1463     {
1464         "I18nNyckel": "kataloginformation.grunddatakategori.enhet.beskrivning",
1465         "Text": "Den enhet som anv\u00e4nds f\u00f6r att ange utbildningens omfattning, t.ex. h\u00f6gskola"
1466     },
1467     {
1468         "I18nNyckel": "systemaktivitet.arendestod.notera",
1469         "Text": "\u00e4rendest\u00f6d: Notera \u00e4rende (gammal l\u00f6sning)"
1470     },
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1472         "I18nNyckel": "systemaktivitet.resultat.attestera_tillgodoraknande.fritext",
1473         "Text": "Tillgodor\u00e4knande: Attestera tillgodor\u00e4knande, annan specifikation"
1474     },
1475     {
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1477         "Text": "Driftsfel"

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1485       "Text": "Organisationskod"
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1487     {
1488       "I18nNyckel": "commons.domain.regel.studieperiod.kan.laggas.till",
1489       "Text": "Studieperiod kan l\u00e4ggas till"
1490     },
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1493       "Text": "Studentinformation: Hantera avliden-markering p\u00e5 student"
1494     },
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1497       "Text": "Studiedeltagande: Dokumentera beslut"
1498     },
1499     {
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1501       "Text": "En lokal, namngiven variant av en dokumentmall f\u00f6r t.ex. examensbevis."
1502     },
1503     {
1504       "I18nNyckel": "systemaktivitet.resultat.rapportera.annatresultat",
1505       "Text": "Resultat: L\u00e4gg till annat resultat"
1506     },
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1509       "Text": "Verksamhetsroller kan anv\u00e4ndas p\u00e5 olika s\u00e4tt. Dels kan de kopplas till sp
1510     },
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1513       "Text": "Studiedeltagande: Studieplan - \u00e4ndra"
1514     },
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1517       "Text": "Praktiktyp"
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1537     "Text": "Beh\u00f6righetshantering: Koppla beh\u00f6righetsprofiler med l\u00e5r\u00e4ttighet ti
1538 },
1539 {
1540     "I18nNyckel": "systemaktivitet.utbildningsinformation.lasa_utbudsomgang",
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1542 },
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1545     "Text": "Student-Extintegration: L\u00e5a information"
1546 },
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1548     "I18nNyckel": "systemaktivitet.utbildningsinformation.besluta_plan_for_utbildning",
1549     "Text": "Utbildningsinformation: Besluta plan f\u00f6r utbildning"
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1557     "Text": "Studentinformation: Best\u00e4lla uppdatering av folkbokf\u00f6ringsuppgifter f\u00f6r a
1558 },
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1561     "Text": "YH-utbildning"
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1564     "I18nNyckel": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",
1565     "Text": "\u00c5tg\u00e4rd n\u00e4r f\u00f6rsta studieperiodens omfattningsv\u00e4rde blir orimlig
1566 },
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1568     "I18nNyckel": "kataloginformation.grunddatakategori.fordjupningsniva.beskrivning",
1569     "Text": "Klassifikation av kurs med avseende p\u00e5 f\u00f6rdjupning inom h\u00f6gskoleutbildnin
1570 },
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1573     "Text": "Beh\u00f6righetshantering: \u00c4ndra anv\u00e4ndarnamn"
1574 },
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1576     "I18nNyckel": "systemaktivitet.utbildningsinformation.publicera.utbildningsinformationsstruktur",
1577     "Text": "Utbildningsinformation: Publicera tillf\u00e4llesstruktur"
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1584     "I18nNyckel": "commons.fel.meddelande.kategori.max.langd",
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1589     "Text": "Status p\u00e5 aktivitetstillf\u00e4lle"
1590 },
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1593     "Text": "Inresandetillf\u00e4lle"
1594 },
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1596     "I18nNyckel": "systemaktivitet.kataloginformationbehorighet.koppla.nationell.profil",
1597     "Text": "Beh\u00f6righetshantering: Koppla support- och nationella beh\u00f6righetsprofiler till
1598 },
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1601     "Text": "Processt\u00f6d: Konfigurera process"
1602 },
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1605     "Text": "Studiedeltagande: Importera kurspaketeringsantagningar"
1606 },
1607 {
1608     "I18nNyckel": "kataloginformation.domain.kompletterande.meddelande.anvandarnamn_felaktigt_format",
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1610 },
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1613     "Text": "Bifall"
1614 },
1615 {
1616     "I18nNyckel": "kataloginformation.grunddatakategori.utbildningssatsning.beskrivning",
1617     "Text": "S\u00e4rskild \u00e5tg\u00e4rd f\u00f6r att anordna utbildning f\u00f6r ett utpekad \u00f6r
1618 },
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1623 {
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1637   "Text": "Utbildningskod"
1638 },
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1641   "Text": "Utbudsomg\u00e5ng: Hantera utbildningsversion f\u00f6r f\u00f6rslag i utbudsomg\u00e5ng"
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1649   "Text": "Emrex: Verifiera identitet och vidimera annan merit"
1650 },
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1665   "Text": "Utbildningsinformation: L\u00e5s kompletterande uppgifter fr\u00f6m andra l\u00e4ros\u00e5r"
1666 },
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1668   "I18nNyckel": "sg.visa.oavslutadekurser",
1669   "Text": "Sid inneh\u00e5ll: Visa oavslutade kurser"
1670 },
1671 {
1672   "I18nNyckel": "commons.domain.regel.ingar.i.grupp.utresande",
1673   "Text": "Ing\u00e5r i grupp: Utresande"
1674 },
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1689         "Text": "Anv\u00e4ndare"
1690     },
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1693         "Text": "Uppf\u00f6ljning: Skapa SCB-rapporter"
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1695     {
1696         "I18nNyckel": "commons.fel.grupp.saknar_innehall",
1697         "Text": "Saknar inneh\u00e5ll"
1698     },
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1701         "Text": "Studiedeltagande: L\u00e4gg till f\u00f6r\u00f6ntat deltagande p\u00e5 kurspaketeringst",
1702     },
1703     {
1704         "I18nNyckel": "commons.fel.detaljkod.emilvarde",
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1706     },
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1709         "Text": "Resultat: \u00c4ndra visning av resultatnotering n\u00e4r inneh\u00e5ll finns"
1710     },
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1713         "Text": "Avisering till studenter - Tillg\u00f6r\u00e4knande - meddelande"
1714     },
1715     {
1716         "I18nNyckel": "systemaktivitet.studiedeltagande.se_studenthistorik",
1717         "Text": "Studiedeltagande: L\u00e4sa \u00e4ndringslogg"
1718     },
1719     {
1720         "I18nNyckel": "systemaktivitet.utbildningsinformation.utbildningsmall.uppdatera.publicerad.lokal.",
1721         "Text": "Utbildningsinformation: \u00c4ndra publicerad lokal utbildningsmall - nationell r\u00e4t",
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1725         "Text": "Aff\u00f6rsregel"
1726     },
1727     {
1728         "I18nNyckel": "commons.domain.larosate.gron",
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1733     "Text": "Individuell studieplan: Kommentera individuell studieplan"
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1737     "Text": "Utbildningsinformation: S\u00e4tt status p\u00e5 utbildningstillf\u00e4lle till p\u00e5b\u00f6rjad",
1738 },
1739 {
1740     "I18nNyckel": "systemaktivitet.studiedeltagande.hantera.intygforvantatdeltagande.student",
1741     "Text": "Student-Studiedeltagande: H\u00e4mta eget intyg \u00f6ver f\u00f6r\u00f6rtat deltagande",
1742 },
1743 {
1744     "I18nNyckel": "systemaktivitet.arendestod.hantera.arenden.antagning.behorighetsvillkor.aterbud.vid",
1745     "Text": "Extintegration: Hantera \u00e4renden r\u00f6r\u00f6r antagning, beh\u00f6righetsvillkor och",
1746 },
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1748     "I18nNyckel": "systemaktivitet.resultat.attestera_resultat_efter_externt_beslut",
1749     "Text": "Resultat: Dokumentera beslut f\u00f6r resultat"
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1751 {
1752     "I18nNyckel": "commons.fel.detaljkod.markningstyp",
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1754 },
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1757     "Text": "\u00d6verliggande part"
1758 },
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1760     "I18nNyckel": "systemaktivitet.resultat.skapa_resultat_via_massinlaggning",
1761     "Text": "Resultat: Klistra in resultat via aktivitetstillf\u00e4lle"
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1763 {
1764     "I18nNyckel": "systemaktivitet.utbildningsinformation.informationsbehorighet.yh.utbildning",
1765     "Text": "Utbildningsinformation: Informationsbeh\u00f6righet - YH-Utbildning"
1766 },
1767 {
1768     "I18nNyckel": "kataloginformation.grunddatakategori.periodtypkategori.nationellt.definierad.och.l",
1769     "Text": "Nationellt definierad och lokalt fastst\u00e4lld period"
1770 },
1771 {
1772     "I18nNyckel": "systemaktivitet.studiedeltagande.lasa_studieval.student",
1773     "Text": "Student-Studiedeltagande: Studieval - endast l\u00e4sa"
1774 },
1775 {
1776     "I18nNyckel": "arendestod.notering.bilaga_borttagen",
1777     "Text": "Bilaga borttagen"
1778 },
1779 {
1780     "I18nNyckel": "avisering.student.bevakning.aktiverad",
1781     "Text": "Avisering till studenter - Bevakning - ISP"
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1784     "I18nNyckel": "commons.fel.detaljkod.svensk.ort",
1785     "Text": "Svensk ort"
1786 },
1787 {
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1789     "Text": "Utdata: Skapa adresslista f\u00f6r population"
1790 },
1791 {
1792     "I18nNyckel": "commons.fel.detaljkod.atkomstkontroll",
1793     "Text": "\u00c5tkomstkontroll"
1794 },
1795 {
1796     "I18nNyckel": "systemaktivitet.eduapi.core_readonly",
1797     "Text": "Eduapi: L\u00e4s eduapi-information"
1798 },
1799 {
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1801     "Text": "Konfiguration av auktorisering"
1802 },
1803 {
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1805     "Text": "F\u00f6ljande ID till aktivitet som kr\u00e4ver \u00e5terautentisering saknas: {0}."
1806 },
1807 {
1808     "I18nNyckel": "systemaktivitet.utbildningsinformation.hantera_litteraturpost",
1809     "Text": "Utbildningsinformation: Hantera litteraturpost"
1810 },
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1813     "Text": "Student-Intyg: Skapa nationellt resultatintyg"
1814 },
1815 {
1816     "I18nNyckel": "systemaktivitet.studiedeltagande.skapa_forvantat_deltagande_for_flera_studenter.frist",
1817     "Text": "Studiedeltagande: L\u00e4gg till f\u00f6rv\u00e4ntat deltagande p\u00e5 frist\u00e5ende"
1818 },
1819 {
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1821     "Text": "Studentinformation: Dokumentera avskiljandebeslut"
1822 },
1823 {
1824     "I18nNyckel": "kataloginformation.grunddatakategori.nivainomstudieordning.beskrivning",
1825     "Text": "Anger p\u00e5 vilken niv\u00e5 en utbildning ligger inom en viss studieordning."
1826 },
1827 {
1828     "I18nNyckel": "systemaktivitet.examen.hantera.bevisarende",
1829     "Text": "Bevis: Hantera bevis\u00e4rende"
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1832     "I18nNyckel": "commons.fel.detaljkod.signal",
1833     "Text": "Signal"
1834 },

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1837         "Text": "Dokumentkonfiguration"
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1842     },
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1845         "Text": "Utbytesstudier"
1846     },
1847     {
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1849         "Text": "Utdelningsadress"
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1851     {
1852         "I18nNyckel": "systemaktivitet.resultat.vidimera.merit",
1853         "Text": "Resultat: Vidimera annan merit"
1854     },
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1857         "Text": "Preciseringsgrupperingstyp"
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1885         "Text": "Kurskod"

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1889         "Text": "\u00c4rendest\u00f6d: L\u00e4sa information"
1890     },
1891     {
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1897         "Text": "Association saknas"
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1901         "Text": "Utbildningstyp"
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1913         "Text": "Till\u00e4t: Student f\u00f6r g\u00f6ra avbrott p\u00e5 kurs"
1914     },
1915     {
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1933         "Text": "Efternamn"
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1937     "Text": "Utbildningsinformation: Informationsbeh\u00f6righet - Alla utbildningstyper"
1938 },
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1941     "Text": "Utbudsomg\u00e5ng: Skapa utbud fr\u00e5n f\u00f6rslag"
1942 },
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1946 },
1947 {
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1950 },
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1954 },
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1961     "Text": "F\u00f6rnamn"
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1966 },
1967 {
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1969     "Text": "Klassifikation av kurs med avseende p\u00f6f\u00f6rkunskapskrav i \u00e4mnet, t.ex. 1-2"
1970 },
1971 {
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1973     "Text": "Studieavgifter: L\u00e5sa information"
1974 },
1975 {
1976     "I18nNyckel": "systemaktivitet.resultat.las.rapporteringsrattigheter",
1977     "Text": "Resultat: L\u00e5sa rapporteringsr\u00e4ttigheter"
1978 },
1979 {
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1981     "Text": "Regelv\u00e4rde"
1982 },
1983 {
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1985     "Text": "Studiedeltagande: Dokumentera avklarad kurspaketering"
1986 },
1987 {

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1988     "I18nNyckel": "systemaktivitet.utbildningsinformation.utbildning.registervard",
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1990 },
1991 {
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1993     "Text": "Autentiseringstyp"
1994 },
1995 {
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1997     "Text": "Studentinformation: Hantera identitetsuppgifter via LIS-adaptern"
1998 },
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2001     "Text": "Processt\u00f6d: Starta process"
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2003 {
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2005     "Text": "Resultat: L\u00e5sa betygsf\u00f6rdelning per aktivitetstillf\u00e5lle"
2006 },
2007 {
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2009     "Text": "Utbudsomg\u00e5ng: Hantera kurspaketeringstillf\u00e5lle i utbudsomg\u00e5ng"
2010 },
2011 {
2012     "I18nNyckel": "kataloginformation.grunddatakategori.studielokalisering.beskrivning",
2013     "Text": "En plats d\u00f6r ett l\u00e5ros\u00e5te erbjuder utbildning. Anv\u00e4nds om ett l\u00e5re
2014 },
2015 {
2016     "I18nNyckel": "systemaktivitet.bevakning.hantera_egna_personliga_bevakningar",
2017     "Text": "Bevakning: Hantera egna personliga bevakningar"
2018 },
2019 {
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2022 },
2023 {
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2025     "Text": "Processt\u00f6d: L\u00e5sa information"
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2043     {
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2045         "Text": "Anv\u00e4ndarstatus"
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2049         "Text": "Utbildningsform"
2050     },
2051     {
2052         "I18nNyckel": "studentarende.undantag.anteckning",
2053         "Text": "Denna anteckning kopplas till beslutet och visas f\u00f6r studenten i Ladok f\u00f6r stu
2054     },
2055     {
2056         "I18nNyckel": "commons.domain.regel.kan.utannonseras",
2057         "Text": "Kan annonseras"
2058     },
2059     {
2060         "I18nNyckel": "systemaktivitet.avgiftshantering.andra_betalningsreferens_belopp_omfattning",
2061         "Text": "Studieavgifter: \u00c4ndra betalningsreferens, studieavgift och omfattning (kompletteran
2062     },
2063     {
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2065         "Text": "Utbildningssamarbete som administreras p\u00e5 lokal niv\u00e5 ska ej ange \"gemensam ex
2066     },
2067     {
2068         "I18nNyckel": "kataloginformation.grunddatakategori.utbildningssamarbete.regel.b",
2069         "Text": "Utbildningssamarbete som administreras p\u00e5 lokal niv\u00e5 ska ej ange \"administrer
2070     },
2071     {
2072         "I18nNyckel": "kataloginformation.grunddatakategori.utbildningssamarbete.regel.a",
2073         "Text": "Utbildningssamarbete som administreras p\u00e5 lokal niv\u00e5 kan endast anv\u00e4nda d
2074     },
2075     {
2076         "I18nNyckel": "kataloginformation.grunddatakategori.nationellmallforperiod.beskrivning",
2077         "Text": "F\u00f6rdefinierat tidsspann som kan anv\u00e4ndas som underlag f\u00f6r att skapa perio
2078     },
2079     {
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2081         "Text": "Individuell studieplan: L\u00e5sa information"
2082     },
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2097         "Text": "Sid inneh\u0051l: Visa kommande kurser"
2098     },
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2103     {
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2106     },
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2133         "Text": "De m\u00f6jligheter som st\u00e5r till buds f\u00f6r en student att f\u00f6rs\u00f6ra s\u00e4 sig"
2134     },
2135     {
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2141     "Text": "Intyg: Skapa resultatintyg"
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2145     "Text": "L\u00e5sbara objekt: L\u00e5sa upp l\u00e5sta objekt"
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2148     "I18nNyckel": "commons.fel.detaljkod.spara",
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2153     "Text": "Enskilda H\u00f6gskolan Stockholm"
2154 },
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2158 },
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2163 {
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2165     "Text": "Studentinformation: L\u00e5sa studentuppgifter"
2166 },
2167 {
2168     "I18nNyckel": "systemaktivitet.studentinformation.hantera_alternativa_inloggningsmetoder",
2169     "Text": "Studentinformation: Hantera alternativa inloggningsmetoder"
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2184     "I18nNyckel": "systemaktivitet.isp.ateraktivera_isp",
2185     "Text": "Individuell studieplan: \u00c5teraktivera individuell studieplan"
2186 },
2187 {
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2194 },
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2199 {
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2206 },
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2210 },
2211 {
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2214 },
2215 {
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2218 },
2219 {
2220     "I18nNyckel": "systemaktivitet.resultat.rapportera_resultat",
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2223 {
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2225     "Text": "Student-Studiedeltagande: Ta bort val och anm\u00e4lan till utbildning"
2226 },
2227 {
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2229     "Text": "Uppf\u00f6ljning: Visa i meny"
2230 },
2231 {
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2233     "Text": "Resultat: L\u00e4gg in annan merit"
2234 },
2235 {
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2237     "Text": "Gemensam Ladokf\u00f6rvaltning"
2238 },
2239 {
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2242 },

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2246     },
2247     {
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2249         "Text": "Studiedeltagande: Registrering samt studieval - till\u00e5t registrering, omregistrering
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2251     {
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2253         "Text": "Felaktigt data"
2254     },
2255     {
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2258     },
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2262     },
2263     {
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2265         "Text": "Ing\u00e5r i grupp: Inresande"
2266     },
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2269         "Text": "Anm\u00e4lan"
2270     },
2271     {
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2273         "Text": "Utbudsg\u00e5ng: Hantera flera studieperioder f\u00f6r f\u00f6rslag"
2274     },
2275     {
2276         "I18nNyckel": "systemaktivitet.utbildningsinformation.informationsbehorighet.uppdragutbildning",
2277         "Text": "Utbildningsinformation: Informationsbeh\u00f6righet - Uppdragsutbildning"
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2279     {
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2281         "Text": "Tidsgr\u00e4ns"
2282     },
2283     {
2284         "I18nNyckel": "dokumenthantering.fel.detaljkod.sokvag.till.pdf",
2285         "Text": "S\u00f6kv\u00e4g till pdf"
2286     },
2287     {
2288         "I18nNyckel": "systemaktivitet.studiedeltagande.administrera.aktorer",
2289         "Text": "Studiedeltagande: Hantera akt\u00f6rer"
2290     },
2291     {
2292         "I18nNyckel": "systemaktivitet.utbildningsinformation.ta.bort.kurspaketeringstillfalle.i.status.p
2293         "Text": "Utbildningsinformation: Ta bort kurspaketeringstillf\u00e4lle i status p\u00e5 b\u00f6rja

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2305         "Text": "Bevis: Hantera tillf\u00e4llig namn\u00e4ndring f\u00f6r bevis"
2306     },
2307     {
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2309         "Text": "F\u00f6ljande ID till tillitsniv\u00e5 f\u00f6r autentisering saknas: {0}."
2310     },
2311     {
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2313         "Text": "Kurspaketeringstillfalle"
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2317         "Text": "Intyg: Skapa nationellt resultatintyg"
2318     },
2319     {
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2321         "Text": "Individuell studieplan: Hantera flera - \u00c4ndra datum"
2322     },
2323     {
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2329         "Text": "Status"
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2334     },
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2355   {
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2357     "Text": "Student-Intyg: Visa skapade intyg"
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2359   {
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2361     "Text": "Akademi f\u00f6r Ledarskap och Teologi"
2362   },
2363   {
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2365     "Text": "Pedagogiskt st\u00f6d: Hantera inst\u00e4llningar"
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2371   {
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2377     "Text": "G\u00f6teborgs universitet"
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2379   {
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2381     "Text": "Till\u00e5t: Student f\u00e5r l\u00e4mna \u00e5terbud p\u00e5 paketering"
2382   },
2383   {
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2413     "Text": "H\u00f6gskolan i J\u00f6nk\u00f6ping"
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2415 {
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2437     "Text": "Komponent"
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2444     "I18nNyckel": "systemaktivitet.resultat.pagaende.rapportering.avisera",
2445     "Text": "Resultat: Avisera resultat p\u00e5 nytt"
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2452   "I18nNyckel": "kataloginformation.domain.kompletterande.meddelande.anvandare_hittas_ej",
2453   "Text": "Anv\u00e4ndare hittas inte."
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2456   "I18nNyckel": "systemaktivitet.extintegration.lokal_administration",
2457   "Text": "Extern integration: L\u00e5s EMIL-h\u00e4ndelser - lokal r\u00e4ttighetsniv\u00e5"
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2459 {
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2462 },
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2474 },
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2477   "Text": "Ing\u00e5r i grupp: Inriktning"
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2481   "Text": "Synkron koppling mot studentregistret"
2482 },
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2489   "Text": "YH-po\u00e4ng"
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2493   "Text": "Bilaga bifogad"
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2496   "I18nNyckel": "systemaktivitet.emrex.student.lasa",
2497   "Text": "Student-Emrex: L\u00e5s information"
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2505         "Text": "Po\u00e4ng"
2506     },
2507     {
2508         "I18nNyckel": "systemaktivitet.utbildningsinformation.makulera_plan_for_utbildning",
2509         "Text": "Utbildningsinformation: Makulera plan f\u00f6r utbildning"
2510     },
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2512         "I18nNyckel": "commons.fel.grupp.objektet_ar_last",
2513         "Text": "Objektet \u00e4r l\u00e4st"
2514     },
2515     {
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2517         "Text": "\u00c4rendest\u00f6d: Hantera nationellt \u00c4rend"
2518     },
2519     {
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2522     },
2523     {
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2529         "Text": "\u00c4ndringsloggtyp"
2530     },
2531     {
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2533         "Text": "Beh\u00f6righet att utf\u00f6ra operation saknas"
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2541         "Text": "Utbildningsinstans"
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2549     "Text": "Understatus"
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2556     "I18nNyckel": "systemaktivitet.kataloginformation.administrera_aterautentisering",
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2562 },
2563 {
2564     "I18nNyckel": "systemaktivitet.kataloginformation.behorighet.anvandare.las",
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2566 },
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2568     "I18nNyckel": "systemaktivitet.studiedeltagande.las.aterbudsarende",
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2589     "Text": "Feed"
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2594 },
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2597     "Text": "Bevis: Attestera f\u00f6r utf\u00e4rdande av bevis"
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2606 },
2607 {
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2612     "I18nNyckel": "systemaktivitet.kataloginformation.grunddata.administrera.finansieringsformsgrupp",
2613     "Text": "Kataloginformation: Hantera finansieringsformsgrupp"
2614 },
2615 {
2616     "I18nNyckel": "kataloginformation.grupp.for.utsokning.forutbildning",
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2618 },
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2622 },
2623 {
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2626 },
2627 {
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2630 },
2631 {
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2643 {
2644     "I18nNyckel": "systemaktivitet.utbildningsinformation.hantera_litteraturlista.strukturerade_poster",
2645     "Text": "Utbildningsinformation: Hantera strukturerad litteraturlista"
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2647 {
2648     "I18nNyckel": "aredestod.fel.detaljkod.arendetyp",
2649     "Text": "\u00e4rendetyp"
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2658     },
2659     {
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2661         "Text": "Utbildningsinformation: Informationsbeh\u00f6righet - Polisutbildning",
2662     },
2663     {
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2665         "Text": "\u00c4mnesklass",
2666     },
2667     {
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2669         "Text": "Studiedeltagande: L\u00e4gg till f\u00f6rv\u00e4ntat deltagande p\u00e5 kurstillf\u00e4lle",
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2671     {
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2674     },
2675     {
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2678     },
2679     {
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2685         "Text": "Pedagogiskt st\u00f6d: Besluta om ans\u00f6kan",
2686     },
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2689         "Text": "Resultat: Till\u00e5t annan merit i examen",
2690     },
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2693         "Text": "Datalagring valideringsfel",
2694     },
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2697         "Text": "Utresandetillf\u00e4lle",
2698     },
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2701         "Text": "Underlag \u00e4ndrat efter klarmarkering"

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2709         "Text": "Kataloginformation beh\u00f6righetsadministration: Allt - fullst\u00e4ndig lokal beh\u00f6righet"
2710     },
2711     {
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2713         "Text": "Orsak till avst\u00e4ngning"
2714     },
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2717         "Text": "Postnummer"
2718     },
2719     {
2720         "I18nNyckel": "systemaktivitet.extintegration.skapa.intygforvantatdeltagande.student",
2721         "Text": "Student-Intyg: Skapa intyg \u00f6ver f\u00f6rv\u00e4ntat deltagande"
2722     },
2723     {
2724         "I18nNyckel": "kataloginformation.grunddatakategori.utbytesprogram.beskrivning",
2725         "Text": "Samordnat internationellt utbyte f\u00f6r studenter mellan l\u00e4ros\u00e5ten som regleras av utbytesprogrammet"
2726     },
2727     {
2728         "I18nNyckel": "kataloginformation.grunddatakategori.orsakejavgiftsskyldig.beskrivning",
2729         "Text": "Anger de orsaker som kan f\u00f6ranleda att en student inte \u00e4r avgiftsskyldig."
2730     },
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2733         "Text": "Beslut"
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3173     "Text": "Uppsala universitet"
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3237     "Text": "Allm\u00e4n skapa meddelande i \u00e4rende"
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3253     "Text": "Av SCB utarbetad gruppering av kurser. Anv\u00e4nds f\u00f6r statistiska \u00e4ndam\u00e5l
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3301         "Text": "Menyval: Mina uppgifter"
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3307     {
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3313         "Text": "Felaktig summa"
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3333         "Text": "Studiedeltagande: \u0044ndra placering i studieplan f\u00f6r kopierad registrering oavse
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3337         "Text": "Webbadress"
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3343     {
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3345         "Text": "Studentinformation: Hantera interimspersonnummer"
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3363     {
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3429     "Text": "Studiedeltagande: L\u00e4gg till beh\u00f6righetsvillkor"
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3445     "Text": "Utbildningsinformation: Hantera flera tillf\u00e4llen - Utannonsera"
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3473   "Text": "Extern integration: L\u00e4sa information"
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3529         "Text": "Studielokalisering"
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3537         "Text": "Studiedeltagande: L\u00e4gg till f\u00f6rv\u00e4ntat deltagande p\u00e5 kurstillf\u00f6r"
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3543     {
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3549         "Text": "Studieavgifter: Utvecklarst\u00f6d"
3550     },
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3553         "Text": "Studiedeltagande: Dokumentera avbrott p\u00e5 kurspaketering"
3554     },
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3557         "Text": "Avisering till studenter - Resultat"
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3566     },
3567     {
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3569     "Text": "Student-Studiedeltagande: Studieavgiftsbetalning - endast 1\u00e4sa"
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3573     "Text": "Systemaktiviteter f\u00e5r inte vara null."
3574 },
3575 {
3576     "I18nNyckel": "systemaktivitet.resultat.administrera.ingaendemoduler",
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3578 },
3579 {
3580     "I18nNyckel": "systemaktivitet.sok.administrera",
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3582 },
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3585     "Text": "Notering"
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3587 {
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3589     "Text": "Periodtyp saknas."
3590 },
3591 {
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3593     "Text": "H\u00f6gskolepo\u00e4ng (f\u00f6rutbildning)"
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3602 },
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3604     "I18nNyckel": "systemaktivitet.utbildningsinformation.utbildningstillfalle.redigera",
3605     "Text": "Utbildningsinformation: Redigera utbildningstillf\u00e4lle"
3606 },
3607 {
3608     "I18nNyckel": "commons.domain.regel.grupp.for.utsokning",
3609     "Text": "Grupp f\u00f6r uts\u00f6kning"
3610 },
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3613     "Text": "Menyval: Examinationstillf\u00e4llen"
3614 },
3615 {
3616     "I18nNyckel": "kataloginformation.grunddatakategori.kommun",
3617     "Text": "Kommun"
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3622 },
3623 {
3624     "I18nNyckel": "commons.domain.regel.informationsbehorighet.yh.utbildning",
3625     "Text": "Ing\u00e5r i grupp: Informationsbeh\u00f6righet - YH-Utbildning"
3626 },
3627 {
3628     "I18nNyckel": "kataloginformation.grunddatakategori.konfiguration_av_autentisering.beskrivning",
3629     "Text": "Definierar vilken tillitsniv\u00e5 som skall g\u00e4lla f\u00f6r en viss funktion."
3630 },
3631 {
3632     "I18nNyckel": "systemaktivitet.studiedeltagande.andra_studieavgiftsbetalning_andra_anmalningsavgift",
3633     "Text": "Studiedeltagande: Hantera anm\u00e4lnings- och studieavgiftsbetalning per kurstillf\u00f6relse"
3634 },
3635 {
3636     "I18nNyckel": "commons.fel.kategori.applikationsfel",
3637     "Text": "Generellt fel i applikationen"
3638 },
3639 {
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3641     "Text": "Tillgodor\u00e4knande: Attestera tillgodor\u00e4knande, del av kurs"
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3643 {
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3646 },
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3649     "Text": "Processakt\u00f6r"
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4119     {
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4135     {
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4147     {
4148         "I18nNyckel": "systemaktivitet.resultat.forbered_andring_av_attesterat_resultat",
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4153         "Text": "Bevis: Dokumentera tidigare utf\u00e4rdade bevis"
4154     },
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4162     },
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4165         "Text": "Bevis: L\u00e4sa utf\u00e4rdade bevis"
4166     },
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4169         "Text": "Logotyp"
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4173         "Text": "Studiedeltagande: L\u00e4sa kursresultat f\u00f6r deltagare p\u00e5 kurspaketering"
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4177         "Text": "Samverkan om utbildning avseende tv\u00e5 eller flera kurspaketeringar inom ett l\u00e4r
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4189     "Text": "Flera f\u00f6rdelningsfilter tillh\u00f6rande olika \u00e4rendekorgar matchar \u00e4rend
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4192     "I18nNyckel": "systemaktivitet.uppfoljning.students.progress.inom.kurspaketering",
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4194 },
4195 {
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4197     "Text": "Menyval: Ans\u00f6k om examensbevis"
4198 },
4199 {
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4201     "Text": "Av l\u00e5ros\u00e4tet best\u00e4mt attribut som kan anv\u00e4ndas p\u00e5 utbildning, u
4202 },
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4204     "I18nNyckel": "commons.domain.larosate.skh",
4205     "Text": "Stockholms konstn\u00e4rliga h\u00f6gskola"
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4211 {
4212     "I18nNyckel": "kataloginformation.grunddatakategori.undervisningsform.beskrivning",
4213     "Text": "Den form som l\u00e5ros\u00e4tet tillhandah\u00e5ller utbildningen i vid ett visst utbil
4214 },
4215 {
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4217     "Text": "Studieavgifter: Hantera undantag (kompletterande)"
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4225     "Text": "Student-\u00e4rendest\u00f6d: Hantera kommunikation"
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4229     "Text": "F\u00f6rvald omfattning"
4230 },
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4242 },
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4245     "Text": "Kataloginformation beh\u00f6righetsadministration: Anv\u00e4ndarbeh\u00f6righet - aktivera"
4246 },
4247 {
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4249     "Text": "Student-Pedagogiskt st\u00f6d: Ans\u00f6ka om st\u00f6d"
4250 },
4251 {
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4253     "Text": "Studiedeltagande: F\u00f6rbered tillf\u00e4llesbyte med m\u00f6jlighet att \u00e4ndra pe"
4254 },
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4262 },
4263 {
4264     "I18nNyckel": "systemaktivitet.extintegration.skapa.intygforvantatdeltagande",
4265     "Text": "Intyg: Skapa intyg \u00f6ver f\u00f6rv\u00e4ntat deltagande"
4266 },
4267 {
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4269     "Text": "Felaktigt v\u00e4rde"
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4271 {
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4277     "Text": "Unik identifierare"
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4279 {
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4293         "Text": "Utbildningsinformation: Hantera beslutsinformation f\u00f6r plan"
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4297         "Text": "Student-Bevakning: L\u00e5s bevakningar"
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4301         "Text": "API: Lista studenter med skyddade folkbokf\u00f6ringsuppgifter vid eget l\u00e5s\u00e5s"
4302     },
4303     {
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4305         "Text": "Bevis: Ta bort notering i bevis\u00e4rende"
4306     },
4307     {
4308         "I18nNyckel": "systemaktivitet.utbildningsinformation.andra_utbudsomgang",
4309         "Text": "Utbudsomg\u00e5ng: Hantera utbudsomg\u00e5ng"
4310     },
4311     {
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4313         "Text": "Av SCB utarbetad gruppering av examina. Anv\u00e4nds f\u00f6r statistiska \u00e4ndam\u00e4l"
4314     },
4315     {
4316         "I18nNyckel": "systemaktivitet.studiedeltagande.lasa_individuella_ataganden.student",
4317         "Text": "Student-Studiedeltagande: Individuellt \u00e5tagande - endast l\u00e5s"
4318     },
4319     {
4320         "I18nNyckel": "systemaktivitet.studiedeltagande.skapa.individuell.studieplan",
4321         "Text": "Studiedeltagande: Skapa individuell studieplan"
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4325         "Text": "Ing\u00e5ende part"
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4342     },
4343     {
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4345         "Text": "Common: Internt anrop f\u00f6r inloggning"
4346     },
4347     {
4348         "I18nNyckel": "systemaktivitet.extintegration.sssb_administration",
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4384         "I18nNyckel": "commons.fel.detaljkod.belopp",

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4393     "Text": "Land"
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4397     "Text": "Valregel"
4398   },
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4401     "Text": "Sista annonseringsdag"
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4404     "I18nNyckel": "systemaktivitet.utbildningsinformation.publicera_oversattning_for_plan",
4405     "Text": "Utbildningsinformation: Publicera \u00f6vers\u00f6ttning f\u00f6r plan f\u00f6r utbildni
4406   },
4407   {
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4409     "Text": "Uppf\u00f6ljning: Exportera rapportunderlag"
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4413     "Text": "Studiedeltagande: Importera kursantagningar"
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4429     "Text": "Enbart l\u00e5s\u00e5ttigheter"
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4433     "Text": "Blekinge tekniska h\u00f6gskola"
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4445     "Text": "Karlstads universitet"
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4449     "Text": "Avisering till handl\u00e4ggare"
4450 },
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4457     "Text": "Nationell examensgrupp"
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4461     "Text": "Dokumenttyp"
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4463 {
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4469     "Text": "\u00d6rig utbildning"
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4471 {
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4473     "Text": "Ej tillg\u00e4nglig funktionalitet"
4474 },
4475 {
4476     "I18nNyckel": "systemaktivitet.kataloginformationbehorighet.agera.ombud.for.anvandare",
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4478 },
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4483 {
4484     "I18nNyckel": "systemaktivitet.arendestod.ta.bort.notering.tillagd.av.annan.anvandare",
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4486 },
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4489         "Text": "Anger den niv\u00e5 inom en studieordning som en kurspaketering p\u00e5b\u00f6rjas f\u00f6r",
4490     },
4491     {
4492         "I18nNyckel": "kataloginformation.fel.detaljkod.nivainomstudieordning",
4493         "Text": "Niv\u00e5 inom studieordning"
4494     },
4495     {
4496         "I18nNyckel": "systemaktivitet.resultat.lasa.tillgodo_ansokan",
4497         "Text": "Student-Resultat: L\u00e4s tillgodor\u00f6knandeans\u00f6kan"
4498     },
4499     {
4500         "I18nNyckel": "systemaktivitet.studiedeltagande.skapa_forvantat_deltagande_for_flera_studenter.in",
4501         "Text": "Studiedeltagande: L\u00e4gg till f\u00f6rv\u00e4ntat deltagande p\u00e5 kurspaketeringst",
4502     },
4503     {
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4505         "Text": "F\u00f6rutbildning"
4506     },
4507     {
4508         "I18nNyckel": "kataloginformation.grunddatakategori.undervisningssprak.beskrivning",
4509         "Text": "Det spr\u00e5k som huvudsakligen anv\u00e4nds i undervisningen inom ett utbildningstillf\u00e4lle",
4510     },
4511     {
4512         "I18nNyckel": "systemaktivitet.common.internt.anrop.for.hamta.student",
4513         "Text": "Common: Internt anrop f\u00f6r h\u00f6mta student"
4514     },
4515     {
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4517         "Text": "Utbildningsinformation: Besluta litteraturlista"
4518     },
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4521         "Text": "Org.kod"
4522     },
4523     {
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4525         "Text": "Ing\u00e5r i grupp: \u00d6verf\u00f6rs till NyA endast som merit"
4526     },
4527     {
4528         "I18nNyckel": "commons.domain.regel.informationsbehorighet.forskarutbildning",
4529         "Text": "Ing\u00e5r i grupp: Informationsbeh\u00f6righet - Forskarniv\u00e5"
4530     },
4531     {
4532         "I18nNyckel": "commons.fel.detaljkod.antagningsforfarande",
4533         "Text": "Antagningsf\u00f6rf\u00e5ring"
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4535     {
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4541         "Text": "Tillgodor\u00e4knande: L\u00e4sa information"
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4545         "Text": "Krav p\u00e5 modul f\u00f6r status komplett"
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4549         "Text": "En meritv\u00e4rderingsmodell styr under vilka f\u00f6ruts\u00e4ttningar och enligt vilka"
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4581         "Text": "Spara nationellt undervisnings\u00e4mne"
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4584         "I18nNyckel": "systemfunktion.id.10083",
4585         "Text": "Spara studieordning p\u00e5 nationell niv\u00e5"
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4588         "I18nNyckel": "systemfunktion.id.10084",
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4609     "Text": "Utan anm\u00e4lan"
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4613     "Text": "-"
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4617     "Text": "Spara huvudomr\u00e4desgrupp p\u00e5 nationell niv\u00e5"
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4625     "Text": "Visa lokala texter"
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4635 {
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4637     "Text": "Spara beviskategori p\u00e5 nationell niv\u00e5"
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4639 {
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4649     "Text": "Spara tj\u00e4nstekonfiguration p\u00e5 nationell niv\u00e5"
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4664     "I18nNyckel": "systemfunktion.id.10097",
4665     "Text": "Spara \u00e4mnesord p\u00e5 nationell niv\u00e5"
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4674 },
4675 {
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4688     "I18nNyckel": "kataloginformation.grunddatakategori.land.beskrivning",
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4690 },
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4695 {
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4698 },
4699 {
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4701   "Text": "Resultat: R\u00e4tta titel i resultat - skapa \u00e4rende"
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4712   "I18nNyckel": "arendestod.fel.detaljkod.skapa",
4713   "Text": "Skapa"
4714 },
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4717   "Text": "Studiedeltagande: Ta bort flera f\u00f6rv\u00e4ntade deltaganden p\u00e5 kurstillf\u00e4lle"
4718 },
4719 {
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4721   "Text": "Studentinformation: Hantera Ersatt identitet-\u00e4rende"
4722 },
4723 {
4724   "I18nNyckel": "kataloginformation.grunddatakategori.orsakavstangning.beskrivning",
4725   "Text": "Anger vilka fall av avst\u00e4ngningsbeslut som kan dokumenteras i Ladok."
4726 },
4727 {
4728   "I18nNyckel": "kataloginformation.grunddatakategori.undervisningstid.beskrivning",
4729   "Text": "Tid p\u00e5 dygnet, alternativt dagar under veckan, d\u00e5 undervisning huvudsakligen s
4730 },
4731 {
4732   "I18nNyckel": "commons.fel.detaljkod.referens_uid",
4733   "Text": "Referens"
4734 },
4735 {
4736   "I18nNyckel": "kataloginformation.domain.kompletterande.meddelande.organisation_hittas_ej_referen",
4737   "Text": "Hittade ej en organisation (UID: {0}) som refereras fr\u00f6m en beh\u00f6righetsprofil
4738 },
4739 {
4740   "I18nNyckel": "systemaktivitet.utbildningsinformation.skapa.individuellt.utbildningstillfalle",
4741   "Text": "Utbildningsinformation: Skapa individuellt utbildningstillf\u00e4lle"

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4746     },
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4749         "Text": "K\u00f6n"
4750     },
4751     {
4752         "I18nNyckel": "systemaktivitet.studiedeltagande.lagg_till_forvantat_deltagande_pa_fristaende_kurs",
4753         "Text": "Studiedeltagande: L\u00e4gg till f\u00f6r\u00f6ntat deltagande p\u00e5 frist\u00e4ndekurs"
4754     },
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4757         "Text": "Intyg: Visa skapade intyg"
4758     },
4759     {
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4761         "Text": "Av SCB och UK\u00c4 (HSV) utarbetad gruppering av huvudomr\u00e5den med utg\u00e5ngspunkter"
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4769         "Text": "Till\u00e4t: Student f\u00f6r registrera p\u00e5 kurs"
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4809     "Text": "Beh\u00f6righetshantering: Hantera beh\u00f6righetsprofiler - lokal r\u00e4ttighetsniv\u00e5"
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4822 },
4823 {
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4826 },
4827 {
4828     "I18nNyckel": "commons.domain.larosate.kmh",
4829     "Text": "Kungl. Musikh\u00f6gskolan i Stockholm"
4830 },
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4834 },
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4839 {
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4841     "Text": "Utbildningsinformation: \u00c4ndra publicerad lokal utbildningsmall - lokal r\u00e4ttighetsniv\u00e5"
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4866 },
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4870 },
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4874 },
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4882 },
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4889     "Text": "\u00d6rebro universitet",
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4909         "Text": "Utbildningsinformation: Ta bort utbildning i status utkast"
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4914     },
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4918     },
4919     {
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4921         "Text": "Registreringsperiod"
4922     },
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4929         "Text": "Obligatorisk"
4930     },
4931     {
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4933         "Text": "Individuell studieplan: Skapa individuell studieplan"
4934     },
4935     {
4936         "I18nNyckel": "commons.kompletterande.meddelande.testa_monster_pa_nyckel",
4937         "Text": "Testa m\u00f6nster f\u00f6r i18n-nyckel. var 1: {0}, var 2: {1}."
4938     },
4939     {
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4957         "Text": "Systemaktivitet"
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4961         "Text": "Telefonnummer"
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4963     {
4964         "I18nNyckel": "systemaktivitet.resultat.aktivitetstillfalle_ta_bort",
4965         "Text": "Resultat: Ta bort aktivitetstillf\u00e4lle"
4966     },
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4969         "Text": "Utbildningsinformation: S\u00f6tt status p\u00f5 utbildningstillf\u00e4lle till komplett"
4970     },
4971     {
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4974     },
4975     {
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4977         "Text": "Inriktning"
4978     },
4979     {
4980         "I18nNyckel": "sg.visa.avslutadekurser",
4981         "Text": "Menyval: Avslutad utbildning"
4982     },
4983     {
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4986     },
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4989         "Text": "Personnummer"
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4991     {
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5006   },
5007   {
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5009     "Text": "S\u00f6k\u00e4g till mall"
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5025     "Text": "Filhantering"
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5029     "Text": "Sid inneh\u00e5ll: Visa tillgodor\u00e4knade delar"
5030   },
5031   {
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5034   },
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5037     "Text": "Finansieringsformer"
5038   },
5039   {
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5045     "Text": "Tillgodor\u00e4knande: Bereda tillgodor\u00e4knande f\u00f6r hel kurs inkl. klarmarkera"
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5059 {
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5062 },
5063 {
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5065     "Text": "Utbildningsinformation: Informationsbeh\u00f6righet - Grund och avancerad niv\u00e5"
5066 },
5067 {
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5070 },
5071 {
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5074 },
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5078 },
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5083 {
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5089     "Text": "Studiefinansiering"
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5094 },
5095 {
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5102     },
5103     {
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5105       "Text": "Menyval: Min utbildning"
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5129       "Text": "Resultat: Ta bort klarmarkering f\u00f6r resultat"
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5147     {
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5157         "Text": "L\u00e4nk"
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5165         "Text": "Student-Emrex: Exportera meriter"
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5170     },
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5173         "Text": "Processt\u00f6d: L\u00e4s processinformation"
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5178     },
5179     {
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5181         "Text": "Resultat: Attestera f\u00f6rberedda \u004ndringar av attesterade resultat"
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5185         "Text": "Katalogidentifierare"
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5210 },
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5214 },
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5225     "Text": "Uppf\u00f6ljning: Ta bort andras uts\u00f6kningar"
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5229     "Text": "Utbildningsinformation: Redigera attributv\u00e4rden i plan"
5230 },
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5234 },
5235 {
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5257     "Text": "Bevis: Hantera resultat p\u00e5 modul i bevis"
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5262 },
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5265     "Text": "Resultat: Kopiera resultat"
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5269     "Text": "Utbildningsinformation: Hantera \u00f6verlappningar"
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5275 {
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5295 {
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5298 },
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5309         "Text": "Spara Utbildningssamarbete p\u00e5 nationell niv\u00e5"
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5311     {
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5313         "Text": "Student-Studiedeltagande: Avbrott - dokumentera avbrott"
5314     },
5315     {
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5317         "Text": "Gr\u00e4nsv\u00e4rde"
5318     },
5319     {
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5325         "Text": "Resultat: Publicera aktivitetstillf\u00e4lle"
5326     },
5327     {
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5329         "Text": "Bilaga borttagen"
5330     },
5331     {
5332         "I18nNyckel": "kataloginformation.grunddatakategori.successivfordjupning.beskrivning",
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5334     },
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5337         "Text": "Processuppgiftskonfiguration"
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5339     {
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5341         "Text": "\u00c4rendets understatus"
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5343     {
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5345         "Text": "Student-Studiedeltagande: Registrera"
5346     },
5347     {
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5349         "Text": "R\u00e4ttighetsniv\u00e5: {0} f\u00e5r inte redigeras."
5350     },
5351     {
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5353         "Text": "Uppf\u00f6ljning: L\u00e5s Information"

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5354     },
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5357         "Text": "Till\u00e5t: Student f\u00e5r g\u00f6ra studieval"
5358     },
5359     {
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5361         "Text": "Skyddade personuppgifter"
5362     },
5363     {
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5365         "Text": "Krav p\u00e5 s\u00e4rskild beh\u00f6righet till h\u00f6gskoleutbildningar som p\u00e5b\u00f6rjats i utlandet"
5366     },
5367     {
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5369         "Text": "Extintegration: CSN l\u00e4saktivitet"
5370     },
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5373         "Text": "Utbildningsgrundtyp"
5374     },
5375     {
5376         "I18nNyckel": "systemaktivitet.utbildningsinformation.utbildningstillfalle.tillavvecklad",
5377         "Text": "Utbildningsinformation: St\u00f6t i utbildningstillf\u00e4lle"
5378     },
5379     {
5380         "I18nNyckel": "systemaktivitet.utbildningsinformation.informationsbehorighet.forskarutbildning",
5381         "Text": "Utbildningsinformation: Informationsbeh\u00f6righet - Forskarniv\u00e5"
5382     },
5383     {
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5385         "Text": "Lokal v\u00e4rde"
5386     },
5387     {
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5389         "Text": "Inkonsistent"
5390     },
5391     {
5392         "I18nNyckel": "systemaktivitet.resultat.masshantera_organisationstillhorighet_pa_resultatrattigheter",
5393         "Text": "Resultat: Register\u00e5rda medarbetare\u00e4ttigheter"
5394     },
5395     {
5396         "I18nNyckel": "systemaktivitet.studiedeltagande.ta_bort_registrering",
5397         "Text": "Studiedeltagande: Ta bort registrering"
5398     },
5399     {
5400         "I18nNyckel": "commons.domain.regel.avbrottsregel",
5401         "Text": "Tidigt avbrott inom dagar"
5402     },
5403     {
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5405     "Text": "Kategorisering av organisationsenhet som m\u00f6jligg\u00f6r strukturerade s\u00f6kninga
5406 },
5407 {
5408     "I18nNyckel": "systemaktivitet.utbildningsinformation.utbildning.tillavvecklad",
5409     "Text": "Utbildningsinformation: Avveckla utbildning"
5410 },
5411 {
5412     "I18nNyckel": "systemaktivitet.studentinformation.hantera_alternativa_inloggningsmetoder.student",
5413     "Text": "Student-Studentinformation: Hantera alternativa inloggningsmetoder"
5414 },
5415 {
5416     "I18nNyckel": "commons.fel.detaljkod.helarsvarde",
5417     "Text": "Hel\u00e5rsv\u00e4rde"
5418 },
5419 {
5420     "I18nNyckel": "commons.domain.datadimension",
5421     "Text": "Informationskategori"
5422 },
5423 {
5424     "I18nNyckel": "sw.alumn.menyval.intyg",
5425     "Text": "Menyval: Intyg"
5426 },
5427 {
5428     "I18nNyckel": "systemfunktion.id.20214",
5429     "Text": "L\u00e5s bevis\u00f6rde f\u00f6r student"
5430 },
5431 {
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5433     "Text": "Studiedeltagande: Skapa f\u00f6rv\u00e4ntat deltagande f\u00f6r flera studenter"
5434 },
5435 {
5436     "I18nNyckel": "commons.fel.detaljkod.medarbetare",
5437     "Text": "Medarbetare"
5438 },
5439 {
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5442 },
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5837     "Text": "Link\u00f6ps universitet"
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5890 },
5891 {
5892     "I18nNyckel": "kataloginformation.grunddatakategori.amnesgrupp",
5893     "Text": "\u00c4mnesgrupp"
5894 },
5895 {
5896     "I18nNyckel": "commons.domain.regel.informationsbehorighet.polisutbildning",
5897     "Text": "Ing\u00e5r i grupp: Informationsbeh\u00f6righet - Polisutbildning"
5898 },
5899 {
5900     "I18nNyckel": "dokumenthantering.fel.detalj kod.dokumentmall_parameter_nyckel",
5901     "Text": "Parameternyckel"
5902 },
5903 {
5904     "I18nNyckel": "kataloginformation.grupp.for.utsokning.forskarniva",
5905     "Text": "Forskarniv\u00e5"
5906 },
5907 {
5908     "I18nNyckel": "arendestod.status.8.understatus",
5909     "Text": "Delvis bifall"
5910 },
5911 {
5912     "I18nNyckel": "systemaktivitet.studiedeltagande.meddela_avbrott_pa_kurspaketering.student",
5913     "Text": "Student-Studiedeltagande: Meddela avbrott p\u00e5 kurspaketering"
5914 },

```

```
5915     {
5916         "I18nNyckel": "systemaktivitet.bevakning.hantera_bevakningsmallar",
5917         "Text": "Bevakning: Hantera bevakningsmallar"
5918     },
5919     {
5920         "I18nNyckel": "systemfunktion.id.10043",
5921         "Text": "Spara organisationskopplingstyp p\u00e5 nationell niv\u00e5"
5922     },
5923     {
5924         "I18nNyckel": "systemfunktion.id.10044",
5925         "Text": "Spara studietakt p\u00e5 lokal niv\u00e5"
5926     },
5927     {
5928         "I18nNyckel": "systemfunktion.id.10045",
5929         "Text": "Spara studietakt p\u00e5 nationell niv\u00e5"
5930     },
5931     {
5932         "I18nNyckel": "systemfunktion.id.10046",
5933         "Text": "Spara f\u00f6rkunskapsniv\u00e5 p\u00e5 lokal niv\u00e5"
5934     },
5935     {
5936         "I18nNyckel": "systemfunktion.id.10042",
5937         "Text": "Spara \u00e4mnesgrupp p\u00e5 nationell niv\u00e5"
5938     },
5939     {
5940         "I18nNyckel": "systemaktivitet.resultat.vidimera.merit.tillaten.i.gemensam.examen",
5941         "Text": "Resultat: Till\u00e4t annan merit i gemensam examen"
5942     },
5943     {
5944         "I18nNyckel": "systemaktivitet.tabort.vidimerad.merit",
5945         "Text": "Resultat: Ta bort annan merit"
5946     },
5947     {
5948         "I18nNyckel": "systemaktivitet.studiedeltagande.skapa_forvantat_deltagande_for_flera_studenter.yt",
5949         "Text": "Studiedeltagande: L\u00e4gg till f\u00f6rv\u00e4ntat deltagande p\u00e5 yttre paketering"
5950     },
5951     {
5952         "I18nNyckel": "systemfunktion.id.10047",
5953         "Text": "Spara f\u00f6rkunskapsniv\u00e5 p\u00e5 nationell niv\u00e5"
5954     },
5955     {
5956         "I18nNyckel": "systemaktivitet.common.internt.anrop.for.funktionsflaggor",
5957         "Text": "Common: Internt anrop f\u00f6r funktionsflaggor"
5958     },
5959     {
5960         "I18nNyckel": "commons.fel.detaljkod.betygsgrad",
5961         "Text": "Betygsgrad"
5962     },
5963     {
5964         "I18nNyckel": "systemaktivitet.studiedeltagande.las.studiebehorigheter",
5965         "Text": "Studiedeltagande: L\u00e4sa studiebeh\u00f6righeter"
```

```

5966     },
5967     {
5968         "I18nNyckel": "systemaktivitet.utbildningsinformation.uppdatera.utbildningsomrade.i.status.komple
5969         "Text": "Utbildningsinformation: Hantera utbildningsomr\u00e5de f\u00f6r utbildning i status komple
5970     },
5971     {
5972         "I18nNyckel": "commons.kompletterande.meddelande.behorighet_saknas",
5973         "Text": "Beh\u00f6righet saknas."
5974     },
5975     {
5976         "I18nNyckel": "kataloginformation.grunddatakategori.studietakt",
5977         "Text": "Studietakt"
5978     },
5979     {
5980         "I18nNyckel": "systemaktivitet.examen.hantera.resultatintyg.student",
5981         "Text": "Student-Examen: H\u00e4mta eget resultatintyg"
5982     },
5983     {
5984         "I18nNyckel": "systemfunktion.id.10054",
5985         "Text": "Spara \u00e4mnesklass p\u00e5 lokal niv\u00e5"
5986     },
5987     {
5988         "I18nNyckel": "systemfunktion.id.10055",
5989         "Text": "Spara \u00e4mnesklass p\u00e5 nationell niv\u00e5"
5990     },
5991     {
5992         "I18nNyckel": "systemaktivitet.arendestod.hantera.bilagor",
5993         "Text": "\u00c4rendest\u00f6d: Hantera bilagor (gammal l\u00f6sning)"
5994     },
5995     {
5996         "I18nNyckel": "systemaktivitet.resultat.administrera_resultatrapportorer",
5997         "Text": "Resultat: Administrera resultatrapport\u00f6rer"
5998     },
5999     {
6000         "I18nNyckel": "systemfunktion.id.10056",
6001         "Text": "Spara typ av extern part p\u00e5 nationell niv\u00e5"
6002     },
6003     {
6004         "I18nNyckel": "systemfunktion.id.10057",
6005         "Text": "Spara externpart p\u00e5 lokal niv\u00e5"
6006     },
6007     {
6008         "I18nNyckel": "systemfunktion.id.10050",
6009         "Text": "Spara f\u00f6rdjupningsniv\u00e5 p\u00e5 lokal niv\u00e5"
6010     },
6011     {
6012         "I18nNyckel": "commons.domain.regel.utbildningstypsgrupp.yh.utbildning",
6013         "Text": "YH-Utbildning"
6014     },
6015     {
6016         "I18nNyckel": "systemfunktion.id.10051",

```

```
6017     "Text": "Spara f\u00f6rdjupningsniv\u00e5 p\u00e5 nationell niv\u00e5"
6018 },
6019 {
6020     "I18nNyckel": "systemaktivitet.common.basbehorighet",
6021     "Text": "Common: basbeh\u00f6righet f\u00f6r att anv\u00e4nda systemet"
6022 },
6023 {
6024     "I18nNyckel": "commons.domain.regel.utbildningstypsgrupp.forskarutbildning",
6025     "Text": "Forskarniv\u00e5"
6026 },
6027 {
6028     "I18nNyckel": "systemfunktion.id.10058",
6029     "Text": "Spara externpart p\u00e5 nationell niv\u00e5"
6030 },
6031 {
6032     "I18nNyckel": "commons.domain.utbildningstillfallestyp.programtillfalle",
6033     "Text": "Programtillf\u00e4lle"
6034 },
6035 {
6036     "I18nNyckel": "systemfunktion.id.10059",
6037     "Text": "Spara successiv f\u00f6rdjupning p\u00e5 lokal niv\u00e5"
6038 },
6039 {
6040     "I18nNyckel": "systemaktivitet.studiedeltagande.dokumentera_avbrott_pa_kurs",
6041     "Text": "Studiedeltagande: Dokumentera avbrott p\u00e5 kurs"
6042 },
6043 {
6044     "I18nNyckel": "systemaktivitet.isp.soka_isp",
6045     "Text": "Individuell studieplan: S\u00f6ka individuell studieplan"
6046 },
6047 {
6048     "I18nNyckel": "systemfunktion.id.10060",
6049     "Text": "Spara successiv f\u00f6rdjupning p\u00e5 nationell niv\u00e5"
6050 },
6051 {
6052     "I18nNyckel": "systemaktivitet.kataloginformation.organisation.skriv",
6053     "Text": "Kataloginformation: Hantera l\u00e4ros\u00f6kets organisationsstruktur"
6054 },
6055 {
6056     "I18nNyckel": "commons.domain.regel.sjalvstandig",
6057     "Text": "Sj\u00e4lvst\u00e4ndig"
6058 },
6059 {
6060     "I18nNyckel": "systemfunktion.id.10065",
6061     "Text": "Spara lokalm\u00e4rkning p\u00e5 lokal niv\u00e5"
6062 },
6063 {
6064     "I18nNyckel": "systemfunktion.id.10066",
6065     "Text": "Spara studiefinansiering p\u00e5 nationell niv\u00e5"
6066 },
6067 {
```

```
6068     "I18nNyckel": "systemfunktion.id.10067",
6069     "Text": "Spara studiefinansiering p\u00e5 lokal niv\u00e5"
6070 },
6071 {
6072     "I18nNyckel": "systemfunktion.id.10068",
6073     "Text": "Spara nationell examensgrupp"
6074 },
6075 {
6076     "I18nNyckel": "systemfunktion.id.10061",
6077     "Text": "Spara studielokalisering p\u00e5 lokal niv\u00e5"
6078 },
6079 {
6080     "I18nNyckel": "systemfunktion.id.10062",
6081     "Text": "Spara enhet p\u00e5 nationell niv\u00e5"
6082 },
6083 {
6084     "I18nNyckel": "systemfunktion.id.10063",
6085     "Text": "Spara utbytesprogram p\u00e5 nationell niv\u00e5"
6086 },
6087 {
6088     "I18nNyckel": "systemfunktion.id.10064",
6089     "Text": "Spara utbytesprogram p\u00e5 lokal niv\u00e5"
6090 },
6091 {
6092     "I18nNyckel": "systemaktivitet.arendestod.hantera.arend.avliden.vid.sokning",
6093     "Text": "Studentinformation: Hantera avliden\u00e4rende vid s\u00f6kning (kompletterande)"
6094 },
6095 {
6096     "I18nNyckel": "systemfunktion.id.10069",
6097     "Text": "Spara undervisningsspr\u00e5k p\u00e5 nationell niv\u00e5"
6098 },
6099 {
6100     "I18nNyckel": "systemaktivitet.utbildningsinformation.makulera_litteraturlista",
6101     "Text": "Utbildningsinformation: Makulera litteraturlista"
6102 },
6103 {
6104     "I18nNyckel": "systemaktivitet.kataloginformation.grunddata.administrera.lokal",
6105     "Text": "Kataloginformation: Hantera grunddata - lokal r\u00e4ttighetsniv\u00e5"
6106 },
6107 {
6108     "I18nNyckel": "systemaktivitet.kataloginformation.behorighet.anvandare.skriv",
6109     "Text": "Beh\u00f6righetshantering: Hantera anv\u00e4ndare - lokal r\u00e4ttighetsniv\u00e5"
6110 },
6111 {
6112     "I18nNyckel": "commons.domain.studieperiod",
6113     "Text": "Studieperiod"
6114 },
6115 {
6116     "I18nNyckel": "kataloginformation.grunddatakategori.undervisningsform",
6117     "Text": "Undervisningsform"
6118 },
```

```

6119     {
6120         "I18nNyckel": "systemaktivitet.studiedeltagande.pingintegration_lasa_ej_paborjade_tillfallesantag",
6121         "Text": "Studiedeltagande: Pingintegration l\u00e4sa ej p\u00e5b\u00f6rjade tillf\u00e4llesantagn",
6122     },
6123     {
6124         "I18nNyckel": "systemfunktion.id.10071",
6125         "Text": "Spara organisationsenhetstyp p\u00e5 nationell niv\u00e5",
6126     },
6127     {
6128         "I18nNyckel": "systemaktivitet.examen.administrera.lokal.installning.modul.i.bevis",
6129         "Text": "Bevis: Hantera inst\u00e4llningar f\u00f6r moduler i bevis",
6130     },
6131     {
6132         "I18nNyckel": "arendestod.fel.detaljkod.handlaggare",
6133         "Text": "Handl\u00e4ggare",
6134     },
6135     {
6136         "I18nNyckel": "systemfunktion.id.10076",
6137         "Text": "Spara utbildningsregel p\u00e5 nationell niv\u00e5",
6138     },
6139     {
6140         "I18nNyckel": "systemfunktion.id.10077",
6141         "Text": "Spara orsak till ej avgitsskyldig p\u00e5 nationell niv\u00e5",
6142     },
6143     {
6144         "I18nNyckel": "systemfunktion.id.10078",
6145         "Text": "Spara orsak till avst\u00e4ngning p\u00e5 nationell niv\u00e5",
6146     },
6147     {
6148         "I18nNyckel": "commons.domain.larosate.cth",
6149         "Text": "Chalmers tekniska h\u00f6gskola",
6150     },
6151     {
6152         "I18nNyckel": "systemfunktion.id.10079",
6153         "Text": "Spara tj\u00e4nstekonfigurationsobjekt p\u00e5 lokal niv\u00e5",
6154     },
6155     {
6156         "I18nNyckel": "systemfunktion.id.10073",
6157         "Text": "Spara konfiguration av autentisering p\u00e5 lokal niv\u00e5",
6158     },
6159     {
6160         "I18nNyckel": "systemaktivitet.utbildningsinformation.redigera_publicerade_attributvarden_i_plan",
6161         "Text": "Utbildningsinformation: Redigera publicerade attributv\u00e4rden i plan",
6162     },
6163     {
6164         "I18nNyckel": "systemfunktion.id.10074",
6165         "Text": "H\u00e4mta konfiguration av autentisering p\u00e5 lokal niv\u00e5",
6166     }
6167 ]
6168 }

```

## 20.6 svenskorter\_JSON

704a *<LadokSession data methods 151b>+≡*

```
# added by GQMJr
def svenskorter_JSON(self) -> dict:
    """
    Returns a dictionary of Swedish places with their KommunID.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url + '/kataloginformation/internal/grunddata/svenskort',
        headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

704b *<test functions 151a>+≡*

```
def test_svenskorter_JSON() -> None:
    r = ladok.svenskorter_JSON()
    assert type(r) == dict
```

This code is used in chunk 146.

The output looks like this:

```
1 {
2   "SvenskOrt": [
3     {
4       "Benamning": {
5         "sv": "Malmk\u00f6ping",
6         "en": "Malmk\u00f6ping"
7       },
8       "Beskrivning": {},
9       "Dolt": false,
10      "Giltighetsperiod": {},
11      "ID": "47",
12      "Kod": "T0796",
13      "KommunID": "39",
14      "LarosateID": -1
15    },
16    {
17      "Benamning": {
18        "sv": "Katrineholm",
19        "en": "Katrineholm"
20      },
21      "Beskrivning": {},
22      "Dolt": false,
23      "Giltighetsperiod": {},
24      "ID": "48",
25      "Kod": "T0784",
26      "KommunID": "40",
27      "LarosateID": -1
28    },
29    {
30      "Benamning": {
```

```

31     "sv": "Eskilstuna",
32     "en": "Eskilstuna"
33 },
34 "Beskrivning": {},
35 "Dolt": false,
36 "Giltighetsperiod": {},
37 "ID": "49",
38 "Kod": "T0740",
39 "KommunID": "41",
40 "LarosateID": -1
41 },
42 {
43     "Benamning": {
44         "sv": "Torsh\u00e4lla",
45         "en": "Torsh\u00e4lla"
46     },
47     "Beskrivning": {},
48     "Dolt": false,
49     "Giltighetsperiod": {},
50     "ID": "50",
51     "Kod": "T0880",
52     "KommunID": "41",
53     "LarosateID": -1
54 },
55 {
56     "Benamning": {
57         "sv": "Mariefred",
58         "en": "Mariefred"
59     },
60     "Beskrivning": {},
61     "Dolt": false,
62     "Giltighetsperiod": {},
63     "ID": "51",
64     "Kod": "T0800",
65     "KommunID": "42",
66     "LarosateID": -1
67 },
68 {
69     "Benamning": {
70         "sv": "Str\u00e4ngn\u00e4s",
71         "en": "Str\u00e4ngn\u00e4s"
72     },
73     "Beskrivning": {},
74     "Dolt": false,
75     "Giltighetsperiod": {},
76     "ID": "52",
77     "Kod": "T0868",
78     "KommunID": "42",
79     "LarosateID": -1
80 },
81 {

```



```

82     "Benamning": {
83         "sv": "Trosa",
84         "en": "Trosa"
85     },
86     "Beskrivning": {},
87     "Dolt": false,
88     "Giltighetsperiod": {},
89     "ID": "53",
90     "Kod": "T0884",
91     "KommunID": "43",
92     "LarosateID": -1
93 },
94 {
95     "Benamning": {
96         "sv": "Vagnh\u00e4rad",
97         "en": "Vagnh\u00e4rad"
98     },
99     "Beskrivning": {},
100    "Dolt": false,
101    "Giltighetsperiod": {},
102    "ID": "54",
103    "Kod": "T0896",
104    "KommunID": "43",
105    "LarosateID": -1
106 },
107 {
108     "Benamning": {
109         "sv": "\u00d6desh\u00f6g",
110         "en": "\u00d6desh\u00f6g"
111     },
112     "Beskrivning": {},
113     "Dolt": false,
114     "Giltighetsperiod": {},
115     "ID": "55",
116     "Kod": "T1332",
117     "KommunID": "44",
118     "LarosateID": -1
119 },
120 {
121     "Benamning": {
122         "sv": "Kisa",
123         "en": "Kisa"
124     },
125     "Beskrivning": {},
126     "Dolt": false,
127     "Giltighetsperiod": {},
128     "ID": "56",
129     "Kod": "T1132",
130     "KommunID": "46",
131     "LarosateID": -1
132 },

```

```
133     {
134         "Benamning": {
135             "sv": "Boxholm",
136             "en": "Boxholm"
137         },
138         "Beskrivning": {},
139         "Dolt": false,
140         "Giltighetsperiod": {},
141         "ID": "57",
142         "Kod": "T1040",
143         "KommunID": "47",
144         "LarosateID": -1
145     },
146     {
147         "Benamning": {
148             "sv": "\u00c5tvidaberg",
149             "en": "\u00c5tvidaberg"
150         },
151         "Beskrivning": {},
152         "Dolt": false,
153         "Giltighetsperiod": {},
154         "ID": "58",
155         "Kod": "T1328",
156         "KommunID": "48",
157         "LarosateID": -1
158     },
159     {
160         "Benamning": {
161             "sv": "Finsp\u00e5ng",
162             "en": "Finsp\u00e5ng"
163         },
164         "Beskrivning": {},
165         "Dolt": false,
166         "Giltighetsperiod": {},
167         "ID": "59",
168         "Kod": "T1056",
169         "KommunID": "49",
170         "LarosateID": -1
171     },
172     {
173         "Benamning": {
174             "sv": "Valdemarsvik",
175             "en": "Valdemarsvik"
176         },
177         "Beskrivning": {},
178         "Dolt": false,
179         "Giltighetsperiod": {},
180         "ID": "60",
181         "Kod": "T1304",
182         "KommunID": "50",
183         "LarosateID": -1
```

```
184     },
185     {
186         "Benamning": {
187             "sv": "Link\u00f6ping",
188             "en": "Link\u00f6ping"
189         },
190         "Beskrivning": {},
191         "Dolt": false,
192         "Giltighetsperiod": {},
193         "ID": "61",
194         "Kod": "T1152",
195         "KommunID": "51",
196         "LarosateID": -1
197     },
198     {
199         "Benamning": {
200             "sv": "Ljungsbro",
201             "en": "Ljungsbro"
202         },
203         "Beskrivning": {},
204         "Dolt": false,
205         "Giltighetsperiod": {},
206         "ID": "62",
207         "Kod": "T1160",
208         "KommunID": "51",
209         "LarosateID": -1
210     },
211     {
212         "Benamning": {
213             "sv": "Norrk\u00f6ping",
214             "en": "Norrk\u00f6ping"
215         },
216         "Beskrivning": {},
217         "Dolt": false,
218         "Giltighetsperiod": {},
219         "ID": "63",
220         "Kod": "T1192",
221         "KommunID": "52",
222         "LarosateID": -1
223     },
224     {
225         "Benamning": {
226             "sv": "S\u00f6derk\u00f6ping",
227             "en": "S\u00f6derk\u00f6ping"
228         },
229         "Beskrivning": {},
230         "Dolt": false,
231         "Giltighetsperiod": {},
232         "ID": "64",
233         "Kod": "T1284",
234         "KommunID": "53",
```

```

235     "LarosateID": -1
236 },
237 {
238     "Benamning": {
239         "sv": "Motala",
240         "en": "Motala"
241     },
242     "Beskrivning": {},
243     "Dolt": false,
244     "Giltighetsperiod": {},
245     "ID": "65",
246     "Kod": "T1188",
247     "KommunID": "54",
248     "LarosateID": -1
249 },
250 {
251     "Benamning": {
252         "sv": "Vadstena",
253         "en": "Vadstena"
254     },
255     "Beskrivning": {},
256     "Dolt": false,
257     "Giltighetsperiod": {},
258     "ID": "66",
259     "Kod": "T1300",
260     "KommunID": "55",
261     "LarosateID": -1
262 },
263 {
264     "Benamning": {
265         "sv": "Mj\u00f6lby",
266         "en": "Mj\u00f6lby"
267     },
268     "Beskrivning": {},
269     "Dolt": false,
270     "Giltighetsperiod": {},
271     "ID": "67",
272     "Kod": "T1180",
273     "KommunID": "56",
274     "LarosateID": -1
275 },
276 {
277     "Benamning": {
278         "sv": "Sk\u00e5nninge",
279         "en": "Sk\u00e5nninge"
280     },
281     "Beskrivning": {},
282     "Dolt": false,
283     "Giltighetsperiod": {},
284     "ID": "68",
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286     "KommunID": "56",
287     "LarosateID": -1
288 },
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290     "Benamning": {
291         "sv": "Aneby",
292         "en": "Aneby"
293     },
294     "Beskrivning": {},
295     "Dolt": false,
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297     "ID": "69",
298     "Kod": "T1404",
299     "KommunID": "57",
300     "LarosateID": -1
301 },
302 {
303     "Benamning": {
304         "sv": "Gnosj\u00f6",
305         "en": "Gnosj\u00f6"
306     },
307     "Beskrivning": {},
308     "Dolt": false,
309     "Giltighetsperiod": {},
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311     "Kod": "T1488",
312     "KommunID": "58",
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316     "Benamning": {
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318         "en": "Mullsj\u00f6"
319     },
320     "Beskrivning": {},
321     "Dolt": false,
322     "Giltighetsperiod": {},
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324     "Kod": "T5380",
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326     "LarosateID": -1
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329     "Benamning": {
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331         "en": "Habo"
332     },
333     "Beskrivning": {},
334     "Dolt": false,
335     "Giltighetsperiod": {},
336     "ID": "72",

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337     "Kod": "T5284",
338     "KommunID": "60",
339     "LarosateID": -1
340 },
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343         "sv": "Anderstorp",
344         "en": "Anderstorp"
345     },
346     "Beskrivning": {},
347     "Dolt": false,
348     "Giltighetsperiod": {},
349     "ID": "73",
350     "Kod": "T1400",
351     "KommunID": "61",
352     "LarosateID": -1
353 },
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355     "Benamning": {
356         "sv": "Gislaved",
357         "en": "Gislaved"
358     },
359     "Beskrivning": {},
360     "Dolt": false,
361     "Giltighetsperiod": {},
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363     "Kod": "T1484",
364     "KommunID": "61",
365     "LarosateID": -1
366 },
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368     "Benamning": {
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370         "en": "Vaggeryd"
371     },
372     "Beskrivning": {},
373     "Dolt": false,
374     "Giltighetsperiod": {},
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377     "KommunID": "62",
378     "LarosateID": -1
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383         "en": "Gr\u00e4nna"
384     },
385     "Beskrivning": {},
386     "Dolt": false,
387     "Giltighetsperiod": {},
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396         "en": "J\u00f6nk\u00f6ping"
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398     "Beskrivning": {},
399     "Dolt": false,
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403     "KommunID": "63",
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412     "Dolt": false,
413     "Giltighetsperiod": {},
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416     "KommunID": "64",
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418 },
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422         "en": "V\u00e4rnamo"
423     },
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425     "Dolt": false,
426     "Giltighetsperiod": {},
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429     "KommunID": "65",
430     "LarosateID": -1
431 },
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433     "Benamning": {
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435         "en": "S\u00e4vsj\u00f6"
436     },
437     "Beskrivning": {},
438     "Dolt": false,

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439     "Giltighetsperiod": {},
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441     "Kod": "T1688",
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443     "LarosateID": -1
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446     "Benamning": {
447         "sv": "Vetlanda",
448         "en": "Vetlanda"
449     },
450     "Beskrivning": {},
451     "Dolt": false,
452     "Giltighetsperiod": {},
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454     "Kod": "T1724",
455     "KommunID": "67",
456     "LarosateID": -1
457 },
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459     "Benamning": {
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461         "en": "Eksj\u00f6"
462     },
463     "Beskrivning": {},
464     "Dolt": false,
465     "Giltighetsperiod": {},
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467     "Kod": "T1460",
468     "KommunID": "68",
469     "LarosateID": -1
470 },
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472     "Benamning": {
473         "sv": "Tran\u00e4s",
474         "en": "Tran\u00e4s"
475     },
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481     "KommunID": "69",
482     "LarosateID": -1
483 },
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486         "sv": "\u00c5seda",
487         "en": "\u00c5seda"
488     },
489     "Beskrivning": {},
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492     "ID": "84",
493     "Kod": "T2036",
494     "KommunID": "70",
495     "LarosateID": -1
496 },
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500         "en": "Lessebo"
501     },
502     "Beskrivning": {},
503     "Dolt": false,
504     "Giltighetsperiod": {},
505     "ID": "85",
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507     "KommunID": "71",
508     "LarosateID": -1
509 },
510 {
511     "Benamning": {
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513         "en": "Tingsryd"
514     },
515     "Beskrivning": {},
516     "Dolt": false,
517     "Giltighetsperiod": {},
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520     "KommunID": "72",
521     "LarosateID": -1
522 },
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526         "en": "Alvesta"
527     },
528     "Beskrivning": {},
529     "Dolt": false,
530     "Giltighetsperiod": {},
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533     "KommunID": "73",
534     "LarosateID": -1
535 },
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537     "Benamning": {
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539         "en": "\u00c4lmhult"
540     },

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544     "ID": "88",
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552         "en": "Markaryd"
553     },
554     "Beskrivning": {},
555     "Dolt": false,
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557     "ID": "89",
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561 },
562 {
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565         "en": "Str\u00f6msn\u00e4sbruk"
566     },
567     "Beskrivning": {},
568     "Dolt": false,
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571     "Kod": "T1980",
572     "KommunID": "75",
573     "LarosateID": -1
574 },
575 {
576     "Benamning": {
577         "sv": "V\u00e4rmland\u00f6",
578         "en": "V\u00e4rmland\u00f6"
579     },
580     "Beskrivning": {},
581     "Dolt": false,
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584     "Kod": "T2024",
585     "KommunID": "76",
586     "LarosateID": -1
587 },
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589     "Benamning": {
590         "sv": "Ljungby",
591         "en": "Ljungby"

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592     },
593     "Beskrivning": {},
594     "Dolt": false,
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599     "LarosateID": -1
600 },
601 {
602     "Benamning": {
603         "sv": "Halmstad",
604         "en": "Halmstad"
605     },
606     "Beskrivning": {},
607     "Dolt": false,
608     "Giltighetsperiod": {},
609     "ID": "158",
610     "Kod": "T3960",
611     "KommunID": "130",
612     "LarosateID": -1
613 },
614 {
615     "Benamning": {
616         "sv": "Laholm",
617         "en": "Laholm"
618     },
619     "Beskrivning": {},
620     "Dolt": false,
621     "Giltighetsperiod": {},
622     "ID": "159",
623     "Kod": "T4028",
624     "KommunID": "131",
625     "LarosateID": -1
626 },
627 {
628     "Benamning": {
629         "sv": "Falkenberg",
630         "en": "Falkenberg"
631     },
632     "Beskrivning": {},
633     "Dolt": false,
634     "Giltighetsperiod": {},
635     "ID": "160",
636     "Kod": "T3920",
637     "KommunID": "132",
638     "LarosateID": -1
639 },
640 {
641     "Benamning": {
642         "sv": "Varberg",

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643     "en": "Varberg"
644 },
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646 "Dolt": false,
647 "Giltighetsperiod": {},
648 "ID": "161",
649 "Kod": "T4156",
650 "KommunID": "133",
651 "LarosateID": -1
652 },
653 {
654   "Benamning": {
655     "sv": "Kungsbacka",
656     "en": "Kungsbacka"
657   },
658   "Beskrivning": {},
659   "Dolt": false,
660   "Giltighetsperiod": {},
661   "ID": "162",
662   "Kod": "T4008",
663   "KommunID": "134",
664   "LarosateID": -1
665 },
666 {
667   "Benamning": {
668     "sv": "H\u00e4rryda",
669     "en": "H\u00e4rryda"
670   },
671   "Beskrivning": {},
672   "Dolt": false,
673   "Giltighetsperiod": {},
674   "ID": "163",
675   "Kod": "T4424",
676   "KommunID": "135",
677   "LarosateID": -1
678 },
679 {
680   "Benamning": {
681     "sv": "Landvetter",
682     "en": "Landvetter"
683   },
684   "Beskrivning": {},
685   "Dolt": false,
686   "Giltighetsperiod": {},
687   "ID": "164",
688   "Kod": "T4484",
689   "KommunID": "135",
690   "LarosateID": -1
691 },
692 {
693   "Benamning": {

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694     "sv": "M\u00f6lnlycke",
695     "en": "M\u00f6lnlycke"
696 },
697 "Beskrivning": {},
698 "Dolt": false,
699 "Giltighetsperiod": {},
700 "ID": "165",
701 "Kod": "T4520",
702 "KommunID": "135",
703 "LarosateID": -1
704 },
705 {
706     "Benamning": {
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708         "en": "Jonsered"
709     },
710     "Beskrivning": {},
711     "Dolt": false,
712     "Giltighetsperiod": {},
713     "ID": "166",
714     "Kod": "T4432",
715     "KommunID": "136",
716     "LarosateID": -1
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721         "en": "\u00d6cker\u00f6"
722     },
723     "Beskrivning": {},
724     "Dolt": false,
725     "Giltighetsperiod": {},
726     "ID": "167",
727     "Kod": "T4628",
728     "KommunID": "137",
729     "LarosateID": -1
730 },
731 {
732     "Benamning": {
733         "sv": "Stenungsund",
734         "en": "Stenungsund"
735     },
736     "Beskrivning": {},
737     "Dolt": false,
738     "Giltighetsperiod": {},
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740     "Kod": "T4568",
741     "KommunID": "138",
742     "LarosateID": -1
743 },
744 {
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747       "en": "Sk\u00e4rhamn"
748     },
749     "Beskrivning": {},
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751     "Giltighetsperiod": {},
752     "ID": "169",
753     "Kod": "T4560",
754     "KommunID": "139",
755     "LarosateID": -1
756   },
757   {
758     "Benamning": {
759       "sv": "Hen\u00e5n",
760       "en": "Hen\u00e5n"
761     },
762     "Beskrivning": {},
763     "Dolt": false,
764     "Giltighetsperiod": {},
765     "ID": "170",
766     "Kod": "T4384",
767     "KommunID": "140",
768     "LarosateID": -1
769   },
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771     "Benamning": {
772       "sv": "Kungshamn",
773       "en": "Kungshamn"
774     },
775     "Beskrivning": {},
776     "Dolt": false,
777     "Giltighetsperiod": {},
778     "ID": "171",
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780     "KommunID": "141",
781     "LarosateID": -1
782   },
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785       "sv": "Munkedal",
786       "en": "Munkedal"
787     },
788     "Beskrivning": {},
789     "Dolt": false,
790     "Giltighetsperiod": {},
791     "ID": "172",
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793     "KommunID": "142",
794     "LarosateID": -1
795   },

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799             "en": "Tanumshede"
800         },
801         "Beskrivning": {},
802         "Dolt": false,
803         "Giltighetsperiod": {},
804         "ID": "173",
805         "Kod": "T4600",
806         "KommunID": "143",
807         "LarosateID": -1
808     },
809     {
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811             "sv": "Ed",
812             "en": "Ed"
813         },
814         "Beskrivning": {},
815         "Dolt": false,
816         "Giltighetsperiod": {},
817         "ID": "174",
818         "Kod": "T4796",
819         "KommunID": "144",
820         "LarosateID": -1
821     },
822     {
823         "Benamning": {
824             "sv": "F\u00e4rgelanda",
825             "en": "F\u00e4rgelanda"
826         },
827         "Beskrivning": {},
828         "Dolt": false,
829         "Giltighetsperiod": {},
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832         "KommunID": "145",
833         "LarosateID": -1
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838             "en": "N\u00f6dinge-Nol"
839         },
840         "Beskrivning": {},
841         "Dolt": false,
842         "Giltighetsperiod": {},
843         "ID": "176",
844         "Kod": "T4976",
845         "KommunID": "146",
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851             "en": "Lerum"
852         },
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855         "Giltighetsperiod": {},
856         "ID": "177",
857         "Kod": "T4920",
858         "KommunID": "147",
859         "LarosateID": -1
860     },
861     {
862         "Benamning": {
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864             "en": "V\u00e5rg\u00e5rda"
865         },
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871         "KommunID": "148",
872         "LarosateID": -1
873     },
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875         "Benamning": {
876             "sv": "Bollebygd",
877             "en": "Bollebygd"
878         },
879         "Beskrivning": {},
880         "Dolt": false,
881         "Giltighetsperiod": {},
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883         "Kod": "T4744",
884         "KommunID": "149",
885         "LarosateID": -1
886     },
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889             "sv": "Gr\u00e4storp",
890             "en": "Gr\u00e4storp"
891         },
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894         "Giltighetsperiod": {},
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896         "Kod": "T5260",
897         "KommunID": "150",
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902       "sv": "Fagersta",
903       "en": "Fagersta"
904     },
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907     "Giltighetsperiod": {},
908     "ID": "250",
909     "Kod": "T6212",
910     "KommunID": "219",
911     "LarosateID": -1
912   },
913   {
914     "Benamning": {
915       "sv": "K\u00f6ping",
916       "en": "K\u00f6ping"
917     },
918     "Beskrivning": {},
919     "Dolt": false,
920     "Giltighetsperiod": {},
921     "ID": "251",
922     "Kod": "T6268",
923     "KommunID": "220",
924     "LarosateID": -1
925   },
926   {
927     "Benamning": {
928       "sv": "Arboga",
929       "en": "Arboga"
930     },
931     "Beskrivning": {},
932     "Dolt": false,
933     "Giltighetsperiod": {},
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935     "Kod": "T6200",
936     "KommunID": "221",
937     "LarosateID": -1
938   },
939   {
940     "Benamning": {
941       "sv": "Vansbro",
942       "en": "Vansbro"
943     },
944     "Beskrivning": {},
945     "Dolt": false,
946     "Giltighetsperiod": {},
947     "ID": "253",
948     "Kod": "T6828",
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955         "en": "Malung"
956     },
957     "Beskrivning": {},
958     "Dolt": false,
959     "Giltighetsperiod": {},
960     "ID": "254",
961     "Kod": "T6636",
962     "KommunID": "223",
963     "LarosateID": -1
964 },
965 {
966     "Benamning": {
967         "sv": "Gagnef",
968         "en": "Gagnef"
969     },
970     "Beskrivning": {},
971     "Dolt": false,
972     "Giltighetsperiod": {},
973     "ID": "255",
974     "Kod": "T6528",
975     "KommunID": "224",
976     "LarosateID": -1
977 },
978 {
979     "Benamning": {
980         "sv": "Leksand",
981         "en": "Leksand"
982     },
983     "Beskrivning": {},
984     "Dolt": false,
985     "Giltighetsperiod": {},
986     "ID": "256",
987     "Kod": "T6608",
988     "KommunID": "225",
989     "LarosateID": -1
990 },
991 {
992     "Benamning": {
993         "sv": "R\u00e4ttvik",
994         "en": "R\u00e4ttvik"
995     },
996     "Beskrivning": {},
997     "Dolt": false,
998     "Giltighetsperiod": {},
999     "ID": "257",
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1001     "KommunID": "226",
1002     "LarosateID": -1
1003 },
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1006         "sv": "Orsa",
1007         "en": "Orsa"
1008     },
1009     "Beskrivning": {},
1010     "Dolt": false,
1011     "Giltighetsperiod": {},
1012     "ID": "258",
1013     "Kod": "T6696",
1014     "KommunID": "227",
1015     "LarosateID": -1
1016 },
1017 {
1018     "Benamning": {
1019         "sv": "\u00c4lvdalen",
1020         "en": "\u00c4lvdalen"
1021     },
1022     "Beskrivning": {},
1023     "Dolt": false,
1024     "Giltighetsperiod": {},
1025     "ID": "259",
1026     "Kod": "T6896",
1027     "KommunID": "228",
1028     "LarosateID": -1
1029 },
1030 {
1031     "Benamning": {
1032         "sv": "Smedjebacken",
1033         "en": "Smedjebacken"
1034     },
1035     "Beskrivning": {},
1036     "Dolt": false,
1037     "Giltighetsperiod": {},
1038     "ID": "260",
1039     "Kod": "T6744",
1040     "KommunID": "229",
1041     "LarosateID": -1
1042 },
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1044     "Benamning": {
1045         "sv": "Mora",
1046         "en": "Mora"
1047     },
1048     "Beskrivning": {},
1049     "Dolt": false,
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1051     "ID": "261",
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1053     "KommunID": "230",
1054     "LarosateID": -1
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1059         "en": "Falun"
1060     },
1061     "Beskrivning": {},
1062     "Dolt": false,
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1064     "ID": "262",
1065     "Kod": "T6504",
1066     "KommunID": "231",
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1068 },
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1072         "en": "Borl\u00e4nge"
1073     },
1074     "Beskrivning": {},
1075     "Dolt": false,
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1077     "ID": "263",
1078     "Kod": "T6444",
1079     "KommunID": "232",
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1081 },
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1085         "en": "S\u00e4ter"
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1092     "KommunID": "233",
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1098         "en": "Hedemora"
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1100     "Beskrivning": {},
1101     "Dolt": false,

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1105     "KommunID": "234",
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1112     },
1113     "Beskrivning": {},
1114     "Dolt": false,
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1124         "en": "Ludvika"
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1126     "Beskrivning": {},
1127     "Dolt": false,
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1137         "en": "Ockelbo"
1138     },
1139     "Beskrivning": {},
1140     "Dolt": false,
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1144     "KommunID": "237",
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1149         "sv": "Hofors",
1150         "en": "Hofors"
1151     },
1152     "Beskrivning": {},

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1153     "Dolt": false,
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1155     "ID": "269",
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1157     "KommunID": "238",
1158     "LarosateID": -1
1159 },
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1162         "sv": "Edsbyn",
1163         "en": "Edsbyn"
1164     },
1165     "Beskrivning": {},
1166     "Dolt": false,
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1168     "ID": "270",
1169     "Kod": "T7044",
1170     "KommunID": "239",
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1175         "sv": "Bergsj\u00f6",
1176         "en": "Bergsj\u00f6"
1177     },
1178     "Beskrivning": {},
1179     "Dolt": false,
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1183     "KommunID": "240",
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1189         "en": "Ljusdal"
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1196     "KommunID": "241",
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1201         "sv": "Pajala",
1202         "en": "Pajala"
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1207     "ID": "319",
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1209     "KommunID": "283",
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1215         "en": "G\u00e4llivare"
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1228         "en": "\u00c4lvsbyn"
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1235     "KommunID": "285",
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1241         "en": "Lule\u00e5"
1242     },
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1244     "Dolt": false,
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1247     "Kod": "T8724",
1248     "KommunID": "286",
1249     "LarosateID": -1
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1251 {
1252     "Benamning": {
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1254         "en": "Pite\u00e5"
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1265     "Benamning": {
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1280         "en": "Haparanda"
1281     },
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1283     "Dolt": false,
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1287     "KommunID": "289",
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1293         "en": "Kiruna"
1294     },
1295     "Beskrivning": {},
1296     "Dolt": false,
1297     "Giltighetsperiod": {},
1298     "ID": "326",
1299     "Kod": "T8676",
1300     "KommunID": "290",
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1302 },
1303 {
1304     "Benamning": {
1305         "sv": "G\u00f6teborg (Partille)",

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1306         "en": "G\u00f6teborg (Partille)"
1307     },
1308     "Beskrivning": {},
1309     "Dolt": false,
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1311     "ID": "112678",
1312     "Kod": "L1402",
1313     "KommunID": "136",
1314     "LarosateID": -1
1315 },
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1319         "en": "Alnarp"
1320     },
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1326     "KommunID": "104",
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1331         "sv": "Ragunda",
1332         "en": "Ragunda"
1333     },
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1345         "en": "H\u00e4rjedalen"
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1352     "KommunID": "260",
1353     "LarosateID": -1
1354 },
1355 {
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1384         "en": "J\u00e4lla"
1385     },
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1387     "Dolt": false,
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1391     "KommunID": "32",
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1397         "en": "\u00c5s"
1398     },
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1406 },
1407 {
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1410         "en": "Upplands V\u00e4rmland"
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1423         "en": "Vallentuna"
1424     },
1425     "Beskrivning": {},
1426     "Dolt": false,
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1430     "KommunID": "2",
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1436         "en": "V\u00e4rmland"
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1438     "Beskrivning": {},
1439     "Dolt": false,
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1442     "Kod": "T0408",
1443     "KommunID": "3",
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1449         "en": "Gustavsberg"
1450     },
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1455     "Kod": "T0172",
1456     "KommunID": "4",
1457     "LarosateID": -1
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1469       "KommunID": "5",
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1475         "en": "Eker\u00f6"
1476       },
1477       "Beskrivning": {},
1478       "Dolt": false,
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1481       "Kod": "T0150",
1482       "KommunID": "6",
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1488         "en": "Flemingsberg"
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1490       "Beskrivning": {},
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1495       "KommunID": "7",
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1501         "en": "Tumba (Botkyrka)"
1502       },
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1508       "KommunID": "8",
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1514             "en": "R\u00f6nninge"
1515         },
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1521         "KommunID": "9",
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1527             "en": "Handen"
1528         },
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1540             "en": "Bollmora/Tyres\u00f6 centrum"
1541         },
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1553             "en": "Kungs\u00e4ngen "
1554         },
1555         "Beskrivning": {},
1556         "Dolt": false,
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1560         "KommunID": "12",

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1579         "en": "T\u00e4by"
1580     },
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1586     "KommunID": "14",
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1592         "en": "Stockholm (Danderyd)"
1593     },
1594     "Beskrivning": {},
1595     "Dolt": false,
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1599     "KommunID": "15",
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1605         "en": "Rotebro"
1606     },
1607     "Beskrivning": {},
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1611     "Kod": "TX026",

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1618         "en": "Sollentuna"
1619     },
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1621     "Dolt": false,
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1624     "Kod": "T0316",
1625     "KommunID": "16",
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1631         "en": "Stockholm"
1632     },
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1638     "KommunID": "17",
1639     "LarosateID": -1
1640 },
1641 {
1642     "Benamning": {
1643         "sv": "J\u00e4rna",
1644         "en": "J\u00e4rna"
1645     },
1646     "Beskrivning": {},
1647     "Dolt": false,
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1650     "Kod": "T0204",
1651     "KommunID": "18",
1652     "LarosateID": -1
1653 },
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1655     "Benamning": {
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1657         "en": "S\u00f6dert\u00e4lje"
1658     },
1659     "Beskrivning": {},
1660     "Dolt": false,
1661     "Giltighetsperiod": {},
1662     "ID": "20",

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1665     "LarosateID": -1
1666 },
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1670         "en": "Stockholm (Nacka)"
1671     },
1672     "Beskrivning": {},
1673     "Dolt": false,
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1677     "KommunID": "19",
1678     "LarosateID": -1
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1683         "en": "Saltsj\u00f6baden"
1684     },
1685     "Beskrivning": {},
1686     "Dolt": false,
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1689     "Kod": "T0296",
1690     "KommunID": "19",
1691     "LarosateID": -1
1692 },
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1694     "Benamning": {
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1696         "en": "\u00c4lta"
1697     },
1698     "Beskrivning": {},
1699     "Dolt": false,
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1702     "Kod": "T0416",
1703     "KommunID": "19",
1704     "LarosateID": -1
1705 },
1706 {
1707     "Benamning": {
1708         "sv": "Staffanstorp",
1709         "en": "Staffanstorp"
1710     },
1711     "Beskrivning": {},
1712     "Dolt": false,
1713     "Giltighetsperiod": {},
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1716     "KommunID": "97",
1717     "LarosateID": -1
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1721         "sv": "Arl\u00f6v",
1722         "en": "Arl\u00f6v"
1723     },
1724     "Beskrivning": {},
1725     "Dolt": false,
1726     "Giltighetsperiod": {},
1727     "ID": "117",
1728     "Kod": "TX402",
1729     "KommunID": "98",
1730     "LarosateID": -1
1731 },
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1734         "sv": "\u00c5karp",
1735         "en": "\u00c5karp"
1736     },
1737     "Beskrivning": {},
1738     "Dolt": false,
1739     "Giltighetsperiod": {},
1740     "ID": "118",
1741     "Kod": "T3812",
1742     "KommunID": "98",
1743     "LarosateID": -1
1744 },
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1746     "Benamning": {
1747         "sv": "H\u00f6llviken",
1748         "en": "H\u00f6llviken"
1749     },
1750     "Beskrivning": {},
1751     "Dolt": false,
1752     "Giltighetsperiod": {},
1753     "ID": "119",
1754     "Kod": "T3496",
1755     "KommunID": "99",
1756     "LarosateID": -1
1757 },
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1760         "sv": "Skan\u00f6r med Falsterbo",
1761         "en": "Skan\u00f6r med Falsterbo"
1762     },
1763     "Beskrivning": {},
1764     "Dolt": false,

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1765     "Giltighetsperiod": {},
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1768     "KommunID": "99",
1769     "LarosateID": -1
1770 },
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1774         "en": "Vellinge"
1775     },
1776     "Beskrivning": {},
1777     "Dolt": false,
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1779     "ID": "121",
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1781     "KommunID": "99",
1782     "LarosateID": -1
1783 },
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1786         "sv": "Broby",
1787         "en": "Broby"
1788     },
1789     "Beskrivning": {},
1790     "Dolt": false,
1791     "Giltighetsperiod": {},
1792     "ID": "122",
1793     "Kod": "T2828",
1794     "KommunID": "100",
1795     "LarosateID": -1
1796 },
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1799         "sv": "Knislinge",
1800         "en": "Knislinge"
1801     },
1802     "Beskrivning": {},
1803     "Dolt": false,
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1809 },
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1813         "en": "\u00d6rkelljunga"
1814     },
1815     "Beskrivning": {},

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1818     "ID": "124",
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1827     },
1828     "Beskrivning": {},
1829     "Dolt": false,
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1834     "LarosateID": -1
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1839         "en": "K\u00e4vlinge"
1840     },
1841     "Beskrivning": {},
1842     "Dolt": false,
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1846     "KommunID": "103",
1847     "LarosateID": -1
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1852         "en": "L\u00f6ddek\u00f6p"
1853     },
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1859     "KommunID": "103",
1860     "LarosateID": -1
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1865         "en": "Bj\u00e4rred"
1866     },

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1871     "Kod": "T3356",
1872     "KommunID": "104",
1873     "LarosateID": -1
1874 },
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1878         "en": "Lomma"
1879     },
1880     "Beskrivning": {},
1881     "Dolt": false,
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1885     "KommunID": "104",
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1891         "en": "Svedala"
1892     },
1893     "Beskrivning": {},
1894     "Dolt": false,
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1898     "KommunID": "105",
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1904         "en": "Skurup"
1905     },
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1912     "LarosateID": -1
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1917         "en": "Sj\u00f6bo"
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1943         "en": "H\u00f6f6\u00f6r"
1944     },
1945     "Beskrivning": {},
1946     "Dolt": false,
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1956         "en": "Tomelilla"
1957     },
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1963     "KommunID": "110",
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1965 },
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1967     "Benamning": {
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1969         "en": "Brom\u00f6l\u00e4"
1970     },
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1977     "LarosateID": -1
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1982         "en": "Osby"
1983     },
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1985     "Dolt": false,
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1989     "KommunID": "112",
1990     "LarosateID": -1
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1993     "Benamning": {
1994         "sv": "Perstorp",
1995         "en": "Perstorp"
1996     },
1997     "Beskrivning": {},
1998     "Dolt": false,
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2001     "Kod": "T3036",
2002     "KommunID": "113",
2003     "LarosateID": -1
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2006     "Benamning": {
2007         "sv": "Bor\u00e5s",
2008         "en": "Bor\u00e5s"
2009     },
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2011     "Dolt": false,
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2015     "KommunID": "174",
2016     "LarosateID": -1
2017 },
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2024     "Dolt": false,
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2028     "KommunID": "175",
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2034         "en": "\u00c5m\u00e5l"
2035     },
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2041     "KommunID": "176",
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2047         "en": "Mariestad"
2048     },
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2050     "Dolt": false,
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2054     "KommunID": "177",
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2060         "en": "Lidk\u00f6ping"
2061     },
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2063     "Dolt": false,
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2066     "Kod": "T5352",
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2069 },
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2072         "sv": "Skara",
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2074     },
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2078     "ID": "209",
2079     "Kod": "T5420",
2080     "KommunID": "179",
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2084     "Benamning": {
2085         "sv": "Sk\u00f6vde",
2086         "en": "Sk\u00f6vde"
2087     },
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2089     "Dolt": false,
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2091     "ID": "210",
2092     "Kod": "T5428",
2093     "KommunID": "180",
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2097     "Benamning": {
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2099         "en": "Hjo"
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2101     "Beskrivning": {},
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2106     "KommunID": "181",
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2111         "sv": "Tidaholm",
2112         "en": "Tidaholm"
2113     },
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2117     "ID": "212",
2118     "Kod": "T5460",
2119     "KommunID": "182",
2120     "LarosateID": -1
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2125             "en": "Falk\u00f6ping"
2126         },
2127         "Beskrivning": {},
2128         "Dolt": false,
2129         "Giltighetsperiod": {},
2130         "ID": "213",
2131         "Kod": "T5236",
2132         "KommunID": "183",
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2135     {
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2137             "sv": "Kil",
2138             "en": "Kil"
2139         },
2140         "Beskrivning": {},
2141         "Dolt": false,
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2143         "ID": "214",
2144         "Kod": "T5708",
2145         "KommunID": "184",
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2149         "Benamning": {
2150             "sv": "Charlottenberg",
2151             "en": "Charlottenberg"
2152         },
2153         "Beskrivning": {},
2154         "Dolt": false,
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2156         "ID": "215",
2157         "Kod": "T5628",
2158         "KommunID": "185",
2159         "LarosateID": -1
2160     },
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2162         "Benamning": {
2163             "sv": "Torsby",
2164             "en": "Torsby"
2165         },
2166         "Beskrivning": {},
2167         "Dolt": false,
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2171         "KommunID": "186",
2172         "LarosateID": -1
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2177             "en": "Storfors"
2178         },
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2180         "Dolt": false,
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2189             "sv": "Skoghall",
2190             "en": "Skoghall"
2191         },
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2193         "Dolt": false,
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2197         "KommunID": "188",
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2203             "en": "Munkfors"
2204         },
2205         "Beskrivning": {},
2206         "Dolt": false,
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2215             "sv": "Forshaga",
2216             "en": "Forshaga"
2217         },
2218         "Beskrivning": {},
2219         "Dolt": false,
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2221         "ID": "220",
2222         "Kod": "T5664",
2223         "KommunID": "190",
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2227     "Benamning": {
2228         "sv": "Grums",
2229         "en": "Grums"
2230     },
2231     "Beskrivning": {},
2232     "Dolt": false,
2233     "Giltighetsperiod": {},
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2236     "KommunID": "191",
2237     "LarosateID": -1
2238 },
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2242         "en": "\u00c5rj\u00e4ng"
2243     },
2244     "Beskrivning": {},
2245     "Dolt": false,
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2249     "KommunID": "192",
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2256     },
2257     "Beskrivning": {},
2258     "Dolt": false,
2259     "Giltighetsperiod": {},
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2261     "Kod": "T5824",
2262     "KommunID": "193",
2263     "LarosateID": -1
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2266     "Benamning": {
2267         "sv": "Karlstad",
2268         "en": "Karlstad"
2269     },
2270     "Beskrivning": {},
2271     "Dolt": false,
2272     "Giltighetsperiod": {},
2273     "ID": "224",
2274     "Kod": "T5704",
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2276     "LarosateID": -1
2277 },
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2281         "en": "Kristinehamn"
2282     },
2283     "Beskrivning": {},
2284     "Dolt": false,
2285     "Giltighetsperiod": {},
2286     "ID": "225",
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2288     "KommunID": "195",
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2291 {
2292     "Benamning": {
2293         "sv": "Filipstad",
2294         "en": "Filipstad"
2295     },
2296     "Beskrivning": {},
2297     "Dolt": false,
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2299     "ID": "226",
2300     "Kod": "T5660",
2301     "KommunID": "196",
2302     "LarosateID": -1
2303 },
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2305     "Benamning": {
2306         "sv": "G\u00e4vle",
2307         "en": "G\u00e4vle"
2308     },
2309     "Beskrivning": {},
2310     "Dolt": false,
2311     "Giltighetsperiod": {},
2312     "ID": "273",
2313     "Kod": "T7076",
2314     "KommunID": "242",
2315     "LarosateID": -1
2316 },
2317 {
2318     "Benamning": {
2319         "sv": "Sandviken",
2320         "en": "Sandviken"
2321     },
2322     "Beskrivning": {},
2323     "Dolt": false,
2324     "Giltighetsperiod": {},
2325     "ID": "274",

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2327     "KommunID": "243",
2328     "LarosateID": -1
2329 },
2330 {
2331     "Benamning": {
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2333         "en": "S\u00f6derhamn"
2334     },
2335     "Beskrivning": {},
2336     "Dolt": false,
2337     "Giltighetsperiod": {},
2338     "ID": "275",
2339     "Kod": "T7316",
2340     "KommunID": "244",
2341     "LarosateID": -1
2342 },
2343 {
2344     "Benamning": {
2345         "sv": "Bolln\u00e4s",
2346         "en": "Bolln\u00e4s"
2347     },
2348     "Beskrivning": {},
2349     "Dolt": false,
2350     "Giltighetsperiod": {},
2351     "ID": "276",
2352     "Kod": "T7036",
2353     "KommunID": "245",
2354     "LarosateID": -1
2355 },
2356 {
2357     "Benamning": {
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2359         "en": "Hudiksvall"
2360     },
2361     "Beskrivning": {},
2362     "Dolt": false,
2363     "Giltighetsperiod": {},
2364     "ID": "277",
2365     "Kod": "T7120",
2366     "KommunID": "246",
2367     "LarosateID": -1
2368 },
2369 {
2370     "Benamning": {
2371         "sv": "\u00c5nge",
2372         "en": "\u00c5nge"
2373     },
2374     "Beskrivning": {},
2375     "Dolt": false,
2376     "Giltighetsperiod": {},

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2377     "ID": "278",
2378     "Kod": "T7736",
2379     "KommunID": "247",
2380     "LarosateID": -1
2381 },
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2383     "Benamning": {
2384         "sv": "Timr\u00e5",
2385         "en": "Timr\u00e5"
2386     },
2387     "Beskrivning": {},
2388     "Dolt": false,
2389     "Giltighetsperiod": {},
2390     "ID": "279",
2391     "Kod": "T7704",
2392     "KommunID": "248",
2393     "LarosateID": -1
2394 },
2395 {
2396     "Benamning": {
2397         "sv": "H\u00e4rn\u00f6sand",
2398         "en": "H\u00e4rn\u00f6sand"
2399     },
2400     "Beskrivning": {},
2401     "Dolt": false,
2402     "Giltighetsperiod": {},
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2404     "Kod": "T7500",
2405     "KommunID": "249",
2406     "LarosateID": -1
2407 },
2408 {
2409     "Benamning": {
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2411         "en": "Sundsvall"
2412     },
2413     "Beskrivning": {},
2414     "Dolt": false,
2415     "Giltighetsperiod": {},
2416     "ID": "281",
2417     "Kod": "T7688",
2418     "KommunID": "250",
2419     "LarosateID": -1
2420 },
2421 {
2422     "Benamning": {
2423         "sv": "Kramfors",
2424         "en": "Kramfors"
2425     },
2426     "Beskrivning": {},
2427     "Dolt": false,
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2429     "ID": "282",
2430     "Kod": "T7524",
2431     "KommunID": "251",
2432     "LarosateID": -1
2433 },
2434 {
2435     "Benamning": {
2436         "sv": "Sollefte\u00e5",
2437         "en": "Sollefte\u00e5"
2438     },
2439     "Beskrivning": {},
2440     "Dolt": false,
2441     "Giltighetsperiod": {},
2442     "ID": "283",
2443     "Kod": "T7660",
2444     "KommunID": "252",
2445     "LarosateID": -1
2446 },
2447 {
2448     "Benamning": {
2449         "sv": "\u00d6rns\u00f6ldsvik",
2450         "en": "\u00d6rns\u00f6ldsvik"
2451     },
2452     "Beskrivning": {},
2453     "Dolt": false,
2454     "Giltighetsperiod": {},
2455     "ID": "284",
2456     "Kod": "T7744",
2457     "KommunID": "253",
2458     "LarosateID": -1
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2463         "en": "Hammarstrand"
2464     },
2465     "Beskrivning": {},
2466     "Dolt": false,
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2468     "ID": "285",
2469     "Kod": "T7856",
2470     "KommunID": "254",
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2476         "en": "Br\u00e4cke"
2477     },
2478     "Beskrivning": {},
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2490     },
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2496     "KommunID": "256",
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2502         "en": "Str\u00f6msund"
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2509     "KommunID": "257",
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2515         "en": "J\u00e4rpen"
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2520     "ID": "289",
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2522     "KommunID": "258",
2523     "LarosateID": -1
2524 },
2525 {
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2527         "sv": "\u00c5re",
2528         "en": "\u00c5re"
2529     },

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2533     "ID": "290",
2534     "Kod": "T8024",
2535     "KommunID": "258",
2536     "LarosateID": -1
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2541         "en": "Svenstavik"
2542     },
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2544     "Dolt": false,
2545     "Giltighetsperiod": {},
2546     "ID": "291",
2547     "Kod": "T7976",
2548     "KommunID": "259",
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2554         "en": "Sveg"
2555     },
2556     "Beskrivning": {},
2557     "Dolt": false,
2558     "Giltighetsperiod": {},
2559     "ID": "292",
2560     "Kod": "T7968",
2561     "KommunID": "260",
2562     "LarosateID": -1
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2568     },
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2580         "en": "Nordmaling"
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2587     "KommunID": "262",
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2593         "en": "Bjurholm"
2594     },
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2596     "Dolt": false,
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2607     },
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2613     "KommunID": "122",
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2620     },
2621     "Beskrivning": {},
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2625     "Kod": "T4054",
2626     "KommunID": "134",
2627     "LarosateID": -1
2628 },
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2632         "en": "Str\u00f6msholm"
2633     },
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2645         "en": "Garpenberg"
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2658         "en": "F\u00f6rila"
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2682     "Benamning": {
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2684         "en": "V\u00e4stra Bispg\u00e5rden"
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2710         "en": "Hemavan"
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2730     "KommunID": "268",
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2736       "en": "Ammarn\u00e4s"
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2749       "en": "Norrbyn"
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2752     "Dolt": false,
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2761       "sv": "Vuollerim",
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2763     },
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2775       "en": "S\u00f6dra Sunderbyn"
2776     },
2777     "Beskrivning": {},
2778     "Dolt": false,
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2782     "KommunID": "286",
2783     "LarosateID": -1
2784   },
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2794         "Kod": "S9013",
2795         "KommunID": "290",
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2801             "en": "Burl\u00f6v"
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2807         "Kod": "L1231",
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2814             "en": "Stockholm (J\u00e4rf\u00e4lla)"
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2833         "Kod": "L0128",
2834         "KommunID": "9",
2835         "LarosateID": -1

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2840             "en": "Stockholm (Sundbyberg)"
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2847         "KommunID": "20",
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2853             "en": "Stockholm (Solna)"
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2855         "Beskrivning": {},
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2860         "KommunID": "21",
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2866             "en": "Liding\u00f6"
2867         },
2868         "Beskrivning": {},
2869         "Dolt": false,
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2874         "LarosateID": -1
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2879             "en": "Vaxholm"
2880         },
2881         "Beskrivning": {},
2882         "Dolt": false,
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2884         "ID": "27",
2885         "Kod": "T0392",
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2893     },
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2905         "en": "M\u00e4rsta"
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2912     "KommunID": "25",
2913     "LarosateID": -1
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2918         "en": "Rosersberg"
2919     },
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2921     "Dolt": false,
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2925     "KommunID": "25",
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2931         "en": "Sigtuna"
2932     },
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2934     "Dolt": false,
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2944         "en": "Nyn\u00e4shamn"
2945     },
2946     "Beskrivning": {},
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2951     "KommunID": "26",
2952     "LarosateID": -1
2953 },
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2957         "en": "\u00d6smo"
2958     },
2959     "Beskrivning": {},
2960     "Dolt": false,
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2964     "KommunID": "26",
2965     "LarosateID": -1
2966 },
2967 {
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2970         "en": "B\u00e4sta"
2971     },
2972     "Beskrivning": {},
2973     "Dolt": false,
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2977     "KommunID": "27",
2978     "LarosateID": -1
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2983         "en": "Skutsk\u00e4r"
2984     },
2985     "Beskrivning": {},
2986     "Dolt": false,
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2988     "ID": "35",

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2997     },
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3009         "en": "Tierp"
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3011     "Beskrivning": {},
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3016     "KommunID": "31",
3017     "LarosateID": -1
3018 },
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3020     "Benamning": {
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3022         "en": "Uppsala"
3023     },
3024     "Beskrivning": {},
3025     "Dolt": false,
3026     "Giltighetsperiod": {},
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3029     "KommunID": "32",
3030     "LarosateID": -1
3031 },
3032 {
3033     "Benamning": {
3034         "sv": "Enk\u00f6ping",
3035         "en": "Enk\u00f6ping"
3036     },
3037     "Beskrivning": {},
3038     "Dolt": false,
3039     "Giltighetsperiod": {},

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3048         "en": "Gimo"
3049     },
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3054     "Kod": "T0540",
3055     "KommunID": "34",
3056     "LarosateID": -1
3057 },
3058 {
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3061         "en": "\u00d6sthammar"
3062     },
3063     "Beskrivning": {},
3064     "Dolt": false,
3065     "Giltighetsperiod": {},
3066     "ID": "41",
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3068     "KommunID": "34",
3069     "LarosateID": -1
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3073         "sv": "Ving\u00e5ker",
3074         "en": "Ving\u00e5ker"
3075     },
3076     "Beskrivning": {},
3077     "Dolt": false,
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3081     "KommunID": "35",
3082     "LarosateID": -1
3083 },
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3087         "en": "Gnesta"
3088     },
3089     "Beskrivning": {},
3090     "Dolt": false,

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3094     "KommunID": "36",
3095     "LarosateID": -1
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3100         "en": "Nyk\u00f6ping"
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3107     "KommunID": "37",
3108     "LarosateID": -1
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3113         "en": "Öxel\u00f6sund"
3114     },
3115     "Beskrivning": {},
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3120     "KommunID": "38",
3121     "LarosateID": -1
3122 },
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3126         "en": "Flen"
3127     },
3128     "Beskrivning": {},
3129     "Dolt": false,
3130     "Giltighetsperiod": {},
3131     "ID": "46",
3132     "Kod": "T0744",
3133     "KommunID": "39",
3134     "LarosateID": -1
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3139         "en": "H\u00f6gsby"
3140     },
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3152         "en": "Tors\u00e5s"
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3155     "Dolt": false,
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3159     "KommunID": "79",
3160     "LarosateID": -1
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3165         "en": "F\u00e4rjestaden"
3166     },
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3178         "en": "M\u00f6rbyl\u00e4nga"
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3230         "en": "Emmaboda"
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3235     "ID": "100",
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3243         "en": "Kalmar"
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3269         "en": "Oskarshamn"
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3289     "KommunID": "87",
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3295         "en": "V\u00e4stervik"
3296     },
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3308         "en": "Vimmerby"
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3335     },
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3345     "Benamning": {
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3347         "en": "Olofstr\u00f6m"
3348     },
3349     "Beskrivning": {},
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3361     },
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3386         "en": "Karlshamn"
3387     },
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3393     "KommunID": "94",
3394     "LarosateID": -1
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3396 {
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3399         "en": "S\u00f6lvesborg"
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3412         "en": "Sval\u00f6"
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3438         "en": "Klippan"
3439     },
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3491         },
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3527         "Benamning": {
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3529             "en": "H\u00f6gan\u00e4s"
3530         },
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3543         },
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3545         "Dolt": false,
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3549         "KommunID": "122",
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3563     "LarosateID": -1
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3571     "Dolt": false,
3572     "Giltighetsperiod": {},
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3581         "en": "Kristianstad"
3582     },
3583     "Beskrivning": {},
3584     "Dolt": false,
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3588     "KommunID": "125",
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3594         "en": "Tollarp"
3595     },
3596     "Beskrivning": {},
3597     "Dolt": false,
3598     "Giltighetsperiod": {},
3599     "ID": "151",
3600     "Kod": "T3108",
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3607         "en": "\u00c5hus"
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3614     "KommunID": "125",
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3620         "en": "Simrishamn"
3621     },
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3623     "Dolt": false,
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3626     "Kod": "T3060",
3627     "KommunID": "126",
3628     "LarosateID": -1
3629 },
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3633         "en": "\u00c4ngelholm"
3634     },
3635     "Beskrivning": {},
3636     "Dolt": false,
3637     "Giltighetsperiod": {},
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3640     "KommunID": "127",
3641     "LarosateID": -1
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3643 {
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3646         "en": "H\u00e4ssleholm"
3647     },
3648     "Beskrivning": {},
3649     "Dolt": false,
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3651     "ID": "155",

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3654     "LarosateID": -1
3655 },
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3659         "en": "Tyringe"
3660     },
3661     "Beskrivning": {},
3662     "Dolt": false,
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3665     "Kod": "T3128",
3666     "KommunID": "128",
3667     "LarosateID": -1
3668 },
3669 {
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3671         "sv": "Hyltebruk",
3672         "en": "Hyltebruk"
3673     },
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3675     "Dolt": false,
3676     "Giltighetsperiod": {},
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3679     "KommunID": "129",
3680     "LarosateID": -1
3681 },
3682 {
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3685         "en": "Nossebro"
3686     },
3687     "Beskrivning": {},
3688     "Dolt": false,
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3691     "Kod": "T5388",
3692     "KommunID": "151",
3693     "LarosateID": -1
3694 },
3695 {
3696     "Benamning": {
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3698         "en": "Karlsborg"
3699     },
3700     "Beskrivning": {},
3701     "Dolt": false,
3702     "Giltighetsperiod": {},
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3705     "KommunID": "152",
3706     "LarosateID": -1
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3711         "en": "Hova"
3712     },
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3714     "Dolt": false,
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3718     "KommunID": "153",
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3724         "en": "Tranemo"
3725     },
3726     "Beskrivning": {},
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3731     "KommunID": "154",
3732     "LarosateID": -1
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3737         "en": "Bengtsfors"
3738     },
3739     "Beskrivning": {},
3740     "Dolt": false,
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3744     "KommunID": "155",
3745     "LarosateID": -1
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3747 {
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3750         "en": "Mellerud"
3751     },
3752     "Beskrivning": {},
3753     "Dolt": false,
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3757     "KommunID": "156",
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3762         "sv": "Lilla Edet",
3763         "en": "Lilla Edet"
3764     },
3765     "Beskrivning": {},
3766     "Dolt": false,
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3770     "KommunID": "157",
3771     "LarosateID": -1
3772 },
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3775         "sv": "Kinna",
3776         "en": "Kinna"
3777     },
3778     "Beskrivning": {},
3779     "Dolt": false,
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3781     "ID": "188",
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3783     "KommunID": "158",
3784     "LarosateID": -1
3785 },
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3789         "en": "Svenljunga"
3790     },
3791     "Beskrivning": {},
3792     "Dolt": false,
3793     "Giltighetsperiod": {},
3794     "ID": "189",
3795     "Kod": "T5060",
3796     "KommunID": "159",
3797     "LarosateID": -1
3798 },
3799 {
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3801         "sv": "Herrljunga",
3802         "en": "Herrljunga"
3803     },
3804     "Beskrivning": {},
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3815         "en": "Vara"
3816     },
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3828         "en": "G\u00f6tene"
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3841         "en": "Tibro"
3842     },
3843     "Beskrivning": {},
3844     "Dolt": false,
3845     "Giltighetsperiod": {},
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3847     "Kod": "T5456",
3848     "KommunID": "163",
3849     "LarosateID": -1
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3851 {
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3854         "en": "T\u00f6reboda"
3855     },

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3861     "KommunID": "164",
3862     "LarosateID": -1
3863 },
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3867         "en": "G\u00f6teborg"
3868     },
3869     "Beskrivning": {},
3870     "Dolt": false,
3871     "Giltighetsperiod": {},
3872     "ID": "195",
3873     "Kod": "T4368",
3874     "KommunID": "165",
3875     "LarosateID": -1
3876 },
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3881     },
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3887     "KommunID": "166",
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3889 },
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3919         "en": "Uddevalla"
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3932         "en": "Str\u00f6mstad"
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3935     "Dolt": false,
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3940     "LarosateID": -1
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3945         "en": "V\u00e4nersborg"
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3956     "Benamning": {
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4154         },
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4161         "LarosateID": -1

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4192             "en": "Skinnskatteberg"
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4212         "KommunID": "213",
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4219     },
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4231         "en": "Hallstahammar"
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4244         "en": "Norberg"
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4251     "KommunID": "216",
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4283         "en": "Vindeln"
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4285     "Beskrivning": {},
4286     "Dolt": false,
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4290     "KommunID": "264",
4291     "LarosateID": -1
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4296         "en": "Robertsfors"
4297     },
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4303     "KommunID": "265",
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4305 },
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4309         "en": "Norsj\u00f6"
4310     },
4311     "Beskrivning": {},
4312     "Dolt": false,
4313     "Giltighetsperiod": {},
4314     "ID": "298",

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4317     "LarosateID": -1
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4322         "en": "Mal\u00e5"
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4329     "KommunID": "267",
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4335         "en": "Storuman"
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4342     "KommunID": "268",
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4348         "en": "Sorsele"
4349     },
4350     "Beskrivning": {},
4351     "Dolt": false,
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4354     "Kod": "T8316",
4355     "KommunID": "269",
4356     "LarosateID": -1
4357 },
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4361         "en": "Dorotea"
4362     },
4363     "Beskrivning": {},
4364     "Dolt": false,
4365     "Giltighetsperiod": {},
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4377     "Dolt": false,
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4381     "KommunID": "271",
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4387         "en": "Vilhelmina"
4388     },
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4395     "LarosateID": -1
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4400         "en": "\u00c5sele"
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4414     },
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4416     "Dolt": false,
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4426         "en": "Lycksele"
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4432     "Kod": "T8232",
4433     "KommunID": "275",
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4439         "en": "Burtr\u00e4sk"
4440     },
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4443     "Giltighetsperiod": {},
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4446     "KommunID": "276",
4447     "LarosateID": -1
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4452         "en": "Byske"
4453     },
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4455     "Dolt": false,
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4461 },
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4465         "en": "J\u00f6rn"
4466     },
4467     "Beskrivning": {},
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4478         "en": "L\u00f6v\u00e5nger"
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4491         "en": "Skellefte\u00e5"
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4504         "en": "Arvidsjaur"
4505     },
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4517         "en": "Arjeplog"
4518     },
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4530         "en": "Jokkmokk"
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4543         "en": "\u00d6verkalix"
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4550     "KommunID": "280",
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4556         "en": "Kalix"
4557     },
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4559     "Dolt": false,
4560     "Giltighetsperiod": {},
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4562     "Kod": "T8656",
4563     "KommunID": "281",
4564     "LarosateID": -1
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4569         "en": "\u00d6vertorne\u00e5"

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4587     "ID": "107710",
4588     "Kod": "T1336",
4589     "KommunID": "45",
4590     "LarosateID": -1
4591 },
4592 {
4593     "Benamning": {
4594         "sv": "Stockholm (Huddinge)",
4595         "en": "Stockholm (Huddinge)"
4596     },
4597     "Beskrivning": {},
4598     "Dolt": false,
4599     "Giltighetsperiod": {},
4600     "ID": "109830",
4601     "Kod": "L0126",
4602     "KommunID": "7",
4603     "LarosateID": -1
4604 },
4605 {
4606     "Benamning": {
4607         "sv": "Stockholm (Botkyrka)",
4608         "en": "Stockholm (Botkyrka)"
4609     },
4610     "Beskrivning": {},
4611     "Dolt": false,
4612     "Giltighetsperiod": {},
4613     "ID": "110990",
4614     "Kod": "L0127",
4615     "KommunID": "8",
4616     "LarosateID": -1
4617 },
4618 {
4619     "Benamning": {
4620         "sv": "Stockholm (Haninge)",
```

```

4621         "en": "Stockholm (Haninge)"
4622     },
4623     "Beskrivning": {},
4624     "Dolt": false,
4625     "Giltighetsperiod": {},
4626     "ID": "110991",
4627     "Kod": "L0136",
4628     "KommunID": "10",
4629     "LarosateID": -1
4630 },
4631 {
4632     "Benamning": {
4633         "sv": "Knivsta",
4634         "en": "Knivsta"
4635     },
4636     "Beskrivning": {},
4637     "Dolt": false,
4638     "Giltighetsperiod": {},
4639     "ID": "135292",
4640     "Kod": "T0576",
4641     "KommunID": "29",
4642     "LarosateID": -1
4643 },
4644 {
4645     "Benamning": {
4646         "sv": "F\u00e5r\u00f6sund",
4647         "en": "F\u00e5r\u00f6sund"
4648     },
4649     "Beskrivning": {},
4650     "Dolt": false,
4651     "Giltighetsperiod": {},
4652     "ID": "135293",
4653     "Kod": "T2504",
4654     "KommunID": "90",
4655     "LarosateID": -1
4656 }
4657 ]
4658 }

```

## 20.7 kommuner\_JSON

```

795 <LadokSession data methods 151b>+=
    # added by GQMJr
    def kommuner_JSON(self) -> dict:
        """
        Returns a dictionary of Swedish municipalities.
        """
        r = self.session.get(
            url=self.base_gui_proxy_url + '/kataloginformation/internal/grunddata/kommun',
            headers=self.headers).json()

```

```
return r
```

Let's add a test. This should return a dictionary.

```
796 <test functions 151a>+=
def test_kommuner_JSON() -> None:
    r = ladok.kommuner_JSON()
    assert type(r) == dict
```

This code is used in chunk 146.

The output looks like this:

```
1 {
2   "Kommun": [
3     {
4       "Benamning": {
5         "sv": "Lessebo",
6         "en": "Lessebo"
7       },
8       "Beskrivning": {},
9       "Dolt": false,
10      "Giltighetsperiod": {},
11      "ID": "71",
12      "Kod": "0761",
13      "LanID": 6,
14      "LarosateID": -1
15    },
16    {
17      "Benamning": {
18        "sv": "Tingsryd",
19        "en": "Tingsryd"
20      },
21      "Beskrivning": {},
22      "Dolt": false,
23      "Giltighetsperiod": {},
24      "ID": "72",
25      "Kod": "0763",
26      "LanID": 6,
27      "LarosateID": -1
28    },
29    {
30      "Benamning": {
31        "sv": "Alvesta",
32        "en": "Alvesta"
33      },
34      "Beskrivning": {},
35      "Dolt": false,
36      "Giltighetsperiod": {},
37      "ID": "73",
38      "Kod": "0764",
39      "LanID": 6,
40      "LarosateID": -1
41    },
42  ],
43 }
```

```
42     {
43         "Benamning": {
44             "sv": "\u00c4lmhult",
45             "en": "\u00c4lmhult"
46         },
47         "Beskrivning": {},
48         "Dolt": false,
49         "Giltighetsperiod": {},
50         "ID": "74",
51         "Kod": "0765",
52         "LanID": 6,
53         "LarosateID": -1
54     },
55     {
56         "Benamning": {
57             "sv": "Markaryd",
58             "en": "Markaryd"
59         },
60         "Beskrivning": {},
61         "Dolt": false,
62         "Giltighetsperiod": {},
63         "ID": "75",
64         "Kod": "0767",
65         "LanID": 6,
66         "LarosateID": -1
67     },
68     {
69         "Benamning": {
70             "sv": "V\u00e4xjö",
71             "en": "V\u00e4xjö"
72         },
73         "Beskrivning": {},
74         "Dolt": false,
75         "Giltighetsperiod": {},
76         "ID": "76",
77         "Kod": "0780",
78         "LanID": 6,
79         "LarosateID": -1
80     },
81     {
82         "Benamning": {
83             "sv": "Ljungby",
84             "en": "Ljungby"
85         },
86         "Beskrivning": {},
87         "Dolt": false,
88         "Giltighetsperiod": {},
89         "ID": "77",
90         "Kod": "0781",
91         "LanID": 6,
92         "LarosateID": -1
```

```
93     },
94     {
95         "Benamning": {
96             "sv": "H\u00f6gsby",
97             "en": "H\u00f6gsby"
98         },
99         "Beskrivning": {},
100         "Dolt": false,
101         "Giltighetsperiod": {},
102         "ID": "78",
103         "Kod": "0821",
104         "LanID": 7,
105         "LarosateID": -1
106     },
107     {
108         "Benamning": {
109             "sv": "Tors\u00e5s",
110             "en": "Tors\u00e5s"
111         },
112         "Beskrivning": {},
113         "Dolt": false,
114         "Giltighetsperiod": {},
115         "ID": "79",
116         "Kod": "0834",
117         "LanID": 7,
118         "LarosateID": -1
119     },
120     {
121         "Benamning": {
122             "sv": "M\u00f6rbyl\u00e5nga",
123             "en": "M\u00f6rbyl\u00e5nga"
124         },
125         "Beskrivning": {},
126         "Dolt": false,
127         "Giltighetsperiod": {},
128         "ID": "80",
129         "Kod": "0840",
130         "LanID": 7,
131         "LarosateID": -1
132     },
133     {
134         "Benamning": {
135             "sv": "Hultsfred",
136             "en": "Hultsfred"
137         },
138         "Beskrivning": {},
139         "Dolt": false,
140         "Giltighetsperiod": {},
141         "ID": "81",
142         "Kod": "0860",
143         "LanID": 7,
```

```

144     "LarosateID": -1
145 },
146 {
147     "Benamning": {
148         "sv": "M\u00f6nster\u00e5s",
149         "en": "M\u00f6nster\u00e5s"
150     },
151     "Beskrivning": {},
152     "Dolt": false,
153     "Giltighetsperiod": {},
154     "ID": "82",
155     "Kod": "0861",
156     "LanID": 7,
157     "LarosateID": -1
158 },
159 {
160     "Benamning": {
161         "sv": "Emmaboda",
162         "en": "Emmaboda"
163     },
164     "Beskrivning": {},
165     "Dolt": false,
166     "Giltighetsperiod": {},
167     "ID": "83",
168     "Kod": "0862",
169     "LanID": 7,
170     "LarosateID": -1
171 },
172 {
173     "Benamning": {
174         "sv": "Kalmar",
175         "en": "Kalmar"
176     },
177     "Beskrivning": {},
178     "Dolt": false,
179     "Giltighetsperiod": {},
180     "ID": "84",
181     "Kod": "0880",
182     "LanID": 7,
183     "LarosateID": -1
184 },
185 {
186     "Benamning": {
187         "sv": "Skara",
188         "en": "Skara"
189     },
190     "Beskrivning": {},
191     "Dolt": false,
192     "Giltighetsperiod": {},
193     "ID": "179",
194     "Kod": "1495",

```

```
195     "LanID": 12,
196     "LarosateID": -1
197 },
198 {
199     "Benamning": {
200         "sv": "Sk\u00f6vde",
201         "en": "Sk\u00f6vde"
202     },
203     "Beskrivning": {},
204     "Dolt": false,
205     "Giltighetsperiod": {},
206     "ID": "180",
207     "Kod": "1496",
208     "LanID": 12,
209     "LarosateID": -1
210 },
211 {
212     "Benamning": {
213         "sv": "Hjo",
214         "en": "Hjo"
215     },
216     "Beskrivning": {},
217     "Dolt": false,
218     "Giltighetsperiod": {},
219     "ID": "181",
220     "Kod": "1497",
221     "LanID": 12,
222     "LarosateID": -1
223 },
224 {
225     "Benamning": {
226         "sv": "Tidaholm",
227         "en": "Tidaholm"
228     },
229     "Beskrivning": {},
230     "Dolt": false,
231     "Giltighetsperiod": {},
232     "ID": "182",
233     "Kod": "1498",
234     "LanID": 12,
235     "LarosateID": -1
236 },
237 {
238     "Benamning": {
239         "sv": "Falk\u00f6ping",
240         "en": "Falk\u00f6ping"
241     },
242     "Beskrivning": {},
243     "Dolt": false,
244     "Giltighetsperiod": {},
245     "ID": "183",
```

```
246     "Kod": "1499",
247     "LanID": 12,
248     "LarosateID": -1
249 },
250 {
251     "Benamning": {
252         "sv": "Kil",
253         "en": "Kil"
254     },
255     "Beskrivning": {},
256     "Dolt": false,
257     "Giltighetsperiod": {},
258     "ID": "184",
259     "Kod": "1715",
260     "LanID": 13,
261     "LarosateID": -1
262 },
263 {
264     "Benamning": {
265         "sv": "Eda",
266         "en": "Eda"
267     },
268     "Beskrivning": {},
269     "Dolt": false,
270     "Giltighetsperiod": {},
271     "ID": "185",
272     "Kod": "1730",
273     "LanID": 13,
274     "LarosateID": -1
275 },
276 {
277     "Benamning": {
278         "sv": "Torsby",
279         "en": "Torsby"
280     },
281     "Beskrivning": {},
282     "Dolt": false,
283     "Giltighetsperiod": {},
284     "ID": "186",
285     "Kod": "1737",
286     "LanID": 13,
287     "LarosateID": -1
288 },
289 {
290     "Benamning": {
291         "sv": "Storfors",
292         "en": "Storfors"
293     },
294     "Beskrivning": {},
295     "Dolt": false,
296     "Giltighetsperiod": {},
```



```
297     "ID": "187",
298     "Kod": "1760",
299     "LanID": 13,
300     "LarosateID": -1
301 },
302 {
303     "Benamning": {
304         "sv": "Hammar\u00f6",
305         "en": "Hammar\u00f6"
306     },
307     "Beskrivning": {},
308     "Dolt": false,
309     "Giltighetsperiod": {},
310     "ID": "188",
311     "Kod": "1761",
312     "LanID": 13,
313     "LarosateID": -1
314 },
315 {
316     "Benamning": {
317         "sv": "Munkfors",
318         "en": "Munkfors"
319     },
320     "Beskrivning": {},
321     "Dolt": false,
322     "Giltighetsperiod": {},
323     "ID": "189",
324     "Kod": "1762",
325     "LanID": 13,
326     "LarosateID": -1
327 },
328 {
329     "Benamning": {
330         "sv": "Forshaga",
331         "en": "Forshaga"
332     },
333     "Beskrivning": {},
334     "Dolt": false,
335     "Giltighetsperiod": {},
336     "ID": "190",
337     "Kod": "1763",
338     "LanID": 13,
339     "LarosateID": -1
340 },
341 {
342     "Benamning": {
343         "sv": "Grums",
344         "en": "Grums"
345     },
346     "Beskrivning": {},
347     "Dolt": false,
```

```
348     "Giltighetsperiod": {},
349     "ID": "191",
350     "Kod": "1764",
351     "LanID": 13,
352     "LarosateID": -1
353 },
354 {
355     "Benamning": {
356         "sv": "\u00c5rj\u00e4ng",
357         "en": "\u00c5rj\u00e4ng"
358     },
359     "Beskrivning": {},
360     "Dolt": false,
361     "Giltighetsperiod": {},
362     "ID": "192",
363     "Kod": "1765",
364     "LanID": 13,
365     "LarosateID": -1
366 },
367 {
368     "Benamning": {
369         "sv": "Hedemora",
370         "en": "Hedemora"
371     },
372     "Beskrivning": {},
373     "Dolt": false,
374     "Giltighetsperiod": {},
375     "ID": "234",
376     "Kod": "2083",
377     "LanID": 16,
378     "LarosateID": -1
379 },
380 {
381     "Benamning": {
382         "sv": "Avesta",
383         "en": "Avesta"
384     },
385     "Beskrivning": {},
386     "Dolt": false,
387     "Giltighetsperiod": {},
388     "ID": "235",
389     "Kod": "2084",
390     "LanID": 16,
391     "LarosateID": -1
392 },
393 {
394     "Benamning": {
395         "sv": "Ludvika",
396         "en": "Ludvika"
397     },
398     "Beskrivning": {},
```

```
399     "Dolt": false,
400     "Giltighetsperiod": {},
401     "ID": "236",
402     "Kod": "2085",
403     "LanID": 16,
404     "LarosateID": -1
405 },
406 {
407     "Benamning": {
408         "sv": "Ockelbo",
409         "en": "Ockelbo"
410     },
411     "Beskrivning": {},
412     "Dolt": false,
413     "Giltighetsperiod": {},
414     "ID": "237",
415     "Kod": "2101",
416     "LanID": 17,
417     "LarosateID": -1
418 },
419 {
420     "Benamning": {
421         "sv": "Hofors",
422         "en": "Hofors"
423     },
424     "Beskrivning": {},
425     "Dolt": false,
426     "Giltighetsperiod": {},
427     "ID": "238",
428     "Kod": "2104",
429     "LanID": 17,
430     "LarosateID": -1
431 },
432 {
433     "Benamning": {
434         "sv": "Ovan\u00e5ker",
435         "en": "Ovan\u00e5ker"
436     },
437     "Beskrivning": {},
438     "Dolt": false,
439     "Giltighetsperiod": {},
440     "ID": "239",
441     "Kod": "2121",
442     "LanID": 17,
443     "LarosateID": -1
444 },
445 {
446     "Benamning": {
447         "sv": "Nordanstig",
448         "en": "Nordanstig"
449     },
```

```

450     "Beskrivning": {},
451     "Dolt": false,
452     "Giltighetsperiod": {},
453     "ID": "240",
454     "Kod": "2132",
455     "LanID": 17,
456     "LarosateID": -1
457 },
458 {
459     "Benamning": {
460         "sv": "Ljusdal",
461         "en": "Ljusdal"
462     },
463     "Beskrivning": {},
464     "Dolt": false,
465     "Giltighetsperiod": {},
466     "ID": "241",
467     "Kod": "2161",
468     "LanID": 17,
469     "LarosateID": -1
470 },
471 {
472     "Benamning": {
473         "sv": "G\u00e4vle",
474         "en": "G\u00e4vle"
475     },
476     "Beskrivning": {},
477     "Dolt": false,
478     "Giltighetsperiod": {},
479     "ID": "242",
480     "Kod": "2180",
481     "LanID": 17,
482     "LarosateID": -1
483 },
484 {
485     "Benamning": {
486         "sv": "Sandviken",
487         "en": "Sandviken"
488     },
489     "Beskrivning": {},
490     "Dolt": false,
491     "Giltighetsperiod": {},
492     "ID": "243",
493     "Kod": "2181",
494     "LanID": 17,
495     "LarosateID": -1
496 },
497 {
498     "Benamning": {
499         "sv": "S\u00f6derhamn",
500         "en": "S\u00f6derhamn"

```

```
501     },
502     "Beskrivning": {},
503     "Dolt": false,
504     "Giltighetsperiod": {},
505     "ID": "244",
506     "Kod": "2182",
507     "LanID": 17,
508     "LarosateID": -1
509 },
510 {
511     "Benamning": {
512         "sv": "Bolln\u00e4s",
513         "en": "Bolln\u00e4s"
514     },
515     "Beskrivning": {},
516     "Dolt": false,
517     "Giltighetsperiod": {},
518     "ID": "245",
519     "Kod": "2183",
520     "LanID": 17,
521     "LarosateID": -1
522 },
523 {
524     "Benamning": {
525         "sv": "Hudiksvall",
526         "en": "Hudiksvall"
527     },
528     "Beskrivning": {},
529     "Dolt": false,
530     "Giltighetsperiod": {},
531     "ID": "246",
532     "Kod": "2184",
533     "LanID": 17,
534     "LarosateID": -1
535 },
536 {
537     "Benamning": {
538         "sv": "\u00c5nge",
539         "en": "\u00c5nge"
540     },
541     "Beskrivning": {},
542     "Dolt": false,
543     "Giltighetsperiod": {},
544     "ID": "247",
545     "Kod": "2260",
546     "LanID": 18,
547     "LarosateID": -1
548 },
549 {
550     "Benamning": {
551         "sv": "Kiruna",
```

```

552     "en": "Kiruna"
553 },
554 "Beskrivning": {},
555 "Dolt": false,
556 "Giltighetsperiod": {},
557 "ID": "290",
558 "Kod": "2584",
559 "LanID": 21,
560 "LarosateID": -1
561 },
562 {
563   "Benamning": {
564     "sv": "Upplands V\u00e4sby",
565     "en": "Upplands V\u00e4sby"
566   },
567   "Beskrivning": {},
568   "Dolt": false,
569   "Giltighetsperiod": {},
570   "ID": "1",
571   "Kod": "0114",
572   "LanID": 1,
573   "LarosateID": -1
574 },
575 {
576   "Benamning": {
577     "sv": "Vallentuna",
578     "en": "Vallentuna"
579   },
580   "Beskrivning": {},
581   "Dolt": false,
582   "Giltighetsperiod": {},
583   "ID": "2",
584   "Kod": "0115",
585   "LanID": 1,
586   "LarosateID": -1
587 },
588 {
589   "Benamning": {
590     "sv": "\u00d6ster\u00e5ker",
591     "en": "\u00d6ster\u00e5ker"
592   },
593   "Beskrivning": {},
594   "Dolt": false,
595   "Giltighetsperiod": {},
596   "ID": "3",
597   "Kod": "0117",
598   "LanID": 1,
599   "LarosateID": -1
600 },
601 {
602   "Benamning": {

```

```
603         "sv": "V\u00e4rmd\u00f6",
604         "en": "V\u00e4rmd\u00f6"
605     },
606     "Beskrivning": {},
607     "Dolt": false,
608     "Giltighetsperiod": {},
609     "ID": "4",
610     "Kod": "0120",
611     "LanID": 1,
612     "LarosateID": -1
613 },
614 {
615     "Benamning": {
616         "sv": "J\u00e4rf\u00e4lla",
617         "en": "J\u00e4rf\u00e4lla"
618     },
619     "Beskrivning": {},
620     "Dolt": false,
621     "Giltighetsperiod": {},
622     "ID": "5",
623     "Kod": "0123",
624     "LanID": 1,
625     "LarosateID": -1
626 },
627 {
628     "Benamning": {
629         "sv": "Eker\u00f6",
630         "en": "Eker\u00f6"
631     },
632     "Beskrivning": {},
633     "Dolt": false,
634     "Giltighetsperiod": {},
635     "ID": "6",
636     "Kod": "0125",
637     "LanID": 1,
638     "LarosateID": -1
639 },
640 {
641     "Benamning": {
642         "sv": "Huddinge",
643         "en": "Huddinge"
644     },
645     "Beskrivning": {},
646     "Dolt": false,
647     "Giltighetsperiod": {},
648     "ID": "7",
649     "Kod": "0126",
650     "LanID": 1,
651     "LarosateID": -1
652 },
653 {
```

```

654     "Benamning": {
655         "sv": "Botkyrka",
656         "en": "Botkyrka"
657     },
658     "Beskrivning": {},
659     "Dolt": false,
660     "Giltighetsperiod": {},
661     "ID": "8",
662     "Kod": "0127",
663     "LanID": 1,
664     "LarosateID": -1
665 },
666 {
667     "Benamning": {
668         "sv": "Salem",
669         "en": "Salem"
670     },
671     "Beskrivning": {},
672     "Dolt": false,
673     "Giltighetsperiod": {},
674     "ID": "9",
675     "Kod": "0128",
676     "LanID": 1,
677     "LarosateID": -1
678 },
679 {
680     "Benamning": {
681         "sv": "Haninge",
682         "en": "Haninge"
683     },
684     "Beskrivning": {},
685     "Dolt": false,
686     "Giltighetsperiod": {},
687     "ID": "10",
688     "Kod": "0136",
689     "LanID": 1,
690     "LarosateID": -1
691 },
692 {
693     "Benamning": {
694         "sv": "Tyres\u00f6",
695         "en": "Tyres\u00f6"
696     },
697     "Beskrivning": {},
698     "Dolt": false,
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700     "ID": "11",
701     "Kod": "0138",
702     "LanID": 1,
703     "LarosateID": -1
704 },

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708             "en": "Upplands-Bro"
709         },
710         "Beskrivning": {},
711         "Dolt": false,
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713         "ID": "12",
714         "Kod": "0139",
715         "LanID": 1,
716         "LarosateID": -1
717     },
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721             "en": "Nykvarn"
722         },
723         "Beskrivning": {},
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728         "LanID": 1,
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730     },
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732         "Benamning": {
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734             "en": "T\u00e4by"
735         },
736         "Beskrivning": {},
737         "Dolt": false,
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739         "ID": "14",
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748         },
749         "Beskrivning": {},
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754         "LanID": 1,
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760             "en": "Sollentuna"
761         },
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763         "Dolt": false,
764         "Giltighetsperiod": {},
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766         "Kod": "0163",
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768         "LarosateID": -1
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770     {
771         "Benamning": {
772             "sv": "Stockholm",
773             "en": "Stockholm"
774         },
775         "Beskrivning": {},
776         "Dolt": false,
777         "Giltighetsperiod": {},
778         "ID": "17",
779         "Kod": "0180",
780         "LanID": 1,
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783     {
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787         },
788         "Beskrivning": {},
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791         "ID": "18",
792         "Kod": "0181",
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797         "Benamning": {
798             "sv": "Nacka",
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800         },
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802         "Dolt": false,
803         "Giltighetsperiod": {},
804         "ID": "19",
805         "Kod": "0182",
806         "LanID": 1,

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839     },
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852     },
853     "Beskrivning": {},
854     "Dolt": false,
855     "Giltighetsperiod": {},
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864         "en": "Norrt\u00e4lje"
865     },
866     "Beskrivning": {},
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872     "LarosateID": -1
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875     "Benamning": {
876         "sv": "Sigtuna",
877         "en": "Sigtuna"
878     },
879     "Beskrivning": {},
880     "Dolt": false,
881     "Giltighetsperiod": {},
882     "ID": "25",
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884     "LanID": 1,
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886 },
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890         "en": "Nyn\u00e4shamn"
891     },
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893     "Dolt": false,
894     "Giltighetsperiod": {},
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898     "LarosateID": -1
899 },
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903         "en": "H\u00e4bo"
904     },
905     "Beskrivning": {},
906     "Dolt": false,
907     "Giltighetsperiod": {},
908     "ID": "27",
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910     "LanID": 2,
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912 },
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916         "en": "\u00c4lvkarleby"
917     },
918     "Beskrivning": {},
919     "Dolt": false,
920     "Giltighetsperiod": {},
921     "ID": "28",
922     "Kod": "0319",
923     "LanID": 2,
924     "LarosateID": -1
925 },
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927     "Benamning": {
928         "sv": "Aneby",
929         "en": "Aneby"
930     },
931     "Beskrivning": {},
932     "Dolt": false,
933     "Giltighetsperiod": {},
934     "ID": "57",
935     "Kod": "0604",
936     "LanID": 5,
937     "LarosateID": -1
938 },
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940     "Benamning": {
941         "sv": "Gnosj\u00f6",
942         "en": "Gnosj\u00f6"
943     },
944     "Beskrivning": {},
945     "Dolt": false,
946     "Giltighetsperiod": {},
947     "ID": "58",
948     "Kod": "0617",
949     "LanID": 5,
950     "LarosateID": -1
951 },
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953     "Benamning": {
954         "sv": "Mullsj\u00f6",
955         "en": "Mullsj\u00f6"
956     },
957     "Beskrivning": {
958         "sv": "\u00d6verf\u00f6rd fr\u00e5n Skaraborgs till J\u00f6nk\u00f6pings l\u00e4n"
959     },

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962         "Startdatum": "1998-01-01"
963     },
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970     "Benamning": {
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972         "en": "Habo"
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974     "Beskrivning": {
975         "sv": "\u00d6verf\u00f6rd fr\u00e5n Skaraborgs till J\u00f6nk\u00f6pings l\u00e4n"
976     },
977     "Dolt": false,
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979         "Startdatum": "1998-01-01"
980     },
981     "ID": "60",
982     "Kod": "0643",
983     "LanID": 5,
984     "LarosateID": -1
985 },
986 {
987     "Benamning": {
988         "sv": "Gislaved",
989         "en": "Gislaved"
990     },
991     "Beskrivning": {},
992     "Dolt": false,
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994     "ID": "61",
995     "Kod": "0662",
996     "LanID": 5,
997     "LarosateID": -1
998 },
999 {
1000     "Benamning": {
1001         "sv": "Vaggeryd",
1002         "en": "Vaggeryd"
1003     },
1004     "Beskrivning": {},
1005     "Dolt": false,
1006     "Giltighetsperiod": {},
1007     "ID": "62",
1008     "Kod": "0665",
1009     "LanID": 5,
1010     "LarosateID": -1

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1011 },
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1014         "sv": "J\u00f6nk\u00f6ping",
1015         "en": "J\u00f6nk\u00f6ping"
1016     },
1017     "Beskrivning": {},
1018     "Dolt": false,
1019     "Giltighetsperiod": {},
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1021     "Kod": "0680",
1022     "LanID": 5,
1023     "LarosateID": -1
1024 },
1025 {
1026     "Benamning": {
1027         "sv": "N\u00e4ssj\u00f6",
1028         "en": "N\u00e4ssj\u00f6"
1029     },
1030     "Beskrivning": {},
1031     "Dolt": false,
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1039     "Benamning": {
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1041         "en": "V\u00e4rnamo"
1042     },
1043     "Beskrivning": {},
1044     "Dolt": false,
1045     "Giltighetsperiod": {},
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1047     "Kod": "0683",
1048     "LanID": 5,
1049     "LarosateID": -1
1050 },
1051 {
1052     "Benamning": {
1053         "sv": "S\u00e4vsj\u00f6",
1054         "en": "S\u00e4vsj\u00f6"
1055     },
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1057     "Dolt": false,
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1059     "ID": "66",
1060     "Kod": "0684",
1061     "LanID": 5,

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1063 },
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1066         "sv": "Vetlanda",
1067         "en": "Vetlanda"
1068     },
1069     "Beskrivning": {},
1070     "Dolt": false,
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1073     "Kod": "0685",
1074     "LanID": 5,
1075     "LarosateID": -1
1076 },
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1079         "sv": "Eksj\u00f6",
1080         "en": "Eksj\u00f6"
1081     },
1082     "Beskrivning": {},
1083     "Dolt": false,
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1086     "Kod": "0686",
1087     "LanID": 5,
1088     "LarosateID": -1
1089 },
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1092         "sv": "Tran\u00e5s",
1093         "en": "Tran\u00e5s"
1094     },
1095     "Beskrivning": {},
1096     "Dolt": false,
1097     "Giltighetsperiod": {},
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1101     "LarosateID": -1
1102 },
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1105         "sv": "Uppvidinge",
1106         "en": "Uppvidinge"
1107     },
1108     "Beskrivning": {},
1109     "Dolt": false,
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1111     "ID": "70",
1112     "Kod": "0760",

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1114     "LarosateID": -1
1115 },
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1119         "en": "Nybro"
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1121     "Beskrivning": {},
1122     "Dolt": false,
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1124     "ID": "85",
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1126     "LanID": 7,
1127     "LarosateID": -1
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1129 {
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1131         "sv": "Oskarshamn",
1132         "en": "Oskarshamn"
1133     },
1134     "Beskrivning": {},
1135     "Dolt": false,
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1141 },
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1145         "en": "V\u00e4stervik"
1146     },
1147     "Beskrivning": {},
1148     "Dolt": false,
1149     "Giltighetsperiod": {},
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1151     "Kod": "0883",
1152     "LanID": 7,
1153     "LarosateID": -1
1154 },
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1158         "en": "Vimmerby"
1159     },
1160     "Beskrivning": {},
1161     "Dolt": false,
1162     "Giltighetsperiod": {},
1163     "ID": "88",

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1166     "LarosateID": -1
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1171         "en": "Borgholm"
1172     },
1173     "Beskrivning": {},
1174     "Dolt": false,
1175     "Giltighetsperiod": {},
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1178     "LanID": 7,
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1184         "en": "Gotland"
1185     },
1186     "Beskrivning": {},
1187     "Dolt": false,
1188     "Giltighetsperiod": {},
1189     "ID": "90",
1190     "Kod": "0980",
1191     "LanID": 8,
1192     "LarosateID": -1
1193 },
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1196         "sv": "Olofstr\u00f6m",
1197         "en": "Olofstr\u00f6m"
1198     },
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1204     "LanID": 9,
1205     "LarosateID": -1
1206 },
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1209         "sv": "Karlskrona",
1210         "en": "Karlskrona"
1211     },
1212     "Beskrivning": {},
1213     "Dolt": false,
1214     "Giltighetsperiod": {},
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1223         "en": "Ronneby"
1224     },
1225     "Beskrivning": {},
1226     "Dolt": false,
1227     "Giltighetsperiod": {},
1228     "ID": "93",
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1232 },
1233 {
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1236         "en": "Karlshamn"
1237     },
1238     "Beskrivning": {},
1239     "Dolt": false,
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1243     "LanID": 9,
1244     "LarosateID": -1
1245 },
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1247     "Benamning": {
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1249         "en": "S\u00f6lvesborg"
1250     },
1251     "Beskrivning": {},
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1257     "LarosateID": -1
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1261         "sv": "Sval\u00f6",
1262         "en": "Sval\u00f6"
1263     },
1264     "Beskrivning": {},
1265     "Dolt": false,

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1288         "en": "Burl\u00f6v"
1289     },
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1291     "Dolt": false,
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1296     "LarosateID": -1
1297 },
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1301         "en": "Perstorp"
1302     },
1303     "Beskrivning": {},
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1310 },
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1313         "sv": "Klippan",
1314         "en": "Klippan"
1315     },
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1323 },
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1327         "en": "\u00c5storp"
1328     },
1329     "Beskrivning": {},
1330     "Dolt": false,
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1340         "en": "B\u00e5stad"
1341     },
1342     "Beskrivning": {},
1343     "Dolt": false,
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1345     "ID": "116",
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1347     "LanID": 10,
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1349 },
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1353         "en": "Malm\u00f6"
1354     },
1355     "Beskrivning": {},
1356     "Dolt": false,
1357     "Giltighetsperiod": {},
1358     "ID": "117",
1359     "Kod": "1280",
1360     "LanID": 10,
1361     "LarosateID": -1
1362 },
1363 {
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1365         "sv": "Lund",
1366         "en": "Lund"
1367     },

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1370     "Giltighetsperiod": {},
1371     "ID": "118",
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1374     "LarosateID": -1
1375 },
1376 {
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1379         "en": "Landskrona"
1380     },
1381     "Beskrivning": {},
1382     "Dolt": false,
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1387     "LarosateID": -1
1388 },
1389 {
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1391         "sv": "Helsingborg",
1392         "en": "Helsingborg"
1393     },
1394     "Beskrivning": {},
1395     "Dolt": false,
1396     "Giltighetsperiod": {},
1397     "ID": "120",
1398     "Kod": "1283",
1399     "LanID": 10,
1400     "LarosateID": -1
1401 },
1402 {
1403     "Benamning": {
1404         "sv": "H\u00f6gan\u00e4s",
1405         "en": "H\u00f6gan\u00e4s"
1406     },
1407     "Beskrivning": {},
1408     "Dolt": false,
1409     "Giltighetsperiod": {},
1410     "ID": "121",
1411     "Kod": "1284",
1412     "LanID": 10,
1413     "LarosateID": -1
1414 },
1415 {
1416     "Benamning": {
1417         "sv": "Esl\u00f6v",
1418         "en": "Esl\u00f6v"
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1421     "Dolt": false,
1422     "Giltighetsperiod": {},
1423     "ID": "122",
1424     "Kod": "1285",
1425     "LanID": 10,
1426     "LarosateID": -1
1427 },
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1429     "Benamning": {
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1432     },
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1434     "Dolt": false,
1435     "Giltighetsperiod": {},
1436     "ID": "123",
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1438     "LanID": 10,
1439     "LarosateID": -1
1440 },
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1479 },
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1483     "en": "Soten\u00e4s"
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1485   "Beskrivning": {},
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1491   "LarosateID": -1
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1496     "en": "Munkedal"
1497   },
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1499   "Dolt": false,
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1503   "LanID": 12,
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1520   "Benamning": {
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1535         "en": "F\u00e4rgelanda"
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1569     "LarosateID": -1
1570 },
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1613         "en": "Essunga"
1614     },
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1639             "en": "Gullsp\u00e5ng"
1640         },
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1647         "LarosateID": -1
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1652             "en": "Tranemo"
1653         },
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1655         "Dolt": false,
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1665             "en": "K\u00f6ping"
1666         },
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1672         "LanID": 15,
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1691             "en": "Vansbro"
1692         },
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1694         "Dolt": false,
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1698         "LanID": 16,
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1704             "en": "Malung-S\u00e4len"
1705         },
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1707         "Dolt": false,
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1711         "LanID": 16,
1712         "LarosateID": -1
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1717             "en": "Gagnef"
1718         },
1719         "Beskrivning": {},
1720         "Dolt": false,
1721         "Giltighetsperiod": {},
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1723         "Kod": "2026",
1724         "LanID": 16,
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1728     "Benamning": {
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1730         "en": "Leksand"
1731     },
1732     "Beskrivning": {},
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1735     "ID": "225",
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1737     "LanID": 16,
1738     "LarosateID": -1
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1743         "en": "R\u00e4ttvik"
1744     },
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1756         "en": "Orsa"
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1759     "Dolt": false,
1760     "Giltighetsperiod": {},
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1763     "LanID": 16,
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1769         "en": "\u00c4lvdalen"
1770     },
1771     "Beskrivning": {},
1772     "Dolt": false,
1773     "Giltighetsperiod": {},
1774     "ID": "228",
1775     "Kod": "2039",
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1777     "LarosateID": -1
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1782         "en": "Smedjebacken"
1783     },
1784     "Beskrivning": {},
1785     "Dolt": false,
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1789     "LanID": 16,
1790     "LarosateID": -1
1791 },
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1793     "Benamning": {
1794         "sv": "Mora",
1795         "en": "Mora"
1796     },
1797     "Beskrivning": {},
1798     "Dolt": false,
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1803     "LarosateID": -1
1804 },
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1807         "sv": "Falun",
1808         "en": "Falun"
1809     },
1810     "Beskrivning": {},
1811     "Dolt": false,
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1815     "LanID": 16,
1816     "LarosateID": -1
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1819     "Benamning": {
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1821         "en": "Borl\u00e4nge"
1822     },
1823     "Beskrivning": {},
1824     "Dolt": false,
1825     "Giltighetsperiod": {},
1826     "ID": "232",

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1830 },
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1834         "en": "S\u00e4ter"
1835     },
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1839     "ID": "233",
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1842     "LarosateID": -1
1843 },
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1847         "en": "Nordmaling"
1848     },
1849     "Beskrivning": {},
1850     "Dolt": false,
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1853     "Kod": "2401",
1854     "LanID": 20,
1855     "LarosateID": -1
1856 },
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1860         "en": "Bjurholm"
1861     },
1862     "Beskrivning": {},
1863     "Dolt": false,
1864     "Giltighetsperiod": {},
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1866     "Kod": "2403",
1867     "LanID": 20,
1868     "LarosateID": -1
1869 },
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1873         "en": "Vindeln"
1874     },
1875     "Beskrivning": {},
1876     "Dolt": false,
1877     "Giltighetsperiod": {},
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1881     "LarosateID": -1
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1886         "en": "Robertsfors"
1887     },
1888     "Beskrivning": {},
1889     "Dolt": false,
1890     "Giltighetsperiod": {},
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1892     "Kod": "2409",
1893     "LanID": 20,
1894     "LarosateID": -1
1895 },
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1899         "en": "Norsj\u00f6"
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1901     "Beskrivning": {},
1902     "Dolt": false,
1903     "Giltighetsperiod": {},
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1906     "LanID": 20,
1907     "LarosateID": -1
1908 },
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1911         "sv": "Mäl\u00e4",
1912         "en": "Mäl\u00e4"
1913     },
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1915     "Dolt": false,
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1921 },
1922 {
1923     "Benamning": {
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1925         "en": "Storuman"
1926     },
1927     "Beskrivning": {},
1928     "Dolt": false,
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1933     "LarosateID": -1
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1937         "sv": "Sorsele",
1938         "en": "Sorsele"
1939     },
1940     "Beskrivning": {},
1941     "Dolt": false,
1942     "Giltighetsperiod": {},
1943     "ID": "269",
1944     "Kod": "2422",
1945     "LanID": 20,
1946     "LarosateID": -1
1947 },
1948 {
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1951         "en": "Dorotea"
1952     },
1953     "Beskrivning": {},
1954     "Dolt": false,
1955     "Giltighetsperiod": {},
1956     "ID": "270",
1957     "Kod": "2425",
1958     "LanID": 20,
1959     "LarosateID": -1
1960 },
1961 {
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1964         "en": "V\u00e4nn\u00e4s"
1965     },
1966     "Beskrivning": {},
1967     "Dolt": false,
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1970     "Kod": "2460",
1971     "LanID": 20,
1972     "LarosateID": -1
1973 },
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1975     "Benamning": {
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1977         "en": "Vilhelmina"
1978     },
1979     "Beskrivning": {},

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1985     "LarosateID": -1
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1990         "en": "\u00c5sele"
1991     },
1992     "Beskrivning": {},
1993     "Dolt": false,
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1997     "LanID": 20,
1998     "LarosateID": -1
1999 },
2000 {
2001     "Benamning": {
2002         "sv": "Ume\u00e5",
2003         "en": "Ume\u00e5"
2004     },
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2006     "Dolt": false,
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2008     "ID": "274",
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2011     "LarosateID": -1
2012 },
2013 {
2014     "Benamning": {
2015         "sv": "Lycksele",
2016         "en": "Lycksele"
2017     },
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2024     "LarosateID": -1
2025 },
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2027     "Benamning": {
2028         "sv": "Knivsta",
2029         "en": "Knivsta"
2030     },

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2040     "Benamning": {
2041         "sv": "Heby",
2042         "en": "Heby"
2043     },
2044     "Beskrivning": {
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2046     },
2047     "Dolt": false,
2048     "Giltighetsperiod": {
2049         "Startdatum": "2007-01-01"
2050     },
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2059         "en": "Tierp"
2060     },
2061     "Beskrivning": {},
2062     "Dolt": false,
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2070     "Benamning": {
2071         "sv": "Uppsala",
2072         "en": "Uppsala"
2073     },
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2079     "LanID": 2,
2080     "LarosateID": -1
2081 },

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2092         "LanID": 2,
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2098             "en": "\u00d6sthammar"
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2111             "en": "Ving\u00f6ker"
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2118         "LanID": 3,
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2124             "en": "Gnesta"
2125         },
2126         "Beskrivning": {},
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2131         "LanID": 3,
2132         "LarosateID": -1
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2137             "en": "Nyk\u00f6ping"
2138         },
2139         "Beskrivning": {},
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2145         "LarosateID": -1
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2147     {
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2150             "en": "Öxel\u00f6sund"
2151         },
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2153         "Dolt": false,
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2155         "ID": "38",
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2158         "LarosateID": -1
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2163             "en": "Flen"
2164         },
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2166         "Dolt": false,
2167         "Giltighetsperiod": {},
2168         "ID": "39",
2169         "Kod": "0482",
2170         "LanID": 3,
2171         "LarosateID": -1
2172     },
2173     {
2174         "Benamning": {
2175             "sv": "Katrineholm",
2176             "en": "Katrineholm"
2177         },
2178         "Beskrivning": {},
2179         "Dolt": false,
2180         "Giltighetsperiod": {},
2181         "ID": "40",
2182         "Kod": "0483",
2183         "LanID": 3,
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2184     "LarosateID": -1
2185 },
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2188         "sv": "Eskilstuna",
2189         "en": "Eskilstuna"
2190     },
2191     "Beskrivning": {},
2192     "Dolt": false,
2193     "Giltighetsperiod": {},
2194     "ID": "41",
2195     "Kod": "0484",
2196     "LanID": 3,
2197     "LarosateID": -1
2198 },
2199 {
2200     "Benamning": {
2201         "sv": "Str\u00e4ngn\u00e4s",
2202         "en": "Str\u00e4ngn\u00e4s"
2203     },
2204     "Beskrivning": {},
2205     "Dolt": false,
2206     "Giltighetsperiod": {},
2207     "ID": "42",
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2209     "LanID": 3,
2210     "LarosateID": -1
2211 },
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2214         "sv": "Vellinge",
2215         "en": "Vellinge"
2216     },
2217     "Beskrivning": {},
2218     "Dolt": false,
2219     "Giltighetsperiod": {},
2220     "ID": "99",
2221     "Kod": "1233",
2222     "LanID": 10,
2223     "LarosateID": -1
2224 },
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2227         "sv": "\u00d6stra G\u00f6inge",
2228         "en": "\u00d6stra G\u00f6inge"
2229     },
2230     "Beskrivning": {},
2231     "Dolt": false,
2232     "Giltighetsperiod": {},
2233     "ID": "100",
2234     "Kod": "1256",

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2235     "LanID": 10,
2236     "LarosateID": -1
2237 },
2238 {
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2241         "en": "\u00d6rkelljunga"
2242     },
2243     "Beskrivning": {},
2244     "Dolt": false,
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2246     "ID": "101",
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2256     "Beskrivning": {},
2257     "Dolt": false,
2258     "Giltighetsperiod": {},
2259     "ID": "102",
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2261     "LanID": 10,
2262     "LarosateID": -1
2263 },
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2265     "Benamning": {
2266         "sv": "K\u00e4vlinge",
2267         "en": "K\u00e4vlinge"
2268     },
2269     "Beskrivning": {},
2270     "Dolt": false,
2271     "Giltighetsperiod": {},
2272     "ID": "103",
2273     "Kod": "1261",
2274     "LanID": 10,
2275     "LarosateID": -1
2276 },
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2278     "Benamning": {
2279         "sv": "Lomma",
2280         "en": "Lomma"
2281     },
2282     "Beskrivning": {},
2283     "Dolt": false,
2284     "Giltighetsperiod": {},
2285     "ID": "104",
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2286     "Kod": "1262",
2287     "LanID": 10,
2288     "LarosateID": -1
2289 },
2290 {
2291     "Benamning": {
2292         "sv": "Svedala",
2293         "en": "Svedala"
2294     },
2295     "Beskrivning": {},
2296     "Dolt": false,
2297     "Giltighetsperiod": {},
2298     "ID": "105",
2299     "Kod": "1263",
2300     "LanID": 10,
2301     "LarosateID": -1
2302 },
2303 {
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2305         "sv": "Skurup",
2306         "en": "Skurup"
2307     },
2308     "Beskrivning": {},
2309     "Dolt": false,
2310     "Giltighetsperiod": {},
2311     "ID": "106",
2312     "Kod": "1264",
2313     "LanID": 10,
2314     "LarosateID": -1
2315 },
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2318         "sv": "Sj\u00f6bo",
2319         "en": "Sj\u00f6bo"
2320     },
2321     "Beskrivning": {},
2322     "Dolt": false,
2323     "Giltighetsperiod": {},
2324     "ID": "107",
2325     "Kod": "1265",
2326     "LanID": 10,
2327     "LarosateID": -1
2328 },
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2331         "sv": "H\u00f6rby",
2332         "en": "H\u00f6rby"
2333     },
2334     "Beskrivning": {},
2335     "Dolt": false,
2336     "Giltighetsperiod": {},

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2337     "ID": "108",
2338     "Kod": "1266",
2339     "LanID": 10,
2340     "LarosateID": -1
2341 },
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2344         "sv": "H\u00f6\u00f6r",
2345         "en": "H\u00f6\u00f6r"
2346     },
2347     "Beskrivning": {},
2348     "Dolt": false,
2349     "Giltighetsperiod": {},
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2351     "Kod": "1267",
2352     "LanID": 10,
2353     "LarosateID": -1
2354 },
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2357         "sv": "Tomelilla",
2358         "en": "Tomelilla"
2359     },
2360     "Beskrivning": {},
2361     "Dolt": false,
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2363     "ID": "110",
2364     "Kod": "1270",
2365     "LanID": 10,
2366     "LarosateID": -1
2367 },
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2371         "en": "Brom\u00f6l\u00f6"
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2377     "Kod": "1272",
2378     "LanID": 10,
2379     "LarosateID": -1
2380 },
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2382     "Benamning": {
2383         "sv": "Osby",
2384         "en": "Osby"
2385     },
2386     "Beskrivning": {},
2387     "Dolt": false,
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2388     "Giltighetsperiod": {},
2389     "ID": "112",
2390     "Kod": "1273",
2391     "LanID": 10,
2392     "LarosateID": -1
2393 },
2394 {
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2397         "en": "\u00c4ngelholm"
2398     },
2399     "Beskrivning": {},
2400     "Dolt": false,
2401     "Giltighetsperiod": {},
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2403     "Kod": "1292",
2404     "LanID": 10,
2405     "LarosateID": -1
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2410         "en": "H\u00e4ssleholm"
2411     },
2412     "Beskrivning": {},
2413     "Dolt": false,
2414     "Giltighetsperiod": {},
2415     "ID": "128",
2416     "Kod": "1293",
2417     "LanID": 10,
2418     "LarosateID": -1
2419 },
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2423         "en": "Hylte"
2424     },
2425     "Beskrivning": {},
2426     "Dolt": false,
2427     "Giltighetsperiod": {},
2428     "ID": "129",
2429     "Kod": "1315",
2430     "LanID": 11,
2431     "LarosateID": -1
2432 },
2433 {
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2435         "sv": "Halmstad",
2436         "en": "Halmstad"
2437     },
2438     "Beskrivning": {},
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2439     "Dolt": false,
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2441     "ID": "130",
2442     "Kod": "1380",
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2444     "LarosateID": -1
2445 },
2446 {
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2448         "sv": "Laholm",
2449         "en": "Laholm"
2450     },
2451     "Beskrivning": {},
2452     "Dolt": false,
2453     "Giltighetsperiod": {},
2454     "ID": "131",
2455     "Kod": "1381",
2456     "LanID": 11,
2457     "LarosateID": -1
2458 },
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2460     "Benamning": {
2461         "sv": "Falkenberg",
2462         "en": "Falkenberg"
2463     },
2464     "Beskrivning": {},
2465     "Dolt": false,
2466     "Giltighetsperiod": {},
2467     "ID": "132",
2468     "Kod": "1382",
2469     "LanID": 11,
2470     "LarosateID": -1
2471 },
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2473     "Benamning": {
2474         "sv": "Varberg",
2475         "en": "Varberg"
2476     },
2477     "Beskrivning": {},
2478     "Dolt": false,
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2480     "ID": "133",
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2482     "LanID": 11,
2483     "LarosateID": -1
2484 },
2485 {
2486     "Benamning": {
2487         "sv": "Kungsbacka",
2488         "en": "Kungsbacka"
2489     },
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2490     "Beskrivning": {},
2491     "Dolt": false,
2492     "Giltighetsperiod": {},
2493     "ID": "134",
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2496     "LarosateID": -1
2497 },
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2500         "sv": "H\u00e4rryda",
2501         "en": "H\u00e4rryda"
2502     },
2503     "Beskrivning": {},
2504     "Dolt": false,
2505     "Giltighetsperiod": {},
2506     "ID": "135",
2507     "Kod": "1401",
2508     "LanID": 12,
2509     "LarosateID": -1
2510 },
2511 {
2512     "Benamning": {
2513         "sv": "Partille",
2514         "en": "Partille"
2515     },
2516     "Beskrivning": {},
2517     "Dolt": false,
2518     "Giltighetsperiod": {},
2519     "ID": "136",
2520     "Kod": "1402",
2521     "LanID": 12,
2522     "LarosateID": -1
2523 },
2524 {
2525     "Benamning": {
2526         "sv": "\u00d6cker\u00f6",
2527         "en": "\u00d6cker\u00f6"
2528     },
2529     "Beskrivning": {},
2530     "Dolt": false,
2531     "Giltighetsperiod": {},
2532     "ID": "137",
2533     "Kod": "1407",
2534     "LanID": 12,
2535     "LarosateID": -1
2536 },
2537 {
2538     "Benamning": {
2539         "sv": "Stenungsund",
2540         "en": "Stenungsund"

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2541     },
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2543     "Dolt": false,
2544     "Giltighetsperiod": {},
2545     "ID": "138",
2546     "Kod": "1415",
2547     "LanID": 12,
2548     "LarosateID": -1
2549 },
2550 {
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2552         "sv": "Tj\u00f6rn",
2553         "en": "Tj\u00f6rn"
2554     },
2555     "Beskrivning": {},
2556     "Dolt": false,
2557     "Giltighetsperiod": {},
2558     "ID": "139",
2559     "Kod": "1419",
2560     "LanID": 12,
2561     "LarosateID": -1
2562 },
2563 {
2564     "Benamning": {
2565         "sv": "Orust",
2566         "en": "Orust"
2567     },
2568     "Beskrivning": {},
2569     "Dolt": false,
2570     "Giltighetsperiod": {},
2571     "ID": "140",
2572     "Kod": "1421",
2573     "LanID": 12,
2574     "LarosateID": -1
2575 },
2576 {
2577     "Benamning": {
2578         "sv": "G\u00f6teborg",
2579         "en": "G\u00f6teborg"
2580     },
2581     "Beskrivning": {},
2582     "Dolt": false,
2583     "Giltighetsperiod": {},
2584     "ID": "165",
2585     "Kod": "1480",
2586     "LanID": 12,
2587     "LarosateID": -1
2588 },
2589 {
2590     "Benamning": {
2591         "sv": "M\u00f6lndal",

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2592         "en": "M\u00f6lndal"
2593     },
2594     "Beskrivning": {},
2595     "Dolt": false,
2596     "Giltighetsperiod": {},
2597     "ID": "166",
2598     "Kod": "1481",
2599     "LanID": 12,
2600     "LarosateID": -1
2601 },
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2603     "Benamning": {
2604         "sv": "Kung\u00e4lv",
2605         "en": "Kung\u00e4lv"
2606     },
2607     "Beskrivning": {},
2608     "Dolt": false,
2609     "Giltighetsperiod": {},
2610     "ID": "167",
2611     "Kod": "1482",
2612     "LanID": 12,
2613     "LarosateID": -1
2614 },
2615 {
2616     "Benamning": {
2617         "sv": "Lysekil",
2618         "en": "Lysekil"
2619     },
2620     "Beskrivning": {},
2621     "Dolt": false,
2622     "Giltighetsperiod": {},
2623     "ID": "168",
2624     "Kod": "1484",
2625     "LanID": 12,
2626     "LarosateID": -1
2627 },
2628 {
2629     "Benamning": {
2630         "sv": "Uddevalla",
2631         "en": "Uddevalla"
2632     },
2633     "Beskrivning": {},
2634     "Dolt": false,
2635     "Giltighetsperiod": {},
2636     "ID": "169",
2637     "Kod": "1485",
2638     "LanID": 12,
2639     "LarosateID": -1
2640 },
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2642     "Benamning": {
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2644         "en": "Str\u00f6mstad"
2645     },
2646     "Beskrivning": {},
2647     "Dolt": false,
2648     "Giltighetsperiod": {},
2649     "ID": "170",
2650     "Kod": "1486",
2651     "LanID": 12,
2652     "LarosateID": -1
2653 },
2654 {
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2656         "sv": "V\u00e4nersborg",
2657         "en": "V\u00e4nersborg"
2658     },
2659     "Beskrivning": {},
2660     "Dolt": false,
2661     "Giltighetsperiod": {},
2662     "ID": "171",
2663     "Kod": "1487",
2664     "LanID": 12,
2665     "LarosateID": -1
2666 },
2667 {
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2670         "en": "Trollh\u00e4ttan"
2671     },
2672     "Beskrivning": {},
2673     "Dolt": false,
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2677     "LanID": 12,
2678     "LarosateID": -1
2679 },
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2682         "sv": "Alings\u00e5s",
2683         "en": "Alings\u00e5s"
2684     },
2685     "Beskrivning": {},
2686     "Dolt": false,
2687     "Giltighetsperiod": {},
2688     "ID": "173",
2689     "Kod": "1489",
2690     "LanID": 12,
2691     "LarosateID": -1
2692 },
2693 {
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2696       "en": "Bor\u00e5s"
2697     },
2698     "Beskrivning": {},
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2701     "ID": "174",
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2703     "LanID": 12,
2704     "LarosateID": -1
2705   },
2706   {
2707     "Benamning": {
2708       "sv": "Ulricehamn",
2709       "en": "Ulricehamn"
2710     },
2711     "Beskrivning": {},
2712     "Dolt": false,
2713     "Giltighetsperiod": {},
2714     "ID": "175",
2715     "Kod": "1491",
2716     "LanID": 12,
2717     "LarosateID": -1
2718   },
2719   {
2720     "Benamning": {
2721       "sv": "\u00c5m\u00e5l",
2722       "en": "\u00c5m\u00e5l"
2723     },
2724     "Beskrivning": {},
2725     "Dolt": false,
2726     "Giltighetsperiod": {},
2727     "ID": "176",
2728     "Kod": "1492",
2729     "LanID": 12,
2730     "LarosateID": -1
2731   },
2732   {
2733     "Benamning": {
2734       "sv": "Mariestad",
2735       "en": "Mariestad"
2736     },
2737     "Beskrivning": {},
2738     "Dolt": false,
2739     "Giltighetsperiod": {},
2740     "ID": "177",
2741     "Kod": "1493",
2742     "LanID": 12,
2743     "LarosateID": -1
2744   },
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2745     {
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2747             "sv": "Lidk\u00f6ping",
2748             "en": "Lidk\u00f6ping"
2749         },
2750         "Beskrivning": {},
2751         "Dolt": false,
2752         "Giltighetsperiod": {},
2753         "ID": "178",
2754         "Kod": "1494",
2755         "LanID": 12,
2756         "LarosateID": -1
2757     },
2758     {
2759         "Benamning": {
2760             "sv": "Kumla",
2761             "en": "Kumla"
2762         },
2763         "Beskrivning": {},
2764         "Dolt": false,
2765         "Giltighetsperiod": {},
2766         "ID": "207",
2767         "Kod": "1881",
2768         "LanID": 14,
2769         "LarosateID": -1
2770     },
2771     {
2772         "Benamning": {
2773             "sv": "Askersund",
2774             "en": "Askersund"
2775         },
2776         "Beskrivning": {},
2777         "Dolt": false,
2778         "Giltighetsperiod": {},
2779         "ID": "208",
2780         "Kod": "1882",
2781         "LanID": 14,
2782         "LarosateID": -1
2783     },
2784     {
2785         "Benamning": {
2786             "sv": "Karlskoga",
2787             "en": "Karlskoga"
2788         },
2789         "Beskrivning": {},
2790         "Dolt": false,
2791         "Giltighetsperiod": {},
2792         "ID": "209",
2793         "Kod": "1883",
2794         "LanID": 14,
2795         "LarosateID": -1

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2796     },
2797     {
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2800         "en": "Nora"
2801       },
2802       "Beskrivning": {},
2803       "Dolt": false,
2804       "Giltighetsperiod": {},
2805       "ID": "210",
2806       "Kod": "1884",
2807       "LanID": 14,
2808       "LarosateID": -1
2809     },
2810     {
2811       "Benamning": {
2812         "sv": "Lindesberg",
2813         "en": "Lindesberg"
2814       },
2815       "Beskrivning": {},
2816       "Dolt": false,
2817       "Giltighetsperiod": {},
2818       "ID": "211",
2819       "Kod": "1885",
2820       "LanID": 14,
2821       "LarosateID": -1
2822     },
2823     {
2824       "Benamning": {
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2826         "en": "Skinnskatteberg"
2827       },
2828       "Beskrivning": {},
2829       "Dolt": false,
2830       "Giltighetsperiod": {},
2831       "ID": "212",
2832       "Kod": "1904",
2833       "LanID": 15,
2834       "LarosateID": -1
2835     },
2836     {
2837       "Benamning": {
2838         "sv": "Surahammar",
2839         "en": "Surahammar"
2840       },
2841       "Beskrivning": {},
2842       "Dolt": false,
2843       "Giltighetsperiod": {},
2844       "ID": "213",
2845       "Kod": "1907",
2846       "LanID": 15,
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2847     "LarosateID": -1
2848 },
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2851         "sv": "Heby",
2852         "en": "Heby"
2853     },
2854     "Beskrivning": {
2855         "sv": "\u00d6verf\u00f6rd fr\u00e5n V\u00e4stmanlands till Uppsala l\u00e4n"
2856     },
2857     "Dolt": false,
2858     "Giltighetsperiod": {
2859         "Slutdatum": "2006-12-31"
2860     },
2861     "ID": "100000",
2862     "Kod": "1917",
2863     "LanID": 15,
2864     "LarosateID": -1
2865 },
2866 {
2867     "Benamning": {
2868         "sv": "Kungs\u00f6r",
2869         "en": "Kungs\u00f6r"
2870     },
2871     "Beskrivning": {},
2872     "Dolt": false,
2873     "Giltighetsperiod": {},
2874     "ID": "214",
2875     "Kod": "1960",
2876     "LanID": 15,
2877     "LarosateID": -1
2878 },
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2882         "en": "Hallstahammar"
2883     },
2884     "Beskrivning": {},
2885     "Dolt": false,
2886     "Giltighetsperiod": {},
2887     "ID": "215",
2888     "Kod": "1961",
2889     "LanID": 15,
2890     "LarosateID": -1
2891 },
2892 {
2893     "Benamning": {
2894         "sv": "Norberg",
2895         "en": "Norberg"
2896     },
2897     "Beskrivning": {},

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2898     "Dolt": false,
2899     "Giltighetsperiod": {},
2900     "ID": "216",
2901     "Kod": "1962",
2902     "LanID": 15,
2903     "LarosateID": -1
2904 },
2905 {
2906     "Benamning": {
2907         "sv": "V\u00e4ster\u00e5s",
2908         "en": "V\u00e4ster\u00e5s"
2909     },
2910     "Beskrivning": {},
2911     "Dolt": false,
2912     "Giltighetsperiod": {},
2913     "ID": "217",
2914     "Kod": "1980",
2915     "LanID": 15,
2916     "LarosateID": -1
2917 },
2918 {
2919     "Benamning": {
2920         "sv": "Sala",
2921         "en": "Sala"
2922     },
2923     "Beskrivning": {},
2924     "Dolt": false,
2925     "Giltighetsperiod": {},
2926     "ID": "218",
2927     "Kod": "1981",
2928     "LanID": 15,
2929     "LarosateID": -1
2930 },
2931 {
2932     "Benamning": {
2933         "sv": "Fagersta",
2934         "en": "Fagersta"
2935     },
2936     "Beskrivning": {},
2937     "Dolt": false,
2938     "Giltighetsperiod": {},
2939     "ID": "219",
2940     "Kod": "1982",
2941     "LanID": 15,
2942     "LarosateID": -1
2943 },
2944 {
2945     "Benamning": {
2946         "sv": "Skellefte\u00e5",
2947         "en": "Skellefte\u00e5"
2948     },

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2950     "Dolt": false,
2951     "Giltighetsperiod": {},
2952     "ID": "276",
2953     "Kod": "2482",
2954     "LanID": 20,
2955     "LarosateID": -1
2956 },
2957 {
2958     "Benamning": {
2959         "sv": "Arvidsjaur",
2960         "en": "Arvidsjaur"
2961     },
2962     "Beskrivning": {},
2963     "Dolt": false,
2964     "Giltighetsperiod": {},
2965     "ID": "277",
2966     "Kod": "2505",
2967     "LanID": 21,
2968     "LarosateID": -1
2969 },
2970 {
2971     "Benamning": {
2972         "sv": "Arjeplog",
2973         "en": "Arjeplog"
2974     },
2975     "Beskrivning": {},
2976     "Dolt": false,
2977     "Giltighetsperiod": {},
2978     "ID": "278",
2979     "Kod": "2506",
2980     "LanID": 21,
2981     "LarosateID": -1
2982 },
2983 {
2984     "Benamning": {
2985         "sv": "Jokkmokk",
2986         "en": "Jokkmokk"
2987     },
2988     "Beskrivning": {},
2989     "Dolt": false,
2990     "Giltighetsperiod": {},
2991     "ID": "279",
2992     "Kod": "2510",
2993     "LanID": 21,
2994     "LarosateID": -1
2995 },
2996 {
2997     "Benamning": {
2998         "sv": "\u00d6verkalix",
2999         "en": "\u00d6verkalix"
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3000     },
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3002     "Dolt": false,
3003     "Giltighetsperiod": {},
3004     "ID": "280",
3005     "Kod": "2513",
3006     "LanID": 21,
3007     "LarosateID": -1
3008 },
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3010     "Benamning": {
3011         "sv": "Kalix",
3012         "en": "Kalix"
3013     },
3014     "Beskrivning": {},
3015     "Dolt": false,
3016     "Giltighetsperiod": {},
3017     "ID": "281",
3018     "Kod": "2514",
3019     "LanID": 21,
3020     "LarosateID": -1
3021 },
3022 {
3023     "Benamning": {
3024         "sv": "\u00d6vertorne\u00e5",
3025         "en": "\u00d6vertorne\u00e5"
3026     },
3027     "Beskrivning": {},
3028     "Dolt": false,
3029     "Giltighetsperiod": {},
3030     "ID": "282",
3031     "Kod": "2518",
3032     "LanID": 21,
3033     "LarosateID": -1
3034 },
3035 {
3036     "Benamning": {
3037         "sv": "Pajala",
3038         "en": "Pajala"
3039     },
3040     "Beskrivning": {},
3041     "Dolt": false,
3042     "Giltighetsperiod": {},
3043     "ID": "283",
3044     "Kod": "2521",
3045     "LanID": 21,
3046     "LarosateID": -1
3047 },
3048 {
3049     "Benamning": {
3050         "sv": "G\u00e4llivare",

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3051         "en": "G\u00e4llivare"
3052     },
3053     "Beskrivning": {},
3054     "Dolt": false,
3055     "Giltighetsperiod": {},
3056     "ID": "284",
3057     "Kod": "2523",
3058     "LanID": 21,
3059     "LarosateID": -1
3060 },
3061 {
3062     "Benamning": {
3063         "sv": "\u00c4lvsbyn",
3064         "en": "\u00c4lvsbyn"
3065     },
3066     "Beskrivning": {},
3067     "Dolt": false,
3068     "Giltighetsperiod": {},
3069     "ID": "285",
3070     "Kod": "2560",
3071     "LanID": 21,
3072     "LarosateID": -1
3073 },
3074 {
3075     "Benamning": {
3076         "sv": "Lule\u00e5",
3077         "en": "Lule\u00e5"
3078     },
3079     "Beskrivning": {},
3080     "Dolt": false,
3081     "Giltighetsperiod": {},
3082     "ID": "286",
3083     "Kod": "2580",
3084     "LanID": 21,
3085     "LarosateID": -1
3086 },
3087 {
3088     "Benamning": {
3089         "sv": "Pite\u00e5",
3090         "en": "Pite\u00e5"
3091     },
3092     "Beskrivning": {},
3093     "Dolt": false,
3094     "Giltighetsperiod": {},
3095     "ID": "287",
3096     "Kod": "2581",
3097     "LanID": 21,
3098     "LarosateID": -1
3099 },
3100 {
3101     "Benamning": {
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3102         "sv": "Boden",
3103         "en": "Boden"
3104     },
3105     "Beskrivning": {},
3106     "Dolt": false,
3107     "Giltighetsperiod": {},
3108     "ID": "288",
3109     "Kod": "2582",
3110     "LanID": 21,
3111     "LarosateID": -1
3112 },
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3114     "Benamning": {
3115         "sv": "Haparanda",
3116         "en": "Haparanda"
3117     },
3118     "Beskrivning": {},
3119     "Dolt": false,
3120     "Giltighetsperiod": {},
3121     "ID": "289",
3122     "Kod": "2583",
3123     "LanID": 21,
3124     "LarosateID": -1
3125 },
3126 {
3127     "Benamning": {
3128         "sv": "Trosa",
3129         "en": "Trosa"
3130     },
3131     "Beskrivning": {},
3132     "Dolt": false,
3133     "Giltighetsperiod": {},
3134     "ID": "43",
3135     "Kod": "0488",
3136     "LanID": 3,
3137     "LarosateID": -1
3138 },
3139 {
3140     "Benamning": {
3141         "sv": "\u00d6desh\u00f6g",
3142         "en": "\u00d6desh\u00f6g"
3143     },
3144     "Beskrivning": {},
3145     "Dolt": false,
3146     "Giltighetsperiod": {},
3147     "ID": "44",
3148     "Kod": "0509",
3149     "LanID": 4,
3150     "LarosateID": -1
3151 },
3152 {

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3153     "Benamning": {
3154         "sv": "Ydre",
3155         "en": "Ydre"
3156     },
3157     "Beskrivning": {},
3158     "Dolt": false,
3159     "Giltighetsperiod": {},
3160     "ID": "45",
3161     "Kod": "0512",
3162     "LanID": 4,
3163     "LarosateID": -1
3164 },
3165 {
3166     "Benamning": {
3167         "sv": "Kinda",
3168         "en": "Kinda"
3169     },
3170     "Beskrivning": {},
3171     "Dolt": false,
3172     "Giltighetsperiod": {},
3173     "ID": "46",
3174     "Kod": "0513",
3175     "LanID": 4,
3176     "LarosateID": -1
3177 },
3178 {
3179     "Benamning": {
3180         "sv": "Boxholm",
3181         "en": "Boxholm"
3182     },
3183     "Beskrivning": {},
3184     "Dolt": false,
3185     "Giltighetsperiod": {},
3186     "ID": "47",
3187     "Kod": "0560",
3188     "LanID": 4,
3189     "LarosateID": -1
3190 },
3191 {
3192     "Benamning": {
3193         "sv": "\u00c5tvidaberg",
3194         "en": "\u00c5tvidaberg"
3195     },
3196     "Beskrivning": {},
3197     "Dolt": false,
3198     "Giltighetsperiod": {},
3199     "ID": "48",
3200     "Kod": "0561",
3201     "LanID": 4,
3202     "LarosateID": -1
3203 },
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3204     {
3205         "Benamning": {
3206             "sv": "Finsp\u00e5ng",
3207             "en": "Finsp\u00e5ng"
3208         },
3209         "Beskrivning": {},
3210         "Dolt": false,
3211         "Giltighetsperiod": {},
3212         "ID": "49",
3213         "Kod": "0562",
3214         "LanID": 4,
3215         "LarosateID": -1
3216     },
3217     {
3218         "Benamning": {
3219             "sv": "Valdemarsvik",
3220             "en": "Valdemarsvik"
3221         },
3222         "Beskrivning": {},
3223         "Dolt": false,
3224         "Giltighetsperiod": {},
3225         "ID": "50",
3226         "Kod": "0563",
3227         "LanID": 4,
3228         "LarosateID": -1
3229     },
3230     {
3231         "Benamning": {
3232             "sv": "Link\u00f6ping",
3233             "en": "Link\u00f6ping"
3234         },
3235         "Beskrivning": {},
3236         "Dolt": false,
3237         "Giltighetsperiod": {},
3238         "ID": "51",
3239         "Kod": "0580",
3240         "LanID": 4,
3241         "LarosateID": -1
3242     },
3243     {
3244         "Benamning": {
3245             "sv": "Norrk\u00f6ping",
3246             "en": "Norrk\u00f6ping"
3247         },
3248         "Beskrivning": {},
3249         "Dolt": false,
3250         "Giltighetsperiod": {},
3251         "ID": "52",
3252         "Kod": "0581",
3253         "LanID": 4,
3254         "LarosateID": -1
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3255     },
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3258             "sv": "S\u00f6derk\u00f6ping",
3259             "en": "S\u00f6derk\u00f6ping"
3260         },
3261         "Beskrivning": {},
3262         "Dolt": false,
3263         "Giltighetsperiod": {},
3264         "ID": "53",
3265         "Kod": "0582",
3266         "LanID": 4,
3267         "LarosateID": -1
3268     },
3269     {
3270         "Benamning": {
3271             "sv": "Motala",
3272             "en": "Motala"
3273         },
3274         "Beskrivning": {},
3275         "Dolt": false,
3276         "Giltighetsperiod": {},
3277         "ID": "54",
3278         "Kod": "0583",
3279         "LanID": 4,
3280         "LarosateID": -1
3281     },
3282     {
3283         "Benamning": {
3284             "sv": "Vadstena",
3285             "en": "Vadstena"
3286         },
3287         "Beskrivning": {},
3288         "Dolt": false,
3289         "Giltighetsperiod": {},
3290         "ID": "55",
3291         "Kod": "0584",
3292         "LanID": 4,
3293         "LarosateID": -1
3294     },
3295     {
3296         "Benamning": {
3297             "sv": "Mj\u00f6lby",
3298             "en": "Mj\u00f6lby"
3299         },
3300         "Beskrivning": {},
3301         "Dolt": false,
3302         "Giltighetsperiod": {},
3303         "ID": "56",
3304         "Kod": "0586",
3305         "LanID": 4,
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3306     "LarosateID": -1
3307 },
3308 {
3309     "Benamning": {
3310         "sv": "Bengtsfors",
3311         "en": "Bengtsfors"
3312     },
3313     "Beskrivning": {},
3314     "Dolt": false,
3315     "Giltighetsperiod": {},
3316     "ID": "155",
3317     "Kod": "1460",
3318     "LanID": 12,
3319     "LarosateID": -1
3320 },
3321 {
3322     "Benamning": {
3323         "sv": "Mellerud",
3324         "en": "Mellerud"
3325     },
3326     "Beskrivning": {},
3327     "Dolt": false,
3328     "Giltighetsperiod": {},
3329     "ID": "156",
3330     "Kod": "1461",
3331     "LanID": 12,
3332     "LarosateID": -1
3333 },
3334 {
3335     "Benamning": {
3336         "sv": "Lilla Edet",
3337         "en": "Lilla Edet"
3338     },
3339     "Beskrivning": {},
3340     "Dolt": false,
3341     "Giltighetsperiod": {},
3342     "ID": "157",
3343     "Kod": "1462",
3344     "LanID": 12,
3345     "LarosateID": -1
3346 },
3347 {
3348     "Benamning": {
3349         "sv": "Mark",
3350         "en": "Mark"
3351     },
3352     "Beskrivning": {},
3353     "Dolt": false,
3354     "Giltighetsperiod": {},
3355     "ID": "158",
3356     "Kod": "1463",
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3357     "LanID": 12,
3358     "LarosateID": -1
3359 },
3360 {
3361     "Benamning": {
3362         "sv": "Svenljunga",
3363         "en": "Svenljunga"
3364     },
3365     "Beskrivning": {},
3366     "Dolt": false,
3367     "Giltighetsperiod": {},
3368     "ID": "159",
3369     "Kod": "1465",
3370     "LanID": 12,
3371     "LarosateID": -1
3372 },
3373 {
3374     "Benamning": {
3375         "sv": "Herrljunga",
3376         "en": "Herrljunga"
3377     },
3378     "Beskrivning": {},
3379     "Dolt": false,
3380     "Giltighetsperiod": {},
3381     "ID": "160",
3382     "Kod": "1466",
3383     "LanID": 12,
3384     "LarosateID": -1
3385 },
3386 {
3387     "Benamning": {
3388         "sv": "Vara",
3389         "en": "Vara"
3390     },
3391     "Beskrivning": {},
3392     "Dolt": false,
3393     "Giltighetsperiod": {},
3394     "ID": "161",
3395     "Kod": "1470",
3396     "LanID": 12,
3397     "LarosateID": -1
3398 },
3399 {
3400     "Benamning": {
3401         "sv": "G\u00f6tene",
3402         "en": "G\u00f6tene"
3403     },
3404     "Beskrivning": {},
3405     "Dolt": false,
3406     "Giltighetsperiod": {},
3407     "ID": "162",
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3408     "Kod": "1471",
3409     "LanID": 12,
3410     "LarosateID": -1
3411 },
3412 {
3413     "Benamning": {
3414         "sv": "Tibro",
3415         "en": "Tibro"
3416     },
3417     "Beskrivning": {},
3418     "Dolt": false,
3419     "Giltighetsperiod": {},
3420     "ID": "163",
3421     "Kod": "1472",
3422     "LanID": 12,
3423     "LarosateID": -1
3424 },
3425 {
3426     "Benamning": {
3427         "sv": "T\u00f6reboda",
3428         "en": "T\u00f6reboda"
3429     },
3430     "Beskrivning": {},
3431     "Dolt": false,
3432     "Giltighetsperiod": {},
3433     "ID": "164",
3434     "Kod": "1473",
3435     "LanID": 12,
3436     "LarosateID": -1
3437 },
3438 {
3439     "Benamning": {
3440         "sv": "Sunne",
3441         "en": "Sunne"
3442     },
3443     "Beskrivning": {},
3444     "Dolt": false,
3445     "Giltighetsperiod": {},
3446     "ID": "193",
3447     "Kod": "1766",
3448     "LanID": 13,
3449     "LarosateID": -1
3450 },
3451 {
3452     "Benamning": {
3453         "sv": "Karlstad",
3454         "en": "Karlstad"
3455     },
3456     "Beskrivning": {},
3457     "Dolt": false,
3458     "Giltighetsperiod": {},
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3459     "ID": "194",
3460     "Kod": "1780",
3461     "LanID": 13,
3462     "LarosateID": -1
3463 },
3464 {
3465     "Benamning": {
3466         "sv": "Kristinehamn",
3467         "en": "Kristinehamn"
3468     },
3469     "Beskrivning": {},
3470     "Dolt": false,
3471     "Giltighetsperiod": {},
3472     "ID": "195",
3473     "Kod": "1781",
3474     "LanID": 13,
3475     "LarosateID": -1
3476 },
3477 {
3478     "Benamning": {
3479         "sv": "Filipstad",
3480         "en": "Filipstad"
3481     },
3482     "Beskrivning": {},
3483     "Dolt": false,
3484     "Giltighetsperiod": {},
3485     "ID": "196",
3486     "Kod": "1782",
3487     "LanID": 13,
3488     "LarosateID": -1
3489 },
3490 {
3491     "Benamning": {
3492         "sv": "Hagfors",
3493         "en": "Hagfors"
3494     },
3495     "Beskrivning": {},
3496     "Dolt": false,
3497     "Giltighetsperiod": {},
3498     "ID": "197",
3499     "Kod": "1783",
3500     "LanID": 13,
3501     "LarosateID": -1
3502 },
3503 {
3504     "Benamning": {
3505         "sv": "Arvika",
3506         "en": "Arvika"
3507     },
3508     "Beskrivning": {},
3509     "Dolt": false,
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3510     "Giltighetsperiod": {},
3511     "ID": "198",
3512     "Kod": "1784",
3513     "LanID": 13,
3514     "LarosateID": -1
3515 },
3516 {
3517     "Benamning": {
3518         "sv": "S\u00e4ffle",
3519         "en": "S\u00e4ffle"
3520     },
3521     "Beskrivning": {},
3522     "Dolt": false,
3523     "Giltighetsperiod": {},
3524     "ID": "199",
3525     "Kod": "1785",
3526     "LanID": 13,
3527     "LarosateID": -1
3528 },
3529 {
3530     "Benamning": {
3531         "sv": "Lekeberg",
3532         "en": "Lekeberg"
3533     },
3534     "Beskrivning": {},
3535     "Dolt": false,
3536     "Giltighetsperiod": {},
3537     "ID": "200",
3538     "Kod": "1814",
3539     "LanID": 14,
3540     "LarosateID": -1
3541 },
3542 {
3543     "Benamning": {
3544         "sv": "Lax\u00e5",
3545         "en": "Lax\u00e5"
3546     },
3547     "Beskrivning": {},
3548     "Dolt": false,
3549     "Giltighetsperiod": {},
3550     "ID": "201",
3551     "Kod": "1860",
3552     "LanID": 14,
3553     "LarosateID": -1
3554 },
3555 {
3556     "Benamning": {
3557         "sv": "Hallsberg",
3558         "en": "Hallsberg"
3559     },
3560     "Beskrivning": {},

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3561     "Dolt": false,
3562     "Giltighetsperiod": {},
3563     "ID": "202",
3564     "Kod": "1861",
3565     "LanID": 14,
3566     "LarosateID": -1
3567 },
3568 {
3569     "Benamning": {
3570         "sv": "Degerfors",
3571         "en": "Degerfors"
3572     },
3573     "Beskrivning": {},
3574     "Dolt": false,
3575     "Giltighetsperiod": {},
3576     "ID": "203",
3577     "Kod": "1862",
3578     "LanID": 14,
3579     "LarosateID": -1
3580 },
3581 {
3582     "Benamning": {
3583         "sv": "H\u00e4llefors",
3584         "en": "H\u00e4llefors"
3585     },
3586     "Beskrivning": {},
3587     "Dolt": false,
3588     "Giltighetsperiod": {},
3589     "ID": "204",
3590     "Kod": "1863",
3591     "LanID": 14,
3592     "LarosateID": -1
3593 },
3594 {
3595     "Benamning": {
3596         "sv": "Ljusnarsberg",
3597         "en": "Ljusnarsberg"
3598     },
3599     "Beskrivning": {},
3600     "Dolt": false,
3601     "Giltighetsperiod": {},
3602     "ID": "205",
3603     "Kod": "1864",
3604     "LanID": 14,
3605     "LarosateID": -1
3606 },
3607 {
3608     "Benamning": {
3609         "sv": "\u00d6rebro",
3610         "en": "\u00d6rebro"
3611     },
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3612     "Beskrivning": {},
3613     "Dolt": false,
3614     "Giltighetsperiod": {},
3615     "ID": "206",
3616     "Kod": "1880",
3617     "LanID": 14,
3618     "LarosateID": -1
3619 },
3620 {
3621     "Benamning": {
3622         "sv": "Timr\u00e5",
3623         "en": "Timr\u00e5"
3624     },
3625     "Beskrivning": {},
3626     "Dolt": false,
3627     "Giltighetsperiod": {},
3628     "ID": "248",
3629     "Kod": "2262",
3630     "LanID": 18,
3631     "LarosateID": -1
3632 },
3633 {
3634     "Benamning": {
3635         "sv": "H\u00e4rn\u00f6sand",
3636         "en": "H\u00e4rn\u00f6sand"
3637     },
3638     "Beskrivning": {},
3639     "Dolt": false,
3640     "Giltighetsperiod": {},
3641     "ID": "249",
3642     "Kod": "2280",
3643     "LanID": 18,
3644     "LarosateID": -1
3645 },
3646 {
3647     "Benamning": {
3648         "sv": "Sundsvall",
3649         "en": "Sundsvall"
3650     },
3651     "Beskrivning": {},
3652     "Dolt": false,
3653     "Giltighetsperiod": {},
3654     "ID": "250",
3655     "Kod": "2281",
3656     "LanID": 18,
3657     "LarosateID": -1
3658 },
3659 {
3660     "Benamning": {
3661         "sv": "Kramfors",
3662         "en": "Kramfors"

```

```
3663     },
3664     "Beskrivning": {},
3665     "Dolt": false,
3666     "Giltighetsperiod": {},
3667     "ID": "251",
3668     "Kod": "2282",
3669     "LanID": 18,
3670     "LarosateID": -1
3671 },
3672 {
3673     "Benamning": {
3674         "sv": "Sollefte\u00e5",
3675         "en": "Sollefte\u00e5"
3676     },
3677     "Beskrivning": {},
3678     "Dolt": false,
3679     "Giltighetsperiod": {},
3680     "ID": "252",
3681     "Kod": "2283",
3682     "LanID": 18,
3683     "LarosateID": -1
3684 },
3685 {
3686     "Benamning": {
3687         "sv": "\u00d6rns\u00f6ldsvik",
3688         "en": "\u00d6rns\u00f6ldsvik"
3689     },
3690     "Beskrivning": {},
3691     "Dolt": false,
3692     "Giltighetsperiod": {},
3693     "ID": "253",
3694     "Kod": "2284",
3695     "LanID": 18,
3696     "LarosateID": -1
3697 },
3698 {
3699     "Benamning": {
3700         "sv": "Ragunda",
3701         "en": "Ragunda"
3702     },
3703     "Beskrivning": {},
3704     "Dolt": false,
3705     "Giltighetsperiod": {},
3706     "ID": "254",
3707     "Kod": "2303",
3708     "LanID": 19,
3709     "LarosateID": -1
3710 },
3711 {
3712     "Benamning": {
3713         "sv": "Br\u00e4cke",
```

```
3714         "en": "Br\u00e4cke"
3715     },
3716     "Beskrivning": {},
3717     "Dolt": false,
3718     "Giltighetsperiod": {},
3719     "ID": "255",
3720     "Kod": "2305",
3721     "LanID": 19,
3722     "LarosateID": -1
3723 },
3724 {
3725     "Benamning": {
3726         "sv": "Krokom",
3727         "en": "Krokom"
3728     },
3729     "Beskrivning": {},
3730     "Dolt": false,
3731     "Giltighetsperiod": {},
3732     "ID": "256",
3733     "Kod": "2309",
3734     "LanID": 19,
3735     "LarosateID": -1
3736 },
3737 {
3738     "Benamning": {
3739         "sv": "Str\u00f6msund",
3740         "en": "Str\u00f6msund"
3741     },
3742     "Beskrivning": {},
3743     "Dolt": false,
3744     "Giltighetsperiod": {},
3745     "ID": "257",
3746     "Kod": "2313",
3747     "LanID": 19,
3748     "LarosateID": -1
3749 },
3750 {
3751     "Benamning": {
3752         "sv": "\u00c5re",
3753         "en": "\u00c5re"
3754     },
3755     "Beskrivning": {},
3756     "Dolt": false,
3757     "Giltighetsperiod": {},
3758     "ID": "258",
3759     "Kod": "2321",
3760     "LanID": 19,
3761     "LarosateID": -1
3762 },
3763 {
3764     "Benamning": {
```

```

3765         "sv": "Berg",
3766         "en": "Berg"
3767     },
3768     "Beskrivning": {},
3769     "Dolt": false,
3770     "Giltighetsperiod": {},
3771     "ID": "259",
3772     "Kod": "2326",
3773     "LanID": 19,
3774     "LarosateID": -1
3775 },
3776 {
3777     "Benamning": {
3778         "sv": "H\u00e4rjedalen",
3779         "en": "H\u00e4rjedalen"
3780     },
3781     "Beskrivning": {},
3782     "Dolt": false,
3783     "Giltighetsperiod": {},
3784     "ID": "260",
3785     "Kod": "2361",
3786     "LanID": 19,
3787     "LarosateID": -1
3788 },
3789 {
3790     "Benamning": {
3791         "sv": "\u00d6stersund",
3792         "en": "\u00d6stersund"
3793     },
3794     "Beskrivning": {},
3795     "Dolt": false,
3796     "Giltighetsperiod": {},
3797     "ID": "261",
3798     "Kod": "2380",
3799     "LanID": 19,
3800     "LarosateID": -1
3801 }
3802 ]
3803 }

```

## 20.8 lander\_JSON

```

870 <LadokSession data methods 151b>+=
    # added by GQMJr
    def lander_JSON(self) -> dict:
        """
        Returns a dictionary of countries.
        """
        r = self.session.get(
            url=self.base_gui_proxy_url + '/kataloginformation/internal/grunddata/land',

```

```
headers=self.headers).json()
return r
```

Let's add a test. This should return a dictionary.

```
871 <test functions 151a>+=
def test_lander_JSON() -> None:
    r = ladok.lander_JSON()
    assert type(r) == dict
```

This code is used in chunk 146.

The output looks like this:

```
1 {
2   "Land": [
3     {
4       "Benamning": {
5         "sv": "Bahamas",
6         "en": "Bahamas"
7       },
8       "Beskrivning": {},
9       "Dolt": false,
10      "Giltighetsperiod": {},
11      "ID": "22",
12      "Kod": "BS",
13      "LarosateID": -1
14    },
15    {
16      "Benamning": {
17        "sv": "Bhutan",
18        "en": "Bhutan"
19      },
20      "Beskrivning": {},
21      "Dolt": false,
22      "Giltighetsperiod": {},
23      "ID": "23",
24      "Kod": "BT",
25      "LarosateID": -1
26    },
27    {
28      "Benamning": {
29        "sv": "Botswana",
30        "en": "Botswana"
31      },
32      "Beskrivning": {},
33      "Dolt": false,
34      "Giltighetsperiod": {},
35      "ID": "24",
36      "Kod": "BW",
37      "LarosateID": -1
38    },
39    {
40      "Benamning": {
```

```

41     "sv": "Belarus",
42     "en": "Belarus"
43 },
44 "Beskrivning": {
45     "sv": "Vitryssland. Fr\u00e5n 2019-11-24 anv\u00e4nder Utrikesdepartementet officiellt namnet Be
46 },
47 "Dolt": false,
48 "Giltighetsperiod": {},
49 "ID": "25",
50 "Kod": "BY",
51 "LarosateID": -1
52 },
53 {
54     "Benamning": {
55         "sv": "Belize",
56         "en": "Belize"
57     },
58     "Beskrivning": {},
59     "Dolt": false,
60     "Giltighetsperiod": {},
61     "ID": "26",
62     "Kod": "BZ",
63     "LarosateID": -1
64 },
65 {
66     "Benamning": {
67         "sv": "Kanada",
68         "en": "Canada"
69     },
70     "Beskrivning": {},
71     "Dolt": false,
72     "Giltighetsperiod": {},
73     "ID": "27",
74     "Kod": "CA",
75     "LarosateID": -1
76 },
77 {
78     "Benamning": {
79         "sv": "Demokratiska republiken Kongo",
80         "en": "Democratic Republic of the Congo"
81     },
82     "Beskrivning": {
83         "sv": "Kongo-Kinshasa (f.d. Zaire)"
84     },
85     "Dolt": false,
86     "Giltighetsperiod": {},
87     "ID": "28",
88     "Kod": "CD",
89     "LarosateID": -1
90 },
91 {

```

```

92     "Benamning": {
93       "sv": "Centralafrikanska republiken",
94       "en": "Central African Republic"
95     },
96     "Beskrivning": {},
97     "Dolt": false,
98     "Giltighetsperiod": {},
99     "ID": "29",
100    "Kod": "CF",
101    "LarosateID": -1
102  },
103  {
104    "Benamning": {
105      "sv": "Kongo",
106      "en": "Congo"
107    },
108    "Beskrivning": {
109      "sv": "Kongo-Brazzaville"
110    },
111    "Dolt": false,
112    "Giltighetsperiod": {},
113    "ID": "30",
114    "Kod": "CG",
115    "LarosateID": -1
116  },
117  {
118    "Benamning": {
119      "sv": "Schweiz",
120      "en": "Switzerland"
121    },
122    "Beskrivning": {},
123    "Dolt": false,
124    "Giltighetsperiod": {},
125    "ID": "31",
126    "Kod": "CH",
127    "LarosateID": -1
128  },
129  {
130    "Benamning": {
131      "sv": "Elfenbenskusten",
132      "en": "C\u00f4te d'Ivoire"
133    },
134    "Beskrivning": {},
135    "Dolt": false,
136    "Giltighetsperiod": {},
137    "ID": "32",
138    "Kod": "CI",
139    "LarosateID": -1
140  },
141  {
142    "Benamning": {

```



```

143     "sv": "Frankrike",
144     "en": "France"
145 },
146 "Beskrivning": {},
147 "Dolt": false,
148 "Giltighetsperiod": {},
149 "ID": "55",
150 "Kod": "FR",
151 "LarosateID": -1
152 },
153 {
154   "Benamning": {
155     "sv": "Gabon",
156     "en": "Gabon"
157   },
158   "Beskrivning": {},
159   "Dolt": false,
160   "Giltighetsperiod": {},
161   "ID": "56",
162   "Kod": "GA",
163   "LarosateID": -1
164 },
165 {
166   "Benamning": {
167     "sv": "Storbritannien och Nordirland",
168     "en": "United Kingdom"
169   },
170   "Beskrivning": {
171     "sv": "F\u00f6renade kungariket - F\u00f6renade konungariket Storbritannien och Nordirland/United Kingdom"
172   },
173   "Dolt": false,
174   "Giltighetsperiod": {},
175   "ID": "57",
176   "Kod": "GB",
177   "LarosateID": -1
178 },
179 {
180   "Benamning": {
181     "sv": "Grenada",
182     "en": "Grenada"
183   },
184   "Beskrivning": {},
185   "Dolt": false,
186   "Giltighetsperiod": {},
187   "ID": "58",
188   "Kod": "GD",
189   "LarosateID": -1
190 },
191 {
192   "Benamning": {
193     "sv": "Georgien",

```

```
194     "en": "Georgia"
195   },
196   "Beskrivning": {},
197   "Dolt": false,
198   "Giltighetsperiod": {},
199   "ID": "59",
200   "Kod": "GE",
201   "LarosateID": -1
202 },
203 {
204   "Benamning": {
205     "sv": "Ghana",
206     "en": "Ghana"
207   },
208   "Beskrivning": {},
209   "Dolt": false,
210   "Giltighetsperiod": {},
211   "ID": "60",
212   "Kod": "GH",
213   "LarosateID": -1
214 },
215 {
216   "Benamning": {
217     "sv": "Gr\u00f6nland",
218     "en": "Greenland"
219   },
220   "Beskrivning": {},
221   "Dolt": false,
222   "Giltighetsperiod": {},
223   "ID": "61",
224   "Kod": "GL",
225   "LarosateID": -1
226 },
227 {
228   "Benamning": {
229     "sv": "Gambia",
230     "en": "Gambia"
231   },
232   "Beskrivning": {},
233   "Dolt": false,
234   "Giltighetsperiod": {},
235   "ID": "62",
236   "Kod": "GM",
237   "LarosateID": -1
238 },
239 {
240   "Benamning": {
241     "sv": "Guinea",
242     "en": "Guinea"
243   },
244   "Beskrivning": {},
```

```

245     "Dolt": false,
246     "Giltighetsperiod": {},
247     "ID": "63",
248     "Kod": "GN",
249     "LarosateID": -1
250 },
251 {
252     "Benamning": {
253         "sv": "Guadeloupe",
254         "en": "Guadeloupe"
255     },
256     "Beskrivning": {},
257     "Dolt": false,
258     "Giltighetsperiod": {},
259     "ID": "64",
260     "Kod": "GP",
261     "LarosateID": -1
262 },
263 {
264     "Benamning": {
265         "sv": "Ekvatorialguinea",
266         "en": "Equatorial Guinea"
267     },
268     "Beskrivning": {},
269     "Dolt": false,
270     "Giltighetsperiod": {},
271     "ID": "65",
272     "Kod": "GQ",
273     "LarosateID": -1
274 },
275 {
276     "Benamning": {
277         "sv": "Kambodja",
278         "en": "Cambodia"
279     },
280     "Beskrivning": {},
281     "Dolt": false,
282     "Giltighetsperiod": {},
283     "ID": "88",
284     "Kod": "KH",
285     "LarosateID": -1
286 },
287 {
288     "Benamning": {
289         "sv": "Kiribati",
290         "en": "Kiribati"
291     },
292     "Beskrivning": {},
293     "Dolt": false,
294     "Giltighetsperiod": {},
295     "ID": "89",

```

```
296     "Kod": "KI",
297     "LarosateID": -1
298 },
299 {
300     "Benamning": {
301         "sv": "Nordkorea",
302         "en": "North Korea"
303     },
304     "Beskrivning": {
305         "sv": "Demokratiska folkrepubliken Korea/Democratic People's Republic of Korea"
306     },
307     "Dolt": false,
308     "Giltighetsperiod": {},
309     "ID": "90",
310     "Kod": "KP",
311     "LarosateID": -1
312 },
313 {
314     "Benamning": {
315         "sv": "Sydkorea",
316         "en": "South Korea"
317     },
318     "Beskrivning": {
319         "sv": "Republiken Korea/The Republic of Korea"
320     },
321     "Dolt": false,
322     "Giltighetsperiod": {},
323     "ID": "91",
324     "Kod": "KR",
325     "LarosateID": -1
326 },
327 {
328     "Benamning": {
329         "sv": "Kuwait",
330         "en": "Kuwait"
331     },
332     "Beskrivning": {},
333     "Dolt": false,
334     "Giltighetsperiod": {},
335     "ID": "92",
336     "Kod": "KW",
337     "LarosateID": -1
338 },
339 {
340     "Benamning": {
341         "sv": "Kazakstan",
342         "en": "Kazakhstan"
343     },
344     "Beskrivning": {},
345     "Dolt": false,
346     "Giltighetsperiod": {},
```

```

347     "ID": "93",
348     "Kod": "KZ",
349     "LarosateID": -1
350 },
351 {
352     "Benamning": {
353         "sv": "Laos",
354         "en": "Laos"
355     },
356     "Beskrivning": {},
357     "Dolt": false,
358     "Giltighetsperiod": {},
359     "ID": "94",
360     "Kod": "LA",
361     "LarosateID": -1
362 },
363 {
364     "Benamning": {
365         "sv": "Libanon",
366         "en": "Lebanon"
367     },
368     "Beskrivning": {},
369     "Dolt": false,
370     "Giltighetsperiod": {},
371     "ID": "95",
372     "Kod": "LB",
373     "LarosateID": -1
374 },
375 {
376     "Benamning": {
377         "sv": "Liechtenstein",
378         "en": "Liechtenstein"
379     },
380     "Beskrivning": {},
381     "Dolt": false,
382     "Giltighetsperiod": {},
383     "ID": "96",
384     "Kod": "LI",
385     "LarosateID": -1
386 },
387 {
388     "Benamning": {
389         "sv": "Sri Lanka",
390         "en": "Sri Lanka"
391     },
392     "Beskrivning": {},
393     "Dolt": false,
394     "Giltighetsperiod": {},
395     "ID": "97",
396     "Kod": "LK",
397     "LarosateID": -1

```

```

398     },
399     {
400         "Benamning": {
401             "sv": "Liberia",
402             "en": "Liberia"
403         },
404         "Beskrivning": {},
405         "Dolt": false,
406         "Giltighetsperiod": {},
407         "ID": "98",
408         "Kod": "LR",
409         "LarosateID": -1
410     },
411     {
412         "Benamning": {
413             "sv": "Peru",
414             "en": "Peru"
415         },
416         "Beskrivning": {},
417         "Dolt": false,
418         "Giltighetsperiod": {},
419         "ID": "132",
420         "Kod": "PE",
421         "LarosateID": -1
422     },
423     {
424         "Benamning": {
425             "sv": "Papua Nya Guinea",
426             "en": "Papua New Guinea"
427         },
428         "Beskrivning": {},
429         "Dolt": false,
430         "Giltighetsperiod": {},
431         "ID": "133",
432         "Kod": "PG",
433         "LarosateID": -1
434     },
435     {
436         "Benamning": {
437             "sv": "Filippinerna",
438             "en": "Philippines"
439         },
440         "Beskrivning": {},
441         "Dolt": false,
442         "Giltighetsperiod": {},
443         "ID": "134",
444         "Kod": "PH",
445         "LarosateID": -1
446     },
447     {
448         "Benamning": {

```

```
449     "sv": "Pakistan",
450     "en": "Pakistan"
451 },
452 "Beskrivning": {},
453 "Dolt": false,
454 "Giltighetsperiod": {},
455 "ID": "135",
456 "Kod": "PK",
457 "LarosateID": -1
458 },
459 {
460   "Benamning": {
461     "sv": "Polen",
462     "en": "Poland"
463   },
464   "Beskrivning": {},
465   "Dolt": false,
466   "Giltighetsperiod": {},
467   "ID": "136",
468   "Kod": "PL",
469   "LarosateID": -1
470 },
471 {
472   "Benamning": {
473     "sv": "Puerto Rico",
474     "en": "Puerto Rico"
475   },
476   "Beskrivning": {},
477   "Dolt": false,
478   "Giltighetsperiod": {},
479   "ID": "137",
480   "Kod": "PR",
481   "LarosateID": -1
482 },
483 {
484   "Benamning": {
485     "sv": "Palestina",
486     "en": "Palestine"
487   },
488   "Beskrivning": {},
489   "Dolt": false,
490   "Giltighetsperiod": {},
491   "ID": "138",
492   "Kod": "PS",
493   "LarosateID": -1
494 },
495 {
496   "Benamning": {
497     "sv": "Portugal",
498     "en": "Portugal"
499   },
```

```

500     "Beskrivning": {},
501     "Dolt": false,
502     "Giltighetsperiod": {},
503     "ID": "139",
504     "Kod": "PT",
505     "LarosateID": -1
506 },
507 {
508     "Benamning": {
509         "sv": "Paraguay",
510         "en": "Paraguay"
511     },
512     "Beskrivning": {},
513     "Dolt": false,
514     "Giltighetsperiod": {},
515     "ID": "140",
516     "Kod": "PY",
517     "LarosateID": -1
518 },
519 {
520     "Benamning": {
521         "sv": "Qatar",
522         "en": "Qatar"
523     },
524     "Beskrivning": {},
525     "Dolt": false,
526     "Giltighetsperiod": {},
527     "ID": "141",
528     "Kod": "QA",
529     "LarosateID": -1
530 },
531 {
532     "Benamning": {
533         "sv": "Rum\u00e4nien",
534         "en": "Romania"
535     },
536     "Beskrivning": {},
537     "Dolt": false,
538     "Giltighetsperiod": {},
539     "ID": "142",
540     "Kod": "RO",
541     "LarosateID": -1
542 },
543 {
544     "Benamning": {
545         "sv": "Somalia",
546         "en": "Somalia"
547     },
548     "Beskrivning": {},
549     "Dolt": false,
550     "Giltighetsperiod": {},

```



```

551     "ID": "154",
552     "Kod": "SO",
553     "LarosateID": -1
554 },
555 {
556     "Benamning": {
557         "sv": "Surinam",
558         "en": "Suriname"
559     },
560     "Beskrivning": {},
561     "Dolt": false,
562     "Giltighetsperiod": {},
563     "ID": "155",
564     "Kod": "SR",
565     "LarosateID": -1
566 },
567 {
568     "Benamning": {
569         "sv": "S\u00e3o Tom\u00e9 och Pr\u00e4ncipe",
570         "en": "S\u00e3o Tom\u00e9 and Pr\u00e4ncipe"
571     },
572     "Beskrivning": {},
573     "Dolt": false,
574     "Giltighetsperiod": {},
575     "ID": "156",
576     "Kod": "ST",
577     "LarosateID": -1
578 },
579 {
580     "Benamning": {
581         "sv": "El Salvador",
582         "en": "El Salvador"
583     },
584     "Beskrivning": {},
585     "Dolt": false,
586     "Giltighetsperiod": {},
587     "ID": "157",
588     "Kod": "SV",
589     "LarosateID": -1
590 },
591 {
592     "Benamning": {
593         "sv": "Syrien",
594         "en": "Syria"
595     },
596     "Beskrivning": {},
597     "Dolt": false,
598     "Giltighetsperiod": {},
599     "ID": "158",
600     "Kod": "SY",
601     "LarosateID": -1

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604         "Benamning": {
605             "sv": "Eswatini",
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607         },
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609             "sv": "Landet bytte namn fr\u00e5n Swaziland till Eswatini i april 2018"
610         },
611         "Dolt": false,
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642         "Benamning": {
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644             "en": "Thailand"
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646         "Beskrivning": {},
647         "Dolt": false,
648         "Giltighetsperiod": {},
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654         "Benamning": {
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656             "en": "Tajikistan"
657         },
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668             "en": "Timor-Leste"
669         },
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680             "en": "Cook Islands"
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700     },
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711 "LarosateID": -1
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715     "sv": "Falklands\u00f6arna",
716     "en": "Falkland Islands"
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722   "Kod": "FK",
723   "LarosateID": -1
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729   },
730   "Beskrivning": {},
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733   "ID": "101021",
734   "Kod": "GF",
735   "LarosateID": -1
736 },
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741   },
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746   "Kod": "PF",
747   "LarosateID": -1
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750   "Benamning": {
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752     "en": "Guam"
753   },
754   "Beskrivning": {},

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766     "Beskrivning": {},
767     "Dolt": false,
768     "Giltighetsperiod": {
769         "Slutdatum": "2003-02-04",
770         "Startdatum": "1918-12-01"
771     },
772     "ID": "101024",
773     "Kod": "YU",
774     "LarosateID": -1
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779         "en": "Comoros"
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798     "LarosateID": -1
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803         "en": "Marshall Islands"
804     },
805     "Beskrivning": {},

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829     "Beskrivning": {},
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833     "Kod": "BD",
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856     "ID": "14",

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861     "Benamning": {
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863         "en": "Bulgaria"
864     },
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875         "en": "Bahrain"
876     },
877     "Beskrivning": {},
878     "Dolt": false,
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880     "ID": "16",
881     "Kod": "BH",
882     "LarosateID": -1
883 },
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885     "Benamning": {
886         "sv": "Burundi",
887         "en": "Burundi"
888     },
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897     "Benamning": {
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899         "en": "Benin"
900     },
901     "Beskrivning": {},
902     "Dolt": false,
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906     "LarosateID": -1
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911             "en": "Brunei"
912         },
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914             "sv": "\u00c4ven namnformen Brunei Darussalam anv\u00e4nds"
915         },
916         "Dolt": false,
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918         "ID": "19",
919         "Kod": "BN",
920         "LarosateID": -1
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924             "sv": "Bolivia",
925             "en": "Bolivia"
926         },
927         "Beskrivning": {},
928         "Dolt": false,
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931         "Kod": "BO",
932         "LarosateID": -1
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935         "Benamning": {
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937             "en": "Brazil"
938         },
939         "Beskrivning": {},
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944         "LarosateID": -1
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949             "en": "Greece"
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954         "ID": "66",
955         "Kod": "GR",
956         "LarosateID": -1
957     },
958     {

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961         "en": "Guatemala"
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973         "en": "Guinea-Bissau"
974     },
975     "Beskrivning": {},
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979     "Kod": "GW",
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981 },
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983     "Benamning": {
984         "sv": "Guyana",
985         "en": "Guyana"
986     },
987     "Beskrivning": {},
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989     "Giltighetsperiod": {},
990     "ID": "69",
991     "Kod": "GY",
992     "LarosateID": -1
993 },
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995     "Benamning": {
996         "sv": "Hongkong",
997         "en": "Hong Kong"
998     },
999     "Beskrivning": {},
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1006 {
1007     "Benamning": {
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1009         "en": "Honduras"

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1014     "ID": "71",
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1033         "en": "Haiti"
1034     },
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1045         "en": "Hungary"
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1052     "LarosateID": -1
1053 },
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1055     "Benamning": {
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1057         "en": "Indonesia"
1058     },
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1060     "Dolt": false,

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1093         "en": "Myanmar"
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1097     },
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1108     },
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1155         "en": "Mauritius"
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1159     "Giltighetsperiod": {},
1160     "ID": "116",
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1227         "en": "Tunisia"
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1229     "Beskrivning": {},
1230     "Dolt": false,
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1237     "Benamning": {
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1239         "en": "Turkey"
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1251         "en": "Trinidad and Tobago"
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1253     "Beskrivning": {},
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1263         "en": "Taiwan"
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1287         "en": "Ukraine"
1288     },
1289     "Beskrivning": {},
1290     "Dolt": false,
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1292     "ID": "171",
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1294     "LarosateID": -1
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1299         "en": "Uganda"
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1309     "Benamning": {
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1312     },
1313     "Beskrivning": {
1314         "sv": "F\u00f6renta staterna/United States of America"
1315     },

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1328     "Dolt": false,
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1332     "LarosateID": -1
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1337         "en": "Uzbekistan"
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1363     "Beskrivning": {},
1364     "Dolt": false,
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1366     "ID": "101029",
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1374     },
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1391     "Kod": "NU",
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1435       "en": "Saint Kitts and Nevis"
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1462       "en": "Soviet Union"
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1468       "Startdatum": "1922-12-30"
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1518     "Dolt": false,
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1635         "en": "Cameroon"
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1719         "en": "Czech Republic"
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1721     "Beskrivning": {},
1722     "Dolt": false,
1723     "Giltighetsperiod": {},
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1731         "en": "Germany"
1732     },
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1734     "Dolt": false,
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1742         "sv": "Danmark",
1743         "en": "Denmark"
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1755         "en": "Dominican Republic"
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1767         "en": "Algeria"
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1791             "en": "Estonia"
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1793         "Beskrivning": {},
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1815             "en": "Eritrea"
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1822         "LarosateID": -1
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1851         "en": "Finland"
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1854     "Dolt": false,
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1857     "Kod": "FI",
1858     "LarosateID": -1
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1861     "Benamning": {
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1863         "en": "Fiji"
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1865     "Beskrivning": {},
1866     "Dolt": false,
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1870     "LarosateID": -1
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1873     "Benamning": {
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1875         "en": "Faroe Islands"
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1925     "Beskrivning": {},
1926     "Dolt": false,
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1942     "LarosateID": -1
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1947         "en": "Italy"
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1952     "ID": "82",
1953     "Kod": "IT",
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1959         "en": "Jamaica"
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1966     "LarosateID": -1
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1971         "en": "Jordan"
1972     },
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1976     "ID": "84",
1977     "Kod": "JO",
1978     "LarosateID": -1
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1995             "en": "Kenya"
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1997         "Beskrivning": {},
1998         "Dolt": false,
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2026         "LarosateID": -1
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2028     {
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2031         "en": "New Caledonia"
2032     },
2033     "Beskrivning": {},
2034     "Dolt": false,
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2043         "en": "Niger"
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2050     "LarosateID": -1
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2053     "Benamning": {
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2055         "en": "Nigeria"
2056     },
2057     "Beskrivning": {},
2058     "Dolt": false,
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2062     "LarosateID": -1
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2066         "sv": "Nicaragua",
2067         "en": "Nicaragua"
2068     },
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2074     "LarosateID": -1
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2077     "Benamning": {
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2079         "en": "Netherlands"
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2091         "en": "Norway"
2092     },
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2094     "Dolt": false,
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2096     "ID": "127",
2097     "Kod": "NO",
2098     "LarosateID": -1
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2103         "en": "Nepal"
2104     },
2105     "Beskrivning": {},
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2115         "en": "New Zealand"
2116     },
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2118     "Dolt": false,
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2127         "en": "Oman"
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2146     "LarosateID": -1
2147 },
2148 {
2149     "Benamning": {
2150         "sv": "Serbien",
2151         "en": "Serbia"
2152     },
2153     "Beskrivning": {},
2154     "Dolt": false,
2155     "Giltighetsperiod": {},
2156     "ID": "143",
2157     "Kod": "RS",
2158     "LarosateID": -1
2159 },
2160 {
2161     "Benamning": {
2162         "sv": "Ryssland",
2163         "en": "Russia"
2164     },
2165     "Beskrivning": {},
2166     "Dolt": false,
2167     "Giltighetsperiod": {},
2168     "ID": "144",
2169     "Kod": "RU",
2170     "LarosateID": -1
2171 },
2172 {
2173     "Benamning": {
2174         "sv": "Rwanda",
2175         "en": "Rwanda"
2176     },
2177     "Beskrivning": {},
2178     "Dolt": false,
2179     "Giltighetsperiod": {},
2180     "ID": "145",
2181     "Kod": "RW",
2182     "LarosateID": -1
```



```

2183     },
2184     {
2185         "Benamning": {
2186             "sv": "Saudiarabien",
2187             "en": "Saudi Arabia"
2188         },
2189         "Beskrivning": {},
2190         "Dolt": false,
2191         "Giltighetsperiod": {},
2192         "ID": "146",
2193         "Kod": "SA",
2194         "LarosateID": -1
2195     },
2196     {
2197         "Benamning": {
2198             "sv": "Seychellerna",
2199             "en": "Seychelles"
2200         },
2201         "Beskrivning": {},
2202         "Dolt": false,
2203         "Giltighetsperiod": {},
2204         "ID": "147",
2205         "Kod": "SC",
2206         "LarosateID": -1
2207     },
2208     {
2209         "Benamning": {
2210             "sv": "Sudan",
2211             "en": "Sudan"
2212         },
2213         "Beskrivning": {},
2214         "Dolt": false,
2215         "Giltighetsperiod": {},
2216         "ID": "148",
2217         "Kod": "SD",
2218         "LarosateID": -1
2219     },
2220     {
2221         "Benamning": {
2222             "sv": "Singapore",
2223             "en": "Singapore"
2224         },
2225         "Beskrivning": {},
2226         "Dolt": false,
2227         "Giltighetsperiod": {},
2228         "ID": "149",
2229         "Kod": "SG",
2230         "LarosateID": -1
2231     },
2232     {
2233         "Benamning": {

```

```

2234         "sv": "Slovenien",
2235         "en": "Slovenia"
2236     },
2237     "Beskrivning": {},
2238     "Dolt": false,
2239     "Giltighetsperiod": {},
2240     "ID": "150",
2241     "Kod": "SI",
2242     "LarosateID": -1
2243 },
2244 {
2245     "Benamning": {
2246         "sv": "Slovakien",
2247         "en": "Slovakia"
2248     },
2249     "Beskrivning": {},
2250     "Dolt": false,
2251     "Giltighetsperiod": {},
2252     "ID": "151",
2253     "Kod": "SK",
2254     "LarosateID": -1
2255 },
2256 {
2257     "Benamning": {
2258         "sv": "Sierra Leone",
2259         "en": "Sierra Leone"
2260     },
2261     "Beskrivning": {},
2262     "Dolt": false,
2263     "Giltighetsperiod": {},
2264     "ID": "152",
2265     "Kod": "SL",
2266     "LarosateID": -1
2267 },
2268 {
2269     "Benamning": {
2270         "sv": "Senegal",
2271         "en": "Senegal"
2272     },
2273     "Beskrivning": {},
2274     "Dolt": false,
2275     "Giltighetsperiod": {},
2276     "ID": "153",
2277     "Kod": "SN",
2278     "LarosateID": -1
2279 },
2280 {
2281     "Benamning": {
2282         "sv": "Vatikanstaten",
2283         "en": "Vatican City State"
2284     },

```

```

2285     "Beskrivning": {
2286       "sv": "Heliga stolen/The Holy See"
2287     },
2288     "Dolt": false,
2289     "Giltighetsperiod": {},
2290     "ID": "176",
2291     "Kod": "VA",
2292     "LarosateID": -1
2293   },
2294   {
2295     "Benamning": {
2296       "sv": "Venezuela",
2297       "en": "Venezuela"
2298     },
2299     "Beskrivning": {},
2300     "Dolt": false,
2301     "Giltighetsperiod": {},
2302     "ID": "177",
2303     "Kod": "VE",
2304     "LarosateID": -1
2305   },
2306   {
2307     "Benamning": {
2308       "sv": "Vietnam",
2309       "en": "Viet Nam"
2310     },
2311     "Beskrivning": {},
2312     "Dolt": false,
2313     "Giltighetsperiod": {},
2314     "ID": "178",
2315     "Kod": "VN",
2316     "LarosateID": -1
2317   },
2318   {
2319     "Benamning": {
2320       "sv": "Samoa",
2321       "en": "Samoa"
2322     },
2323     "Beskrivning": {},
2324     "Dolt": false,
2325     "Giltighetsperiod": {},
2326     "ID": "179",
2327     "Kod": "WS",
2328     "LarosateID": -1
2329   },
2330   {
2331     "Benamning": {
2332       "sv": "Jemen",
2333       "en": "Yemen"
2334     },
2335     "Beskrivning": {},

```

```
2336     "Dolt": false,
2337     "Giltighetsperiod": {},
2338     "ID": "180",
2339     "Kod": "YE",
2340     "LarosateID": -1
2341 },
2342 {
2343     "Benamning": {
2344         "sv": "Sydafrika",
2345         "en": "South Africa"
2346     },
2347     "Beskrivning": {},
2348     "Dolt": false,
2349     "Giltighetsperiod": {},
2350     "ID": "181",
2351     "Kod": "ZA",
2352     "LarosateID": -1
2353 },
2354 {
2355     "Benamning": {
2356         "sv": "Zambia",
2357         "en": "Zambia"
2358     },
2359     "Beskrivning": {},
2360     "Dolt": false,
2361     "Giltighetsperiod": {},
2362     "ID": "182",
2363     "Kod": "ZM",
2364     "LarosateID": -1
2365 },
2366 {
2367     "Benamning": {
2368         "sv": "Zimbabwe",
2369         "en": "Zimbabwe"
2370     },
2371     "Beskrivning": {},
2372     "Dolt": false,
2373     "Giltighetsperiod": {},
2374     "ID": "183",
2375     "Kod": "ZW",
2376     "LarosateID": -1
2377 },
2378 {
2379     "Benamning": {
2380         "sv": "Amerikanska Jungfru\u00f6rarna",
2381         "en": "U.S. Virgin Islands"
2382     },
2383     "Beskrivning": {},
2384     "Dolt": false,
2385     "Giltighetsperiod": {},
2386     "ID": "101010",
```

```
2387     "Kod": "VI",
2388     "LarosateID": -1
2389 },
2390 {
2391     "Benamning": {
2392         "sv": "Amerikanska Samoa",
2393         "en": "American Samoa"
2394     },
2395     "Beskrivning": {},
2396     "Dolt": false,
2397     "Giltighetsperiod": {},
2398     "ID": "101011",
2399     "Kod": "AS",
2400     "LarosateID": -1
2401 },
2402 {
2403     "Benamning": {
2404         "sv": "Andorra",
2405         "en": "Andorra"
2406     },
2407     "Beskrivning": {},
2408     "Dolt": false,
2409     "Giltighetsperiod": {},
2410     "ID": "101012",
2411     "Kod": "AD",
2412     "LarosateID": -1
2413 },
2414 {
2415     "Benamning": {
2416         "sv": "Antigua och Barbuda",
2417         "en": "Antigua and Barbuda"
2418     },
2419     "Beskrivning": {},
2420     "Dolt": false,
2421     "Giltighetsperiod": {},
2422     "ID": "101013",
2423     "Kod": "AG",
2424     "LarosateID": -1
2425 },
2426 {
2427     "Benamning": {
2428         "sv": "Aruba",
2429         "en": "Aruba"
2430     },
2431     "Beskrivning": {},
2432     "Dolt": false,
2433     "Giltighetsperiod": {},
2434     "ID": "101014",
2435     "Kod": "AW",
2436     "LarosateID": -1
2437 },
```

```
2438     {
2439         "Benamning": {
2440             "sv": "Bermuda",
2441             "en": "Bermuda"
2442         },
2443         "Beskrivning": {},
2444         "Dolt": false,
2445         "Giltighetsperiod": {},
2446         "ID": "101015",
2447         "Kod": "BM",
2448         "LarosateID": -1
2449     },
2450     {
2451         "Benamning": {
2452             "sv": "Cayman\u00f6arna",
2453             "en": "Cayman Islands"
2454         },
2455         "Beskrivning": {},
2456         "Dolt": false,
2457         "Giltighetsperiod": {},
2458         "ID": "101016",
2459         "Kod": "KY",
2460         "LarosateID": -1
2461     },
2462     {
2463         "Benamning": {
2464             "sv": "Turks- och Caicos\u00f6arna",
2465             "en": "Turks and Caicos Islands"
2466         },
2467         "Beskrivning": {},
2468         "Dolt": false,
2469         "Giltighetsperiod": {},
2470         "ID": "101039",
2471         "Kod": "TC",
2472         "LarosateID": -1
2473     },
2474     {
2475         "Benamning": {
2476             "sv": "Tuvalu",
2477             "en": "Tuvalu"
2478         },
2479         "Beskrivning": {},
2480         "Dolt": false,
2481         "Giltighetsperiod": {},
2482         "ID": "101040",
2483         "Kod": "TV",
2484         "LarosateID": -1
2485     },
2486     {
2487         "Benamning": {
2488             "sv": "V\u00e4stsahara",
```

```

2489         "en": "Western Sahara"
2490     },
2491     "Beskrivning": {},
2492     "Dolt": false,
2493     "Giltighetsperiod": {},
2494     "ID": "101041",
2495     "Kod": "EH",
2496     "LarosateID": -1
2497 },
2498 {
2499     "Benamning": {
2500         "sv": "\u00c5land",
2501         "en": "\u00c5land Islands"
2502     },
2503     "Beskrivning": {},
2504     "Dolt": false,
2505     "Giltighetsperiod": {},
2506     "ID": "101042",
2507     "Kod": "AX",
2508     "LarosateID": -1
2509 },
2510 {
2511     "Benamning": {
2512         "sv": "San Marino",
2513         "en": "San Marino"
2514     },
2515     "Beskrivning": {},
2516     "Dolt": false,
2517     "Giltighetsperiod": {},
2518     "ID": "101090",
2519     "Kod": "SM",
2520     "LarosateID": -1
2521 },
2522 {
2523     "Benamning": {
2524         "sv": "Vanuatu",
2525         "en": "Vanuatu"
2526     },
2527     "Beskrivning": {},
2528     "Dolt": false,
2529     "Giltighetsperiod": {},
2530     "ID": "101130",
2531     "Kod": "VU",
2532     "LarosateID": -1
2533 },
2534 {
2535     "Benamning": {
2536         "sv": "Europeiska unionen",
2537         "en": "European Union"
2538     },
2539     "Beskrivning": {

```

```

2540         "sv": "Anv\u00e4nds f\u00f6r European Universities Alliances och andra EU-initierade verksamhet
2541     },
2542     "Dolt": false,
2543     "Giltighetsperiod": {},
2544     "ID": "153940",
2545     "Kod": "EU",
2546     "LarosateID": -1
2547 },
2548 {
2549     "Benamning": {
2550         "sv": "Maldiverna",
2551         "en": "Maldives"
2552     },
2553     "Beskrivning": {},
2554     "Dolt": false,
2555     "Giltighetsperiod": {},
2556     "ID": "155075",
2557     "Kod": "MV",
2558     "LarosateID": -1
2559 },
2560 {
2561     "Benamning": {
2562         "sv": "Brittiska Jungfru\u00f6arna",
2563         "en": "British Virgin Islands"
2564     },
2565     "Beskrivning": {},
2566     "Dolt": false,
2567     "Giltighetsperiod": {},
2568     "ID": "162230",
2569     "Kod": "VG",
2570     "LarosateID": -1
2571 },
2572 {
2573     "Benamning": {
2574         "sv": "Saint Vincent och Grenadinerna",
2575         "en": "Saint Vincent and the Grenadines"
2576     },
2577     "Beskrivning": {},
2578     "Dolt": false,
2579     "Giltighetsperiod": {},
2580     "ID": "164277",
2581     "Kod": "VC",
2582     "LarosateID": -1
2583 },
2584 {
2585     "Benamning": {
2586         "sv": "Lesotho",
2587         "en": "Lesotho"
2588     },
2589     "Beskrivning": {},
2590     "Dolt": false,

```



```

2591     "Giltighetsperiod": {},
2592     "ID": "99",
2593     "Kod": "LS",
2594     "LarosateID": -1
2595 },
2596 {
2597     "Benamning": {
2598         "sv": "Litauen",
2599         "en": "Lithuania"
2600     },
2601     "Beskrivning": {},
2602     "Dolt": false,
2603     "Giltighetsperiod": {},
2604     "ID": "100",
2605     "Kod": "LT",
2606     "LarosateID": -1
2607 },
2608 {
2609     "Benamning": {
2610         "sv": "Luxemburg",
2611         "en": "Luxembourg"
2612     },
2613     "Beskrivning": {},
2614     "Dolt": false,
2615     "Giltighetsperiod": {},
2616     "ID": "101",
2617     "Kod": "LU",
2618     "LarosateID": -1
2619 },
2620 {
2621     "Benamning": {
2622         "sv": "Lettland",
2623         "en": "Latvia"
2624     },
2625     "Beskrivning": {},
2626     "Dolt": false,
2627     "Giltighetsperiod": {},
2628     "ID": "102",
2629     "Kod": "LV",
2630     "LarosateID": -1
2631 },
2632 {
2633     "Benamning": {
2634         "sv": "Libyen",
2635         "en": "Libya"
2636     },
2637     "Beskrivning": {},
2638     "Dolt": false,
2639     "Giltighetsperiod": {},
2640     "ID": "103",
2641     "Kod": "LY",

```

```
2642     "LarosateID": -1
2643   },
2644   {
2645     "Benamning": {
2646       "sv": "Marocko",
2647       "en": "Morocco"
2648     },
2649     "Beskrivning": {},
2650     "Dolt": false,
2651     "Giltighetsperiod": {},
2652     "ID": "104",
2653     "Kod": "MA",
2654     "LarosateID": -1
2655   },
2656   {
2657     "Benamning": {
2658       "sv": "Monaco",
2659       "en": "Monaco"
2660     },
2661     "Beskrivning": {},
2662     "Dolt": false,
2663     "Giltighetsperiod": {},
2664     "ID": "105",
2665     "Kod": "MC",
2666     "LarosateID": -1
2667   },
2668   {
2669     "Benamning": {
2670       "sv": "Moldavien",
2671       "en": "Moldova"
2672     },
2673     "Beskrivning": {},
2674     "Dolt": false,
2675     "Giltighetsperiod": {},
2676     "ID": "106",
2677     "Kod": "MD",
2678     "LarosateID": -1
2679   },
2680   {
2681     "Benamning": {
2682       "sv": "Montenegro",
2683       "en": "Montenegro"
2684     },
2685     "Beskrivning": {},
2686     "Dolt": false,
2687     "Giltighetsperiod": {},
2688     "ID": "107",
2689     "Kod": "ME",
2690     "LarosateID": -1
2691   },
2692   {
```

```

2693     "Benamning": {
2694         "sv": "Madagaskar",
2695         "en": "Madagascar"
2696     },
2697     "Beskrivning": {},
2698     "Dolt": false,
2699     "Giltighetsperiod": {},
2700     "ID": "108",
2701     "Kod": "MG",
2702     "LarosateID": -1
2703 },
2704 {
2705     "Benamning": {
2706         "sv": "Nordmakedonien",
2707         "en": "North Macedonia"
2708     },
2709     "Beskrivning": {
2710         "sv": "F\u00f6re 2019-02-12 Makedonien eller F\u00f6re detta jugoslaviska republiken Makedonien"
2711     },
2712     "Dolt": false,
2713     "Giltighetsperiod": {},
2714     "ID": "109",
2715     "Kod": "MK",
2716     "LarosateID": -1
2717 }
2718 ]
2719 }

```

## 20.9 undervisningstid\_JSON

```

924a <LadokSession data methods 151b>+≡
# added by GQMJr
def undervisningstid_JSON(self) -> dict:
    """
    Returns a dictionary of teaching times.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/undervisningstid',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

```

924b <test functions 151a>+≡
def test_undervisningstid_JSON() -> None:
    r = ladok.undervisningstid_JSON()
    assert type(r) == dict

```

This code is used in chunk 146.

The output looks like this:

```

1  {
2    "Undervisningstid": [
3      {
4        "Benamning": {
5          "sv": "Blandad undervisningstid",
6          "en": "Mixed-time"
7        },
8        "Beskrivning": {},
9        "Dolt": true,
10       "Giltighetsperiod": {},
11       "ID": "101051",
12       "Kod": "BLA",
13       "LarosateID": -1
14     },
15     {
16       "Benamning": {
17         "sv": "Dagtid",
18         "en": "Day-time"
19       },
20       "Beskrivning": {},
21       "Dolt": false,
22       "Giltighetsperiod": {},
23       "ID": "101052",
24       "Kod": "DAG",
25       "LarosateID": -1
26     },
27     {
28       "Benamning": {
29         "sv": "Eftermiddagstid",
30         "en": "Afternoon-time"
31       },
32       "Beskrivning": {},
33       "Dolt": true,
34       "Giltighetsperiod": {},
35       "ID": "101053",
36       "Kod": "EFT",
37       "LarosateID": -1
38     },
39     {
40       "Benamning": {
41         "sv": "Ingen undervisningstid",
42         "en": "No teaching"
43       },
44       "Beskrivning": {},
45       "Dolt": true,
46       "Giltighetsperiod": {
47         "Slutdatum": "2016-04-30"
48       },
49       "ID": "101054",

```

```

50     "Kod": "ING",
51     "LarosateID": -1
52 },
53 {
54     "Benamning": {
55         "sv": "Ingen schemalagd undervisning",
56         "en": "No scheduled teaching"
57     },
58     "Beskrivning": {},
59     "Dolt": false,
60     "Giltighetsperiod": {},
61     "ID": "164218",
62     "Kod": "ISU",
63     "LarosateID": -1
64 },
65 {
66     "Benamning": {
67         "sv": "Kv\u00e4llstid",
68         "en": "Evening-time"
69     },
70     "Beskrivning": {},
71     "Dolt": false,
72     "Giltighetsperiod": {},
73     "ID": "101055",
74     "Kod": "KV\u00c4",
75     "LarosateID": -1
76 },
77 {
78     "Benamning": {
79         "sv": "Veckoslut",
80         "en": "Weekends"
81     },
82     "Beskrivning": {},
83     "Dolt": false,
84     "Giltighetsperiod": {},
85     "ID": "101056",
86     "Kod": "VSL",
87     "LarosateID": -1
88 }
89 ]
90 }

```

## 20.10 successivfordjupning\_JSON

```

926 <LadokSession data methods 151b>+=
# RETURNERAR JSON of Successive Specializations
def successivfordjupning_JSON(self) -> dict:
    """
    Returns a dictionary of Successive Specializations.
    """

```

```

r = self.session.get(
    url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/successivfordjupning',
    headers=self.headers).json()
return r

```

Let's add a test. This should return a dictionary.

```

927 <test functions 151a>+=
def test_successivfordjupning_JSON() -> None:
    r = ladok.successivfordjupning_JSON()
    assert type(r) == dict

```

This code is used in chunk 146.

The output looks like this:

```

1  {
2    "SuccessivFordjupning": [
3      {
4        "Benamning": {
5          "sv": "Avancerad niv\u00e5, inneh\u00e5ller examensarbete f\u00f6r magisterexamen",
6          "en": "Second cycle, contains degree project for Master of Arts/Master of Science (60 credits)"
7        },
8        "Beskrivning": {},
9        "Dolt": false,
10       "Giltighetsperiod": {},
11       "ID": "1",
12       "Kod": "A1E",
13       "LarosateID": -1,
14       "NivaInomStudieordningID": 2
15     },
16     {
17       "Benamning": {
18         "sv": "Avancerad niv\u00e5, har kurs/er p\u00e5 avancerad niv\u00e5 som f\u00f6rkunskapskrav",
19         "en": "Second cycle, has second-cycle course/s as entry requirements"
20       },
21       "Beskrivning": {},
22       "Dolt": false,
23       "Giltighetsperiod": {},
24       "ID": "2",
25       "Kod": "A1F",
26       "LarosateID": -1,
27       "NivaInomStudieordningID": 2
28     },
29     {
30       "Benamning": {
31         "sv": "Avancerad niv\u00e5, har endast kurs/er p\u00e5 grundniv\u00e5 som f\u00f6rkunskapskrav",
32         "en": "Second cycle, has only first-cycle course/s as entry requirements"
33       },
34       "Beskrivning": {},
35       "Dolt": false,
36       "Giltighetsperiod": {},
37       "ID": "3",

```

```

38     "Kod": "A1N",
39     "LarosateID": -1,
40     "NivaInomStudieordningID": 2
41 },
42 {
43     "Benamning": {
44         "sv": "Avancerad niv\u00e5, inneh\u00e5ller examensarbete f\u00f6r masterexamen",
45         "en": "Second cycle, contains degree project for Master of Arts/Master of Science (120 credits)"
46     },
47     "Beskrivning": {},
48     "Dolt": false,
49     "Giltighetsperiod": {},
50     "ID": "4",
51     "Kod": "A2E",
52     "LarosateID": -1,
53     "NivaInomStudieordningID": 2
54 },
55 {
56     "Benamning": {
57         "sv": "Avancerad niv\u00e5, kursens f\u00f6rdjupning kan inte klassificeras",
58         "en": "Second cycle, in-depth level of the course cannot be classified"
59     },
60     "Beskrivning": {},
61     "Dolt": false,
62     "Giltighetsperiod": {},
63     "ID": "5",
64     "Kod": "AXX",
65     "LarosateID": -1,
66     "NivaInomStudieordningID": 2
67 },
68 {
69     "Benamning": {
70         "sv": "Grundniv\u00e5, inneh\u00e5ller s\u00e4rskilt utformat examensarbete f\u00f6r h\u00f6gskola",
71         "en": "First cycle, contains specially designed degree project for Higher Education Diploma"
72     },
73     "Beskrivning": {},
74     "Dolt": false,
75     "Giltighetsperiod": {},
76     "ID": "6",
77     "Kod": "G1E",
78     "LarosateID": -1,
79     "NivaInomStudieordningID": 1
80 },
81 {
82     "Benamning": {
83         "sv": "Grundniv\u00e5, har mindre \u00e4n 60 hp kurs/er p\u00e5 grundniv\u00e5 som f\u00f6rkurs",
84         "en": "First cycle, has less than 60 credits in first-cycle course/s as entry requirements"
85     },
86     "Beskrivning": {},
87     "Dolt": false,
88     "Giltighetsperiod": {},

```

```

89     "ID": "7",
90     "Kod": "G1F",
91     "LarosateID": -1,
92     "NivaInomStudieordningID": 1
93 },
94 {
95     "Benamning": {
96         "sv": "Grundniv\u00e5, har endast gymnasiala f\u00f6rkunskapskrav",
97         "en": "First cycle, has only upper-secondary level entry requirements"
98     },
99     "Beskrivning": {},
100    "Dolt": false,
101    "Giltighetsperiod": {},
102    "ID": "8",
103    "Kod": "G1N",
104    "LarosateID": -1,
105    "NivaInomStudieordningID": 1
106 },
107 {
108     "Benamning": {
109         "sv": "Grundniv\u00e5, har minst 60 hp kurs/er p\u00e5 grundniv\u00e5 som f\u00f6rkunskapskrav",
110         "en": "First cycle, has at least 60 credits in first-cycle course/s as entry requirements, cont
111     },
112     "Beskrivning": {},
113     "Dolt": false,
114     "Giltighetsperiod": {},
115     "ID": "9",
116     "Kod": "G2E",
117     "LarosateID": -1,
118     "NivaInomStudieordningID": 1
119 },
120 {
121     "Benamning": {
122         "sv": "Grundniv\u00e5, har minst 60 hp kurs/er p\u00e5 grundniv\u00e5 som f\u00f6rkunskapskrav",
123         "en": "First cycle, has at least 60 credits in first-cycle course/s as entry requirements"
124     },
125     "Beskrivning": {},
126     "Dolt": false,
127     "Giltighetsperiod": {},
128     "ID": "10",
129     "Kod": "G2F",
130     "LarosateID": -1,
131     "NivaInomStudieordningID": 1
132 },
133 {
134     "Benamning": {
135         "sv": "Grundniv\u00e5, kursens f\u00f6rdjupning kan inte klassificeras",
136         "en": "First cycle, in-depth level of the course cannot be classified"
137     },
138     "Beskrivning": {},
139     "Dolt": false,

```



```

140     "Giltighetsperiod": {},
141     "ID": "11",
142     "Kod": "GXX",
143     "LarosateID": -1,
144     "NivaInomStudieordningID": 1
145 }
146 ]
147 }

```

## 20.11 undervisningsform\_JSON

930a *<LadokSession data methods 151b>+≡*

```

# added by GQMJr
def undervisningsform_JSON(self) -> dict:
    """
    Returns forms of education.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/undervisningsform',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

930b *<test functions 151a>+≡*

```

def test_undervisningsform_JSON() -> None:
    r = ladok.undervisningsform_JSON()
    assert type(r) == dict

```

This code is used in chunk 146.

The output looks like this:

```

1  {
2    "Undervisningsform": [
3      {
4        "Benamning": {
5          "sv": "Distans",
6          "en": "Distance learning"
7        },
8        "Beskrivning": {
9          "sv": "Obligatoriska tr\u00e4ffar kan f\u00f6rekomma"
10       },
11       "Dolt": false,
12       "Giltighetsperiod": {},
13       "ID": "2",
14       "Kod": "DST",
15       "LarosateID": -1
16     },
17     {
18       "Benamning": {
19         "sv": "Ingen undervisning",

```

```

20     "en": "No teaching"
21 },
22 "Beskrivning": {},
23 "Dolt": true,
24 "Giltighetsperiod": {
25     "Slutdatum": "2016-04-30"
26 },
27 "ID": "4",
28 "Kod": "ING",
29 "LarosateID": -1
30 },
31 {
32     "Benamning": {
33         "sv": "IT-baserad distansutbildning",
34         "en": "Web-based distance learning"
35     },
36     "Beskrivning": {
37         "sv": "Ingen platsbunden undervisning"
38     },
39     "Dolt": true,
40     "Giltighetsperiod": {
41         "Slutdatum": "2016-04-30"
42     },
43     "ID": "3",
44     "Kod": "ITD",
45     "LarosateID": -1
46 },
47 {
48     "Benamning": {
49         "sv": "Normal",
50         "en": "Normal teaching"
51     },
52     "Beskrivning": {},
53     "Dolt": false,
54     "Giltighetsperiod": {},
55     "ID": "1",
56     "Kod": "NML",
57     "LarosateID": -1
58 },
59 {
60     "Benamning": {
61         "sv": "IT-baserad distans",
62         "en": "- No translation available -"
63     },
64     "Beskrivning": {},
65     "Dolt": true,
66     "Giltighetsperiod": {
67         "Slutdatum": "2018-06-19"
68     },
69     "ID": "133253",
70     "Kod": "ITD",

```

```

71     "LarosateID": 29
72 },
73 {
74     "Benamning": {
75         "sv": "Undervisningsomr\u00e5det",
76         "en": "- No translation available -"
77     },
78     "Beskrivning": {},
79     "Dolt": true,
80     "Giltighetsperiod": {
81         "Slutdatum": "2018-06-19"
82     },
83     "ID": "133252",
84     "Kod": "LU",
85     "LarosateID": 29
86 }
87 ]
88 }

```

## 20.12 LokalaPerioder\_JSON

932a *<LadokSession data methods 151b>+≡*

```

# added by GQMJr
def LokalaPerioder_JSON(self) -> dict:
    """
    Returns local periods.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url + '/kataloginformation/internal/grunddata/period',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

932b *<test functions 151a>+≡*

```

def test_LokalaPerioder_JSON() -> None:
    r = ladok.LokalaPerioder_JSON()
    assert type(r) == dict

```

This code is used in chunk 146.

The output looks like this:

```

1  {
2    "Period": [
3      {
4        "Benamning": {
5          "sv": "Andra halv\u00e5r 1937",
6          "en": "Last six months of 1937"
7        },
8        "Beskrivning": {},
9        "Dolt": false,
10       "FromDatum": "1937-07-01",

```

```

11     "Giltighetsperiod": {
12         "Slutdatum": "1937-12-31",
13         "Startdatum": "1937-07-01"
14     },
15     "ID": "29522",
16     "Kod": "1937H",
17     "LarosateID": 29,
18     "PeriodtypID": 3,
19     "TomDatum": "1937-12-31"
20 },
21 {
22     "Benamning": {
23         "sv": "Andra halv\u00e5r 1950",
24         "en": "Last six months of 1950"
25     },
26     "Beskrivning": {},
27     "Dolt": false,
28     "FromDatum": "1950-07-01",
29     "Giltighetsperiod": {
30         "Slutdatum": "1950-12-31",
31         "Startdatum": "1950-07-01"
32     },
33     "ID": "29182",
34     "Kod": "1950H",
35     "LarosateID": 29,
36     "PeriodtypID": 3,
37     "TomDatum": "1950-12-31"
38 },
39 {
40     "Benamning": {
41         "sv": "F\u00f6rsta halv\u00e5r 1950",
42         "en": "First six months of 1950"
43     },
44     "Beskrivning": {},
45     "Dolt": false,
46     "FromDatum": "1950-01-01",
47     "Giltighetsperiod": {
48         "Slutdatum": "1950-06-30",
49         "Startdatum": "1950-01-01"
50     },
51     "ID": "29254",
52     "Kod": "1950V",
53     "LarosateID": 29,
54     "PeriodtypID": 3,
55     "TomDatum": "1950-06-30"
56 },
57 {
58     "Benamning": {
59         "sv": "Andra halv\u00e5r 1951",
60         "en": "Last six months of 1951"
61     },

```

```

62     "Beskrivning": {},
63     "Dolt": false,
64     "FromDatum": "1951-07-01",
65     "Giltighetsperiod": {
66         "Slutdatum": "1951-12-31",
67         "Startdatum": "1951-07-01"
68     },
69     "ID": "29183",
70     "Kod": "1951H",
71     "LarosateID": 29,
72     "PeriodtypID": 3,
73     "TomDatum": "1951-12-31"
74 },
75 {
76     "Benamning": {
77         "sv": "F\u00f6rsta halv\u00e5r 1951",
78         "en": "First six months of 1951"
79     },
80     "Beskrivning": {},
81     "Dolt": false,
82     "FromDatum": "1951-01-01",
83     "Giltighetsperiod": {
84         "Slutdatum": "1951-06-30",
85         "Startdatum": "1951-01-01"
86     },
87     "ID": "29255",
88     "Kod": "1951V",
89     "LarosateID": 29,
90     "PeriodtypID": 3,
91     "TomDatum": "1951-06-30"
92 },
93 {
94     "Benamning": {
95         "sv": "Andra halv\u00e5r 1952",
96         "en": "Last six months of 1952"
97     },
98     "Beskrivning": {},
99     "Dolt": false,
100    "FromDatum": "1952-07-01",
101    "Giltighetsperiod": {
102        "Slutdatum": "1952-12-31",
103        "Startdatum": "1952-07-01"
104    },
105    "ID": "29184",
106    "Kod": "1952H",
107    "LarosateID": 29,
108    "PeriodtypID": 3,
109    "TomDatum": "1952-12-31"
110 },
111 {
112     "Benamning": {

```

```
113     "sv": "F\u00f6rsta halv\u00e5r 1952",
114     "en": "First six months of 1952"
115 },
116 "Beskrivning": {},
117 "Dolt": false,
118 "FromDatum": "1952-01-01",
119 "Giltighetsperiod": {
120     "Slutdatum": "1952-06-30",
121     "Startdatum": "1952-01-01"
122 },
123 "ID": "29256",
124 "Kod": "1952V",
125 "LarosateID": 29,
126 "PeriodtypID": 3,
127 "TomDatum": "1952-06-30"
128 },
129 {
130     "Benamning": {
131         "sv": "Andra halv\u00e5r 1953",
132         "en": "Last six months of 1953"
133     },
134     "Beskrivning": {},
135     "Dolt": false,
136     "FromDatum": "1953-07-01",
137     "Giltighetsperiod": {
138         "Slutdatum": "1953-12-31",
139         "Startdatum": "1953-07-01"
140     },
141     "ID": "29185",
142     "Kod": "1953H",
143     "LarosateID": 29,
144     "PeriodtypID": 3,
145     "TomDatum": "1953-12-31"
146 },
147 {
148     "Benamning": {
149         "sv": "F\u00f6rsta halv\u00e5r 1953",
150         "en": "First six months of 1953"
151     },
152     "Beskrivning": {},
153     "Dolt": false,
154     "FromDatum": "1953-01-01",
155     "Giltighetsperiod": {
156         "Slutdatum": "1953-06-30",
157         "Startdatum": "1953-01-01"
158     },
159     "ID": "29257",
160     "Kod": "1953V",
161     "LarosateID": 29,
162     "PeriodtypID": 3,
163     "TomDatum": "1953-06-30"
```

```

164     },
165     {
166         "Benamning": {
167             "sv": "Andra halv\u00e5r 1963",
168             "en": "Last six months of 1963"
169         },
170         "Beskrivning": {},
171         "Dolt": false,
172         "FromDatum": "1963-07-01",
173         "Giltighetsperiod": {
174             "Slutdatum": "1963-12-31",
175             "Startdatum": "1963-07-01"
176         },
177         "ID": "29195",
178         "Kod": "1963H",
179         "LarosateID": 29,
180         "PeriodtypID": 3,
181         "TomDatum": "1963-12-31"
182     },
183     {
184         "Benamning": {
185             "sv": "F\u00f6rsta halv\u00e5r 1963",
186             "en": "First six months of 1963"
187         },
188         "Beskrivning": {},
189         "Dolt": false,
190         "FromDatum": "1963-01-01",
191         "Giltighetsperiod": {
192             "Slutdatum": "1963-06-30",
193             "Startdatum": "1963-01-01"
194         },
195         "ID": "29267",
196         "Kod": "1963V",
197         "LarosateID": 29,
198         "PeriodtypID": 3,
199         "TomDatum": "1963-06-30"
200     },
201     {
202         "Benamning": {
203             "sv": "Andra halv\u00e5r 1964",
204             "en": "Last six months of 1964"
205         },
206         "Beskrivning": {},
207         "Dolt": false,
208         "FromDatum": "1964-07-01",
209         "Giltighetsperiod": {
210             "Slutdatum": "1964-12-31",
211             "Startdatum": "1964-07-01"
212         },
213         "ID": "29196",
214         "Kod": "1964H",

```

```

215     "LarosateID": 29,
216     "PeriodtypID": 3,
217     "TomDatum": "1964-12-31"
218 },
219 {
220     "Benamning": {
221         "sv": "F\u00f6rsta halv\u00e5r 1964",
222         "en": "First six months of 1964"
223     },
224     "Beskrivning": {},
225     "Dolt": false,
226     "FromDatum": "1964-01-01",
227     "Giltighetsperiod": {
228         "Slutdatum": "1964-06-30",
229         "Startdatum": "1964-01-01"
230     },
231     "ID": "29268",
232     "Kod": "1964V",
233     "LarosateID": 29,
234     "PeriodtypID": 3,
235     "TomDatum": "1964-06-30"
236 },
237 {
238     "Benamning": {
239         "sv": "Andra halv\u00e5r 1965",
240         "en": "Last six months of 1965"
241     },
242     "Beskrivning": {},
243     "Dolt": false,
244     "FromDatum": "1965-07-01",
245     "Giltighetsperiod": {
246         "Slutdatum": "1965-12-31",
247         "Startdatum": "1965-07-01"
248     },
249     "ID": "29197",
250     "Kod": "1965H",
251     "LarosateID": 29,
252     "PeriodtypID": 3,
253     "TomDatum": "1965-12-31"
254 },
255 {
256     "Benamning": {
257         "sv": "F\u00f6rsta halv\u00e5r 1965",
258         "en": "First six months of 1965"
259     },
260     "Beskrivning": {},
261     "Dolt": false,
262     "FromDatum": "1965-01-01",
263     "Giltighetsperiod": {
264         "Slutdatum": "1965-06-30",
265         "Startdatum": "1965-01-01"

```



```

266     },
267     "ID": "29269",
268     "Kod": "1965V",
269     "LarosateID": 29,
270     "PeriodtypID": 3,
271     "TomDatum": "1965-06-30"
272 },
273 {
274     "Benamning": {
275         "sv": "Andra halv\u00e5r 1966",
276         "en": "Last six months of 1966"
277     },
278     "Beskrivning": {},
279     "Dolt": false,
280     "FromDatum": "1966-07-01",
281     "Giltighetsperiod": {
282         "Slutdatum": "1966-12-31",
283         "Startdatum": "1966-07-01"
284     },
285     "ID": "29198",
286     "Kod": "1966H",
287     "LarosateID": 29,
288     "PeriodtypID": 3,
289     "TomDatum": "1966-12-31"
290 },
291 {
292     "Benamning": {
293         "sv": "F\u00f6rsta halv\u00e5r 1966",
294         "en": "First six months of 1966"
295     },
296     "Beskrivning": {},
297     "Dolt": false,
298     "FromDatum": "1966-01-01",
299     "Giltighetsperiod": {
300         "Slutdatum": "1966-06-30",
301         "Startdatum": "1966-01-01"
302     },
303     "ID": "29270",
304     "Kod": "1966V",
305     "LarosateID": 29,
306     "PeriodtypID": 3,
307     "TomDatum": "1966-06-30"
308 },
309 {
310     "Benamning": {
311         "sv": "Andra halv\u00e5r 1967",
312         "en": "Last six months of 1967"
313     },
314     "Beskrivning": {},
315     "Dolt": false,
316     "FromDatum": "1967-07-01",

```

```

317     "Giltighetsperiod": {
318         "Slutdatum": "1967-12-31",
319         "Startdatum": "1967-07-01"
320     },
321     "ID": "29199",
322     "Kod": "1967H",
323     "LarosateID": 29,
324     "PeriodtypID": 3,
325     "TomDatum": "1967-12-31"
326 },
327 {
328     "Benamning": {
329         "sv": "F\u00f6rsta halv\u00e5r 1967",
330         "en": "First six months of 1967"
331     },
332     "Beskrivning": {},
333     "Dolt": false,
334     "FromDatum": "1967-01-01",
335     "Giltighetsperiod": {
336         "Slutdatum": "1967-06-30",
337         "Startdatum": "1967-01-01"
338     },
339     "ID": "29271",
340     "Kod": "1967V",
341     "LarosateID": 29,
342     "PeriodtypID": 3,
343     "TomDatum": "1967-06-30"
344 },
345 {
346     "Benamning": {
347         "sv": "Andra halv\u00e5r 1968",
348         "en": "Last six months of 1968"
349     },
350     "Beskrivning": {},
351     "Dolt": false,
352     "FromDatum": "1968-07-01",
353     "Giltighetsperiod": {
354         "Slutdatum": "1968-12-31",
355         "Startdatum": "1968-07-01"
356     },
357     "ID": "29200",
358     "Kod": "1968H",
359     "LarosateID": 29,
360     "PeriodtypID": 3,
361     "TomDatum": "1968-12-31"
362 },
363 {
364     "Benamning": {
365         "sv": "F\u00f6rsta halv\u00e5r 1968",
366         "en": "First six months of 1968"
367     },

```

```

368     "Beskrivning": {},
369     "Dolt": false,
370     "FromDatum": "1968-01-01",
371     "Giltighetsperiod": {
372         "Slutdatum": "1968-06-30",
373         "Startdatum": "1968-01-01"
374     },
375     "ID": "29272",
376     "Kod": "1968V",
377     "LarosateID": 29,
378     "PeriodtypID": 3,
379     "TomDatum": "1968-06-30"
380 },
381 {
382     "Benamning": {
383         "sv": "Andra halv\u00e5r 1969",
384         "en": "Last six months of 1969"
385     },
386     "Beskrivning": {},
387     "Dolt": false,
388     "FromDatum": "1969-07-01",
389     "Giltighetsperiod": {
390         "Slutdatum": "1969-12-31",
391         "Startdatum": "1969-07-01"
392     },
393     "ID": "29201",
394     "Kod": "1969H",
395     "LarosateID": 29,
396     "PeriodtypID": 3,
397     "TomDatum": "1969-12-31"
398 },
399 {
400     "Benamning": {
401         "sv": "F\u00f6rsta halv\u00e5r 1969",
402         "en": "First six months of 1969"
403     },
404     "Beskrivning": {},
405     "Dolt": false,
406     "FromDatum": "1969-01-01",
407     "Giltighetsperiod": {
408         "Slutdatum": "1969-06-30",
409         "Startdatum": "1969-01-01"
410     },
411     "ID": "29273",
412     "Kod": "1969V",
413     "LarosateID": 29,
414     "PeriodtypID": 3,
415     "TomDatum": "1969-06-30"
416 },
417 {
418     "Benamning": {

```

```
419         "sv": "Kalender\u00e5r 1970",
420         "en": "Calendar year 1970"
421     },
422     "Beskrivning": {},
423     "Dolt": false,
424     "FromDatum": "1970-01-01",
425     "Giltighetsperiod": {
426         "Slutdatum": "1970-12-31",
427         "Startdatum": "1970-01-01"
428     },
429     "ID": "29101",
430     "Kod": "1970",
431     "LarosateID": 29,
432     "PeriodtypID": 1,
433     "TomDatum": "1970-12-31"
434 },
435 {
436     "Benamning": {
437         "sv": "Andra halv\u00e5r 1970",
438         "en": "Last six months of 1970"
439     },
440     "Beskrivning": {},
441     "Dolt": false,
442     "FromDatum": "1970-07-01",
443     "Giltighetsperiod": {
444         "Slutdatum": "1970-12-31",
445         "Startdatum": "1970-07-01"
446     },
447     "ID": "29202",
448     "Kod": "1970H",
449     "LarosateID": 29,
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4956         "en": "Last six months of 1960"
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6297         "ID": "133139",
6298         "Kod": "VT1977",
6299         "LarosateID": 29,
6300         "PeriodtypID": 2,
6301         "TomDatum": "1977-08-14"
6302     },
6303     {
6304         "Benamning": {
6305             "sv": "V\u00e5rtermin 1978",
6306             "en": "Spring semester 1978"
6307         },
6308         "Beskrivning": {},
6309         "Dolt": false,
6310         "FromDatum": "1978-01-20",
6311         "Giltighetsperiod": {
6312             "Slutdatum": "1978-08-14",
6313             "Startdatum": "1978-01-20"
6314         },
6315         "ID": "133138",
6316         "Kod": "VT1978",
6317         "LarosateID": 29,
6318         "PeriodtypID": 2,
6319         "TomDatum": "1978-08-14"
6320     },
6321     {
6322         "Benamning": {
6323             "sv": "V\u00e5rtermin 1979",
6324             "en": "Spring semester 1979"
6325         },
6326         "Beskrivning": {},
6327         "Dolt": false,
6328         "FromDatum": "1979-01-20",
6329         "Giltighetsperiod": {
6330             "Slutdatum": "1979-08-14",
6331             "Startdatum": "1979-01-20"
6332         },
6333         "ID": "133140",
6334         "Kod": "VT1979",
```

```
6335     "LarosateID": 29,
6336     "PeriodtypID": 2,
6337     "TomDatum": "1979-08-14"
6338 },
6339 {
6340     "Benamning": {
6341         "sv": "V\u00e5rtermin 1980",
6342         "en": "Spring semester 1980"
6343     },
6344     "Beskrivning": {},
6345     "Dolt": false,
6346     "FromDatum": "1980-01-20",
6347     "Giltighetsperiod": {
6348         "Slutdatum": "1980-08-14",
6349         "Startdatum": "1980-01-20"
6350     },
6351     "ID": "133143",
6352     "Kod": "VT1980",
6353     "LarosateID": 29,
6354     "PeriodtypID": 2,
6355     "TomDatum": "1980-08-14"
6356 },
6357 {
6358     "Benamning": {
6359         "sv": "V\u00e5rtermin 1999",
6360         "en": "Spring semester 1999"
6361     },
6362     "Beskrivning": {},
6363     "Dolt": false,
6364     "FromDatum": "1999-01-18",
6365     "Giltighetsperiod": {
6366         "Slutdatum": "1999-06-05",
6367         "Startdatum": "1999-01-18"
6368     },
6369     "ID": "133157",
6370     "Kod": "VT1999",
6371     "LarosateID": 29,
6372     "PeriodtypID": 2,
6373     "TomDatum": "1999-06-05"
6374 },
6375 {
6376     "Benamning": {
6377         "sv": "V\u00e5rtermin 2000",
6378         "en": "Spring semester 2000"
6379     },
6380     "Beskrivning": {},
6381     "Dolt": false,
6382     "FromDatum": "2000-01-17",
6383     "Giltighetsperiod": {
6384         "Slutdatum": "2000-06-03",
6385         "Startdatum": "2000-01-17"
```



```
6386     },
6387     "ID": "133101",
6388     "Kod": "VT2000",
6389     "LarosateID": 29,
6390     "PeriodtypID": 2,
6391     "TomDatum": "2000-06-03"
6392 },
6393 {
6394     "Benamning": {
6395         "sv": "V\u00e5rtermin 2001",
6396         "en": "Spring semester 2001"
6397     },
6398     "Beskrivning": {},
6399     "Dolt": false,
6400     "FromDatum": "2001-01-15",
6401     "Giltighetsperiod": {
6402         "Slutdatum": "2001-06-02",
6403         "Startdatum": "2001-01-15"
6404     },
6405     "ID": "133097",
6406     "Kod": "VT2001",
6407     "LarosateID": 29,
6408     "PeriodtypID": 2,
6409     "TomDatum": "2001-06-02"
6410 },
6411 {
6412     "Benamning": {
6413         "sv": "V\u00e5rtermin 2002",
6414         "en": "Spring semester 2002"
6415     },
6416     "Beskrivning": {},
6417     "Dolt": false,
6418     "FromDatum": "2002-01-14",
6419     "Giltighetsperiod": {
6420         "Slutdatum": "2002-06-01",
6421         "Startdatum": "2002-01-14"
6422     },
6423     "ID": "133102",
6424     "Kod": "VT2002",
6425     "LarosateID": 29,
6426     "PeriodtypID": 2,
6427     "TomDatum": "2002-06-01"
6428 },
6429 {
6430     "Benamning": {
6431         "sv": "V\u00e5rtermin 2003",
6432         "en": "Spring semester 2003"
6433     },
6434     "Beskrivning": {},
6435     "Dolt": false,
6436     "FromDatum": "2003-01-14",
```

```

6437     "Giltighetsperiod": {
6438         "Slutdatum": "2003-06-06",
6439         "Startdatum": "2003-01-14"
6440     },
6441     "ID": "133103",
6442     "Kod": "VT2003",
6443     "LarosateID": 29,
6444     "PeriodtypID": 2,
6445     "TomDatum": "2003-06-06"
6446 },
6447 {
6448     "Benamning": {
6449         "sv": "V\u00e5rtermin 2004",
6450         "en": "Spring semester 2004"
6451     },
6452     "Beskrivning": {},
6453     "Dolt": false,
6454     "FromDatum": "2004-01-19",
6455     "Giltighetsperiod": {
6456         "Slutdatum": "2004-06-01",
6457         "Startdatum": "2004-01-19"
6458     },
6459     "ID": "133100",
6460     "Kod": "VT2004",
6461     "LarosateID": 29,
6462     "PeriodtypID": 2,
6463     "TomDatum": "2004-06-01"
6464 },
6465 {
6466     "Benamning": {
6467         "sv": "V\u00e5rtermin 2005",
6468         "en": "Spring semester 2005"
6469     },
6470     "Beskrivning": {},
6471     "Dolt": false,
6472     "FromDatum": "2005-01-17",
6473     "Giltighetsperiod": {
6474         "Slutdatum": "2005-06-04",
6475         "Startdatum": "2005-01-17"
6476     },
6477     "ID": "133099",
6478     "Kod": "VT2005",
6479     "LarosateID": 29,
6480     "PeriodtypID": 2,
6481     "TomDatum": "2005-06-04"
6482 },
6483 {
6484     "Benamning": {
6485         "sv": "V\u00e5rtermin 2006",
6486         "en": "Spring semester 2006"
6487     },

```

```
6488     "Beskrivning": {},
6489     "Dolt": false,
6490     "FromDatum": "2006-01-18",
6491     "Giltighetsperiod": {
6492         "Slutdatum": "2006-05-30",
6493         "Startdatum": "2006-01-18"
6494     },
6495     "ID": "133105",
6496     "Kod": "VT2006",
6497     "LarosateID": 29,
6498     "PeriodtypID": 2,
6499     "TomDatum": "2006-05-30"
6500 },
6501 {
6502     "Benamning": {
6503         "sv": "V\u00e5rtermin 2007",
6504         "en": "Spring semester 2007"
6505     },
6506     "Beskrivning": {},
6507     "Dolt": false,
6508     "FromDatum": "2007-01-17",
6509     "Giltighetsperiod": {
6510         "Slutdatum": "2007-05-28",
6511         "Startdatum": "2007-01-17"
6512     },
6513     "ID": "133106",
6514     "Kod": "VT2007",
6515     "LarosateID": 29,
6516     "PeriodtypID": 2,
6517     "TomDatum": "2007-05-28"
6518 },
6519 {
6520     "Benamning": {
6521         "sv": "V\u00e5rtermin 2027",
6522         "en": "Spring semester 2027"
6523     },
6524     "Beskrivning": {},
6525     "Dolt": false,
6526     "FromDatum": "2027-01-12",
6527     "Giltighetsperiod": {
6528         "Slutdatum": "2027-05-31",
6529         "Startdatum": "2027-01-12"
6530     },
6531     "ID": "153190",
6532     "Kod": "VT2027",
6533     "LarosateID": 29,
6534     "PeriodtypID": 2,
6535     "TomDatum": "2027-05-31"
6536 },
6537 {
6538     "Benamning": {
```

```
6539         "sv": "V\u00e5rtermin 2028",
6540         "en": "Spring semester 2028"
6541     },
6542     "Beskrivning": {},
6543     "Dolt": false,
6544     "FromDatum": "2028-01-17",
6545     "Giltighetsperiod": {
6546         "Slutdatum": "2028-06-04",
6547         "Startdatum": "2028-01-17"
6548     },
6549     "ID": "156664",
6550     "Kod": "VT2028",
6551     "LarosateID": 29,
6552     "PeriodtypID": 2,
6553     "TomDatum": "2028-06-04"
6554 },
6555 {
6556     "Benamning": {
6557         "sv": "V\u00e5rtermin 2029",
6558         "en": "Spring semester 2029"
6559     },
6560     "Beskrivning": {},
6561     "Dolt": false,
6562     "FromDatum": "2029-01-15",
6563     "Giltighetsperiod": {
6564         "Slutdatum": "2029-06-03",
6565         "Startdatum": "2029-01-15"
6566     },
6567     "ID": "159035",
6568     "Kod": "VT2029",
6569     "LarosateID": 29,
6570     "PeriodtypID": 2,
6571     "TomDatum": "2029-06-03"
6572 },
6573 {
6574     "Benamning": {
6575         "sv": "V\u00e5rtermin 2030",
6576         "en": "Spring semester 2030"
6577     },
6578     "Beskrivning": {},
6579     "Dolt": false,
6580     "FromDatum": "2030-01-21",
6581     "Giltighetsperiod": {
6582         "Slutdatum": "2030-06-09",
6583         "Startdatum": "2030-01-21"
6584     },
6585     "ID": "161510",
6586     "Kod": "VT2030",
6587     "LarosateID": 29,
6588     "PeriodtypID": 2,
6589     "TomDatum": "2030-06-09"
```

```
6590     },
6591     {
6592         "Benamning": {
6593             "sv": "V\u00e5rtermin 2031",
6594             "en": "Spring semester 2031"
6595         },
6596         "Beskrivning": {},
6597         "Dolt": false,
6598         "FromDatum": "2031-01-20",
6599         "Giltighetsperiod": {
6600             "Slutdatum": "2031-06-08",
6601             "Startdatum": "2031-01-20"
6602         },
6603         "ID": "161512",
6604         "Kod": "VT2031",
6605         "LarosateID": 29,
6606         "PeriodtypID": 2,
6607         "TomDatum": "2031-06-08"
6608     },
6609     {
6610         "Benamning": {
6611             "sv": "V\u00e5rtermin 2032",
6612             "en": "Spring semester 2032"
6613         },
6614         "Beskrivning": {},
6615         "Dolt": false,
6616         "FromDatum": "2032-01-19",
6617         "Giltighetsperiod": {
6618             "Slutdatum": "2032-06-06",
6619             "Startdatum": "2032-01-19"
6620         },
6621         "ID": "164875",
6622         "Kod": "VT2032",
6623         "LarosateID": 29,
6624         "PeriodtypID": 2,
6625         "TomDatum": "2032-06-06"
6626     },
6627     {
6628         "Benamning": {
6629             "sv": "V\u00e5rtermin 2033",
6630             "en": "Spring semester 2033"
6631         },
6632         "Beskrivning": {},
6633         "Dolt": false,
6634         "FromDatum": "2033-01-17",
6635         "Giltighetsperiod": {
6636             "Slutdatum": "2033-06-05",
6637             "Startdatum": "2033-01-17"
6638         },
6639         "ID": "164878",
6640         "Kod": "VT2033",
```

```

6641     "LarosateID": 29,
6642     "PeriodtypID": 2,
6643     "TomDatum": "2033-06-05"
6644 },
6645 {
6646     "Benamning": {
6647         "sv": "V\u00e5rtermin 2035",
6648         "en": "Spring semester 2035"
6649     },
6650     "Beskrivning": {},
6651     "Dolt": false,
6652     "FromDatum": "2035-01-15",
6653     "Giltighetsperiod": {
6654         "Slutdatum": "2035-06-03",
6655         "Startdatum": "2035-01-15"
6656     },
6657     "ID": "164880",
6658     "Kod": "VT2035",
6659     "LarosateID": 29,
6660     "PeriodtypID": 2,
6661     "TomDatum": "2035-06-03"
6662 }
6663 ]
6664 }

```

### 20.13 nivainomstudieordning\_JSON

1063a *<LadokSession data methods 151b>+≡*

```

# added by GQMJr
def nivainomstudieordning_JSON(self) -> dict:
    """
    Returns education levels.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/nivainomstudieordning',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

1063b *<test functions 151a>+≡*

```

def test_nivainomstudieordning_JSON() -> None:
    r = ladok.nivainomstudieordning_JSON()
    assert type(r) == dict

```

This code is used in chunk 146.

The output looks like this:

```

1  {
2    "NivaInomStudieordning": [
3      {

```

```
4      "Benamning": {
5        "sv": "Grundniv\u00e5",
6        "en": "First cycle"
7      },
8      "Beskrivning": {},
9      "Dolt": false,
10     "Giltighetsperiod": {
11       "Startdatum": "2007-07-01"
12     },
13     "ID": "1",
14     "Kod": "1",
15     "LarosateID": -1
16   },
17   {
18     "Benamning": {
19       "sv": "Avancerad niv\u00e5",
20       "en": "Second cycle"
21     },
22     "Beskrivning": {},
23     "Dolt": false,
24     "Giltighetsperiod": {
25       "Startdatum": "2007-07-01"
26     },
27     "ID": "2",
28     "Kod": "2",
29     "LarosateID": -1
30   },
31   {
32     "Benamning": {
33       "sv": "Forskarniv\u00e5",
34       "en": "Third cycle"
35     },
36     "Beskrivning": {},
37     "Dolt": false,
38     "Giltighetsperiod": {
39       "Startdatum": "2007-07-01"
40     },
41     "ID": "3",
42     "Kod": "3",
43     "LarosateID": -1
44   },
45   {
46     "Benamning": {
47       "sv": "Forskarutbildning",
48       "en": "Postgraduate level"
49     },
50     "Beskrivning": {},
51     "Dolt": false,
52     "Giltighetsperiod": {
53       "Slutdatum": "2007-06-30",
54       "Startdatum": "1977-07-01"
```

```

55     },
56     "ID": "5",
57     "Kod": "F",
58     "LarosateID": -1
59 },
60 {
61     "Benamning": {
62         "sv": "Grundutbildning",
63         "en": "Undergraduate level"
64     },
65     "Beskrivning": {},
66     "Dolt": false,
67     "Giltighetsperiod": {
68         "Slutdatum": "2007-06-30",
69         "Startdatum": "1977-07-01"
70     },
71     "ID": "4",
72     "Kod": "G",
73     "LarosateID": -1
74 }
75 ]
76 }

```

## 20.14 amnesgrupp\_JSON

```
1065a <LadokSession data methods 151b>+=
# added by GQMJr
def amnesgrupp_JSON(self) -> dict:
    """
    Returns subject area groups.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url + '/kataloginformation/internal/grunddata/amnesgrupp',
        headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

```
1065b  <test functions 151a>+=
        def test_amesgrupp_JSON() -> None:
            r = ladok.amesgrupp_JSON()
            assert type(r) == dict
```

This code is used in chunk 146.

The output looks like this:

```
1 {
2   "Amnesgrupp": [
3     {
4       "Benamning": {
5         "sv": "Arbetsvetenskap och ergonomi",
6         "en": "Work Science and Ergonomics"
```



```
7      },
8      "Beskrivning": {},
9      "Dolt": false,
10     "Giltighetsperiod": {},
11     "ID": "1",
12     "Kod": "AE1",
13     "LarosateID": -1
14   },
15   {
16     "Benamning": {
17       "sv": "Administration och f\u00f6rvaltning",
18       "en": "Administration and Management"
19     },
20     "Beskrivning": {},
21     "Dolt": false,
22     "Giltighetsperiod": {},
23     "ID": "2",
24     "Kod": "AF1",
25     "LarosateID": -1
26   },
27   {
28     "Benamning": {
29       "sv": "Antikens kultur",
30       "en": "Ancient History"
31     },
32     "Beskrivning": {},
33     "Dolt": false,
34     "Giltighetsperiod": {},
35     "ID": "3",
36     "Kod": "AK1",
37     "LarosateID": -1
38   },
39   {
40     "Benamning": {
41       "sv": "Allm\u00e4n spr\u00e5kvetenskap/lingvistik",
42       "en": "General Linguistics"
43     },
44     "Beskrivning": {},
45     "Dolt": false,
46     "Giltighetsperiod": {},
47     "ID": "4",
48     "Kod": "AL1",
49     "LarosateID": -1
50   },
51   {
52     "Benamning": {
53       "sv": "Arabiska",
54       "en": "Arabic"
55     },
56     "Beskrivning": {},
57     "Dolt": false,
```

```
58     "Giltighetsperiod": {},
59     "ID": "5",
60     "Kod": "AR1",
61     "LarosateID": -1
62 },
63 {
64     "Benamning": {
65         "sv": "Arkeologi",
66         "en": "Archaeology"
67     },
68     "Beskrivning": {},
69     "Dolt": false,
70     "Giltighetsperiod": {},
71     "ID": "6",
72     "Kod": "AR2",
73     "LarosateID": -1
74 },
75 {
76     "Benamning": {
77         "sv": "Arkitektur",
78         "en": "Architecture"
79     },
80     "Beskrivning": {},
81     "Dolt": false,
82     "Giltighetsperiod": {},
83     "ID": "7",
84     "Kod": "AR3",
85     "LarosateID": -1
86 },
87 {
88     "Benamning": {
89         "sv": "Arameiska/syriska",
90         "en": "Aramaic/Syriac"
91     },
92     "Beskrivning": {},
93     "Dolt": false,
94     "Giltighetsperiod": {},
95     "ID": "8",
96     "Kod": "AS1",
97     "LarosateID": -1
98 },
99 {
100     "Benamning": {
101         "sv": "Automatiseringsteknik",
102         "en": "Automation Technology"
103     },
104     "Beskrivning": {},
105     "Dolt": false,
106     "Giltighetsperiod": {},
107     "ID": "9",
108     "Kod": "AT1",
```

```

109     "LarosateID": -1
110 },
111 {
112     "Benamning": {
113         "sv": "Arkivvetenskap",
114         "en": "Archival Science"
115     },
116     "Beskrivning": {},
117     "Dolt": false,
118     "Giltighetsperiod": {},
119     "ID": "10",
120     "Kod": "AV1",
121     "LarosateID": -1
122 },
123 {
124     "Benamning": {
125         "sv": "\u00d6vrigt inom beteendevetenskap",
126         "en": "Other Subjects within Behavioural Science"
127     },
128     "Beskrivning": {},
129     "Dolt": false,
130     "Giltighetsperiod": {},
131     "ID": "11",
132     "Kod": "BE9",
133     "LarosateID": -1
134 },
135 {
136     "Benamning": {
137         "sv": "Biologi",
138         "en": "Biology"
139     },
140     "Beskrivning": {},
141     "Dolt": false,
142     "Giltighetsperiod": {},
143     "ID": "12",
144     "Kod": "BI1",
145     "LarosateID": -1
146 },
147 {
148     "Benamning": {
149         "sv": "Bosniska/kroatiska/serbiska",
150         "en": "Bosnian/Croatian/Serbian"
151     },
152     "Beskrivning": {},
153     "Dolt": false,
154     "Giltighetsperiod": {},
155     "ID": "13",
156     "Kod": "BK1",
157     "LarosateID": -1
158 },
159 {

```

```
160     "Benamning": {
161       "sv": "Biomedicinsk laboratorietenskap",
162       "en": "Biomedical Laboratory Science"
163     },
164     "Beskrivning": {},
165     "Dolt": false,
166     "Giltighetsperiod": {},
167     "ID": "14",
168     "Kod": "BL1",
169     "LarosateID": -1
170   },
171   {
172     "Benamning": {
173       "sv": "Berg- och mineralteknik",
174       "en": "Mining and Mineral Technology"
175     },
176     "Beskrivning": {},
177     "Dolt": false,
178     "Giltighetsperiod": {},
179     "ID": "15",
180     "Kod": "BM1",
181     "LarosateID": -1
182   },
183   {
184     "Benamning": {
185       "sv": "Bioteknik",
186       "en": "Biotechnology"
187     },
188     "Beskrivning": {},
189     "Dolt": false,
190     "Giltighetsperiod": {},
191     "ID": "16",
192     "Kod": "BT1",
193     "LarosateID": -1
194   },
195   {
196     "Benamning": {
197       "sv": "Bulgariska",
198       "en": "Bulgarian"
199     },
200     "Beskrivning": {},
201     "Dolt": false,
202     "Giltighetsperiod": {},
203     "ID": "17",
204     "Kod": "BU1",
205     "LarosateID": -1
206   },
207   {
208     "Benamning": {
209       "sv": "Barn- och ungdomsstudier",
210       "en": "Child and Youth Education and Care"
```

```
211     },
212     "Beskrivning": {},
213     "Dolt": false,
214     "Giltighetsperiod": {},
215     "ID": "18",
216     "Kod": "BU2",
217     "LarosateID": -1
218 },
219 {
220     "Benamning": {
221         "sv": "Biblioteks- och informationsvetenskap",
222         "en": "Library and Information Science"
223     },
224     "Beskrivning": {},
225     "Dolt": false,
226     "Giltighetsperiod": {},
227     "ID": "19",
228     "Kod": "BV1",
229     "LarosateID": -1
230 },
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232     "Benamning": {
233         "sv": "Byggteknik",
234         "en": "Building Technology"
235     },
236     "Beskrivning": {},
237     "Dolt": false,
238     "Giltighetsperiod": {},
239     "ID": "20",
240     "Kod": "BY1",
241     "LarosateID": -1
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244     "Benamning": {
245         "sv": "Cirkus",
246         "en": "Circus"
247     },
248     "Beskrivning": {},
249     "Dolt": false,
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251     "ID": "21",
252     "Kod": "CI1",
253     "LarosateID": -1
254 },
255 {
256     "Benamning": {
257         "sv": "Danska",
258         "en": "Danish"
259     },
260     "Beskrivning": {},
261     "Dolt": false,
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262     "Giltighetsperiod": {},
263     "ID": "22",
264     "Kod": "DA1",
265     "LarosateID": -1
266 },
267 {
268     "Benamning": {
269         "sv": "Dans",
270         "en": "Dance"
271     },
272     "Beskrivning": {},
273     "Dolt": false,
274     "Giltighetsperiod": {},
275     "ID": "23",
276     "Kod": "DA2",
277     "LarosateID": -1
278 },
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280     "Benamning": {
281         "sv": "Design",
282         "en": "Design"
283     },
284     "Beskrivning": {},
285     "Dolt": false,
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287     "ID": "24",
288     "Kod": "DE1",
289     "LarosateID": -1
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292     "Benamning": {
293         "sv": "Djuromv\u00e5rdnad",
294         "en": "Veterinary Nursing"
295     },
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297     "Dolt": false,
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299     "ID": "25",
300     "Kod": "DJ1",
301     "LarosateID": -1
302 },
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305         "sv": "Datateknik",
306         "en": "Computer Technology"
307     },
308     "Beskrivning": {},
309     "Dolt": false,
310     "Giltighetsperiod": {},
311     "ID": "26",
312     "Kod": "DT1",

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313     "LarosateID": -1
314 },
315 {
316     "Benamning": {
317         "sv": "Dans- och teatervetenskap",
318         "en": "Dance and Theatre Studies"
319     },
320     "Beskrivning": {},
321     "Dolt": false,
322     "Giltighetsperiod": {},
323     "ID": "27",
324     "Kod": "DT2",
325     "LarosateID": -1
326 },
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328     "Benamning": {
329         "sv": "Farmaci",
330         "en": "Pharmacy"
331     },
332     "Beskrivning": {},
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334     "Giltighetsperiod": {},
335     "ID": "37",
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337     "LarosateID": -1
338 },
339 {
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341         "sv": "F\u00f6retagsekonomi",
342         "en": "Business Administration"
343     },
344     "Beskrivning": {},
345     "Dolt": false,
346     "Giltighetsperiod": {},
347     "ID": "38",
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349     "LarosateID": -1
350 },
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352     "Benamning": {
353         "sv": "F\u00f6rfattande",
354         "en": "Creative Writing"
355     },
356     "Beskrivning": {},
357     "Dolt": false,
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359     "ID": "39",
360     "Kod": "FF1",
361     "LarosateID": -1
362 },
363 {

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364     "Benamning": {
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366       "en": "Public Health"
367     },
368     "Beskrivning": {},
369     "Dolt": false,
370     "Giltighetsperiod": {},
371     "ID": "40",
372     "Kod": "FH1",
373     "LarosateID": -1
374   },
375   {
376     "Benamning": {
377       "sv": "Finska",
378       "en": "Finnish"
379     },
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381     "Dolt": false,
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383     "ID": "41",
384     "Kod": "FI1",
385     "LarosateID": -1
386   },
387   {
388     "Benamning": {
389       "sv": "Filosofi",
390       "en": "Philosophy"
391     },
392     "Beskrivning": {},
393     "Dolt": false,
394     "Giltighetsperiod": {},
395     "ID": "42",
396     "Kod": "FI2",
397     "LarosateID": -1
398   },
399   {
400     "Benamning": {
401       "sv": "Farmakologi",
402       "en": "Pharmacology"
403     },
404     "Beskrivning": {},
405     "Dolt": false,
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407     "ID": "43",
408     "Kod": "FK1",
409     "LarosateID": -1
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412     "Benamning": {
413       "sv": "Fri konst",
414       "en": "Fine Art"
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415     },
416     "Beskrivning": {},
417     "Dolt": false,
418     "Giltighetsperiod": {},
419     "ID": "44",
420     "Kod": "FK2",
421     "LarosateID": -1
422 },
423 {
424     "Benamning": {
425         "sv": "Flerspr\u00e5kigt inriktade \u00e4mnen",
426         "en": "Subjects with Multilingual Focus"
427     },
428     "Beskrivning": {},
429     "Dolt": false,
430     "Giltighetsperiod": {},
431     "ID": "45",
432     "Kod": "FL1",
433     "LarosateID": -1
434 },
435 {
436     "Benamning": {
437         "sv": "Geografisk informationsteknik och lantm\u00e4teri",
438         "en": "Geographic Information Technology and Surveying"
439     },
440     "Beskrivning": {},
441     "Dolt": false,
442     "Giltighetsperiod": {},
443     "ID": "55",
444     "Kod": "GI1",
445     "LarosateID": -1
446 },
447 {
448     "Benamning": {
449         "sv": "Geovetenskap och naturgeografi",
450         "en": "Earth Science and Physical Geography"
451     },
452     "Beskrivning": {},
453     "Dolt": false,
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456     "Kod": "GN1",
457     "LarosateID": -1
458 },
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460     "Benamning": {
461         "sv": "Grekiska",
462         "en": "Greek"
463     },
464     "Beskrivning": {},
465     "Dolt": false,

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468     "Kod": "GR1",
469     "LarosateID": -1
470 },
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472     "Benamning": {
473         "sv": "Genusstudier",
474         "en": "Gender Studies"
475     },
476     "Beskrivning": {},
477     "Dolt": false,
478     "Giltighetsperiod": {},
479     "ID": "58",
480     "Kod": "GS1",
481     "LarosateID": -1
482 },
483 {
484     "Benamning": {
485         "sv": "Husdjursvetenskap",
486         "en": "Animal Science"
487     },
488     "Beskrivning": {},
489     "Dolt": false,
490     "Giltighetsperiod": {},
491     "ID": "59",
492     "Kod": "HD1",
493     "LarosateID": -1
494 },
495 {
496     "Benamning": {
497         "sv": "Hebreiska",
498         "en": "Hebrew"
499     },
500     "Beskrivning": {},
501     "Dolt": false,
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503     "ID": "60",
504     "Kod": "HE1",
505     "LarosateID": -1
506 },
507 {
508     "Benamning": {
509         "sv": "\u00d6vrigt inom historisk-filosofiska \u00e4mnen",
510         "en": "Other Subjects within the Humanities"
511     },
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513     "Dolt": false,
514     "Giltighetsperiod": {},
515     "ID": "61",
516     "Kod": "HF9",

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518 },
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521         "sv": "Hindi",
522         "en": "Hindi"
523     },
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525     "Dolt": false,
526     "Giltighetsperiod": {},
527     "ID": "62",
528     "Kod": "HI1",
529     "LarosateID": -1
530 },
531 {
532     "Benamning": {
533         "sv": "Historia",
534         "en": "History"
535     },
536     "Beskrivning": {},
537     "Dolt": false,
538     "Giltighetsperiod": {},
539     "ID": "63",
540     "Kod": "HI2",
541     "LarosateID": -1
542 },
543 {
544     "Benamning": {
545         "sv": "H\u00e4lso- och sjukv\u00e4rdsutveckling",
546         "en": "Health and Society"
547     },
548     "Beskrivning": {},
549     "Dolt": false,
550     "Giltighetsperiod": {},
551     "ID": "64",
552     "Kod": "HS1",
553     "LarosateID": -1
554 },
555 {
556     "Benamning": {
557         "sv": "Handikappvetenskap",
558         "en": "Disability Studies"
559     },
560     "Beskrivning": {},
561     "Dolt": false,
562     "Giltighetsperiod": {},
563     "ID": "65",
564     "Kod": "HV1",
565     "LarosateID": -1
566 },
567 {

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568     "Benamning": {
569         "sv": "Idrott/idrottsvetenskap",
570         "en": "Sport Science"
571     },
572     "Beskrivning": {},
573     "Dolt": false,
574     "Giltighetsperiod": {},
575     "ID": "66",
576     "Kod": "ID1",
577     "LarosateID": -1
578 },
579 {
580     "Benamning": {
581         "sv": "Industriell ekonomi och organisation",
582         "en": "Industrial Engineering and Management"
583     },
584     "Beskrivning": {},
585     "Dolt": false,
586     "Giltighetsperiod": {},
587     "ID": "67",
588     "Kod": "IE1",
589     "LarosateID": -1
590 },
591 {
592     "Benamning": {
593         "sv": "Informatik/data- och systemvetenskap",
594         "en": "Informatics/Computer and Systems Sciences"
595     },
596     "Beskrivning": {},
597     "Dolt": false,
598     "Giltighetsperiod": {},
599     "ID": "68",
600     "Kod": "IF1",
601     "LarosateID": -1
602 },
603 {
604     "Benamning": {
605         "sv": "Id\u00e9- och l\u00e4randomshistoria/id\u00e9historia",
606         "en": "History of Science and Ideas/History of Ideas"
607     },
608     "Beskrivning": {},
609     "Dolt": false,
610     "Giltighetsperiod": {},
611     "ID": "69",
612     "Kod": "IL1",
613     "LarosateID": -1
614 },
615 {
616     "Benamning": {
617         "sv": "Indonesiska",
618         "en": "Indonesian"

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619     },
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621     "Dolt": false,
622     "Giltighetsperiod": {},
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624     "Kod": "IN1",
625     "LarosateID": -1
626 },
627 {
628     "Benamning": {
629         "sv": "Indologi och sanskrit",
630         "en": "Indology and Sanskrit"
631     },
632     "Beskrivning": {},
633     "Dolt": false,
634     "Giltighetsperiod": {},
635     "ID": "71",
636     "Kod": "IS1",
637     "LarosateID": -1
638 },
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640     "Benamning": {
641         "sv": "Italienska",
642         "en": "Italian"
643     },
644     "Beskrivning": {},
645     "Dolt": false,
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647     "ID": "72",
648     "Kod": "IT1",
649     "LarosateID": -1
650 },
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652     "Benamning": {
653         "sv": "Japanska",
654         "en": "Japanese"
655     },
656     "Beskrivning": {},
657     "Dolt": false,
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659     "ID": "73",
660     "Kod": "JA1",
661     "LarosateID": -1
662 },
663 {
664     "Benamning": {
665         "sv": "\u00d6vrigt inom journalistik, kommunikation, information",
666         "en": "Other Subjects within Journalism, Communication and Information"
667     },
668     "Beskrivning": {},
669     "Dolt": false,

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671     "ID": "74",
672     "Kod": "JK9",
673     "LarosateID": -1
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675 {
676     "Benamning": {
677         "sv": "Journalistik",
678         "en": "Journalism"
679     },
680     "Beskrivning": {},
681     "Dolt": false,
682     "Giltighetsperiod": {},
683     "ID": "75",
684     "Kod": "J01",
685     "LarosateID": -1
686 },
687 {
688     "Benamning": {
689         "sv": "Juridik och r\u00e4ttsvetenskap",
690         "en": "Law and Legal Studies"
691     },
692     "Beskrivning": {},
693     "Dolt": false,
694     "Giltighetsperiod": {},
695     "ID": "76",
696     "Kod": "JU1",
697     "LarosateID": -1
698 },
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700     "Benamning": {
701         "sv": "Kemi",
702         "en": "Chemistry"
703     },
704     "Beskrivning": {},
705     "Dolt": false,
706     "Giltighetsperiod": {},
707     "ID": "77",
708     "Kod": "KE1",
709     "LarosateID": -1
710 },
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712     "Benamning": {
713         "sv": "Konsthantverk",
714         "en": "Craft"
715     },
716     "Beskrivning": {},
717     "Dolt": false,
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720     "Kod": "KH1",
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726       "en": "Chinese"
727     },
728     "Beskrivning": {},
729     "Dolt": false,
730     "Giltighetsperiod": {},
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732     "Kod": "KI1",
733     "LarosateID": -1
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737       "sv": "Koreanska",
738       "en": "Korean"
739     },
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741     "Dolt": false,
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743     "ID": "80",
744     "Kod": "K01",
745     "LarosateID": -1
746   },
747   {
748     "Benamning": {
749       "sv": "Koreografi",
750       "en": "Choreography"
751     },
752     "Beskrivning": {},
753     "Dolt": false,
754     "Giltighetsperiod": {},
755     "ID": "81",
756     "Kod": "K02",
757     "LarosateID": -1
758   },
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760     "Benamning": {
761       "sv": "\u00d6vrigt inom konst",
762       "en": "Other Subjects within Arts"
763     },
764     "Beskrivning": {},
765     "Dolt": false,
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767     "ID": "82",
768     "Kod": "K09",
769     "LarosateID": -1
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773       "sv": "Kriminologi",
774       "en": "General Criminology"
775     },
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778     "Giltighetsperiod": {},
779     "ID": "83",
780     "Kod": "KR1",
781     "LarosateID": -1
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784     "Benamning": {
785       "sv": "Kultur- och samh\u00e4llsgeografi",
786       "en": "Cultural and Social Geography"
787     },
788     "Beskrivning": {},
789     "Dolt": false,
790     "Giltighetsperiod": {},
791     "ID": "84",
792     "Kod": "KS1",
793     "LarosateID": -1
794   },
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796     "Benamning": {
797       "sv": "Kemiteknik",
798       "en": "Chemical Engineering"
799     },
800     "Beskrivning": {},
801     "Dolt": false,
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803     "ID": "85",
804     "Kod": "KT1",
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808     "Benamning": {
809       "sv": "Kurdiska",
810       "en": "Kurdish"
811     },
812     "Beskrivning": {},
813     "Dolt": false,
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816     "Kod": "KU1",
817     "LarosateID": -1
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819   {
820     "Benamning": {
821       "sv": "Kulturv\u00e5rd",
822       "en": "Conservation"
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823     },
824     "Beskrivning": {},
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829     "LarosateID": -1
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833       "sv": "Konstvetenskap",
834       "en": "History and Theory of Art"
835     },
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845       "sv": "Kulturvetenskap",
846       "en": "Cultural Studies"
847     },
848     "Beskrivning": {},
849     "Dolt": false,
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856     "Benamning": {
857       "sv": "Krigsvetenskap",
858       "en": "War Studies"
859     },
860     "Beskrivning": {},
861     "Dolt": false,
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869       "sv": "Latin",
870       "en": "Latin"
871     },
872     "Beskrivning": {},
873     "Dolt": false,
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876     "Kod": "LA1",
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879 {
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882         "en": "Landscape Architecture"
883     },
884     "Beskrivning": {},
885     "Dolt": false,
886     "Giltighetsperiod": {},
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889     "LarosateID": -1
890 },
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894         "en": "Latvian"
895     },
896     "Beskrivning": {},
897     "Dolt": false,
898     "Giltighetsperiod": {},
899     "ID": "93",
900     "Kod": "LE1",
901     "LarosateID": -1
902 },
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905         "sv": "Luftfart",
906         "en": "Aviation"
907     },
908     "Beskrivning": {},
909     "Dolt": false,
910     "Giltighetsperiod": {},
911     "ID": "94",
912     "Kod": "LF1",
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914 },
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918         "en": "Lithuanian"
919     },
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921     "Dolt": false,
922     "Giltighetsperiod": {},
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924     "Kod": "LI1",
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925     "LarosateID": -1
926 },
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930         "en": "Country Knowledge/Country Studies"
931     },
932     "Beskrivning": {},
933     "Dolt": false,
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936     "Kod": "LL1",
937     "LarosateID": -1
938 },
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942         "en": "Food Science"
943     },
944     "Beskrivning": {},
945     "Dolt": false,
946     "Giltighetsperiod": {},
947     "ID": "97",
948     "Kod": "LM1",
949     "LarosateID": -1
950 },
951 {
952     "Benamning": {
953         "sv": "Ledarskap, organisation och styrning",
954         "en": "Leadership, Organisation and Management"
955     },
956     "Beskrivning": {},
957     "Dolt": false,
958     "Giltighetsperiod": {},
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961     "LarosateID": -1
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965         "sv": "Litteraturvetenskap",
966         "en": "Comparative Literature"
967     },
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969     "Dolt": false,
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971     "ID": "99",
972     "Kod": "LV1",
973     "LarosateID": -1
974 },
975 {

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978         "en": "Environmental Care and Environmental Protection"
979     },
980     "Beskrivning": {},
981     "Dolt": false,
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984     "Kod": "MM1",
985     "LarosateID": -1
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988     "Benamning": {
989         "sv": "Medieproduktion",
990         "en": "Media Production"
991     },
992     "Beskrivning": {},
993     "Dolt": false,
994     "Giltighetsperiod": {},
995     "ID": "110",
996     "Kod": "MP1",
997     "LarosateID": -1
998 },
999 {
1000     "Benamning": {
1001         "sv": "M\u00e4nskliga r\u00e4ttigheter",
1002         "en": "Human Rights"
1003     },
1004     "Beskrivning": {},
1005     "Dolt": false,
1006     "Giltighetsperiod": {},
1007     "ID": "111",
1008     "Kod": "MR1",
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1014         "en": "Mathematical Statistics"
1015     },
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1026         "en": "Mechanical Engineering"

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1074         "en": "Musicology"
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1076     "Beskrivning": {},
1077     "Dolt": false,

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1122         "en": "Other Subjects within Social Science"
1123     },
1124     "Beskrivning": {},
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1146         "en": "Social Studies"
1147     },
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1158         "en": "Shipping"
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1183     },
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1206       "en": "Student and Vocational Counselling"
1207     },
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1228     "Benamning": {
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1230       "en": "Sign Language"

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1242       "en": "Other Subjects within Technology"
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1245     "Dolt": false,
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1266       "en": "Other Subjects within Performing Arts"
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1314         "en": "Other Interdisciplinary Studies"
1315     },
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1317     "Dolt": false,
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1326         "en": "Textile Technology"
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1506         "en": "Operatic Stagecraft and Characterization"
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1518         "en": "Medicine"
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1530         "en": "Other Subjects within Medicine"
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1578         "en": "Persian"
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1626         "en": "Stage Direction"
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1636     "Benamning": {
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1638         "en": "Rhetoric"

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1650       "en": "Romanian"
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1653     "Dolt": false,
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1674       "en": "Czech"
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1686       "en": "Theology"
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1698         "en": "Dental Technology and Oral Health"
1699     },
1700     "Beskrivning": {},
1701     "Dolt": false,
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1704     "Kod": "T01",
1705     "LarosateID": -1
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1707 {
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1709         "sv": "\u00d6vers\u00e4ttning och tolkning",
1710         "en": "Translation and Interpretation"
1711     },
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1713     "Dolt": false,
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1722         "en": "Other Subjects within Transportation"
1723     },
1724     "Beskrivning": {},
1725     "Dolt": false,
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1728     "Kod": "TP9",
1729     "LarosateID": -1
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1734         "en": "Therapy, Rehabilitation and Dietary Treatment"
1735     },
1736     "Beskrivning": {},
1737     "Dolt": false,
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1742 },
1743 {
1744     "Benamning": {
1745         "sv": "Teknik i samh\u00e4llsperspektiv",
1746         "en": "Technology from a Social Perspective"
1747     },
1748     "Beskrivning": {},
1749     "Dolt": false,
1750     "Giltighetsperiod": {},
1751     "ID": "169",
1752     "Kod": "TS1",
1753     "LarosateID": -1
1754 },
1755 {
1756     "Benamning": {
1757         "sv": "Tr\u00e4fysik och tr\u00e4teknologi",
1758         "en": "Wood Physics and Wood Technology"
1759     },
1760     "Beskrivning": {},
1761     "Dolt": false,
1762     "Giltighetsperiod": {},
1763     "ID": "170",
1764     "Kod": "TT1",
1765     "LarosateID": -1
1766 },
1767 {
1768     "Benamning": {
1769         "sv": "Turism- och fritidsvetenskap",
1770         "en": "Tourism and Recreation Studies"
1771     },
1772     "Beskrivning": {},
1773     "Dolt": false,
1774     "Giltighetsperiod": {},
1775     "ID": "171",
1776     "Kod": "TU1",
1777     "LarosateID": -1
1778 },
1779 {
1780     "Benamning": {
1781         "sv": "Film",
1782         "en": "Film Production"
1783     },
1784     "Beskrivning": {},
1785     "Dolt": false,
1786     "Giltighetsperiod": {},
1787     "ID": "46",
1788     "Kod": "FM1",
1789     "LarosateID": -1
1790 },
1791 {

```

```

1792     "Benamning": {
1793       "sv": "Fysisk planering",
1794       "en": "Spatial Planning"
1795     },
1796     "Beskrivning": {},
1797     "Dolt": false,
1798     "Giltighetsperiod": {},
1799     "ID": "47",
1800     "Kod": "FP1",
1801     "LarosateID": -1
1802   },
1803   {
1804     "Benamning": {
1805       "sv": "Franska",
1806       "en": "French"
1807     },
1808     "Beskrivning": {},
1809     "Dolt": false,
1810     "Giltighetsperiod": {},
1811     "ID": "48",
1812     "Kod": "FR1",
1813     "LarosateID": -1
1814   },
1815   {
1816     "Benamning": {
1817       "sv": "Farkostteknik",
1818       "en": "Vehicle Engineering"
1819     },
1820     "Beskrivning": {},
1821     "Dolt": false,
1822     "Giltighetsperiod": {},
1823     "ID": "49",
1824     "Kod": "FT1",
1825     "LarosateID": -1
1826   },
1827   {
1828     "Benamning": {
1829       "sv": "Freds- och utvecklingsstudier",
1830       "en": "Peace and Development Research"
1831     },
1832     "Beskrivning": {},
1833     "Dolt": false,
1834     "Giltighetsperiod": {},
1835     "ID": "50",
1836     "Kod": "FU1",
1837     "LarosateID": -1
1838   },
1839   {
1840     "Benamning": {
1841       "sv": "Filmvetenskap",
1842       "en": "Film Studies"

```

```

1843     },
1844     "Beskrivning": {},
1845     "Dolt": false,
1846     "Giltighetsperiod": {},
1847     "ID": "51",
1848     "Kod": "FV1",
1849     "LarosateID": -1
1850 },
1851 {
1852     "Benamning": {
1853         "sv": "Fiske och vattenbruk",
1854         "en": "Fishery and Aquaculture"
1855     },
1856     "Beskrivning": {},
1857     "Dolt": false,
1858     "Giltighetsperiod": {},
1859     "ID": "52",
1860     "Kod": "FV2",
1861     "LarosateID": -1
1862 },
1863 {
1864     "Benamning": {
1865         "sv": "Friskv\u00e5rd",
1866         "en": "Physical Welfare"
1867     },
1868     "Beskrivning": {},
1869     "Dolt": false,
1870     "Giltighetsperiod": {},
1871     "ID": "53",
1872     "Kod": "FV3",
1873     "LarosateID": -1
1874 },
1875 {
1876     "Benamning": {
1877         "sv": "Fysik",
1878         "en": "Physics"
1879     },
1880     "Beskrivning": {},
1881     "Dolt": false,
1882     "Giltighetsperiod": {},
1883     "ID": "54",
1884     "Kod": "FY1",
1885     "LarosateID": -1
1886 },
1887 {
1888     "Benamning": {
1889         "sv": "Nationalekonomi",
1890         "en": "Economics"
1891     },
1892     "Beskrivning": {},
1893     "Dolt": false,

```

```

1894     "Giltighetsperiod": {},
1895     "ID": "118",
1896     "Kod": "NA1",
1897     "LarosateID": -1
1898 },
1899 {
1900     "Benamning": {
1901         "sv": "\u00d6vrigt inom naturvetenskap",
1902         "en": "Other Subjects within Natural Science"
1903     },
1904     "Beskrivning": {},
1905     "Dolt": false,
1906     "Giltighetsperiod": {},
1907     "ID": "119",
1908     "Kod": "NA9",
1909     "LarosateID": -1
1910 },
1911 {
1912     "Benamning": {
1913         "sv": "Nederl\u00e4ndska",
1914         "en": "Dutch"
1915     },
1916     "Beskrivning": {},
1917     "Dolt": false,
1918     "Giltighetsperiod": {},
1919     "ID": "120",
1920     "Kod": "NE1",
1921     "LarosateID": -1
1922 },
1923 {
1924     "Benamning": {
1925         "sv": "Nygrekiska",
1926         "en": "Modern Greek"
1927     },
1928     "Beskrivning": {},
1929     "Dolt": false,
1930     "Giltighetsperiod": {},
1931     "ID": "121",
1932     "Kod": "NG1",
1933     "LarosateID": -1
1934 },
1935 {
1936     "Benamning": {
1937         "sv": "Nutrition",
1938         "en": "Nutrition"
1939     },
1940     "Beskrivning": {},
1941     "Dolt": false,
1942     "Giltighetsperiod": {},
1943     "ID": "122",
1944     "Kod": "NU1",

```

```

1945     "LarosateID": -1
1946 },
1947 {
1948     "Benamning": {
1949         "sv": "Odontologi",
1950         "en": "Odontology"
1951     },
1952     "Beskrivning": {},
1953     "Dolt": false,
1954     "Giltighetsperiod": {},
1955     "ID": "123",
1956     "Kod": "OD1",
1957     "LarosateID": -1
1958 },
1959 {
1960     "Benamning": {
1961         "sv": "Omv\u00e5rdnad/omv\u00e5rdnadsvetenskap",
1962         "en": "Nursing Science"
1963     },
1964     "Beskrivning": {},
1965     "Dolt": false,
1966     "Giltighetsperiod": {},
1967     "ID": "124",
1968     "Kod": "OM1",
1969     "LarosateID": -1
1970 },
1971 {
1972     "Benamning": {
1973         "sv": "\u00d6vrigt inom omv\u00e5rdnad",
1974         "en": "Other Subjects within Nursing Science"
1975     },
1976     "Beskrivning": {},
1977     "Dolt": false,
1978     "Giltighetsperiod": {},
1979     "ID": "125",
1980     "Kod": "OM9",
1981     "LarosateID": -1
1982 },
1983 {
1984     "Benamning": {
1985         "sv": "Pedagogik",
1986         "en": "Education"
1987     },
1988     "Beskrivning": {},
1989     "Dolt": false,
1990     "Giltighetsperiod": {},
1991     "ID": "126",
1992     "Kod": "PE1",
1993     "LarosateID": -1
1994 },
1995 {

```

```

1996     "Benamning": {
1997         "sv": "Sociologi",
1998         "en": "Sociology"
1999     },
2000     "Beskrivning": {},
2001     "Dolt": false,
2002     "Giltighetsperiod": {},
2003     "ID": "145",
2004     "Kod": "S01",
2005     "LarosateID": -1
2006 },
2007 {
2008     "Benamning": {
2009         "sv": "Socialantropologi",
2010         "en": "Social Anthropology"
2011     },
2012     "Beskrivning": {},
2013     "Dolt": false,
2014     "Giltighetsperiod": {},
2015     "ID": "146",
2016     "Kod": "S02",
2017     "LarosateID": -1
2018 },
2019 {
2020     "Benamning": {
2021         "sv": "Spanska",
2022         "en": "Spanish"
2023     },
2024     "Beskrivning": {},
2025     "Dolt": false,
2026     "Giltighetsperiod": {},
2027     "ID": "147",
2028     "Kod": "SP1",
2029     "LarosateID": -1
2030 },
2031 {
2032     "Benamning": {
2033         "sv": "\u00d6vriga spr\u00e5k",
2034         "en": "Other Languages"
2035     },
2036     "Beskrivning": {},
2037     "Dolt": false,
2038     "Giltighetsperiod": {},
2039     "ID": "148",
2040     "Kod": "SP2",
2041     "LarosateID": -1
2042 },
2043 {
2044     "Benamning": {
2045         "sv": "Svenska som andraspr\u00e5k",
2046         "en": "Swedish as a Second Language"

```



```
2047     },
2048     "Beskrivning": {},
2049     "Dolt": false,
2050     "Giltighetsperiod": {},
2051     "ID": "149",
2052     "Kod": "SS1",
2053     "LarosateID": -1
2054 },
2055 {
2056     "Benamning": {
2057         "sv": "Socialt arbete och social omsorg",
2058         "en": "Social Work and Social Welfare"
2059     },
2060     "Beskrivning": {},
2061     "Dolt": false,
2062     "Giltighetsperiod": {},
2063     "ID": "150",
2064     "Kod": "SS2",
2065     "LarosateID": -1
2066 },
2067 {
2068     "Benamning": {
2069         "sv": "Statistik",
2070         "en": "Statistics"
2071     },
2072     "Beskrivning": {},
2073     "Dolt": false,
2074     "Giltighetsperiod": {},
2075     "ID": "151",
2076     "Kod": "ST1",
2077     "LarosateID": -1
2078 },
2079 {
2080     "Benamning": {
2081         "sv": "Statsvetenskap",
2082         "en": "Political Science"
2083     },
2084     "Beskrivning": {},
2085     "Dolt": false,
2086     "Giltighetsperiod": {},
2087     "ID": "152",
2088     "Kod": "ST2",
2089     "LarosateID": -1
2090 },
2091 {
2092     "Benamning": {
2093         "sv": "Svenska/nordiska spr\u00e5k",
2094         "en": "Swedish/Scandinavian Languages"
2095     },
2096     "Beskrivning": {},
2097     "Dolt": false,
```

```

2098     "Giltighetsperiod": {},
2099     "ID": "153",
2100     "Kod": "SV1",
2101     "LarosateID": -1
2102 },
2103 {
2104     "Benamning": {
2105         "sv": "Ungerska",
2106         "en": "Hungarian"
2107     },
2108     "Beskrivning": {},
2109     "Dolt": false,
2110     "Giltighetsperiod": {},
2111     "ID": "176",
2112     "Kod": "UN1",
2113     "LarosateID": -1
2114 },
2115 {
2116     "Benamning": {
2117         "sv": "Utbildningsvetenskap/didaktik allm\u00e4nt",
2118         "en": "Educational Sciences/General Didactics"
2119     },
2120     "Beskrivning": {},
2121     "Dolt": false,
2122     "Giltighetsperiod": {},
2123     "ID": "177",
2124     "Kod": "UV1",
2125     "LarosateID": -1
2126 },
2127 {
2128     "Benamning": {
2129         "sv": "Utbildningsvetenskap teoretiska \u00e4mnen",
2130         "en": "Educational Sciences/Theoretical Subjects"
2131     },
2132     "Beskrivning": {},
2133     "Dolt": false,
2134     "Giltighetsperiod": {},
2135     "ID": "178",
2136     "Kod": "UV2",
2137     "LarosateID": -1
2138 },
2139 {
2140     "Benamning": {
2141         "sv": "Utbildningsvetenskap praktisk-estetiska \u00e4mnen",
2142         "en": "Educational Sciences/Practical Subjects"
2143     },
2144     "Beskrivning": {},
2145     "Dolt": false,
2146     "Giltighetsperiod": {},
2147     "ID": "179",
2148     "Kod": "UV3",

```

```

2149     "LarosateID": -1
2150 },
2151 {
2152     "Benamning": {
2153         "sv": "Veterin\u00e4rmedicin",
2154         "en": "Veterinary Medicine"
2155     },
2156     "Beskrivning": {},
2157     "Dolt": false,
2158     "Giltighetsperiod": {},
2159     "ID": "180",
2160     "Kod": "VE1",
2161     "LarosateID": -1
2162 },
2163 {
2164     "Benamning": {
2165         "sv": "V\u00e4g- och vattenbyggnad",
2166         "en": "Civil Engineering"
2167     },
2168     "Beskrivning": {},
2169     "Dolt": false,
2170     "Giltighetsperiod": {},
2171     "ID": "181",
2172     "Kod": "VV1",
2173     "LarosateID": -1
2174 }
2175 ]
2176 }

```

## 20.15 studietakt\_JSON

```

1108a <LadokSession data methods 151b>+=
# added by GQMJr
def studietakt_JSON(self) -> dict:
    """
    Returns study paces.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url + '/kataloginformation/internal/grunddata/studietakt',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

```

1108b <test functions 151a>+=
def test_studietakt_JSON() -> None:
    r = ladok.studietakt_JSON()
    assert type(r) == dict

```

This code is used in chunk 146.

The output looks like this:

```

1  {
2    "Studietakt": [
3      {
4        "Benamning": {
5          "sv": "Tiondelsfart",
6          "en": "One-tenth-time"
7        },
8        "Beskrivning": {},
9        "Dolt": false,
10       "Giltighetsperiod": {},
11       "ID": "8",
12       "Kod": "10",
13       "LarosateID": -1,
14       "Takt": 10
15     },
16     {
17       "Benamning": {
18         "sv": "Helfart",
19         "en": "Full-time"
20       },
21       "Beskrivning": {},
22       "Dolt": false,
23       "Giltighetsperiod": {},
24       "ID": "1",
25       "Kod": "100",
26       "LarosateID": -1,
27       "Takt": 100
28     },
29     {
30       "Benamning": {
31         "sv": "\u00c5ttondelsfart",
32         "en": "One-eight-time"
33       },
34       "Beskrivning": {},
35       "Dolt": false,
36       "Giltighetsperiod": {},
37       "ID": "128190",
38       "Kod": "12",
39       "LarosateID": -1,
40       "Takt": 12
41     },
42     {
43       "Benamning": {
44         "sv": "Sj\u00e4ttedelarfart",
45         "en": "One-sixth-time"
46       },
47       "Beskrivning": {},
48       "Dolt": false,
49       "Giltighetsperiod": {},

```

```

50     "ID": "7",
51     "Kod": "17",
52     "LarosateID": -1,
53     "Takt": 17
54 },
55 {
56     "Benamning": {
57         "sv": "Kvartsfart",
58         "en": "One-quarter-time"
59     },
60     "Beskrivning": {},
61     "Dolt": false,
62     "Giltighetsperiod": {},
63     "ID": "6",
64     "Kod": "25",
65     "LarosateID": -1,
66     "Takt": 25
67 },
68 {
69     "Benamning": {
70         "sv": "Tredjedelsfart",
71         "en": "One-third-time"
72     },
73     "Beskrivning": {},
74     "Dolt": false,
75     "Giltighetsperiod": {},
76     "ID": "5",
77     "Kod": "33",
78     "LarosateID": -1,
79     "Takt": 33
80 },
81 {
82     "Benamning": {
83         "sv": "Halvfart",
84         "en": "Half-time"
85     },
86     "Beskrivning": {},
87     "Dolt": false,
88     "Giltighetsperiod": {},
89     "ID": "4",
90     "Kod": "50",
91     "LarosateID": -1,
92     "Takt": 50
93 },
94 {
95     "Benamning": {
96         "sv": "Tv\u00e5tredjedelsfart",
97         "en": "Two-thirds-time"
98     },
99     "Beskrivning": {
100         "sv": "\u00c4ndras till \"Tv\u00e5tredjedelsfart\" efter fullbordad produktionss\u00e4ttning."

```

```

101     },
102     "Dolt": false,
103     "Giltighetsperiod": {},
104     "ID": "3",
105     "Kod": "67",
106     "LarosateID": -1,
107     "Takt": 67
108 },
109 {
110     "Benamning": {
111         "sv": "Trekvartsfart",
112         "en": "Three-quarters-time"
113     },
114     "Beskrivning": {},
115     "Dolt": false,
116     "Giltighetsperiod": {},
117     "ID": "2",
118     "Kod": "75",
119     "LarosateID": -1,
120     "Takt": 75
121 },
122 {
123     "Benamning": {
124         "sv": "Noll",
125         "en": "- No translation available -"
126     },
127     "Beskrivning": {},
128     "Dolt": false,
129     "Giltighetsperiod": {
130         "Slutdatum": "2018-06-19"
131     },
132     "ID": "133268",
133     "Kod": "0",
134     "LarosateID": 29,
135     "Takt": 0
136 },
137 {
138     "Benamning": {
139         "sv": "Kvartstid",
140         "en": "One-quarter-time"
141     },
142     "Beskrivning": {},
143     "Dolt": false,
144     "Giltighetsperiod": {
145         "Slutdatum": "2018-06-19"
146     },
147     "ID": "133270",
148     "Kod": "1",
149     "LarosateID": 29,
150     "Takt": 1
151 },

```

```
152     {
153         "Benamning": {
154             "sv": "Kvartstid",
155             "en": "One-quarter-time"
156         },
157         "Beskrivning": {},
158         "Dolt": false,
159         "Giltighetsperiod": {
160             "Slutdatum": "2018-06-19"
161         },
162         "ID": "133282",
163         "Kod": "11",
164         "LarosateID": 29,
165         "Takt": 11
166     },
167     {
168         "Benamning": {
169             "sv": "Kvartstid",
170             "en": "One-quarter-time"
171         },
172         "Beskrivning": {},
173         "Dolt": false,
174         "Giltighetsperiod": {
175             "Slutdatum": "2018-06-19"
176         },
177         "ID": "133281",
178         "Kod": "13",
179         "LarosateID": 29,
180         "Takt": 13
181     },
182     {
183         "Benamning": {
184             "sv": "Kvartstid",
185             "en": "One-quarter-time"
186         },
187         "Beskrivning": {},
188         "Dolt": false,
189         "Giltighetsperiod": {
190             "Slutdatum": "2018-06-19"
191         },
192         "ID": "133278",
193         "Kod": "14",
194         "LarosateID": 29,
195         "Takt": 14
196     },
197     {
198         "Benamning": {
199             "sv": "Kvartstid",
200             "en": "One-quarter-time"
201         },
202         "Beskrivning": {},
```

```
203     "Dolt": false,
204     "Giltighetsperiod": {
205         "Slutdatum": "2018-06-19"
206     },
207     "ID": "133283",
208     "Kod": "15",
209     "LarosateID": 29,
210     "Takt": 15
211 },
212 {
213     "Benamning": {
214         "sv": "Kvartstid",
215         "en": "One-quarter-time"
216     },
217     "Beskrivning": {},
218     "Dolt": false,
219     "Giltighetsperiod": {
220         "Slutdatum": "2018-06-19"
221     },
222     "ID": "133280",
223     "Kod": "16",
224     "LarosateID": 29,
225     "Takt": 16
226 },
227 {
228     "Benamning": {
229         "sv": "Kvartstid",
230         "en": "One-quarter-time"
231     },
232     "Beskrivning": {},
233     "Dolt": false,
234     "Giltighetsperiod": {
235         "Slutdatum": "2018-06-19"
236     },
237     "ID": "133289",
238     "Kod": "18",
239     "LarosateID": 29,
240     "Takt": 18
241 },
242 {
243     "Benamning": {
244         "sv": "Kvartstid",
245         "en": "One-quarter-time"
246     },
247     "Beskrivning": {},
248     "Dolt": false,
249     "Giltighetsperiod": {
250         "Slutdatum": "2018-06-19"
251     },
252     "ID": "133279",
253     "Kod": "19",
```



```
254     "LarosateID": 29,
255     "Takt": 19
256 },
257 {
258     "Benamning": {
259         "sv": "Kvartstid",
260         "en": "One-quarter-time"
261     },
262     "Beskrivning": {},
263     "Dolt": false,
264     "Giltighetsperiod": {
265         "Slutdatum": "2018-06-19"
266     },
267     "ID": "133271",
268     "Kod": "2",
269     "LarosateID": 29,
270     "Takt": 2
271 },
272 {
273     "Benamning": {
274         "sv": "Kvartstid",
275         "en": "One-quarter-time"
276     },
277     "Beskrivning": {},
278     "Dolt": false,
279     "Giltighetsperiod": {
280         "Slutdatum": "2018-06-19"
281     },
282     "ID": "133285",
283     "Kod": "20",
284     "LarosateID": 29,
285     "Takt": 20
286 },
287 {
288     "Benamning": {
289         "sv": "Kvartstid",
290         "en": "One-quarter-time"
291     },
292     "Beskrivning": {},
293     "Dolt": false,
294     "Giltighetsperiod": {
295         "Slutdatum": "2018-06-19"
296     },
297     "ID": "133287",
298     "Kod": "21",
299     "LarosateID": 29,
300     "Takt": 21
301 },
302 {
303     "Benamning": {
304         "sv": "Kvartstid",
```

```
305         "en": "One-quarter-time"
306     },
307     "Beskrivning": {},
308     "Dolt": false,
309     "Giltighetsperiod": {
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1101     },
1102     "Beskrivning": {},
1103     "Dolt": false,
1104     "Giltighetsperiod": {
1105         "Slutdatum": "2018-06-19"
1106     },
1107     "ID": "133342",
1108     "Kod": "74",
1109     "LarosateID": 29,
1110     "Takt": 74
1111 },
1112 {
1113     "Benamning": {
1114         "sv": "N\u00e4stan heltid",
1115         "en": "Almost full-time"
1116     },
1117     "Beskrivning": {},
1118     "Dolt": false,
1119     "Giltighetsperiod": {
1120         "Slutdatum": "2018-06-19"

```

```

1121     },
1122     "ID": "133335",
1123     "Kod": "76",
1124     "LarosateID": 29,
1125     "Takt": 76
1126 },
1127 {
1128     "Benamning": {
1129         "sv": "N\u00e4stan heltid",
1130         "en": "Almost full-time"
1131     },
1132     "Beskrivning": {},
1133     "Dolt": false,
1134     "Giltighetsperiod": {
1135         "Slutdatum": "2018-06-19"
1136     },
1137     "ID": "133347",
1138     "Kod": "77",
1139     "LarosateID": 29,
1140     "Takt": 77
1141 },
1142 {
1143     "Benamning": {
1144         "sv": "N\u00e4stan heltid",
1145         "en": "Almost full-time"
1146     },
1147     "Beskrivning": {},
1148     "Dolt": false,
1149     "Giltighetsperiod": {
1150         "Slutdatum": "2018-06-19"
1151     },
1152     "ID": "133339",
1153     "Kod": "78",
1154     "LarosateID": 29,
1155     "Takt": 78
1156 },
1157 {
1158     "Benamning": {
1159         "sv": "N\u00e4stan heltid",
1160         "en": "Almost full-time"
1161     },
1162     "Beskrivning": {},
1163     "Dolt": false,
1164     "Giltighetsperiod": {
1165         "Slutdatum": "2018-06-19"
1166     },
1167     "ID": "133338",
1168     "Kod": "79",
1169     "LarosateID": 29,
1170     "Takt": 79
1171 },

```

```

1172     {
1173         "Benamning": {
1174             "sv": "Kvartstid",
1175             "en": "One-quarter-time"
1176         },
1177         "Beskrivning": {},
1178         "Dolt": false,
1179         "Giltighetsperiod": {
1180             "Slutdatum": "2018-06-19"
1181         },
1182         "ID": "133275",
1183         "Kod": "8",
1184         "LarosateID": 29,
1185         "Takt": 8
1186     },
1187     {
1188         "Benamning": {
1189             "sv": "N\u00e4stan heltid",
1190             "en": "Almost full-time"
1191         },
1192         "Beskrivning": {},
1193         "Dolt": false,
1194         "Giltighetsperiod": {
1195             "Slutdatum": "2018-06-19"
1196         },
1197         "ID": "133337",
1198         "Kod": "80",
1199         "LarosateID": 29,
1200         "Takt": 80
1201     },
1202     {
1203         "Benamning": {
1204             "sv": "N\u00e4stan heltid",
1205             "en": "Almost full-time"
1206         },
1207         "Beskrivning": {},
1208         "Dolt": false,
1209         "Giltighetsperiod": {
1210             "Slutdatum": "2018-06-19"
1211         },
1212         "ID": "133336",
1213         "Kod": "81",
1214         "LarosateID": 29,
1215         "Takt": 81
1216     },
1217     {
1218         "Benamning": {
1219             "sv": "N\u00e4stan heltid",
1220             "en": "Almost full-time"
1221         },
1222         "Beskrivning": {},

```

```

1223     "Dolt": false,
1224     "Giltighetsperiod": {
1225         "Slutdatum": "2018-06-19"
1226     },
1227     "ID": "133340",
1228     "Kod": "82",
1229     "LarosateID": 29,
1230     "Takt": 82
1231 },
1232 {
1233     "Benamning": {
1234         "sv": "N\u00e4stan heltid",
1235         "en": "Almost full-time"
1236     },
1237     "Beskrivning": {},
1238     "Dolt": false,
1239     "Giltighetsperiod": {
1240         "Slutdatum": "2018-06-19"
1241     },
1242     "ID": "133345",
1243     "Kod": "83",
1244     "LarosateID": 29,
1245     "Takt": 83
1246 },
1247 {
1248     "Benamning": {
1249         "sv": "N\u00e4stan heltid",
1250         "en": "Almost full-time"
1251     },
1252     "Beskrivning": {},
1253     "Dolt": false,
1254     "Giltighetsperiod": {
1255         "Slutdatum": "2018-06-19"
1256     },
1257     "ID": "133341",
1258     "Kod": "84",
1259     "LarosateID": 29,
1260     "Takt": 84
1261 },
1262 {
1263     "Benamning": {
1264         "sv": "N\u00e4stan heltid",
1265         "en": "Almost full-time"
1266     },
1267     "Beskrivning": {},
1268     "Dolt": false,
1269     "Giltighetsperiod": {
1270         "Slutdatum": "2018-06-19"
1271     },
1272     "ID": "133343",
1273     "Kod": "85",

```

```
1274     "LarosateID": 29,
1275     "Takt": 85
1276 },
1277 {
1278     "Benamning": {
1279         "sv": "N\u00e4stan heltid",
1280         "en": "Almost full-time"
1281     },
1282     "Beskrivning": {},
1283     "Dolt": false,
1284     "Giltighetsperiod": {
1285         "Slutdatum": "2018-06-19"
1286     },
1287     "ID": "133344",
1288     "Kod": "86",
1289     "LarosateID": 29,
1290     "Takt": 86
1291 },
1292 {
1293     "Benamning": {
1294         "sv": "N\u00e4stan heltid",
1295         "en": "Almost full-time"
1296     },
1297     "Beskrivning": {},
1298     "Dolt": false,
1299     "Giltighetsperiod": {
1300         "Slutdatum": "2018-06-19"
1301     },
1302     "ID": "133346",
1303     "Kod": "87",
1304     "LarosateID": 29,
1305     "Takt": 87
1306 },
1307 {
1308     "Benamning": {
1309         "sv": "N\u00e4stan heltid",
1310         "en": "Almost full-time"
1311     },
1312     "Beskrivning": {},
1313     "Dolt": false,
1314     "Giltighetsperiod": {
1315         "Slutdatum": "2018-06-19"
1316     },
1317     "ID": "133348",
1318     "Kod": "88",
1319     "LarosateID": 29,
1320     "Takt": 88
1321 },
1322 {
1323     "Benamning": {
1324         "sv": "N\u00e4stan heltid",
```

```
1325         "en": "Almost full-time"
1326     },
1327     "Beskrivning": {},
1328     "Dolt": false,
1329     "Giltighetsperiod": {
1330         "Slutdatum": "2018-06-19"
1331     },
1332     "ID": "133349",
1333     "Kod": "89",
1334     "LarosateID": 29,
1335     "Takt": 89
1336 },
1337 {
1338     "Benamning": {
1339         "sv": "Kvartstid",
1340         "en": "One-quarter-time"
1341     },
1342     "Beskrivning": {},
1343     "Dolt": false,
1344     "Giltighetsperiod": {
1345         "Slutdatum": "2018-06-19"
1346     },
1347     "ID": "133273",
1348     "Kod": "9",
1349     "LarosateID": 29,
1350     "Takt": 9
1351 },
1352 {
1353     "Benamning": {
1354         "sv": "N\u00e4stan heltid",
1355         "en": "Almost full-time"
1356     },
1357     "Beskrivning": {},
1358     "Dolt": false,
1359     "Giltighetsperiod": {
1360         "Slutdatum": "2018-06-19"
1361     },
1362     "ID": "133350",
1363     "Kod": "90",
1364     "LarosateID": 29,
1365     "Takt": 90
1366 },
1367 {
1368     "Benamning": {
1369         "sv": "N\u00e4stan heltid",
1370         "en": "Almost full-time"
1371     },
1372     "Beskrivning": {},
1373     "Dolt": false,
1374     "Giltighetsperiod": {
1375         "Slutdatum": "2018-06-19"
```

```
1376     },
1377     "ID": "133352",
1378     "Kod": "91",
1379     "LarosateID": 29,
1380     "Takt": 91
1381 },
1382 {
1383     "Benamning": {
1384         "sv": "N\u00e4stan heltid",
1385         "en": "Almost full-time"
1386     },
1387     "Beskrivning": {},
1388     "Dolt": false,
1389     "Giltighetsperiod": {
1390         "Slutdatum": "2018-06-19"
1391     },
1392     "ID": "133358",
1393     "Kod": "92",
1394     "LarosateID": 29,
1395     "Takt": 92
1396 },
1397 {
1398     "Benamning": {
1399         "sv": "N\u00e4stan heltid",
1400         "en": "Almost full-time"
1401     },
1402     "Beskrivning": {},
1403     "Dolt": false,
1404     "Giltighetsperiod": {
1405         "Slutdatum": "2018-06-19"
1406     },
1407     "ID": "133353",
1408     "Kod": "93",
1409     "LarosateID": 29,
1410     "Takt": 93
1411 },
1412 {
1413     "Benamning": {
1414         "sv": "N\u00e4stan heltid",
1415         "en": "Almost full-time"
1416     },
1417     "Beskrivning": {},
1418     "Dolt": false,
1419     "Giltighetsperiod": {
1420         "Slutdatum": "2018-06-19"
1421     },
1422     "ID": "133354",
1423     "Kod": "94",
1424     "LarosateID": 29,
1425     "Takt": 94
1426 },
```

```
1427     {
1428         "Benamning": {
1429             "sv": "N\u00e4stan heltid",
1430             "en": "Almost full-time"
1431         },
1432         "Beskrivning": {},
1433         "Dolt": false,
1434         "Giltighetsperiod": {
1435             "Slutdatum": "2018-06-19"
1436         },
1437         "ID": "133351",
1438         "Kod": "95",
1439         "LarosateID": 29,
1440         "Takt": 95
1441     },
1442     {
1443         "Benamning": {
1444             "sv": "N\u00e4stan heltid",
1445             "en": "Almost full-time"
1446         },
1447         "Beskrivning": {},
1448         "Dolt": false,
1449         "Giltighetsperiod": {
1450             "Slutdatum": "2018-06-19"
1451         },
1452         "ID": "133355",
1453         "Kod": "96",
1454         "LarosateID": 29,
1455         "Takt": 96
1456     },
1457     {
1458         "Benamning": {
1459             "sv": "N\u00e4stan heltid",
1460             "en": "Almost full-time"
1461         },
1462         "Beskrivning": {},
1463         "Dolt": false,
1464         "Giltighetsperiod": {
1465             "Slutdatum": "2018-06-19"
1466         },
1467         "ID": "133357",
1468         "Kod": "97",
1469         "LarosateID": 29,
1470         "Takt": 97
1471     },
1472     {
1473         "Benamning": {
1474             "sv": "N\u00e4stan heltid",
1475             "en": "Almost full-time"
1476         },
1477         "Beskrivning": {},
```



```

1478     "Dolt": false,
1479     "Giltighetsperiod": {
1480         "Slutdatum": "2018-06-19"
1481     },
1482     "ID": "133356",
1483     "Kod": "98",
1484     "LarosateID": 29,
1485     "Takt": 98
1486 },
1487 {
1488     "Benamning": {
1489         "sv": "N\u00e4stan heltid",
1490         "en": "Almost full-time"
1491     },
1492     "Beskrivning": {},
1493     "Dolt": false,
1494     "Giltighetsperiod": {
1495         "Slutdatum": "2018-06-19"
1496     },
1497     "ID": "133359",
1498     "Kod": "99",
1499     "LarosateID": 29,
1500     "Takt": 99
1501 }
1502 ]
1503 }

```

## 20.16 finansieringsform\_JSON

```

1138a <LadokSession data methods 151b>+=
# added by GQMjr
def finansieringsform_JSON(self) -> dict:
    """
    Returns forms of financing.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/finansieringsform',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

```

1138b <test functions 151a>+=
def test_finansieringsform_JSON() -> None:
    r = ladok.finansieringsform_JSON()
    assert type(r) == dict

```

This code is used in chunk 146.

The output looks like this:

```

1 {

```

```

2  "Finansieringsform": [
3    {
4      "Benamning": {
5        "sv": "Aspirantutbildning",
6        "en": "Bridging programme for graduates with foreign qualifications"
7      },
8      "Beskrivning": {},
9      "Dolt": true,
10     "Giltighetsperiod": {
11       "Slutdatum": "2016-06-30"
12     },
13     "ID": "102078",
14     "Kod": "A",
15     "LarosateID": -1
16   },
17   {
18     "Benamning": {
19       "sv": "Bas\u00e5rsutbildning",
20       "en": "Foundation year programme"
21     },
22     "Beskrivning": {},
23     "Dolt": false,
24     "Giltighetsperiod": {},
25     "ID": "102085",
26     "Kod": "B",
27     "LarosateID": -1
28   },
29   {
30     "Benamning": {
31       "sv": "Distanskonsortiekurs",
32       "en": "Distance consortium course"
33     },
34     "Beskrivning": {},
35     "Dolt": true,
36     "Giltighetsperiod": {
37       "Slutdatum": "2016-06-30"
38     },
39     "ID": "102080",
40     "Kod": "D",
41     "LarosateID": -1
42   },
43   {
44     "Benamning": {
45       "sv": "Fortbildningskurs f\u00f6r skolpersonal",
46       "en": "Continuing professional development course for teachers"
47     },
48     "Beskrivning": {},
49     "Dolt": true,
50     "Giltighetsperiod": {
51       "Slutdatum": "2016-06-30"
52     },

```

```

53     "ID": "102076",
54     "Kod": "F",
55     "LarosateID": -1
56 },
57 {
58     "Benamning": {
59         "sv": "Flexibla v\u00e4gar in i l\u00e4raryrket",
60         "en": "Flexible roads into the teaching profession"
61     },
62     "Beskrivning": {
63         "sv": "Regeringsuppdrag \u00e5t Ume\u00e5 universitet att leda ett arbete med att ta fram\minska
64     },
65     "Dolt": true,
66     "Giltighetsperiod": {},
67     "ID": "149937",
68     "Kod": "FVI",
69     "LarosateID": -1
70 },
71 {
72     "Benamning": {
73         "sv": "Kombinationsutbildning",
74         "en": "Combined education"
75     },
76     "Beskrivning": {},
77     "Dolt": true,
78     "Giltighetsperiod": {
79         "Slutdatum": "2016-06-30"
80     },
81     "ID": "102077",
82     "Kod": "KB",
83     "LarosateID": -1
84 },
85 {
86     "Benamning": {
87         "sv": "Finansiering via KK-stiftelsen",
88         "en": "Funded by the Knowledge Foundation"
89     },
90     "Beskrivning": {},
91     "Dolt": true,
92     "Giltighetsperiod": {},
93     "ID": "136090",
94     "Kod": "KK",
95     "LarosateID": -1
96 },
97 {
98     "Benamning": {
99         "sv": "Kompletterande pedagogisk utbildning till grundl\u00e4rar- eller \u00e4mnesl\u00e4rarexamen",
100         "en": "Supplementary pedagogical education aiming to a degree in primary education or a degree
101     },
102     "Beskrivning": {
103         "sv": "SFS 2021:1336 F\u00f6rs\u00f6ksverksamhet med kompletterande pedagogisk utbildning som l

```

```

104     },
105     "Dolt": false,
106     "Giltighetsperiod": {},
107     "ID": "153256",
108     "Kod": "KPL",
109     "LarosateID": -1
110 },
111 {
112     "Benamning": {
113         "sv": "Livsl\u00e5ngt l\u00e5rande",
114         "en": "Life long learning"
115     },
116     "Beskrivning": {
117         "sv": "S\u00e4rskild satsning fr.o.m. 2021 enligt l\u00e5ros\u00e4ttens regleringsbrev"
118     },
119     "Dolt": false,
120     "Giltighetsperiod": {
121         "Startdatum": "2021-01-01"
122     },
123     "ID": "151411",
124     "Kod": "LL",
125     "LarosateID": -1
126 },
127 {
128     "Benamning": {
129         "sv": "NT/SVUX-utbildning",
130         "en": "Adult education in science and applied science"
131     },
132     "Beskrivning": {},
133     "Dolt": true,
134     "Giltighetsperiod": {
135         "Slutdatum": "2016-06-30"
136     },
137     "ID": "102075",
138     "Kod": "NT",
139     "LarosateID": -1
140 },
141 {
142     "Benamning": {
143         "sv": "N\u00e4tuniversitetet",
144         "en": "Net university course"
145     },
146     "Beskrivning": {},
147     "Dolt": true,
148     "Giltighetsperiod": {
149         "Slutdatum": "2016-06-30"
150     },
151     "ID": "102079",
152     "Kod": "NU",
153     "LarosateID": -1
154 },

```

```

155     {
156       "Benamning": {
157         "sv": "Ordinarie anslagsfinansiering",
158         "en": "Regular government funding"
159       },
160       "Beskrivning": {},
161       "Dolt": false,
162       "Giltighetsperiod": {},
163       "ID": "101050",
164       "Kod": "ORD",
165       "LarosateID": -1
166     },
167     {
168       "Benamning": {
169         "sv": "Sommarkurs",
170         "en": "Summer course"
171       },
172       "Beskrivning": {},
173       "Dolt": true,
174       "Giltighetsperiod": {},
175       "ID": "102074",
176       "Kod": "S",
177       "LarosateID": -1
178     },
179     {
180       "Benamning": {
181         "sv": "S\u00e4rskild utbildningssatsning 2020",
182         "en": "Special effort on education 2020"
183       },
184       "Beskrivning": {
185         "sv": "S\u00e4rskild satsning p\u00e5 sommarkurser och beh\u00f6righetsgivande utbildning 2020"
186       },
187       "Dolt": true,
188       "Giltighetsperiod": {
189         "Slutdatum": "2021-06-30",
190         "Startdatum": "2020-01-01"
191       },
192       "ID": "150163",
193       "Kod": "S20",
194       "LarosateID": -1
195     },
196     {
197       "Benamning": {
198         "sv": "S\u00e4rskild satsning p\u00e5 sommarkurser 2021",
199         "en": "Special effort on summer courses 2021"
200       },
201       "Beskrivning": {
202         "sv": "S\u00e4rskild satsning p\u00e5 sommarkurser 2021 (Regeringens proposition 2020/21:99)"
203       },
204       "Dolt": true,
205       "Giltighetsperiod": {

```

```

206         "Startdatum": "2021-01-01"
207     },
208     "ID": "151754",
209     "Kod": "S21",
210     "LarosateID": -1
211 },
212 {
213     "Benamning": {
214         "sv": "Sommarkurser inom l\u00e4raromr\u00e5det f\u00f6r examen, beh\u00f6righet och kompetensutveckling",
215         "en": "Sommer courses within the education area aiming to qualification and competence development"
216     },
217     "Beskrivning": {
218         "sv": "Regeringsbeslut U2019/04118/UH. Ers\u00e4tter uppdraget att anordna fler relevanta sommarkurser",
219     },
220     "Dolt": true,
221     "Giltighetsperiod": {
222         "Startdatum": "2020-01-01"
223     },
224     "ID": "154263",
225     "Kod": "SSL",
226     "LarosateID": -1
227 },
228 {
229     "Benamning": {
230         "sv": "Vetenskap utan gr\u00e4nser",
231         "en": "Science without borders"
232     },
233     "Beskrivning": {
234         "sv": "Se regleringsbrev"
235     },
236     "Dolt": true,
237     "Giltighetsperiod": {},
238     "ID": "102083",
239     "Kod": "SWB",
240     "LarosateID": -1
241 },
242 {
243     "Benamning": {
244         "sv": "S\u00e4rskild l\u00e4rarutbildning",
245         "en": "Special education for teachers in vocational subjects"
246     },
247     "Beskrivning": {
248         "sv": "SFS 2005:568 S\u00e4rskild utbildning av l\u00e4rare i yrkes\u00e4mnen"
249     },
250     "Dolt": true,
251     "Giltighetsperiod": {
252         "Slutdatum": "2010-01-01",
253         "Startdatum": "2005-08-01"
254     },
255     "ID": "102084",
256     "Kod": "S\u00c4L",

```

```

257     "LarosateID": -1
258 },
259 {
260     "Benamning": {
261         "sv": "Uppdragsutbildning",
262         "en": "Contract education"
263     },
264     "Beskrivning": {
265         "sv": "Anv\u00e4nds i Ladok f\u00f6r all uppdragsutbildning som inte s\u00e4rskiljs genom annan
266     },
267     "Dolt": true,
268     "Giltighetsperiod": {},
269     "ID": "102042",
270     "Kod": "U",
271     "LarosateID": -1
272 },
273 {
274     "Benamning": {
275         "sv": "Kompletterande utbildning f\u00f6r personer med utl\u00e4ndsk examen",
276         "en": "Complementary education for persons with foreign degrees"
277     },
278     "Beskrivning": {
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318         "en": "Complementary education for unqualified teachers"
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344         "en": "- No translation available -"
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356         "en": "Contracted course for external doctoral students (ej HST-HPR)"
357     },
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511         "en": "- No translation available -"

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762     "LarosateID": 29
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931         "Kod": "SCS",
932         "LarosateID": 29
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963             "en": "-- No translation available --"
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988         },
989         "Beskrivning": {},
990         "Dolt": true,
991         "Giltighetsperiod": {
992             "Slutdatum": "2018-06-19"
993         },
994         "ID": "131745",
995         "Kod": "SNT",
996         "LarosateID": 29
997     },
998     {
999         "Benamning": {
1000             "sv": "N\u00e4tkurs, sommarperiod",
1001             "en": "- No translation available -"
1002         },
1003         "Beskrivning": {},
1004         "Dolt": true,
1005         "Giltighetsperiod": {
1006             "Slutdatum": "2018-06-19"
1007         },
1008         "ID": "131744",
1009         "Kod": "SN\u00c4",
1010         "LarosateID": 29
1011     },
1012     {
1013         "Benamning": {
1014             "sv": "Sommarperiod",
1015             "en": "- No translation available -"
1016         },
1017         "Beskrivning": {},
1018         "Dolt": true,
1019         "Giltighetsperiod": {
1020             "Slutdatum": "2018-06-19"
1021         },
1022     },
```

```

1022     "ID": "131746",
1023     "Kod": "SOM",
1024     "LarosateID": 29
1025 },
1026 {
1027     "Benamning": {
1028         "sv": "Stockholm Summer School",
1029         "en": "- No translation available -"
1030     },
1031     "Beskrivning": {},
1032     "Dolt": true,
1033     "Giltighetsperiod": {},
1034     "ID": "131748",
1035     "Kod": "SSS",
1036     "LarosateID": 29
1037 },
1038 {
1039     "Benamning": {
1040         "sv": "Best\u00e4lld utbildning f\u00f6r Stockholms Universitet",
1041         "en": "- No translation available -"
1042     },
1043     "Beskrivning": {},
1044     "Dolt": false,
1045     "Giltighetsperiod": {},
1046     "ID": "131749",
1047     "Kod": "SU",
1048     "LarosateID": 29
1049 },
1050 {
1051     "Benamning": {
1052         "sv": "Best\u00e4lld utbildning f\u00f6r S\u00f6dert\u00f6rns h\u00f6gskola",
1053         "en": "- No translation available -"
1054     },
1055     "Beskrivning": {},
1056     "Dolt": false,
1057     "Giltighetsperiod": {},
1058     "ID": "131751",
1059     "Kod": "S\u00d6",
1060     "LarosateID": 29
1061 },
1062 {
1063     "Benamning": {
1064         "sv": "Antagna av distanskonsortiet(ej HST-HPR)",
1065         "en": "- No translation available -"
1066     },
1067     "Beskrivning": {},
1068     "Dolt": true,
1069     "Giltighetsperiod": {
1070         "Slutdatum": "2018-06-19"
1071     },
1072     "ID": "131753",

```

```
1073     "Kod": "UDI",
1074     "LarosateID": 29
1075 },
1076 {
1077     "Benamning": {
1078         "sv": "Best\u00e4lld utbildning f\u00f6r F\u00f6rsvarsh\u00f6gskolan",
1079         "en": "- No translation available -"
1080     },
1081     "Beskrivning": {},
1082     "Dolt": false,
1083     "Giltighetsperiod": {},
1084     "ID": "131750",
1085     "Kod": "UFH",
1086     "LarosateID": 29
1087 },
1088 {
1089     "Benamning": {
1090         "sv": "Best\u00e4lld utbildning f\u00f6r Handelsh\u00f6gskolan",
1091         "en": "- No translation available -"
1092     },
1093     "Beskrivning": {},
1094     "Dolt": true,
1095     "Giltighetsperiod": {
1096         "Slutdatum": "2018-06-19"
1097     },
1098     "ID": "131752",
1099     "Kod": "UHH",
1100     "LarosateID": 29
1101 },
1102 {
1103     "Benamning": {
1104         "sv": "Uppdr.utb. Karolinska inst (ej HST-HPR)",
1105         "en": "- No translation available -"
1106     },
1107     "Beskrivning": {},
1108     "Dolt": true,
1109     "Giltighetsperiod": {
1110         "Slutdatum": "2018-06-19"
1111     },
1112     "ID": "131757",
1113     "Kod": "UKI",
1114     "LarosateID": 29
1115 },
1116 {
1117     "Benamning": {
1118         "sv": "Uppdr.utb. L\u00e4nsarbetsn\u00e4mnden(ej HST-HPR)",
1119         "en": "- No translation available -"
1120     },
1121     "Beskrivning": {},
1122     "Dolt": true,
1123     "Giltighetsperiod": {
```

```

1124         "Slutdatum": "2018-06-19"
1125     },
1126     "ID": "131756",
1127     "Kod": "ULA",
1128     "LarosateID": 29
1129 },
1130 {
1131     "Benamning": {
1132         "sv": "Uppdragsutbildning (ej HST-HPR)",
1133         "en": "- No translation available -"
1134     },
1135     "Beskrivning": {},
1136     "Dolt": false,
1137     "Giltighetsperiod": {
1138         "Startdatum": "2018-06-19"
1139     },
1140     "ID": "131758",
1141     "Kod": "UPP",
1142     "LarosateID": 29
1143 },
1144 {
1145     "Benamning": {
1146         "sv": "Uppdragsutbildning Skolverket (ej HST-HPR)",
1147         "en": "Contract Education, Skolverket"
1148     },
1149     "Beskrivning": {
1150         "sv": "Ny kod 2022\nF\u00f6rordningen 2007:223 avser \u201dUppdragsutbildning f\u00f6r fortbild
1151     },
1152     "Dolt": false,
1153     "Giltighetsperiod": {
1154         "Startdatum": "2018-01-01"
1155     },
1156     "ID": "153550",
1157     "Kod": "UPS",
1158     "LarosateID": 29
1159 },
1160 {
1161     "Benamning": {
1162         "sv": "Uppdr.utb. S\u00f6dert\u00f6rn (ej HST-HPR)",
1163         "en": "- No translation available -"
1164     },
1165     "Beskrivning": {},
1166     "Dolt": true,
1167     "Giltighetsperiod": {
1168         "Slutdatum": "2018-06-19"
1169     },
1170     "ID": "131755",
1171     "Kod": "USO",
1172     "LarosateID": 29
1173 },
1174 {

```



```

1175     "Benamning": {
1176       "sv": "Uppdr.utb. SU-UU (ej HST-HPR)",
1177       "en": "- No translation available -"
1178     },
1179     "Beskrivning": {},
1180     "Dolt": true,
1181     "Giltighetsperiod": {
1182       "Slutdatum": "2018-06-19"
1183     },
1184     "ID": "131767",
1185     "Kod": "USU",
1186     "LarosateID": 29
1187   },
1188   {
1189     "Benamning": {
1190       "sv": "Visby, tekniskt bas\u00e5r",
1191       "en": "- No translation available -"
1192     },
1193     "Beskrivning": {},
1194     "Dolt": true,
1195     "Giltighetsperiod": {
1196       "Slutdatum": "2018-06-19"
1197     },
1198     "ID": "131754",
1199     "Kod": "UVB",
1200     "LarosateID": 29
1201   },
1202   {
1203     "Benamning": {
1204       "sv": "Visby",
1205       "en": "- No translation available -"
1206     },
1207     "Beskrivning": {},
1208     "Dolt": true,
1209     "Giltighetsperiod": {
1210       "Slutdatum": "2018-06-19"
1211     },
1212     "ID": "131760",
1213     "Kod": "UVI",
1214     "LarosateID": 29
1215   },
1216   {
1217     "Benamning": {
1218       "sv": "Visby, NT-SVUX",
1219       "en": "- No translation available -"
1220     },
1221     "Beskrivning": {},
1222     "Dolt": true,
1223     "Giltighetsperiod": {
1224       "Slutdatum": "2018-06-19"
1225     },

```

```
1226     "ID": "131759",
1227     "Kod": "UVN",
1228     "LarosateID": 29
1229 },
1230 {
1231     "Benamning": {
1232         "sv": "Visby, tekniskt bas\u00e5r NT-SVUX",
1233         "en": "-- No translation available --"
1234     },
1235     "Beskrivning": {},
1236     "Dolt": true,
1237     "Giltighetsperiod": {
1238         "Slutdatum": "2018-06-19"
1239     },
1240     "ID": "131761",
1241     "Kod": "UVT",
1242     "LarosateID": 29
1243 },
1244 {
1245     "Benamning": {
1246         "sv": "Uppdr.utb. Visby, UPP (ej HST-HPR)",
1247         "en": "-- No translation available --"
1248     },
1249     "Beskrivning": {},
1250     "Dolt": true,
1251     "Giltighetsperiod": {
1252         "Slutdatum": "2018-06-19"
1253     },
1254     "ID": "131762",
1255     "Kod": "UVU",
1256     "LarosateID": 29
1257 },
1258 {
1259     "Benamning": {
1260         "sv": "Visby, fortbildning och vidareutbildning",
1261         "en": "-- No translation available --"
1262     },
1263     "Beskrivning": {},
1264     "Dolt": true,
1265     "Giltighetsperiod": {
1266         "Slutdatum": "2018-06-19"
1267     },
1268     "ID": "131768",
1269     "Kod": "UVV",
1270     "LarosateID": 29
1271 },
1272 {
1273     "Benamning": {
1274         "sv": "Visby, resultat i GOTDOK (ej HST-HPR)",
1275         "en": "-- No translation available --"
1276     },
```

```

1277     "Beskrivning": {},
1278     "Dolt": true,
1279     "Giltighetsperiod": {
1280         "Slutdatum": "2018-06-19"
1281     },
1282     "ID": "131763",
1283     "Kod": "UVX",
1284     "LarosateID": 29
1285 },
1286 {
1287     "Benamning": {
1288         "sv": "Kurs ers\u00e4ttat en avvecklad kurs (EJ HST)",
1289         "en": "Kurs ers\u00e4ttat en avvecklad kurs (EJ HST)"
1290     },
1291     "Beskrivning": {
1292         "sv": "Fin.form anv\u00e4nds f\u00f6r den ers\u00e4ttande kursens kurstillf\u00e4llen, d\u00e4r"
1293     },
1294     "Dolt": false,
1295     "Giltighetsperiod": {
1296         "Startdatum": "2021-07-01"
1297     },
1298     "ID": "152681",
1299     "Kod": "XER",
1300     "LarosateID": 29
1301 },
1302 {
1303     "Benamning": {
1304         "sv": "Examensarbete frist\u00e5endekurs",
1305         "en": "-- No translation available --"
1306     },
1307     "Beskrivning": {},
1308     "Dolt": true,
1309     "Giltighetsperiod": {},
1310     "ID": "131766",
1311     "Kod": "XEX",
1312     "LarosateID": 29
1313 },
1314 {
1315     "Benamning": {
1316         "sv": "Ex.arb 12 p forts\u00e4ttat till 20 p",
1317         "en": "-- No translation available --"
1318     },
1319     "Beskrivning": {},
1320     "Dolt": true,
1321     "Giltighetsperiod": {
1322         "Slutdatum": "2018-06-19"
1323     },
1324     "ID": "131764",
1325     "Kod": "XII",
1326     "LarosateID": 29
1327 },

```

```

1328     {
1329         "Benamning": {
1330             "sv": "\u00d6verbryggande kurs (ej HST-HPR)",
1331             "en": "- No translation available -"
1332         },
1333         "Beskrivning": {},
1334         "Dolt": true,
1335         "Giltighetsperiod": {},
1336         "ID": "131765",
1337         "Kod": "\u00d6B",
1338         "LarosateID": 29
1339     },
1340     {
1341         "Benamning": {
1342             "sv": "\u00d6verbryggande n\u00e4tkurs (ej HST-HPR)",
1343             "en": "- No translation available -"
1344         },
1345         "Beskrivning": {},
1346         "Dolt": true,
1347         "Giltighetsperiod": {},
1348         "ID": "131769",
1349         "Kod": "\u00d6N\u00c4",
1350         "LarosateID": 29
1351     },
1352     {
1353         "Benamning": {
1354             "sv": "F\u00f6rberedandekurs SFINX stud.(ej HST-HPR)",
1355             "en": "- No translation available -"
1356         },
1357         "Beskrivning": {},
1358         "Dolt": true,
1359         "Giltighetsperiod": {},
1360         "ID": "131770",
1361         "Kod": "\u00d6SF",
1362         "LarosateID": 29
1363     }
1364 ]
1365 }

```

## 20.17 utbildningsomrade\_JSON

```

1165 <LadokSession data methods 151b>+=
# added by GQMJr
def utbildningsomrade_JSON(self) -> dict:
    """
    Returns subject areas.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/utbildningsomrade',

```

```
headers=self.headers).json()
return r
```

Let's add a test. This should return a dictionary.

```
1166 <test functions 151a>+=
def test_utbildningsomrade_JSON() -> None:
    r = ladok.utbildningsomrade_JSON()
    assert type(r) == dict
```

This code is used in chunk 146.

The output looks like this:

```
1 {
2   "Utbildningsomrade": [
3     {
4       "Benamning": {
5         "sv": "Farmaceutiska omr\u00e5det",
6         "en": "Pharmacy"
7       },
8       "Beskrivning": {},
9       "Dolt": true,
10      "Giltighetsperiod": {
11        "Startdatum": "1993-07-01"
12      },
13      "ID": "3",
14      "Kod": "FA",
15      "LarosateID": -1
16    },
17    {
18      "Benamning": {
19        "sv": "Dansomr\u00e5det",
20        "en": "Dance"
21      },
22      "Beskrivning": {
23        "sv": "Inf\u00f6rdes fr\u00f6n budget\u00e5ret 1994/95. Tidigare fanns bara ett konstn\u00e4rli
24      },
25      "Dolt": true,
26      "Giltighetsperiod": {
27        "Startdatum": "1994-07-01"
28      },
29      "ID": "1",
30      "Kod": "DA",
31      "LarosateID": -1
32    },
33    {
34      "Benamning": {
35        "sv": "Idrottsliga omr\u00e5det",
36        "en": "Sports"
37      },
38      "Beskrivning": {},
39      "Dolt": true,
40      "Giltighetsperiod": {
```

```

41     "Startdatum": "1993-07-01"
42 },
43 "ID": "5",
44 "Kod": "ID",
45 "LarosateID": -1
46 },
47 {
48     "Benamning": {
49         "sv": "Undervisningsomr\u00e5det",
50         "en": "Education"
51     },
52     "Beskrivning": {
53         "sv": "Avser utbildning inom det allm\u00e4nna utbildningsomr\u00e5det och den utbildningsveten
54     },
55     "Dolt": false,
56     "Giltighetsperiod": {
57         "Startdatum": "1993-07-01"
58     },
59     "ID": "9",
60     "Kod": "LU",
61     "LarosateID": -1
62 },
63 {
64     "Benamning": {
65         "sv": "Mediaomr\u00e5det",
66         "en": "Media"
67     },
68     "Beskrivning": {
69         "sv": "Inf\u00f6rdes fr\u00f6n budget\u00f6ret 1994/95. Tidigare fanns bara ett konstn\u00e4rli
70     },
71     "Dolt": false,
72     "Giltighetsperiod": {
73         "Startdatum": "1994-07-01"
74     },
75     "ID": "11",
76     "Kod": "MM",
77     "LarosateID": -1
78 },
79 {
80     "Benamning": {
81         "sv": "Naturvetenskapliga omr\u00e5det",
82         "en": "Natural sciences"
83     },
84     "Beskrivning": {},
85     "Dolt": false,
86     "Giltighetsperiod": {
87         "Startdatum": "1993-07-01"
88     },
89     "ID": "13",
90     "Kod": "NA",
91     "LarosateID": -1

```

```

92     },
93     {
94         "Benamning": {
95             "sv": "Operaomr\u00e5det",
96             "en": "Opera"
97         },
98         "Beskrivning": {
99             "sv": "Inf\u00f6rdes fr\u00e5n budget\u00f6ret 1994/95. Tidigare fanns bara ett konstn\u00e4rli
100         },
101         "Dolt": true,
102         "Giltighetsperiod": {
103             "Startdatum": "1994-07-01"
104         },
105         "ID": "15",
106         "Kod": "OP",
107         "LarosateID": -1
108     },
109     {
110         "Benamning": {
111             "sv": "Samh\u00e4llsvetenskapliga omr\u00e5det",
112             "en": "Social sciences"
113         },
114         "Beskrivning": {},
115         "Dolt": false,
116         "Giltighetsperiod": {
117             "Startdatum": "1993-07-01"
118         },
119         "ID": "16",
120         "Kod": "SA",
121         "LarosateID": -1
122     },
123     {
124         "Benamning": {
125             "sv": "Tekniska omr\u00e5det",
126             "en": "Technology"
127         },
128         "Beskrivning": {},
129         "Dolt": false,
130         "Giltighetsperiod": {
131             "Startdatum": "1993-07-01"
132         },
133         "ID": "19",
134         "Kod": "TE",
135         "LarosateID": -1
136     },
137     {
138         "Benamning": {
139             "sv": "V\u00e4rldomr\u00e5det",
140             "en": "Health care"
141         },
142         "Beskrivning": {},

```

```

143     "Dolt": true,
144     "Giltighetsperiod": {
145         "Startdatum": "1993-07-01"
146     },
147     "ID": "22",
148     "Kod": "V\u00c5",
149     "LarosateID": -1
150 },
151 {
152     "Benamning": {
153         "sv": "Information saknas",
154         "en": "Information missing"
155     },
156     "Beskrivning": {},
157     "Dolt": true,
158     "Giltighetsperiod": {},
159     "ID": "23",
160     "Kod": "XX",
161     "LarosateID": -1
162 },
163 {
164     "Benamning": {
165         "sv": "\u00d6vriga omr\u00e5den",
166         "en": "Other fields"
167     },
168     "Beskrivning": {
169         "sv": "Avser journalist- och bibliotekarieutbildningar samt praktiska och estetiska kurser inom
170     },
171     "Dolt": false,
172     "Giltighetsperiod": {
173         "Startdatum": "1993-07-01"
174     },
175     "ID": "24",
176     "Kod": "\u00d6V",
177     "LarosateID": -1
178 },
179 {
180     "Benamning": {
181         "sv": "Designomr\u00e5det",
182         "en": "Design"
183     },
184     "Beskrivning": {
185         "sv": "Inf\u0060rdes fr\u00e5n budget\u00e5ret 1994/95. Tidigare fanns bara ett konstn\u00e4rli
186     },
187     "Dolt": false,
188     "Giltighetsperiod": {
189         "Startdatum": "1994-07-01"
190     },
191     "ID": "2",
192     "Kod": "DE",
193     "LarosateID": -1

```



```

194     },
195     {
196         "Benamning": {
197             "sv": "Humanistiska omr\u00e5det",
198             "en": "Humanities"
199         },
200         "Beskrivning": {},
201         "Dolt": false,
202         "Giltighetsperiod": {
203             "Startdatum": "1993-07-01"
204         },
205         "ID": "4",
206         "Kod": "HU",
207         "LarosateID": -1
208     },
209     {
210         "Benamning": {
211             "sv": "Konstomr\u00e5det",
212             "en": "Fine arts"
213         },
214         "Beskrivning": {
215             "sv": "Inf\u00f6rdes fr\u00e5n budget\u00e5ret 1994/95. Tidigare fanns bara ett konstn\u00e4rli
216         },
217         "Dolt": true,
218         "Giltighetsperiod": {
219             "Startdatum": "1994-07-01"
220         },
221         "ID": "7",
222         "Kod": "KO",
223         "LarosateID": -1
224     },
225     {
226         "Benamning": {
227             "sv": "Medicinska omr\u00e5det",
228             "en": "Medicine"
229         },
230         "Beskrivning": {},
231         "Dolt": false,
232         "Giltighetsperiod": {
233             "Startdatum": "1993-07-01"
234         },
235         "ID": "10",
236         "Kod": "ME",
237         "LarosateID": -1
238     },
239     {
240         "Benamning": {
241             "sv": "Musikomr\u00e5det",
242             "en": "Music"
243         },
244         "Beskrivning": {

```

```

245     "sv": "Inf\u00f6rdes fr\u00e5n budget\u00e5ret 1994/95. Tidigare fanns bara ett konstn\u00e4rli
246 },
247 "Dolt": false,
248 "Giltighetsperiod": {
249     "Startdatum": "1994-07-01"
250 },
251 "ID": "12",
252 "Kod": "MU",
253 "LarosateID": -1
254 },
255 {
256     "Benamning": {
257         "sv": "Odontologiska omr\u00e5det",
258         "en": "Dentistry"
259     },
260     "Beskrivning": {},
261     "Dolt": true,
262     "Giltighetsperiod": {
263         "Startdatum": "1993-07-01"
264     },
265     "ID": "14",
266     "Kod": "OD",
267     "LarosateID": -1
268 },
269 {
270     "Benamning": {
271         "sv": "Teateromr\u00e5det",
272         "en": "Theatre"
273     },
274     "Beskrivning": {
275         "sv": "Inf\u00f6rdes fr\u00e5n budget\u00e5ret 1994/95. Tidigare fanns bara ett konstn\u00e4rli
276     },
277     "Dolt": true,
278     "Giltighetsperiod": {
279         "Startdatum": "1994-07-01"
280     },
281     "ID": "18",
282     "Kod": "TA",
283     "LarosateID": -1
284 },
285 {
286     "Benamning": {
287         "sv": "Teologiska omr\u00e5det",
288         "en": "Theology"
289     },
290     "Beskrivning": {},
291     "Dolt": true,
292     "Giltighetsperiod": {
293         "Startdatum": "1993-07-01"
294     },
295     "ID": "20",

```

```

296     "Kod": "TL",
297     "LarosateID": -1
298 },
299 {
300     "Benamning": {
301         "sv": "Verksamhetsf\u00f6rlagd utbildning",
302         "en": "Placement"
303     },
304     "Beskrivning": {
305         "sv": "Avser verksamhetsf\u00f6rlagd utbildning inom l\u00e4rar- och f\u00f6rskoll\u00e4rart\u00f6rskoll",
306     },
307     "Dolt": false,
308     "Giltighetsperiod": {
309         "Startdatum": "2013-01-01"
310     },
311     "ID": "25",
312     "Kod": "VU",
313     "LarosateID": -1
314 },
315 {
316     "Benamning": {
317         "sv": "Juridiska omr\u00f6md",
318         "en": "Law"
319     },
320     "Beskrivning": {},
321     "Dolt": false,
322     "Giltighetsperiod": {
323         "Startdatum": "1993-07-01"
324     },
325     "ID": "6",
326     "Kod": "JU",
327     "LarosateID": -1
328 }
329 ]
330 }

```

## 20.18 kravpatidigarestudier\_JSON

```

1172 <LadokSession data methods 151b>+=
# added by GQMJr
def kravpatidigarestudier_JSON(self) -> dict:
    """
    Returns requirements for earlier studies.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/kravpatidigarestudier',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

```
1173 <test functions 151a>+=
def test_kravpatidigarestudier_JSON() -> None:
    r = ladok.kravpatidigarestudier_JSON()
    assert type(r) == dict
```

This code is used in chunk 146.

The output looks like this:

```
1 {
2   "KravPaTidigareStudier": [
3     {
4       "Benamning": {
5         "sv": "Tidigare h\u00f6gskolestudier kr\u00e4vs",
6         "en": "University studies required"
7       },
8       "Beskrivning": {},
9       "Dolt": false,
10      "Emilvarde": "uh",
11      "Giltighetsperiod": {},
12      "ID": "1",
13      "Kod": "UH",
14      "LarosateID": -1
15    },
16    {
17      "Benamning": {
18        "sv": "Inga tidigare h\u00f6gskolestudier kr\u00e4vs",
19        "en": "Upper secondary or equivalent"
20      },
21      "Beskrivning": {},
22      "Dolt": false,
23      "Emilvarde": "grundläggande",
24      "Giltighetsperiod": {},
25      "ID": "2",
26      "Kod": "GR",
27      "LarosateID": -1
28    },
29    {
30      "Benamning": {
31        "sv": "Ingen grundl\u00e4ggande beh\u00f6righet kr\u00e4vs",
32        "en": "No general entry requirements needed"
33      },
34      "Beskrivning": {},
35      "Dolt": false,
36      "Emilvarde": "inga",
37      "Giltighetsperiod": {},
38      "ID": "3",
39      "Kod": "IN",
40      "LarosateID": -1
41    }
42  ]
43 }
```

## 20.19 studieordning\_JSON

1174a `<LadokSession data methods 151b>+=`

```
# added by GQMjr
def studieordning_JSON(self) -> dict:
    """
    Returns study regulations.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/studieordning',
        headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

1174b `<test functions 151a>+=`

```
def test_studieordning_JSON() -> None:
    r = ladok.studieordning_JSON()
    assert type(r) == dict
```

This code is used in chunk 146.

The output looks like this:

```
1 {
2   "Studieordning": [
3     {
4       "Benamning": {
5         "sv": "H\u00f6gskoleutbildning, 1993 \u00e5rs studieordning",
6         "en": "Higher education, study regulation of 1993"
7       },
8       "Beskrivning": {
9         "sv": "Avser i Ladok 1993 \u00e5rs studieordning inklusive dess f\u00f6reg\u00e5ngare"
10      },
11      "Dolt": false,
12      "EnhetID": 9,
13      "Giltighetsperiod": {},
14      "ID": "2",
15      "Kod": "H\u00d6693",
16      "LarosateID": -1,
17      "UtbildningsformID": 1
18    },
19    {
20      "Benamning": {
21        "sv": "Beh\u00f6righetsgivande f\u00f6rutbildning (timmar)",
22        "en": "Access education (hours)"
23      },
24      "Beskrivning": {},
25      "Dolt": false,
26      "EnhetID": 5,
27      "Giltighetsperiod": {},
28      "ID": "12",
29      "Kod": "\u00d66VBT",
```

```

30     "LarosateID": -1,
31     "UtbildningsformID": 100970
32 },
33 {
34     "Benamning": {
35         "sv": "Beh\u00f6righetsgivande f\u00f6rutbildning (po\u00e4ng)",
36         "en": "Access education (fup)"
37     },
38     "Beskrivning": {
39         "sv": "Utbildning enligt f\u00f6rordning (2018:1519) om beh\u00f6righetsgivande och h\u00f6gsko
40     },
41     "Dolt": false,
42     "EnhetID": 4,
43     "Giltighetsperiod": {},
44     "ID": "3",
45     "Kod": "F\u00d6P0",
46     "LarosateID": -1,
47     "UtbildningsformID": 2
48 },
49 {
50     "Benamning": {
51         "sv": "Beh\u00f6righetsgivande f\u00f6rutbildning (veckor)",
52         "en": "Access education (weeks)"
53     },
54     "Beskrivning": {
55         "sv": "Utbildning enligt f\u00f6rordning (2018:1519) om beh\u00f6righetsgivande och h\u00f6gsko
56     },
57     "Dolt": false,
58     "EnhetID": 1,
59     "Giltighetsperiod": {},
60     "ID": "4",
61     "Kod": "F\u00d6VE",
62     "LarosateID": -1,
63     "UtbildningsformID": 2
64 },
65 {
66     "Benamning": {
67         "sv": "H\u00f6gskoleintern utbildning (ORU)",
68         "en": "Internal education (ORU)"
69     },
70     "Beskrivning": {
71         "sv": "Intern utbildning vid \u00d6rebro universitet"
72     },
73     "Dolt": false,
74     "EnhetID": 6,
75     "Giltighetsperiod": {
76         "Slutdatum": "2007-06-30",
77         "Startdatum": "2004-01-01"
78     },
79     "ID": "15",
80     "Kod": "\u00d6VHI",

```

```

81     "LarosateID": -1,
82     "UtbildningsformID": 100970
83 },
84 {
85     "Benamning": {
86         "sv": "Kvalificerad yrkesutbildning",
87         "en": "Post-secondary vocational education and training"
88     },
89     "Beskrivning": {
90         "sv": "Utbildning enligt f\u00f6rordningen (2001:1131) om kvalificerad yrkesutbildning (upph\u00f6rt)"
91     },
92     "Dolt": false,
93     "EnhetID": 7,
94     "Giltighetsperiod": {
95         "Slutdatum": "2013-12-31"
96     },
97     "ID": "13",
98     "Kod": "KY02",
99     "LarosateID": -1,
100    "UtbildningsformID": 100968
101 },
102 {
103     "Benamning": {
104         "sv": "Preparandutbildning",
105         "en": "Preparatory education"
106     },
107     "Beskrivning": {
108         "sv": "Utbildning enligt f\u00f6rordningen (1985:681) om preparandutbildning i svenska (upph\u00f6rt)"
109     },
110     "Dolt": false,
111     "EnhetID": 6,
112     "Giltighetsperiod": {
113         "Slutdatum": "1993-06-30"
114     },
115     "ID": "14",
116     "Kod": "\u00d6VPR",
117     "LarosateID": -1,
118     "UtbildningsformID": 100970
119 },
120 {
121     "Benamning": {
122         "sv": "Uppdragsutbildning, \u00d6vrig utbildning (timmar)",
123         "en": "Contract education (hours)"
124     },
125     "Beskrivning": {},
126     "Dolt": false,
127     "EnhetID": 5,
128     "Giltighetsperiod": {
129         "Slutdatum": "2018-12-31"
130     },
131     "ID": "9",

```

```
132     "Kod": "\u00d6VUT",
133     "LarosateID": -1,
134     "UtbildningsformID": 100970
135 },
136 {
137     "Benamning": {
138         "sv": "Yrkesh\u00f6gskoleutbildning",
139         "en": "Higher vocational education"
140     },
141     "Beskrivning": {
142         "sv": "Utbildning enligt f\u00f6rordning (2009:130) om yrkesh\u00f6gskolan"
143     },
144     "Dolt": false,
145     "EnhetID": 8,
146     "Giltighetsperiod": {
147         "Startdatum": "2009-07-01"
148     },
149     "ID": "5",
150     "Kod": "YH09",
151     "LarosateID": -1,
152     "UtbildningsformID": 4
153 },
154 {
155     "Benamning": {
156         "sv": "Uppdragsutbildning (h\u00f6gskolepo\u00e4ng)",
157         "en": "Contract education (credits)"
158     },
159     "Beskrivning": {},
160     "Dolt": false,
161     "EnhetID": 2,
162     "Giltighetsperiod": {
163         "Startdatum": "2007-07-01"
164     },
165     "ID": "17",
166     "Kod": "UPHP",
167     "LarosateID": -1,
168     "UtbildningsformID": 100928
169 },
170 {
171     "Benamning": {
172         "sv": "Uppdragsutbildning (veckor)",
173         "en": "Contract education (weeks)"
174     },
175     "Beskrivning": {},
176     "Dolt": false,
177     "EnhetID": 1,
178     "Giltighetsperiod": {},
179     "ID": "18",
180     "Kod": "UPVE",
181     "LarosateID": -1,
182     "UtbildningsformID": 100928
```



```

183     },
184     {
185         "Benamning": {
186             "sv": "Polisutbildning",
187             "en": "Police education"
188         },
189         "Beskrivning": {
190             "sv": "Polisutbildning som ej uppfyller alla kvalitetskrav f\u00f6r h\u00f6gskoleutbildning."
191         },
192         "Dolt": false,
193         "EnhetID": 2,
194         "Giltighetsperiod": {},
195         "ID": "109831",
196         "Kod": "PU99",
197         "LarosateID": -1,
198         "UtbildningsformID": 100969
199     },
200     {
201         "Benamning": {
202             "sv": "Polisutbildning, motsvarande h\u00f6gskoleutbildning",
203             "en": "Police education, equal to Higher education"
204         },
205         "Beskrivning": {
206             "sv": "Polisutbildning som uppfyller kvalitetskraven f\u00f6r h\u00f6gskoleutbildning"
207         },
208         "Dolt": false,
209         "EnhetID": 2,
210         "Giltighetsperiod": {
211             "Startdatum": "2018-07-01"
212         },
213         "ID": "135370",
214         "Kod": "PU18",
215         "LarosateID": -1,
216         "UtbildningsformID": 100969
217     },
218     {
219         "Benamning": {
220             "sv": "\u00d6-Fel",
221             "en": "\u00d6-Fel"
222         },
223         "Beskrivning": {},
224         "Dolt": false,
225         "EnhetID": 1,
226         "Giltighetsperiod": {
227             "Slutdatum": "1900-01-01"
228         },
229         "ID": "138710",
230         "Kod": "FEL",
231         "LarosateID": -1,
232         "UtbildningsformID": 100970
233     },

```

```
234 {
235   "Benamning": {
236     "sv": "Uppdragsutbildning (timmar)",
237     "en": "Contract education (hours)"
238   },
239   "Beskrivning": {},
240   "Dolt": false,
241   "EnhetID": 5,
242   "Giltighetsperiod": {
243     "Startdatum": "2019-01-01"
244   },
245   "ID": "147898",
246   "Kod": "UPTI",
247   "LarosateID": -1,
248   "UtbildningsformID": 100928
249 },
250 {
251   "Benamning": {
252     "sv": "Samverkansutbildning",
253     "en": "Collaborative education"
254   },
255   "Beskrivning": {
256     "sv": "Utbildning som bedrivs i samverkan mellan h\u00f6gskola och folkh\u00f6gskola."
257   },
258   "Dolt": false,
259   "EnhetID": 1,
260   "Giltighetsperiod": {},
261   "ID": "161480",
262   "Kod": "PISU",
263   "LarosateID": -1,
264   "UtbildningsformID": 161479
265 },
266 {
267   "Benamning": {
268     "sv": "Pastoralteologisk utbildning",
269     "en": "Pastoral education"
270   },
271   "Beskrivning": {},
272   "Dolt": false,
273   "EnhetID": 1,
274   "Giltighetsperiod": {},
275   "ID": "162110",
276   "Kod": "PIPT",
277   "LarosateID": -1,
278   "UtbildningsformID": 161479
279 },
280 {
281   "Benamning": {
282     "sv": "H\u00f6gskoleutbildning, 2007 \u00e5rs studieordning",
283     "en": "Higher education, study regulation of 2007"
284   },
```

```

285     "Beskrivning": {},
286     "Dolt": false,
287     "EnhetID": 2,
288     "Giltighetsperiod": {
289         "Startdatum": "2007-07-01"
290     },
291     "ID": "1",
292     "Kod": "H\u00d607",
293     "LarosateID": -1,
294     "UtbildningsformID": 1
295 },
296 {
297     "Benamning": {
298         "sv": "\u00c4ldre utbildning vid F\u00f6rsvarsh\u00f6gskolan",
299         "en": "Older defence education"
300     },
301     "Beskrivning": {
302         "sv": "Utbildning enligt f\u00f6rordningen (1996:1476) med instruktion f\u00f6r F\u00f6rsvarsh\u00f6gskolan",
303     },
304     "Dolt": false,
305     "EnhetID": 10,
306     "Giltighetsperiod": {
307         "Slutdatum": "2007-12-31"
308     },
309     "ID": "16",
310     "Kod": "\u00d6VFU",
311     "LarosateID": -1,
312     "UtbildningsformID": 100970
313 }
314 ]
315 }

```

## 20.20 enhet\_JSON

```

1180a <LadokSession data methods 151b>+=
# added by GQMJr
def enhet_JSON(self) -> dict:
    """
    Returns credit units.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url + '/kataloginformation/internal/grunddata/enhet',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

```

1180b <test functions 151a>+=
def test_enhet_JSON() -> None:
    r = ladok.enhet_JSON()
    assert type(r) == dict

```

This code is used in chunk 146.

The output looks like this:

```

1  {
2    "Enhet": [
3      {
4        "Benamning": {
5          "sv": "Po\u00e4ng (\u00d6vrig utbildning)",
6          "en": "Credit points"
7        },
8        "Beskrivning": {},
9        "Dolt": false,
10       "Giltighetsperiod": {
11         "Slutdatum": "2018-01-01"
12       },
13       "Helarsvarde": 40,
14       "ID": "6",
15       "Kod": "AUP",
16       "LarosateID": -1
17     },
18     {
19       "Benamning": {
20         "sv": "F\u00f6rutbildningspo\u00e4ng",
21         "en": "Pre-education credits"
22       },
23       "Beskrivning": {},
24       "Dolt": false,
25       "Giltighetsperiod": {},
26       "Helarsvarde": 60,
27       "ID": "4",
28       "Kod": "FUP",
29       "LarosateID": -1
30     },
31     {
32       "Benamning": {
33         "sv": "H\u00f6gskolepo\u00e4ng",
34         "en": "Credits"
35       },
36       "Beskrivning": {
37         "sv": "\u00d6versattes 2007-2010 med Higher education credits"
38       },
39       "Dolt": false,
40       "Giltighetsperiod": {
41         "Startdatum": "2007-07-01"
42       },
43       "Helarsvarde": 60,
44       "ID": "2",
45       "Kod": "HP",
46       "LarosateID": -1
47     },
48     {
49       "Benamning": {

```

```

50     "sv": "Konverterade h\u00f6gskolepo\u00e4ng",
51     "en": "Converted credits"
52 },
53 "Beskrivning": {
54     "sv": "Enheten po\u00e4ng konverterades till h\u00f6gskolepo\u00e4ng i Ladok f\u00f6r 1993 \u00f6r 2007",
55 },
56 "Dolt": false,
57 "Giltighetsperiod": {
58     "Slutdatum": "2007-06-30"
59 },
60 "Helarsvarde": 60,
61 "ID": "9",
62 "Kod": "HP-K",
63 "LarosateID": -1
64 },
65 {
66     "Benamning": {
67         "sv": "Interna po\u00e4ng",
68         "en": "Internal credits"
69     },
70     "Beskrivning": {
71         "sv": "Har enbart anv\u00e4nts av F\u00f6rsvarsh\u00f6gskolan"
72     },
73     "Dolt": false,
74     "Giltighetsperiod": {
75         "Slutdatum": "2016-07-01"
76     },
77     "Helarsvarde": 60,
78     "ID": "10",
79     "Kod": "IP",
80     "LarosateID": -1
81 },
82 {
83     "Benamning": {
84         "sv": "KY-po\u00e4ng",
85         "en": "KY credits"
86     },
87     "Beskrivning": {},
88     "Dolt": false,
89     "Giltighetsperiod": {
90         "Slutdatum": "2013-12-31",
91         "Startdatum": "2002-01-01"
92     },
93     "Helarsvarde": 40,
94     "ID": "7",
95     "Kod": "KYP",
96     "LarosateID": -1
97 },
98 {
99     "Benamning": {
100         "sv": "Timm\u00e5r",

```

```

101         "en": "Hours"
102     },
103     "Beskrivning": {},
104     "Dolt": false,
105     "Giltighetsperiod": {},
106     "Helarsvarde": 1600,
107     "ID": "5",
108     "Kod": "T",
109     "LarosateID": -1
110 },
111 {
112     "Benamning": {
113         "sv": "Veckor",
114         "en": "Weeks"
115     },
116     "Beskrivning": {},
117     "Dolt": false,
118     "Giltighetsperiod": {},
119     "Helarsvarde": 40,
120     "ID": "1",
121     "Kod": "V",
122     "LarosateID": -1
123 },
124 {
125     "Benamning": {
126         "sv": "Yrkesh\u00f6gskolepo\u00e4ng",
127         "en": "HVE credits"
128     },
129     "Beskrivning": {},
130     "Dolt": false,
131     "Giltighetsperiod": {
132         "Startdatum": "2009-07-01"
133     },
134     "Helarsvarde": 200,
135     "ID": "8",
136     "Kod": "YHP",
137     "LarosateID": -1
138 }
139 ]
140 }

```

## 20.21 studielokalisering\_JSON

```

1183 <LadokSession data methods 151b>+=
    # added by GQMJr
    def studielokalisering_JSON(self) -> dict:
        """
        Returns study locations.
        """
        r = self.session.get(

```

```

url=self.base_gui_proxy_url +
    '/kataloginformation/internal/grunddata/studielokalisering',
headers=self.headers).json()
return r

```

Let's add a test. This should return a dictionary.

```

1184 <test functions 151a>+=
def test_studielokalisering_JSON() -> None:
    r = ladok.studielokalisering_JSON()
    assert type(r) == dict

```

This code is used in chunk 146.

The output looks like this:

```

1  {
2    "Studielokalisering": [
3      {
4        "Benamning": {
5          "sv": "Botkyrka",
6          "en": "Botkyrka"
7        },
8        "Beskrivning": {},
9        "Dolt": true,
10       "Giltighetsperiod": {
11         "Slutdatum": "1997-12-31",
12         "Startdatum": "1997-08-01"
13       },
14       "ID": "131772",
15       "Kod": "0127",
16       "LarosateID": 29,
17       "OrtID": 110990
18     },
19     {
20       "Benamning": {
21         "sv": "Haninge",
22         "en": "Haninge"
23       },
24       "Beskrivning": {},
25       "Dolt": true,
26       "Giltighetsperiod": {
27         "Slutdatum": "2016-06-30",
28         "Startdatum": "1994-08-01"
29       },
30       "ID": "131773",
31       "Kod": "0136",
32       "LarosateID": 29,
33       "OrtID": 110991
34     },
35     {
36       "Benamning": {
37         "sv": "S\u00f6dert\u00e4lje",
38         "en": "S\u00f6dert\u00e4lje"

```

```

39     },
40     "Beskrivning": {},
41     "Dolt": true,
42     "Giltighetsperiod": {
43         "Slutdatum": "2019-01-14",
44         "Startdatum": "1987-01-01"
45     },
46     "ID": "131771",
47     "Kod": "0181",
48     "LarosateID": 29,
49     "OrtID": 20
50 },
51 {
52     "Benamning": {
53         "sv": "Norrt\u00e4lje",
54         "en": "Norrt\u00e4lje"
55     },
56     "Beskrivning": {},
57     "Dolt": true,
58     "Giltighetsperiod": {
59         "Slutdatum": "2005-06-30",
60         "Startdatum": "1997-08-01"
61     },
62     "ID": "131776",
63     "Kod": "0188",
64     "LarosateID": 29,
65     "OrtID": 28
66 },
67 {
68     "Benamning": {
69         "sv": "Visby",
70         "en": "Visby"
71     },
72     "Beskrivning": {},
73     "Dolt": true,
74     "Giltighetsperiod": {
75         "Slutdatum": "2000-12-31",
76         "Startdatum": "1991-08-01"
77     },
78     "ID": "131781",
79     "Kod": "0980",
80     "LarosateID": 29,
81     "OrtID": 108
82 },
83 {
84     "Benamning": {
85         "sv": "\u00c4ngelholm",
86         "en": "\u00c4ngelholm"
87     },
88     "Beskrivning": {},
89     "Dolt": true,

```



```

90     "Giltighetsperiod": {
91         "Slutdatum": "1997-12-31",
92         "Startdatum": "1997-12-31"
93     },
94     "ID": "131782",
95     "Kod": "1292",
96     "LarosateID": 29,
97     "OrtID": 154
98 },
99 {
100     "Benamning": {
101         "sv": "Falun",
102         "en": "Falun"
103     },
104     "Beskrivning": {},
105     "Dolt": true,
106     "Giltighetsperiod": {
107         "Slutdatum": "1998-12-31",
108         "Startdatum": "1994-08-01"
109     },
110     "ID": "131787",
111     "Kod": "2080",
112     "LarosateID": 29,
113     "OrtID": 263
114 },
115 {
116     "Benamning": {
117         "sv": "G\u00e4vle",
118         "en": "G\u00e4vle"
119     },
120     "Beskrivning": {},
121     "Dolt": true,
122     "Giltighetsperiod": {
123         "Slutdatum": "1998-12-31",
124         "Startdatum": "1997-08-01"
125     },
126     "ID": "131784",
127     "Kod": "2180",
128     "LarosateID": 29,
129     "OrtID": 273
130 },
131 {
132     "Benamning": {
133         "sv": "AlbaNova",
134         "en": "AlbaNova"
135     },
136     "Beskrivning": {},
137     "Dolt": false,
138     "Giltighetsperiod": {
139         "Startdatum": "2018-06-20"
140     },

```

```

141     "ID": "135190",
142     "Kod": "ALBANOVA",
143     "LarosateID": 29,
144     "OrtID": 18
145 },
146 {
147     "Benamning": {
148         "sv": "\u00c5re",
149         "en": "\u00c5re"
150     },
151     "Beskrivning": {},
152     "Dolt": false,
153     "Giltighetsperiod": {
154         "Startdatum": "2024-01-13"
155     },
156     "ID": "157819",
157     "Kod": "ARE",
158     "LarosateID": 29,
159     "OrtID": 290
160 },
161 {
162     "Benamning": {
163         "sv": "KI Flemingsberg",
164         "en": "KI Flemingsberg"
165     },
166     "Beskrivning": {},
167     "Dolt": false,
168     "Giltighetsperiod": {
169         "Startdatum": "2018-06-20"
170     },
171     "ID": "135192",
172     "Kod": "KI_FLEMINGS",
173     "LarosateID": 29,
174     "OrtID": 7
175 },
176 {
177     "Benamning": {
178         "sv": "KI Solna",
179         "en": "KI Solna"
180     },
181     "Beskrivning": {},
182     "Dolt": false,
183     "Giltighetsperiod": {
184         "Startdatum": "2018-06-20"
185     },
186     "ID": "135193",
187     "Kod": "KI_SOLNA",
188     "LarosateID": 29,
189     "OrtID": 25
190 },
191 {

```

```

192     "Benamning": {
193         "sv": "Ludvika",
194         "en": "Ludvika"
195     },
196     "Beskrivning": {},
197     "Dolt": false,
198     "Giltighetsperiod": {
199         "Startdatum": "2024-01-13"
200     },
201     "ID": "157824",
202     "Kod": "LUDVIKA",
203     "LarosateID": 29,
204     "OrtID": 267
205 },
206 {
207     "Benamning": {
208         "sv": "Norrt\u00e4lje",
209         "en": "Norrt\u00e4lje"
210     },
211     "Beskrivning": {
212         "sv": "L\u00e4rcentrum, Tekniskt bas\u00e5r"
213     },
214     "Dolt": false,
215     "Giltighetsperiod": {
216         "Startdatum": "2025-02-18"
217     },
218     "ID": "161536",
219     "Kod": "NORRTAN",
220     "LarosateID": 29,
221     "OrtID": 28
222 },
223 {
224     "Benamning": {
225         "sv": "Pajala",
226         "en": "Pajala"
227     },
228     "Beskrivning": {},
229     "Dolt": false,
230     "Giltighetsperiod": {
231         "Startdatum": "2024-01-13"
232     },
233     "ID": "157823",
234     "Kod": "PAJALA",
235     "LarosateID": 29,
236     "OrtID": 319
237 },
238 {
239     "Benamning": {
240         "sv": "KTH Solna",
241         "en": "KTH Solna"
242     },

```

```

243     "Beskrivning": {
244         "sv": "SciLife Labs, Solna",
245         "en": "SciLife Labs, Solna"
246     },
247     "Dolt": false,
248     "Giltighetsperiod": {
249         "Startdatum": "2018-06-18"
250     },
251     "ID": "135610",
252     "Kod": "SCILIFELAB",
253     "LarosateID": 29,
254     "OrtID": 25
255 },
256 {
257     "Benamning": {
258         "sv": "J\u00e4rf\u00e4lla",
259         "en": "J\u00e4rf\u00e4lla"
260     },
261     "Beskrivning": {},
262     "Dolt": true,
263     "Giltighetsperiod": {
264         "Slutdatum": "1996-06-30",
265         "Startdatum": "1994-08-01"
266     },
267     "ID": "131775",
268     "Kod": "0123",
269     "LarosateID": 29,
270     "OrtID": 5
271 },
272 {
273     "Benamning": {
274         "sv": "Huddinge",
275         "en": "Huddinge"
276     },
277     "Beskrivning": {},
278     "Dolt": true,
279     "Giltighetsperiod": {
280         "Slutdatum": "2019-01-14",
281         "Startdatum": "2002-01-01"
282     },
283     "ID": "131779",
284     "Kod": "0126",
285     "LarosateID": 29,
286     "OrtID": 109830
287 },
288 {
289     "Benamning": {
290         "sv": "Nyk\u00f6ping",
291         "en": "Nyk\u00f6ping"
292     },
293     "Beskrivning": {},

```

```
294     "Dolt": true,
295     "Giltighetsperiod": {
296         "Slutdatum": "2005-06-30",
297         "Startdatum": "2005-01-01"
298     },
299     "ID": "131777",
300     "Kod": "0480",
301     "LarosateID": 29,
302     "OrtID": 44
303 },
304 {
305     "Benamning": {
306         "sv": "Valdemarsvik",
307         "en": "Valdemarsvik"
308     },
309     "Beskrivning": {},
310     "Dolt": true,
311     "Giltighetsperiod": {
312         "Slutdatum": "1999-12-31",
313         "Startdatum": "1900-01-01"
314     },
315     "ID": "131780",
316     "Kod": "0563",
317     "LarosateID": 29,
318     "OrtID": 60
319 },
320 {
321     "Benamning": {
322         "sv": "\u00d6rebro",
323         "en": "\u00d6rebro"
324     },
325     "Beskrivning": {},
326     "Dolt": true,
327     "Giltighetsperiod": {
328         "Slutdatum": "1998-06-30",
329         "Startdatum": "1996-08-01"
330     },
331     "ID": "131786",
332     "Kod": "1880",
333     "LarosateID": 29,
334     "OrtID": 237
335 },
336 {
337     "Benamning": {
338         "sv": "V\u00e4ster\u00e5s",
339         "en": "V\u00e4ster\u00e5s"
340     },
341     "Beskrivning": {},
342     "Dolt": true,
343     "Giltighetsperiod": {
344         "Slutdatum": "1999-12-31",
```

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345     "Startdatum": "1994-08-01"
346 },
347 "ID": "131783",
348 "Kod": "1980",
349 "LarosateID": 29,
350 "OrtID": 248
351 },
352 {
353   "Benamning": {
354     "sv": "Sundsvall",
355     "en": "Sundsvall"
356   },
357   "Beskrivning": {},
358   "Dolt": true,
359   "Giltighetsperiod": {
360     "Slutdatum": "1997-12-31",
361     "Startdatum": "1996-08-01"
362   },
363   "ID": "131785",
364   "Kod": "2281",
365   "LarosateID": 29,
366   "OrtID": 281
367 },
368 {
369   "Benamning": {
370     "sv": "\u00d6rns\u00f6ldsvik",
371     "en": "\u00d6rns\u00f6ldsvik"
372   },
373   "Beskrivning": {},
374   "Dolt": true,
375   "Giltighetsperiod": {
376     "Slutdatum": "1997-12-31",
377     "Startdatum": "1997-01-01"
378   },
379   "ID": "131788",
380   "Kod": "2284",
381   "LarosateID": 29,
382   "OrtID": 284
383 },
384 {
385   "Benamning": {
386     "sv": "Handelsh\u00f6gskolan",
387     "en": "Stockholm School of Economics"
388   },
389   "Beskrivning": {},
390   "Dolt": false,
391   "Giltighetsperiod": {
392     "Startdatum": "2018-06-20"
393   },
394   "ID": "135191",
395   "Kod": "HANDELS",

```

```

396     "LarosateID": 29,
397     "OrtID": 18
398 },
399 {
400     "Benamning": {
401         "sv": "Jokkmokk",
402         "en": "Jokkmokk"
403     },
404     "Beskrivning": {},
405     "Dolt": false,
406     "Giltighetsperiod": {
407         "Startdatum": "2024-01-13"
408     },
409     "ID": "157821",
410     "Kod": "JOKKMOKK",
411     "LarosateID": 29,
412     "OrtID": 315
413 },
414 {
415     "Benamning": {
416         "sv": "Konstfack",
417         "en": "University of Arts, Crafts and Design"
418     },
419     "Beskrivning": {},
420     "Dolt": false,
421     "Giltighetsperiod": {
422         "Startdatum": "2018-08-27"
423     },
424     "ID": "147750",
425     "Kod": "KONSTFACK",
426     "LarosateID": 29,
427     "OrtID": 18
428 },
429 {
430     "Benamning": {
431         "sv": "KTH Campus",
432         "en": "KTH Campus"
433     },
434     "Beskrivning": {
435         "sv": "\"Campus\" Valhallav\u00e4gen"
436     },
437     "Dolt": false,
438     "Giltighetsperiod": {
439         "Startdatum": "2018-06-20"
440     },
441     "ID": "135195",
442     "Kod": "KTHCAMPUS",
443     "LarosateID": 29,
444     "OrtID": 18
445 },
446 {

```

```

447     "Benamning": {
448       "sv": "\u00d6rnsk\u00f6ldsvik",
449       "en": "\u00d6rnsk\u00f6ldsvik"
450     },
451     "Beskrivning": {},
452     "Dolt": false,
453     "Giltighetsperiod": {
454       "Startdatum": "2024-01-13"
455     },
456     "ID": "157828",
457     "Kod": "ORNSKOLDSVI",
458     "LarosateID": 29,
459     "OrtID": 284
460   },
461   {
462     "Benamning": {
463       "sv": "Oskarshamn",
464       "en": "Oskarshamn"
465     },
466     "Beskrivning": {},
467     "Dolt": false,
468     "Giltighetsperiod": {
469       "Startdatum": "2024-01-13"
470     },
471     "ID": "157826",
472     "Kod": "OSKARSHAMN",
473     "LarosateID": 29,
474     "OrtID": 103
475   },
476   {
477     "Benamning": {
478       "sv": "Stockholms universitet",
479       "en": "Stockholm University"
480     },
481     "Beskrivning": {},
482     "Dolt": false,
483     "Giltighetsperiod": {
484       "Startdatum": "2018-06-20"
485     },
486     "ID": "135197",
487     "Kod": "SU",
488     "LarosateID": 29,
489     "OrtID": 18
490   },
491   {
492     "Benamning": {
493       "sv": "S\u00f6dert\u00e4lje",
494       "en": "S\u00f6dert\u00e4lje"
495     },
496     "Beskrivning": {
497       "sv": "L\u00e4rcentrum, Teknisk bas\u00e5r"

```



```

498     },
499     "Dolt": false,
500     "Giltighetsperiod": {
501         "Startdatum": "2025-02-18"
502     },
503     "ID": "161537",
504     "Kod": "TALJE",
505     "LarosateID": 29,
506     "OrtID": 20
507 },
508 {
509     "Benamning": {
510         "sv": "T\u00e4by",
511         "en": "T\u00e4by"
512     },
513     "Beskrivning": {},
514     "Dolt": true,
515     "Giltighetsperiod": {
516         "Slutdatum": "1999-12-31",
517         "Startdatum": "1900-01-01"
518     },
519     "ID": "131774",
520     "Kod": "0160",
521     "LarosateID": 29,
522     "OrtID": 14
523 },
524 {
525     "Benamning": {
526         "sv": "Stockholm",
527         "en": "Stockholm"
528     },
529     "Beskrivning": {},
530     "Dolt": true,
531     "Giltighetsperiod": {
532         "Slutdatum": "2019-01-14",
533         "Startdatum": "1917-10-19"
534     },
535     "ID": "131778",
536     "Kod": "0180",
537     "LarosateID": 29,
538     "OrtID": 18
539 },
540 {
541     "Benamning": {
542         "sv": "KTH Flemingsberg",
543         "en": "KTH Flemingsberg"
544     },
545     "Beskrivning": {
546         "sv": "\"campus\" Flemingsberg"
547     },
548     "Dolt": false,

```

```
549     "Giltighetsperiod": {
550         "Startdatum": "2018-06-20"
551     },
552     "ID": "135198",
553     "Kod": "FLEMINGSB",
554     "LarosateID": 29,
555     "OrtID": 7
556 },
557 {
558     "Benamning": {
559         "sv": "G\u00e4llivare",
560         "en": "G\u00e4llivare"
561     },
562     "Beskrivning": {},
563     "Dolt": false,
564     "Giltighetsperiod": {
565         "Startdatum": "2024-01-13"
566     },
567     "ID": "157820",
568     "Kod": "GALLIVARE",
569     "LarosateID": 29,
570     "OrtID": 320
571 },
572 {
573     "Benamning": {
574         "sv": "Kiruna",
575         "en": "Kiruna"
576     },
577     "Beskrivning": {},
578     "Dolt": false,
579     "Giltighetsperiod": {
580         "Startdatum": "2024-01-13"
581     },
582     "ID": "157822",
583     "Kod": "KIRUNA",
584     "LarosateID": 29,
585     "OrtID": 326
586 },
587 {
588     "Benamning": {
589         "sv": "KTH Kista",
590         "en": "KTH Kista"
591     },
592     "Beskrivning": {
593         "sv": "\"Campus\" Kista"
594     },
595     "Dolt": false,
596     "Giltighetsperiod": {
597         "Startdatum": "2018-06-20"
598     },
599     "ID": "135194",
```

```
600     "Kod": "KISTA",
601     "LarosateID": 29,
602     "OrtID": 18
603 },
604 {
605     "Benamning": {
606         "sv": "Nyk\u00f6ping",
607         "en": "Nyk\u00f6ping"
608     },
609     "Beskrivning": {},
610     "Dolt": false,
611     "Giltighetsperiod": {
612         "Startdatum": "2024-01-13"
613     },
614     "ID": "157827",
615     "Kod": "NYKOPING",
616     "LarosateID": 29,
617     "OrtID": 44
618 },
619 {
620     "Benamning": {
621         "sv": "Nyn\u00e4shamn",
622         "en": "Nyn\u00e4shamn"
623     },
624     "Beskrivning": {
625         "sv": "Fr\u00e4n HT26, L\u00e4rcentrum Tekniskt bas\u00e4r"
626     },
627     "Dolt": false,
628     "Giltighetsperiod": {
629         "Startdatum": "2024-01-13"
630     },
631     "ID": "157818",
632     "Kod": "NYNASHAMN",
633     "LarosateID": 29,
634     "OrtID": 32
635 },
636 {
637     "Benamning": {
638         "sv": "Smedjebacken",
639         "en": "Smedjebacken"
640     },
641     "Beskrivning": {},
642     "Dolt": false,
643     "Giltighetsperiod": {
644         "Startdatum": "2024-01-13"
645     },
646     "ID": "157825",
647     "Kod": "SMEDJEBACK",
648     "LarosateID": 29,
649     "OrtID": 260
650 },
```

```

651     {
652         "Benamning": {
653             "sv": "KTH S\u00f6dert\u00e4lje",
654             "en": "KTH S\u00f6dert\u00e4lje"
655         },
656         "Beskrivning": {
657             "sv": "\"Campus\" S\u00f6dert\u00e4lje"
658         },
659         "Dolt": false,
660         "Giltighetsperiod": {
661             "Startdatum": "2018-06-20"
662         },
663         "ID": "135196",
664         "Kod": "SODERTALJE",
665         "LarosateID": 29,
666         "OrtID": 20
667     }
668 ]
669 }

```

## 20.22 antagningsomgang\_JSON

1197a *<LadokSession data methods 151b>+≡*

```

# added by GQMJr
def antagningsomgang_JSON(self) -> dict:
    """
    Returns the admission round.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/antagningsomgang',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

1197b *<test functions 151a>+≡*

```

def test_antagningsomgang_JSON() -> None:
    r = ladok.antagningsomgang_JSON()
    assert type(r) == dict

```

This code is used in chunk 146.

The output looks like this:

```

1  {
2      "Antagningsomgang": [
3          {
4              "Benamning": {
5                  "sv": "Anm\u00e4lan till kurs inom program p\u00e5 KTH HT2018",
6                  "en": "Anm\u00e4lan till kurs inom program p\u00e5 KTH HT2018"
7              },
8              "Beskrivning": {},

```

```

9      "Dolt": true,
10     "Giltighetsperiod": {},
11     "ID": "135279",
12     "Kod": "29AKPHT18",
13     "LarosateID": 29,
14     "SistaAnmalningsdag": "2018-05-15",
15     "SistaAnnonseringsdag": "2019-05-15",
16     "Studieavgiftsbelagd": true
17   },
18   {
19     "Benamning": {
20       "sv": "Anm\u00e4lan till kurs inom program p\u00e5 KTH HT2019",
21       "en": "Application to courses within programme at KTH HT2019"
22     },
23     "Beskrivning": {},
24     "Dolt": true,
25     "Giltighetsperiod": {},
26     "ID": "148458",
27     "Kod": "29AKPHT19",
28     "LarosateID": 29,
29     "SistaAnmalningsdag": "2019-05-15",
30     "SistaAnnonseringsdag": "2020-05-15",
31     "Studieavgiftsbelagd": true
32   },
33   {
34     "Benamning": {
35       "sv": "Anm\u00e4lan till kurs inom program HT2022",
36       "en": "Application to courses within programme HT2022"
37     },
38     "Beskrivning": {},
39     "Dolt": true,
40     "Giltighetsperiod": {},
41     "ID": "153586",
42     "Kod": "29AKPHT22",
43     "LarosateID": 29,
44     "SistaAnmalningsdag": "2022-05-16",
45     "SistaAnnonseringsdag": "2022-05-16",
46     "Studieavgiftsbelagd": true
47   },
48   {
49     "Benamning": {
50       "sv": "Anm\u00e4lan till kurs inom program HT2023",
51       "en": "Application to courses within programme autumn term 2023"
52     },
53     "Beskrivning": {},
54     "Dolt": true,
55     "Giltighetsperiod": {},
56     "ID": "155258",
57     "Kod": "29AKPHT23",
58     "LarosateID": 29,
59     "SistaAnmalningsdag": "2023-05-15",

```

```

60     "SistaAnnonseringsdag": "2023-05-15",
61     "Studieavgiftsbelagd": true
62 },
63 {
64     "Benamning": {
65         "sv": "Anm\u00e4lan till kurs inom program HT2024",
66         "en": "Application to courses within programme autumn term 2024"
67     },
68     "Beskrivning": {},
69     "Dolt": false,
70     "Giltighetsperiod": {},
71     "ID": "159238",
72     "Kod": "29AKPHT24",
73     "LarosateID": 29,
74     "SistaAnmalningsdag": "2024-05-15",
75     "SistaAnnonseringsdag": "2024-05-15",
76     "Studieavgiftsbelagd": true
77 },
78 {
79     "Benamning": {
80         "sv": "Anm\u00e4lan till kurs inom program HT2025",
81         "en": "Application to courses within programme autumn term 2025"
82     },
83     "Beskrivning": {},
84     "Dolt": false,
85     "Giltighetsperiod": {},
86     "ID": "161940",
87     "Kod": "29AKPHT25",
88     "LarosateID": 29,
89     "SistaAnmalningsdag": "2025-05-15",
90     "SistaAnnonseringsdag": "2025-05-15",
91     "Studieavgiftsbelagd": true
92 },
93 {
94     "Benamning": {
95         "sv": "Anm\u00e4lan till kurs inom program VT2024",
96         "en": "Application to courses within programme spring term 2024"
97     },
98     "Beskrivning": {},
99     "Dolt": false,
100    "Giltighetsperiod": {},
101    "ID": "156506",
102    "Kod": "29AKPVT24",
103    "LarosateID": 29,
104    "SistaAnmalningsdag": "2023-11-15",
105    "SistaAnnonseringsdag": "2024-05-15",
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719     "Kod": "ST2024",
720     "LarosateID": 29,
721     "SistaAnmalningsdag": "2024-03-15",
722     "SistaAnnonseringsdag": "2024-08-19",

```

```
723     "Studieavgiftsbelagd": true
724 },
725 {
726     "Benamning": {
727         "sv": "V\u00e5rterminen 2019",
728         "en": "Spring Semester 2019"
729     },
730     "Beskrivning": {
731         "sv": "Prelimin\u00e4r sista anm\u00e4lningsdag"
732     },
733     "Dolt": true,
734     "Giltighetsperiod": {},
735     "ID": "135893",
736     "Kod": "VT2019",
737     "LarosateID": 29,
738     "SistaAnmalningsdag": "2018-10-15",
739     "SistaAnnonseringsdag": "2019-06-30",
740     "Studieavgiftsbelagd": true
741 },
742 {
743     "Benamning": {
744         "sv": "V\u00e5rterminen 2022",
745         "en": "Spring Semester 2022"
746     },
747     "Beskrivning": {},
748     "Dolt": true,
749     "Giltighetsperiod": {},
750     "ID": "152326",
751     "Kod": "VT2022",
752     "LarosateID": 29,
753     "SistaAnmalningsdag": "2021-10-15",
754     "SistaAnnonseringsdag": "2022-06-10",
755     "Studieavgiftsbelagd": true
756 },
757 {
758     "Benamning": {
759         "sv": "V\u00e5rterminen 2025",
760         "en": "Spring Semester 2025"
761     },
762     "Beskrivning": {},
763     "Dolt": false,
764     "Giltighetsperiod": {},
765     "ID": "160016",
766     "Kod": "VT2025",
767     "LarosateID": 29,
768     "SistaAnmalningsdag": "2024-10-15",
769     "SistaAnnonseringsdag": "2025-06-09",
770     "Studieavgiftsbelagd": true
771 },
772 {
773     "Benamning": {
```

```

774         "sv": "V\u00e5rterminen 2026",
775         "en": "Spring Semester 2026"
776     },
777     "Beskrivning": {},
778     "Dolt": false,
779     "Giltighetsperiod": {},
780     "ID": "161945",
781     "Kod": "VT2026",
782     "LarosateID": 29,
783     "SistaAnmalningsdag": "2025-10-15",
784     "SistaAnnonseringsdag": "2026-06-09",
785     "Studieavgiftsbelagd": true
786 }
787 ]
788 }

```

### 20.23 utbildningstyp\_JSON

1213a *<LadokSession data methods 151b>+≡*

```

# added by GQMJr
def utbildningstyp_JSON(self) -> dict:
    """
    Returns types of education.

    For information about these, see

    https://ladok.se/wp-content/uploads/2018/01/Funktionsbeskrivning_095.pdf
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/utbildningstyp',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

1213b *<test functions 151a>+≡*

```

def test_utbildningstyp_JSON() -> None:
    r = ladok.utbildningstyp_JSON()
    assert type(r) == dict

```

This code is used in chunk 146.

The output looks like this:

```

1 {
2   "Utbildningstyp": [
3     {
4       "AvserTillfalle": false,
5       "Benamning": {
6         "sv": "Modul utan omfattning",
7         "en": "Module without scope"
8       },

```

```
9      "Beskrivning": {},
10      "Dolt": false,
11      "Giltighetsperiod": {},
12      "Grundtyp": "MODUL",
13      "ID": "3",
14      "Kod": "2007MUO",
15      "LarosateID": -1,
16      "Regelverk": {
17        "Regelvarden": [
18          {
19            "Regelnamn": "commons.domain.regel.har.omfattning",
20            "Uid": "d31a4082-e80a-11e8-b1f1-65de97d74aa5",
21            "Varde": "false"
22          },
23          {
24            "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
25            "Uid": "d31a4084-e80a-11e8-b1f1-65de97d74aa5",
26            "Varde": "true"
27          },
28          {
29            "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
30            "Uid": "d31a196f-e80a-11e8-b1f1-65de97d74aa5",
31            "Varde": "grupp.for.utsokning.forskarniva"
32          },
33          {
34            "Regelnamn": "commons.domain.regel.sjalvstandig",
35            "Uid": "d31a4086-e80a-11e8-b1f1-65de97d74aa5",
36            "Varde": "false"
37          },
38          {
39            "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
40            "Uid": "d31a4080-e80a-11e8-b1f1-65de97d74aa5",
41            "Varde": "true"
42          },
43          {
44            "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
45            "Uid": "d31a4085-e80a-11e8-b1f1-65de97d74aa5",
46            "Varde": "true"
47          },
48          {
49            "Regelnamn": "commons.domain.regel.versionshanteras",
50            "Uid": "d31a4083-e80a-11e8-b1f1-65de97d74aa5",
51            "Varde": "false"
52          },
53          {
54            "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
55            "Uid": "d31a4081-e80a-11e8-b1f1-65de97d74aa5",
56            "Varde": "grupp.for.utsokning.grundavanceradniva"
57          }
58        ],
59        "Uid": "0441f5ba-1b3f-11e6-aff0-464044604cb6"
```

```

60     },
61     "Sorteringsordning": 50,
62     "StudieordningID": 1,
63     "TillfalleInomUtbildningstyper": [],
64     "UtbildningstyperInomUtbildningstyp": []
65 },
66 {
67     "AvserTillfalle": false,
68     "Benamning": {
69         "sv": "Modul",
70         "en": "Module"
71     },
72     "Beskrivning": {},
73     "Dolt": false,
74     "Giltighetsperiod": {},
75     "Grundtyp": "MODUL",
76     "ID": "4",
77     "Kod": "2007MOD",
78     "LarosateID": -1,
79     "Regelverk": {
80         "Regelvarden": [
81             {
82                 "Regelnamn": "commons.domain.regel.sjalvstandig",
83                 "Uid": "b18301bf-e80a-11e8-b1f1-65de97d74aa5",
84                 "Varde": "false"
85             },
86             {
87                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
88                 "Uid": "b18301bb-e80a-11e8-b1f1-65de97d74aa5",
89                 "Varde": "true"
90             },
91             {
92                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
93                 "Uid": "b18301c1-e80a-11e8-b1f1-65de97d74aa5",
94                 "Varde": "true"
95             },
96             {
97                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
98                 "Uid": "b18301bc-e80a-11e8-b1f1-65de97d74aa5",
99                 "Varde": "true"
100            },
101            {
102                "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
103                "Uid": "b18301bd-e80a-11e8-b1f1-65de97d74aa5",
104                "Varde": "grupp.for.utsokning.grundavanceradniva"
105            },
106            {
107                "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
108                "Uid": "b18301c0-e80a-11e8-b1f1-65de97d74aa5",
109                "Varde": "grupp.for.utsokning.forskarniva"
110            }
111        ],

```

```

111         {
112             "Regelnamn": "commons.domain.regel.versionshanteras",
113             "Uid": "b18301be-e80a-11e8-b1f1-65de97d74aa5",
114             "Varde": "false"
115         }
116     ],
117     "Uid": "0461b2c4-1b3f-11e6-aff0-464044604cb6"
118 },
119 "Sorteringsordning": 50,
120 "StudieordningID": 1,
121 "TillfalleInomUtbildningstyper": [],
122 "UtbildningstyperInomUtbildningstyp": []
123 },
124 {
125     "AvserTillfalle": false,
126     "Benamning": {
127         "sv": "Kurs, grundniv\u00e5",
128         "en": "Course, First-cycle"
129     },
130     "Beskrivning": {},
131     "Dolt": false,
132     "Giltighetsperiod": {},
133     "Grundtyp": "KURS",
134     "ID": "22",
135     "Kod": "2007GKURS",
136     "LarosateID": -1,
137     "NivaInomStudieordningID": 1,
138     "Regelverk": {
139         "Regelvarden": [
140             {
141                 "Regelnamn": "commons.domain.regel.avbrottsregel",
142                 "Uid": "cd705d60-eef3-11ed-8ea0-65f2d2a34a25",
143                 "Varde": "20"
144             },
145             {
146                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
147                 "Uid": "cd705d5f-eef3-11ed-8ea0-65f2d2a34a25",
148                 "Varde": "true"
149             },
150             {
151                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
152                 "Uid": "cd705d5c-eef3-11ed-8ea0-65f2d2a34a25",
153                 "Varde": "true"
154             },
155             {
156                 "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
157                 "Uid": "cd705d61-eef3-11ed-8ea0-65f2d2a34a25",
158                 "Varde": "true"
159             },
160             {
161                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",

```

```

162         "Uid": "cd705d5d-eef3-11ed-8ea0-65f2d2a34a25",
163         "Varde": "true"
164     },
165     {
166         "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
167         "Uid": "cd705d5e-eef3-11ed-8ea0-65f2d2a34a25",
168         "Varde": "true"
169     },
170     {
171         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
172         "Uid": "cd705d5b-eef3-11ed-8ea0-65f2d2a34a25",
173         "Varde": "grupp.for.utsokning.grundavanceradniva"
174     }
175 ],
176 "Uid": "047c3fad-1b3f-11e6-aff0-464044604cb6"
177 },
178 "Sorteringsordning": 1,
179 "StudieordningID": 1,
180 "TillfalleInomUtbildningstyper": [],
181 "UtbildningstyperInomUtbildningstyp": [
182     3,
183     4
184 ]
185 },
186 {
187     "AvserTillfalle": false,
188     "Benamning": {
189         "sv": "Kurs, avancerad niv\u00e5",
190         "en": "Course, Second-cycle"
191     },
192     "Beskrivning": {},
193     "Dolt": false,
194     "Giltighetsperiod": {},
195     "Grundtyp": "KURS",
196     "ID": "24",
197     "Kod": "2007AKURS",
198     "LarosateID": -1,
199     "NivaInomStudieordningID": 2,
200     "Regelverk": {
201         "Regelvarden": [
202             {
203                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
204                 "Uid": "e15c2840-eef3-11ed-8ea0-65f2d2a34a25",
205                 "Varde": "true"
206             },
207             {
208                 "Regelnamn": "commons.domain.regel.avbrottsregel",
209                 "Uid": "e15c2843-eef3-11ed-8ea0-65f2d2a34a25",
210                 "Varde": "20"
211             }
212         ]
213     }

```



```

213     "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
214     "Uid": "e15c2844-eef3-11ed-8ea0-65f2d2a34a25",
215     "Varde": "true"
216 },
217 {
218     "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
219     "Uid": "e15c2842-eef3-11ed-8ea0-65f2d2a34a25",
220     "Varde": "true"
221 },
222 {
223     "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
224     "Uid": "e15c2841-eef3-11ed-8ea0-65f2d2a34a25",
225     "Varde": "true"
226 },
227 {
228     "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
229     "Uid": "e15c283f-eef3-11ed-8ea0-65f2d2a34a25",
230     "Varde": "true"
231 },
232 {
233     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
234     "Uid": "e15c283e-eef3-11ed-8ea0-65f2d2a34a25",
235     "Varde": "grupp.for.utsokning.grundavanceradniva"
236 }
237 ],
238 "Uid": "0491c386-1b3f-11e6-aff0-464044604cb6"
239 },
240 "Sorteringsordning": 2,
241 "StudieordningID": 1,
242 "TillfalleInomUtbildningstyper": [],
243 "UtbildningstyperInomUtbildningstyp": [
244     3,
245     4
246 ]
247 },
248 {
249     "AvserTillfalle": true,
250     "Benamning": {
251         "sv": "Kurstillf\u00e4lle",
252         "en": "Course instance"
253     },
254     "Beskrivning": {},
255     "Dolt": false,
256     "Giltighetsperiod": {},
257     "Grundtyp": "KURS",
258     "ID": "52",
259     "Kod": "2007KTF",
260     "LarosateID": -1,
261     "Regelverk": {
262         "Regelvarde": [
263             {

```

```

264     "Regelnamn": "commons.domain.regel.kan.utannonseras",
265     "Uid": "6e4cc1b2-b803-11ed-8cb2-324fb1124949",
266     "Varde": "true"
267 },
268 {
269     "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
270     "Uid": "6e4cc1b3-b803-11ed-8cb2-324fb1124949",
271     "Varde": "varning"
272 },
273 {
274     "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
275     "Uid": "6e4cc1b0-b803-11ed-8cb2-324fb1124949",
276     "Varde": "true"
277 },
278 {
279     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
280     "Uid": "6e4c9a9f-b803-11ed-8cb2-324fb1124949",
281     "Varde": "grupp.for.utsokning.grundavanceradniva"
282 },
283 {
284     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
285     "Uid": "6e4cc1b1-b803-11ed-8cb2-324fb1124949",
286     "Varde": "true"
287 }
288 ],
289 "Uid": "04abdb3c-1b3f-11e6-aff0-464044604cb6"
290 },
291 "Sorteringsordning": 1,
292 "StudieordningID": 1,
293 "TillfalleInomUtbildningstyper": [
294     22,
295     24
296 ],
297 "UtbildningstyperInomUtbildningstyp": []
298 },
299 {
300     "AvserTillfalle": false,
301     "Benamning": {
302         "sv": "Program",
303         "en": "Programme"
304     },
305     "Beskrivning": {},
306     "Dolt": false,
307     "Giltighetsperiod": {},
308     "Grundtyp": "KURSPAKETERING",
309     "ID": "78",
310     "Kod": "2007PRG",
311     "LarosateID": -1,
312     "Regelverk": {
313         "Regelvarde": [
314             {

```

```

315         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
316         "Uid": "28074797-5350-11f0-91e2-3ba1697c4b13",
317         "Varde": "true"
318     },
319     {
320         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
321         "Uid": "28074798-5350-11f0-91e2-3ba1697c4b13",
322         "Varde": "grupp.for.utsokning.grundavanceradniva"
323     },
324     {
325         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
326         "Uid": "28072086-5350-11f0-91e2-3ba1697c4b13",
327         "Varde": "true"
328     },
329     {
330         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
331         "Uid": "28074799-5350-11f0-91e2-3ba1697c4b13",
332         "Varde": "true"
333     }
334 ],
335 "Uid": "04b37c62-1b3f-11e6-aff0-464044604cb6"
336 },
337 "Sorteringsordning": 4,
338 "StudieordningID": 1,
339 "TillfalleInomUtbildningstyper": [],
340 "UtbildningstyperInomUtbildningstyp": [
341     101291,
342     22,
343     162240,
344     101270,
345     24,
346     101375
347 ]
348 },
349 {
350     "AvserTillfalle": true,
351     "Benamning": {
352         "sv": "Programtillf\u00e4lle",
353         "en": "Programme instance"
354     },
355     "Beskrivning": {},
356     "Dolt": false,
357     "Giltighetsperiod": {},
358     "Grundtyp": "KURSPAKETERING",
359     "ID": "94",
360     "Kod": "2007PRGTF",
361     "LarosateID": -1,
362     "Regelverk": {
363         "Regelvarden": [
364             {
365                 "Regelnamn": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",

```

```

366         "Uid": "3f1debe6-5350-11f0-91e2-3ba1697c4b13",
367         "Varde": "varning"
368     },
369     {
370         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
371         "Uid": "3f1debe7-5350-11f0-91e2-3ba1697c4b13",
372         "Varde": "true"
373     },
374     {
375         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
376         "Uid": "3f1debe8-5350-11f0-91e2-3ba1697c4b13",
377         "Varde": "true"
378     },
379     {
380         "Regelnamn": "commons.domain.regel.kan.utannonseras",
381         "Uid": "3f1debe9-5350-11f0-91e2-3ba1697c4b13",
382         "Varde": "true"
383     },
384     {
385         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
386         "Uid": "3f1debea-5350-11f0-91e2-3ba1697c4b13",
387         "Varde": "grupp.for.utsokning.grundavanceradniva"
388     }
389 ],
390 "Uid": "04ba5a38-1b3f-11e6-aff0-464044604cb6"
391 },
392 "Sorteringsordning": 50,
393 "StudieordningID": 1,
394 "TillfalleInomUtbildningstyper": [
395     78
396 ],
397 "UtbildningstyperInomUtbildningstyp": [
398     101291,
399     105632,
400     52,
401     22,
402     101382,
403     101378,
404     101381,
405     152635,
406     162242,
407     152633,
408     101375,
409     101290,
410     101374,
411     101292,
412     162240,
413     101270,
414     101377,
415     101961,
416     24,

```

```

417         152634
418     ]
419 },
420 {
421     "AvserTillfalle": true,
422     "Benamning": {
423         "sv": "Programtillf\u00e4lle",
424         "en": "Programme instance"
425     },
426     "Beskrivning": {},
427     "Dolt": false,
428     "Giltighetsperiod": {},
429     "Grundtyp": "KURSPAKETERING",
430     "ID": "101373",
431     "Kod": "1993PRGTF",
432     "LarosateID": -1,
433     "Regelverk": {
434         "Regelvarden": [
435             {
436                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
437                 "Uid": "9872ef7a-c48c-11f0-896c-18af8e4c4a04",
438                 "Varde": "grupp.for.utsokning.grundavanceradniva"
439             },
440             {
441                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
442                 "Uid": "9873168b-c48c-11f0-896c-18af8e4c4a04",
443                 "Varde": "true"
444             }
445         ],
446         "Uid": "2fb0819c-0ae3-11e7-9666-bc4d0f6c4981"
447     },
448     "Sorteringsordning": 50,
449     "StudieordningID": 2,
450     "TillfalleInomUtbildningstyper": [
451         101372
452     ],
453     "UtbildningstyperInomUtbildningstyp": [
454         101965,
455         101374,
456         105632,
457         52,
458         101382,
459         101966,
460         101381,
461         138460,
462         101961
463     ]
464 },
465 {
466     "AvserTillfalle": true,
467     "Benamning": {

```

```

468     "sv": "Kurstillf\u00e4lle, grundutbildning",
469     "en": "Course instance, Undergraduate"
470 },
471 "Beskrivning": {},
472 "Dolt": false,
473 "Giltighetsperiod": {},
474 "Grundtyp": "KURS",
475 "ID": "101374",
476 "Kod": "1993GKTF",
477 "LarosateID": -1,
478 "Regelverk": {
479     "Regelvarden": [
480         {
481             "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
482             "Uid": "acbe75b8-e80a-11e8-b1f1-65de97d74aa5",
483             "Varde": "grupp.for.utsokning.grundavanceradniva"
484         },
485         {
486             "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
487             "Uid": "acbe75b7-e80a-11e8-b1f1-65de97d74aa5",
488             "Varde": "true"
489         }
490     ],
491     "Uid": "ba8d0d32-7a4f-11e6-8419-0812bb95460f"
492 },
493 "Sorteringsordning": 50,
494 "StudieordningID": 2,
495 "TillfalleInomUtbildningstyper": [
496     101370
497 ],
498 "UtbildningstyperInomUtbildningstyp": []
499 },
500 {
501     "AvserTillfalle": false,
502     "Benamning": {
503         "sv": "Utbytesavtal",
504         "en": "Exchange agreement"
505     },
506     "Beskrivning": {},
507     "Dolt": false,
508     "Giltighetsperiod": {},
509     "Grundtyp": "KURSPAKETERING",
510     "ID": "101375",
511     "Kod": "2007UA",
512     "LarosateID": -1,
513     "Regelverk": {
514         "Regelvarden": [
515             {
516                 "Regelnamn": "commons.domain.regel.har.omfattning",
517                 "Uid": "fa69a5ba-6f95-11eb-998b-eb07df7e45d0",
518                 "Varde": "false"

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519         },
520         {
521             "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
522             "Uid": "fa69a5bb-6f95-11eb-998b-eb07df7e45d0",
523             "Varde": "true"
524         }
525     ],
526     "Uid": "25beca02-7a58-11e6-8419-0812bb95460f"
527 },
528 "Sorteringsordning": 7,
529 "StudieordningID": 1,
530 "TillfalleInomUtbildningstyper": [],
531 "UtbildningstyperInomUtbildningstyp": [
532     101291,
533     22,
534     78,
535     151503,
536     24,
537     101954
538 ]
539 },
540 {
541     "AvserTillfalle": true,
542     "Benamning": {
543         "sv": "Utbytestillf\u00e4lle, inresande",
544         "en": "Exchange instance, incoming students"
545     },
546     "Beskrivning": {},
547     "Dolt": false,
548     "Giltighetsperiod": {},
549     "Grundtyp": "KURSPAKETERING",
550     "ID": "101376",
551     "Kod": "2007UTFI",
552     "LarosateID": -1,
553     "Regelverk": {
554         "Regelvarden": [
555             {
556                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
557                 "Uid": "b96fb46b-fb9f-11ec-8340-1c3a6877401a",
558                 "Varde": "true"
559             },
560             {
561                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.inresande",
562                 "Uid": "b972256d-fb9f-11ec-8340-1c3a6877401a",
563                 "Varde": "true"
564             },
565             {
566                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
567                 "Uid": "b972256e-fb9f-11ec-8340-1c3a6877401a",
568                 "Varde": "true"
569             }
570         ]
571     }
572 }

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570     ],
571     "Uid": "d66d0f7a-ed35-11e6-9e0c-466dbe4e475f"
572 },
573 "Sorteringsordning": 50,
574 "StudieordningID": 1,
575 "TillfalleInomUtbildningstyper": [
576     101375
577 ],
578 "UtbildningstyperInomUtbildningstyp": [
579     101291,
580     52,
581     22,
582     101382,
583     101378,
584     94,
585     106390,
586     101381,
587     148962,
588     152635,
589     152633,
590     101380,
591     101954,
592     101292,
593     151504,
594     78,
595     101951,
596     107510,
597     101955,
598     151503,
599     101950,
600     24
601 ]
602 },
603 {
604     "AvserTillfalle": true,
605     "Benamning": {
606         "sv": "Utbytestillf\u00e4lle, utresande",
607         "en": "Exchange instance, outgoing students"
608     },
609     "Beskrivning": {},
610     "Dolt": false,
611     "Giltighetsperiod": {},
612     "Grundtyp": "KURSPAKETERING",
613     "ID": "101377",
614     "Kod": "2007UTFU",
615     "LarosateID": -1,
616     "Regelverk": {
617         "Regelvarden": [
618             {
619                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
620                 "Uid": "cc811891-ee40-11e8-9270-17395ad8480f",

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621         "Varde": "true"
622     },
623     {
624         "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
625         "Uid": "cc81188f-ee40-11e8-9270-17395ad8480f",
626         "Varde": "true"
627     },
628     {
629         "Regelnamn": "commons.domain.regel.ingar.i.grupp.utresande",
630         "Uid": "cc811890-ee40-11e8-9270-17395ad8480f",
631         "Varde": "true"
632     }
633 ],
634 "Uid": "b0f22e0a-7a5c-11e6-8419-0812bb95460f"
635 },
636 "Sorteringsordning": 50,
637 "StudieordningID": 1,
638 "TillfalleInomUtbildningstyper": [
639     101375
640 ],
641 "UtbildningstyperInomUtbildningstyp": [
642     117019,
643     101959,
644     101731
645 ]
646 },
647 {
648     "AvserTillfalle": false,
649     "Benamning": {
650         "sv": "Kurs",
651         "en": "Course"
652     },
653     "Beskrivning": {},
654     "Dolt": false,
655     "Giltighetsperiod": {},
656     "Grundtyp": "KURS",
657     "ID": "101378",
658     "Kod": "FUPKURS",
659     "LarosateID": -1,
660     "Regelverk": {
661         "Regelvarden": [
662             {
663                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
664                 "Uid": "b42333b9-e0de-11ec-bb44-ad608ddd4f32",
665                 "Varde": "true"
666             },
667             {
668                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
669                 "Uid": "b42333b6-e0de-11ec-bb44-ad608ddd4f32",
670                 "Varde": "true"
671             }

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672     {
673       "Regelnamn": "commons.domain.regel.avbrottsregel",
674       "Uid": "b42333b8-e0de-11ec-bb44-ad608ddd4f32",
675       "Varde": "20"
676     },
677     {
678       "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
679       "Uid": "b42333b5-e0de-11ec-bb44-ad608ddd4f32",
680       "Varde": "grupp.for.utsokning.forutbildning"
681     },
682     {
683       "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
684       "Uid": "b42333ba-e0de-11ec-bb44-ad608ddd4f32",
685       "Varde": "true"
686     },
687     {
688       "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
689       "Uid": "b42333b7-e0de-11ec-bb44-ad608ddd4f32",
690       "Varde": "true"
691     }
692   ],
693   "Uid": "e4ca44d7-8622-11e6-89f6-efd50fc84e85"
694 },
695 "Sorteringsordning": 1,
696 "StudieordningID": 3,
697 "TillfalleInomUtbildningstyper": [],
698 "UtbildningstyperInomUtbildningstyp": [
699   101976,
700   101379
701 ]
702 },
703 {
704   "AvserTillfalle": false,
705   "Benamning": {
706     "sv": "Modul",
707     "en": "Module"
708   },
709   "Beskrivning": {},
710   "Dolt": false,
711   "Giltighetsperiod": {},
712   "Grundtyp": "MODUL",
713   "ID": "101379",
714   "Kod": "FUPMOD",
715   "LarosateID": -1,
716   "Regelverk": {
717     "Regelvarden": [
718       {
719         "Regelnamn": "commons.domain.regel.versionshanteras",
720         "Uid": "b5e0dded-e80a-11e8-b1f1-65de97d74aa5",
721         "Varde": "false"
722       }

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723     {
724         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
725         "Uid": "b5e0ddeb-e80a-11e8-b1f1-65de97d74aa5",
726         "Varde": "true"
727     },
728     {
729         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
730         "Uid": "b5e0ddea-e80a-11e8-b1f1-65de97d74aa5",
731         "Varde": "grupp.for.utsokning.forutbildning"
732     },
733     {
734         "Regelnamn": "commons.domain.regel.sjalvstandig",
735         "Uid": "b5e0dde9-e80a-11e8-b1f1-65de97d74aa5",
736         "Varde": "false"
737     },
738     {
739         "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
740         "Uid": "b5e0ddec-e80a-11e8-b1f1-65de97d74aa5",
741         "Varde": "true"
742     }
743 ],
744 "Uid": "46d086da-7a67-11e6-8419-0812bb95460f"
745 },
746 "Sorteringsordning": 50,
747 "StudieordningID": 3,
748 "TillfalleInomUtbildningstyper": [],
749 "UtbildningstyperInomUtbildningstyp": []
750 },
751 {
752     "AvserTillfalle": false,
753     "Benamning": {
754         "sv": "Forskningsarbete",
755         "en": "Research project"
756     },
757     "Beskrivning": {
758         "sv": "Vetenskaplig avhandling (doktorsavhandling), vetenskaplig uppsats (f\u00f6r licentiatexamen)"
759     },
760     "Dolt": false,
761     "Giltighetsperiod": {},
762     "Grundtyp": "KURS",
763     "ID": "101952",
764     "Kod": "2007VF",
765     "LarosateID": -1,
766     "NivaInomStudieordningID": 3,
767     "Regelverk": {
768         "Regelvarden": [
769             {
770                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
771                 "Uid": "d185070f-3337-11f1-ab15-04f548f14dbc",
772                 "Varde": "true"
773             }

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774         {
775             "Regelnamn": "commons.domain.regel.dokumentera_beslut_om_resultat",
776             "Uid": "d185070d-3337-11f1-ab15-04f548f14dbc",
777             "Varde": "true"
778         },
779         {
780             "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
781             "Uid": "d185070e-3337-11f1-ab15-04f548f14dbc",
782             "Varde": "grupp.for.utsokning.forskarniva"
783         }
784     ],
785     "Uid": "98daf2d7-ec60-11e6-8a84-352cf9f6431e"
786 },
787 "Sorteringsordning": 8,
788 "StudieordningID": 1,
789 "TillfalleInomUtbildningstyper": [],
790 "UtbildningstyperInomUtbildningstyp": [
791     3,
792     4
793 ]
794 },
795 {
796     "AvserTillfalle": true,
797     "Benamning": {
798         "sv": "Tillf\u00e4lle f\u00f6r forskningsarbete",
799         "en": "Research project instance"
800     },
801     "Beskrivning": {},
802     "Dolt": false,
803     "Giltighetsperiod": {},
804     "Grundtyp": "KURS",
805     "ID": "101953",
806     "Kod": "2007VFTF",
807     "LarosateID": -1,
808     "Regelverk": {
809         "Regelvarden": [
810             {
811                 "Regelnamn": "commons.domain.regel.individuell",
812                 "Uid": "0249354d-a963-11ea-8eca-41686c5c4a35",
813                 "Varde": "true"
814             },
815             {
816                 "Regelnamn": "commons.domain.regel.studieperiod.kan.laggas.till",
817                 "Uid": "0249354f-a963-11ea-8eca-41686c5c4a35",
818                 "Varde": "true"
819             },
820             {
821                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
822                 "Uid": "02490e3c-a963-11ea-8eca-41686c5c4a35",
823                 "Varde": "grupp.for.utsokning.forskarniva"
824             }

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825         {
826             "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
827             "Uid": "0249354e-a963-11ea-8eca-41686c5c4a35",
828             "Varde": "true"
829         }
830     ],
831     "Uid": "fb862c6d-a752-11e6-bc5d-3b8bbccc4a18"
832 },
833 "Sorteringsordning": 50,
834 "StudieordningID": 1,
835 "TillfalleInomUtbildningstyper": [
836     101952,
837     110915
838 ],
839 "UtbildningstyperInomUtbildningstyp": []
840 },
841 {
842     "AvserTillfalle": false,
843     "Benamning": {
844         "sv": "Kurs, forskarniv\u00e5",
845         "en": "Course, Third-cycle"
846     },
847     "Beskrivning": {},
848     "Dolt": false,
849     "Giltighetsperiod": {},
850     "Grundtyp": "KURS",
851     "ID": "101954",
852     "Kod": "2007FKURS",
853     "LarosateID": -1,
854     "NivaInomStudieordningID": 3,
855     "Regelverk": {
856         "Regelvarden": [
857             {
858                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
859                 "Uid": "d3910ebc-87fc-11ec-a845-a8ad71444c99",
860                 "Varde": "true"
861             },
862             {
863                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
864                 "Uid": "d3910ebd-87fc-11ec-a845-a8ad71444c99",
865                 "Varde": "true"
866             },
867             {
868                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
869                 "Uid": "d3910ebe-87fc-11ec-a845-a8ad71444c99",
870                 "Varde": "true"
871             },
872             {
873                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
874                 "Uid": "d390e7ab-87fc-11ec-a845-a8ad71444c99",
875                 "Varde": "grupp.for.utsokning.forskarniva"

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876     }
877   ],
878   "Uid": "0a468d21-ec60-11e6-8a84-352cf9f6431e"
879 },
880 "Sorteringsordning": 3,
881 "StudieordningID": 1,
882 "TillfalleInomUtbildningstyper": [],
883 "UtbildningstyperInomUtbildningstyp": [
884   3,
885   4
886 ]
887 },
888 {
889   "AvserTillfalle": true,
890   "Benamning": {
891     "sv": "Kurstillf\u00e4lle, forskarniv\u00e5",
892     "en": "Course instance, Third-cycle"
893   },
894   "Beskrivning": {},
895   "Dolt": false,
896   "Giltighetsperiod": {},
897   "Grundtyp": "KURS",
898   "ID": "101955",
899   "Kod": "2007FKTF",
900   "LarosateID": -1,
901   "Regelverk": {
902     "Regelvarden": [
903       {
904         "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
905         "Uid": "a6abbd1e-e80a-11e8-b1f1-65de97d74aa5",
906         "Varde": "true"
907       },
908       {
909         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
910         "Uid": "a6abbd1d-e80a-11e8-b1f1-65de97d74aa5",
911         "Varde": "grupp.for.utsokning.forskarniva"
912       }
913     ],
914     "Uid": "c845e104-f0bc-11e7-b9b4-407caefe466f"
915   },
916   "Sorteringsordning": 50,
917   "StudieordningID": 1,
918   "TillfalleInomUtbildningstyper": [
919     101954
920   ],
921   "UtbildningstyperInomUtbildningstyp": []
922 },
923 {
924   "AvserTillfalle": false,
925   "Benamning": {
926     "sv": "\u00c4mne, forskarniv\u00e5",

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927     "en": "Subject, Third-cycle"
928 },
929 "Beskrivning": {},
930 "Dolt": false,
931 "Giltighetsperiod": {},
932 "Grundtyp": "KURSPAKETERING",
933 "ID": "101956",
934 "Kod": "2007FA",
935 "LarosateID": -1,
936 "NivaInomStudieordningID": 3,
937 "Regelverk": {
938     "Regelvarden": [
939         {
940             "Regelnamn": "commons.domain.regel.forvald.omfattning",
941             "Uid": "5431339d-ecf4-11ee-831e-9a115c0740fa",
942             "Varde": "240"
943         },
944         {
945             "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
946             "Uid": "5431339e-ecf4-11ee-831e-9a115c0740fa",
947             "Varde": "grupp.for.utsokning.forskarniva"
948         },
949         {
950             "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
951             "Uid": "5431339f-ecf4-11ee-831e-9a115c0740fa",
952             "Varde": "true"
953         },
954         {
955             "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
956             "Uid": "543133a0-ecf4-11ee-831e-9a115c0740fa",
957             "Varde": "true"
958         }
959     ],
960     "Uid": "4dccc624-ec60-11e6-8a84-352cf9f6431e"
961 },
962 "Sorteringsordning": 6,
963 "StudieordningID": 1,
964 "TillfalleInomUtbildningstyper": [],
965 "UtbildningstyperInomUtbildningstyp": [
966     101952,
967     151503,
968     101375,
969     101954
970 ]
971 },
972 {
973     "AvserTillfalle": true,
974     "Benamning": {
975         "sv": "\u00c4mnestillf\u00e4lle, forskarniv\u00e5",
976         "en": "Subject instance, Third-cycle"
977     },

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978     "Beskrivning": {},
979     "Dolt": false,
980     "Giltighetsperiod": {},
981     "Grundtyp": "KURSPAKETERING",
982     "ID": "101957",
983     "Kod": "2007FATF",
984     "LarosateID": -1,
985     "Regelverk": {
986         "Regelvarden": [
987             {
988                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
989                 "Uid": "50893ff9-4b7d-11ec-944c-5226fb2c461c",
990                 "Varde": "grupp.for.utsokning.forskarniva"
991             },
992             {
993                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
994                 "Uid": "5089b52a-4b7d-11ec-944c-5226fb2c461c",
995                 "Varde": "true"
996             }
997         ],
998         "Uid": "347544fd-2bf2-11e7-8421-d64931f94928"
999     },
1000     "Sorteringsordning": 50,
1001     "StudieordningID": 1,
1002     "TillfalleInomUtbildningstyper": [
1003         101956
1004     ],
1005     "UtbildningstyperInomUtbildningstyp": [
1006         101953,
1007         101967,
1008         101952,
1009         152632,
1010         138461,
1011         101375,
1012         110915,
1013         101954,
1014         101968,
1015         151504,
1016         101951,
1017         107510,
1018         101377,
1019         101955,
1020         151503,
1021         152631
1022     ]
1023 },
1024 {
1025     "AvserTillfalle": false,
1026     "Benamning": {
1027         "sv": "Individuellt utbytes\u00e5tagande, forskarniv\u00e5, utresande",
1028         "en": "Individual exchange load, outgoing third-cycle student"

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1029 },
1030 "Beskrivning": {},
1031 "Dolt": false,
1032 "Giltighetsperiod": {},
1033 "Grundtyp": "KURS",
1034 "ID": "101958",
1035 "Kod": "2007FUAT",
1036 "LarosateID": -1,
1037 "NivaInomStudieordningID": 3,
1038 "Regelverk": {
1039   "Regelvarden": [
1040     {
1041       "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
1042       "Uid": "d54fe9dd-ee3d-11e8-9270-17395ad8480f",
1043       "Varde": "true"
1044     },
1045     {
1046       "Regelnamn": "commons.domain.regel.resultat",
1047       "Uid": "d54fe9de-ee3d-11e8-9270-17395ad8480f",
1048       "Varde": "false"
1049     },
1050     {
1051       "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1052       "Uid": "d54fe9dc-ee3d-11e8-9270-17395ad8480f",
1053       "Varde": "grupp.for.utsokning.forskarniva"
1054     },
1055     {
1056       "Regelnamn": "commons.domain.regel.individuell",
1057       "Uid": "d54fe9e0-ee3d-11e8-9270-17395ad8480f",
1058       "Varde": "true"
1059     },
1060     {
1061       "Regelnamn": "commons.domain.regel.versionshanteras",
1062       "Uid": "d54fe9df-ee3d-11e8-9270-17395ad8480f",
1063       "Varde": "false"
1064     }
1065   ],
1066   "Uid": "06449ba8-a75f-11e6-bc5d-3b8bbccc4a18"
1067 },
1068 "Sorteringsordning": 12,
1069 "StudieordningID": 1,
1070 "TillfalleInomUtbildningstyper": [],
1071 "UtbildningstyperInomUtbildningstyp": []
1072 },
1073 {
1074   "AvserTillfalle": true,
1075   "Benamning": {
1076     "sv": "Individuellt tillf\u00e4lle f\u00f6r utbytes\u00e5tagande, forskarniv\u00e5, utresande",
1077     "en": "Individual exchange load instance, outgoing third-cycle student"
1078   },
1079   "Beskrivning": {},

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1080     "Dolt": false,
1081     "Giltighetsperiod": {},
1082     "Grundtyp": "KURS",
1083     "ID": "101959",
1084     "Kod": "2007FUATF",
1085     "LarosateID": -1,
1086     "Regelverk": {
1087         "Regelvarden": [
1088             {
1089                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
1090                 "Uid": "01438d23-ee3d-11e8-9270-17395ad8480f",
1091                 "Varde": "true"
1092             },
1093             {
1094                 "Regelnamn": "commons.domain.regel.individuell",
1095                 "Uid": "01438d24-ee3d-11e8-9270-17395ad8480f",
1096                 "Varde": "true"
1097             },
1098             {
1099                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1100                 "Uid": "01436612-ee3d-11e8-9270-17395ad8480f",
1101                 "Varde": "grupp.for.utsokning.forskarniva"
1102             }
1103         ],
1104         "Uid": "8cbdf65d-a75f-11e6-bc5d-3b8bbccc4a18"
1105     },
1106     "Sorteringsordning": 50,
1107     "StudieordningID": 1,
1108     "TillfalleInomUtbildningstyper": [
1109         101958
1110     ],
1111     "UtbildningstyperInomUtbildningstyp": []
1112 },
1113 {
1114     "AvserTillfalle": false,
1115     "Benamning": {
1116         "sv": "Inriktning",
1117         "en": "Specialisation"
1118     },
1119     "Beskrivning": {},
1120     "Dolt": false,
1121     "Giltighetsperiod": {},
1122     "Grundtyp": "KURSPAKETERING",
1123     "ID": "101960",
1124     "Kod": "1993INR",
1125     "LarosateID": -1,
1126     "NivaInomStudieordningID": 4,
1127     "Regelverk": {
1128         "Regelvarden": [
1129             {
1130                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",

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1131         "Uid": "08f0416a-e80a-11e8-b1f1-65de97d74aa5",
1132         "Varde": "true"
1133     },
1134     {
1135         "Regelnamn": "commons.domain.regel.sjalvstandig",
1136         "Uid": "08f04168-e80a-11e8-b1f1-65de97d74aa5",
1137         "Varde": "false"
1138     },
1139     {
1140         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1141         "Uid": "08f04169-e80a-11e8-b1f1-65de97d74aa5",
1142         "Varde": "grupp.for.utsokning.grundavanceradniva"
1143     }
1144 ],
1145 "UId": "cd189d0f-a760-11e6-bc5d-3b8bbccc4a18"
1146 },
1147 "Sorteringsordning": 50,
1148 "StudieordningID": 2,
1149 "TillfalleInomUtbildningstyper": [],
1150 "UtbildningstyperInomUtbildningstyp": []
1151 },
1152 {
1153     "AvserTillfalle": true,
1154     "Benamning": {
1155         "sv": "Inriktningstillf\u00e4lle",
1156         "en": "Specialisation instance"
1157     },
1158     "Beskrivning": {},
1159     "Dolt": false,
1160     "Giltighetsperiod": {},
1161     "Grundtyp": "KURSPAKETERING",
1162     "ID": "101961",
1163     "Kod": "1993INRTF",
1164     "LarosateID": -1,
1165     "Regelverk": {
1166         "Regelvarden": [
1167             {
1168                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1169                 "Uid": "9754e7f8-76db-11e9-8e63-5fd9b2d24100",
1170                 "Varde": "grupp.for.utsokning.grundavanceradniva"
1171             },
1172             {
1173                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1174                 "Uid": "97553619-76db-11e9-8e63-5fd9b2d24100",
1175                 "Varde": "true"
1176             }
1177         ],
1178         "UId": "d10fc79e-1872-11e7-88f4-cc771bf242c7"
1179     },
1180     "Sorteringsordning": 50,
1181     "StudieordningID": 2,

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1182     "TillfalleInomUtbildningstyper": [
1183         101960
1184     ],
1185     "UtbildningstyperInomUtbildningstyp": [
1186         101965,
1187         101374,
1188         105632,
1189         52,
1190         101382,
1191         101381,
1192         101377,
1193         101964,
1194         138460,
1195         101375
1196     ]
1197 },
1198 {
1199     "AvserTillfalle": false,
1200     "Benamning": {
1201         "sv": "Individuell kurs, inresande",
1202         "en": "Individual course, incoming student"
1203     },
1204     "Beskrivning": {},
1205     "Dolt": false,
1206     "Giltighetsperiod": {},
1207     "Grundtyp": "KURS",
1208     "ID": "101962",
1209     "Kod": "1993IKURS",
1210     "LarosateID": -1,
1211     "NivaInomStudieordningID": 4,
1212     "Regelverk": {
1213         "Regelvarden": [
1214             {
1215                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
1216                 "Uid": "eaad8518-e809-11e8-b1f1-65de97d74aa5",
1217                 "Varde": "true"
1218             },
1219             {
1220                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
1221                 "Uid": "eaad851a-e809-11e8-b1f1-65de97d74aa5",
1222                 "Varde": "true"
1223             },
1224             {
1225                 "Regelnamn": "commons.domain.regel.versionshanteras",
1226                 "Uid": "eaad851c-e809-11e8-b1f1-65de97d74aa5",
1227                 "Varde": "false"
1228             },
1229             {
1230                 "Regelnamn": "commons.domain.regel.avbrottsregel",
1231                 "Uid": "eaad8519-e809-11e8-b1f1-65de97d74aa5",
1232                 "Varde": "20"

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1233     },
1234     {
1235         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1236         "Uid": "eaad851b-e809-11e8-b1f1-65de97d74aa5",
1237         "Varde": "grupp.for.utsokning.grundavanceradniva"
1238     },
1239     {
1240         "Regelnamn": "commons.domain.regel.individuell",
1241         "Uid": "eaad851d-e809-11e8-b1f1-65de97d74aa5",
1242         "Varde": "true"
1243     }
1244 ],
1245 "Uid": "3265a917-a764-11e6-bc5d-3b8bbccc4a18"
1246 },
1247 "Sorteringsordning": 10,
1248 "StudieordningID": 2,
1249 "TillfalleInomUtbildningstyper": [],
1250 "UtbildningstyperInomUtbildningstyp": []
1251 },
1252 {
1253     "AvserTillfalle": true,
1254     "Benamning": {
1255         "sv": "Individuellt kurstillf\u00e4lle, inresande",
1256         "en": "Individual course instance, incoming student"
1257     },
1258     "Beskrivning": {},
1259     "Dolt": false,
1260     "Giltighetsperiod": {},
1261     "Grundtyp": "KURS",
1262     "ID": "101963",
1263     "Kod": "1993IKTF",
1264     "LarosateID": -1,
1265     "Regelverk": {
1266         "Regelvarden": [
1267             {
1268                 "Regelnamn": "commons.domain.regel.individuell",
1269                 "Uid": "f8314c8f-e809-11e8-b1f1-65de97d74aa5",
1270                 "Varde": "true"
1271             },
1272             {
1273                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1274                 "Uid": "f8314c90-e809-11e8-b1f1-65de97d74aa5",
1275                 "Varde": "grupp.for.utsokning.grundavanceradniva"
1276             },
1277             {
1278                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
1279                 "Uid": "f8314c8d-e809-11e8-b1f1-65de97d74aa5",
1280                 "Varde": "true"
1281             },
1282             {
1283                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",

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1284         "Uid": "f8314c8e-e809-11e8-b1f1-65de97d74aa5",
1285         "Varde": "true"
1286     }
1287 ],
1288     "Uid": "56f3440b-a764-11e6-bc5d-3b8bbccc4a18"
1289 },
1290 "Sorteringsordning": 50,
1291 "StudieordningID": 2,
1292 "TillfalleInomUtbildningstyper": [
1293     101962
1294 ],
1295 "UtbildningstyperInomUtbildningstyp": []
1296 },
1297 {
1298     "AvserTillfalle": false,
1299     "Benamning": {
1300         "sv": "Utbytesavtal",
1301         "en": "Exchange agreement"
1302     },
1303     "Beskrivning": {},
1304     "Dolt": false,
1305     "Giltighetsperiod": {},
1306     "Grundtyp": "KURSPAKETERING",
1307     "ID": "101964",
1308     "Kod": "1993UA",
1309     "LarosateID": -1,
1310     "NivaInomStudieordningID": 4,
1311     "Regelverk": {
1312         "Regelvarden": [
1313             {
1314                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
1315                 "Uid": "451eca51-e80b-11e8-b1f1-65de97d74aa5",
1316                 "Varde": "true"
1317             },
1318             {
1319                 "Regelnamn": "commons.domain.regel.har.omfattning",
1320                 "Uid": "451eca50-e80b-11e8-b1f1-65de97d74aa5",
1321                 "Varde": "false"
1322             }
1323         ],
1324         "Uid": "8ab22e02-a764-11e6-bc5d-3b8bbccc4a18"
1325     },
1326     "Sorteringsordning": 7,
1327     "StudieordningID": 2,
1328     "TillfalleInomUtbildningstyper": [],
1329     "UtbildningstyperInomUtbildningstyp": []
1330 },
1331 {
1332     "AvserTillfalle": true,
1333     "Benamning": {
1334         "sv": "Utbytestillf\u00e4lle, utresande",

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1335     "en": "Exchange instance, outgoing students"
1336 },
1337 "Beskrivning": {},
1338 "Dolt": false,
1339 "Giltighetsperiod": {},
1340 "Grundtyp": "KURSPAKETERING",
1341 "ID": "101965",
1342 "Kod": "1993UTFU",
1343 "LarosateID": -1,
1344 "Regelverk": {
1345     "Regelvarden": [
1346         {
1347             "Regelnamn": "commons.domain.regel.ingar.i.grupp.utresande",
1348             "Uid": "7e4e2ac5-bbd7-11f0-b3d6-e5914bbf41cf",
1349             "Varde": "true"
1350         },
1351         {
1352             "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
1353             "Uid": "7e4e51d7-bbd7-11f0-b3d6-e5914bbf41cf",
1354             "Varde": "true"
1355         },
1356         {
1357             "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
1358             "Uid": "7e4e51d6-bbd7-11f0-b3d6-e5914bbf41cf",
1359             "Varde": "true"
1360         }
1361     ],
1362     "Uid": "e644795f-2bed-11e7-8421-d64931f94928"
1363 },
1364 "Sorteringsordning": 50,
1365 "StudieordningID": 2,
1366 "TillfalleInomUtbildningstyper": [
1367     101964
1368 ],
1369 "UtbildningstyperInomUtbildningstyp": [
1370     103211,
1371     163852
1372 ]
1373 },
1374 {
1375     "AvserTillfalle": true,
1376     "Benamning": {
1377         "sv": "Utbytestillf\u00e4lle, inresande",
1378         "en": "Exchange instance, incoming students"
1379     },
1380     "Beskrivning": {},
1381     "Dolt": false,
1382     "Giltighetsperiod": {},
1383     "Grundtyp": "KURSPAKETERING",
1384     "ID": "101966",
1385     "Kod": "1993UTFI",

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1386     "LarosateID": -1,
1387     "Regelverk": {
1388         "Regelvarden": [
1389             {
1390                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
1391                 "Uid": "ceea0adb-17b5-11f1-8e84-bc7cdac0401f",
1392                 "Varde": "true"
1393             },
1394             {
1395                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
1396                 "Uid": "ceea0adc-17b5-11f1-8e84-bc7cdac0401f",
1397                 "Varde": "true"
1398             },
1399             {
1400                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.inresande",
1401                 "Uid": "cee9bcba-17b5-11f1-8e84-bc7cdac0401f",
1402                 "Varde": "true"
1403             }
1404         ],
1405         "Uid": "f14c33ac-a764-11e6-bc5d-3b8bbccc4a18"
1406     },
1407     "Sorteringsordning": 50,
1408     "StudieordningID": 2,
1409     "TillfalleInomUtbildningstyper": [
1410         101964
1411     ],
1412     "UtbildningstyperInomUtbildningstyp": [
1413         101374,
1414         52,
1415         101963
1416     ]
1417 },
1418 {
1419     "AvserTillfalle": false,
1420     "Benamning": {
1421         "sv": "Kurs, forskarutbildning",
1422         "en": "Course, doctoral studies"
1423     },
1424     "Beskrivning": {},
1425     "Dolt": false,
1426     "Giltighetsperiod": {},
1427     "Grundtyp": "KURS",
1428     "ID": "101967",
1429     "Kod": "1993FKURS",
1430     "LarosateID": -1,
1431     "NivaInomStudieordningID": 5,
1432     "Regelverk": {
1433         "Regelvarden": [
1434             {
1435                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1436                 "Uid": "58c9b122-e80a-11e8-b1f1-65de97d74aa5",

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1437         "Varde": "grupp.for.utsokning.forskarniva"
1438     },
1439     {
1440         "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
1441         "Uid": "58c9b121-e80a-11e8-b1f1-65de97d74aa5",
1442         "Varde": "true"
1443     }
1444 ],
1445 "Uid": "0f0f38cb-ec60-11e6-8a84-352cf9f6431e"
1446 },
1447 "Sorteringsordning": 3,
1448 "StudieordningID": 2,
1449 "TillfalleInomUtbildningstyper": [],
1450 "UtbildningstyperInomUtbildningstyp": []
1451 },
1452 {
1453     "AvserTillfalle": true,
1454     "Benamning": {
1455         "sv": "Kurstillf\u00e4lle, forskarutbildning",
1456         "en": "Course instance, doctoral studies"
1457     },
1458     "Beskrivning": {},
1459     "Dolt": false,
1460     "Giltighetsperiod": {},
1461     "Grundtyp": "KURS",
1462     "ID": "101968",
1463     "Kod": "1993FKTF",
1464     "LarosateID": -1,
1465     "Regelverk": {
1466         "Regelvarden": [
1467             {
1468                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1469                 "Uid": "aacb305e-e80a-11e8-b1f1-65de97d74aa5",
1470                 "Varde": "grupp.for.utsokning.forskarniva"
1471             },
1472             {
1473                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
1474                 "Uid": "aacb305d-e80a-11e8-b1f1-65de97d74aa5",
1475                 "Varde": "true"
1476             }
1477         ],
1478         "Uid": "0bcbe850-f0bc-11e7-b9b4-407caefe466f"
1479     },
1480     "Sorteringsordning": 50,
1481     "StudieordningID": 2,
1482     "TillfalleInomUtbildningstyper": [
1483         101967
1484     ],
1485     "UtbildningstyperInomUtbildningstyp": []
1486 },
1487 {

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1488     "AvserTillfalle": false,
1489     "Benamning": {
1490       "sv": "\u00c4mne, forskarutbildning",
1491       "en": "Subject, doctoral studies"
1492     },
1493     "Beskrivning": {},
1494     "Dolt": false,
1495     "Giltighetsperiod": {},
1496     "Grundtyp": "KURSPAKETERING",
1497     "ID": "101969",
1498     "Kod": "1993FA",
1499     "LarosateID": -1,
1500     "NivaInomStudieordningID": 5,
1501     "Regelverk": {
1502       "Regelvarden": [
1503         {
1504           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1505           "Uid": "24c93336-e80b-11e8-b1f1-65de97d74aa5",
1506           "Varde": "grupp.for.utsokning.forskarniva"
1507         },
1508         {
1509           "Regelnamn": "commons.domain.regel.forvald.omfattning",
1510           "Uid": "24c93335-e80b-11e8-b1f1-65de97d74aa5",
1511           "Varde": "240"
1512         },
1513         {
1514           "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
1515           "Uid": "24c93337-e80b-11e8-b1f1-65de97d74aa5",
1516           "Varde": "true"
1517         }
1518       ],
1519       "Uid": "558eb4e2-ec60-11e6-8a84-352cf9f6431e"
1520     },
1521     "Sorteringsordning": 6,
1522     "StudieordningID": 2,
1523     "TillfalleInomUtbildningstyper": [],
1524     "UtbildningstyperInomUtbildningstyp": []
1525   },
1526   {
1527     "AvserTillfalle": true,
1528     "Benamning": {
1529       "sv": "\u00c4mnestillf\u00e4lle, forskarutbildning",
1530       "en": "Subject instance, doctoral studies"
1531     },
1532     "Beskrivning": {},
1533     "Dolt": false,
1534     "Giltighetsperiod": {},
1535     "Grundtyp": "KURSPAKETERING",
1536     "ID": "101970",
1537     "Kod": "1993FATF",
1538     "LarosateID": -1,

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1539     "Regelverk": {
1540         "Regelvarden": [
1541             {
1542                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
1543                 "Uid": "1fa82eec-e80b-11e8-b1f1-65de97d74aa5",
1544                 "Varde": "true"
1545             },
1546             {
1547                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1548                 "Uid": "1fa82eed-e80b-11e8-b1f1-65de97d74aa5",
1549                 "Varde": "grupp.for.utsokning.forskarniva"
1550             }
1551         ],
1552         "Uid": "1a0ee0cb-f0bc-11e7-b9b4-407caefe466f"
1553     },
1554     "Sorteringsordning": 50,
1555     "StudieordningID": 2,
1556     "TillfalleInomUtbildningstyper": [
1557         101969
1558     ],
1559     "UtbildningstyperInomUtbildningstyp": [
1560         101953,
1561         101968,
1562         101951,
1563         107510,
1564         101377,
1565         101955
1566     ]
1567 },
1568 {
1569     "AvserTillfalle": false,
1570     "Benamning": {
1571         "sv": "Program",
1572         "en": "Programme"
1573     },
1574     "Beskrivning": {},
1575     "Dolt": false,
1576     "Giltighetsperiod": {},
1577     "Grundtyp": "KURSPAKETERING",
1578     "ID": "101971",
1579     "Kod": "FUPPRG",
1580     "LarosateID": -1,
1581     "Regelverk": {
1582         "Regelvarden": [
1583             {
1584                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
1585                 "Uid": "103685d2-e0df-11ec-bb44-ad608ddd4f32",
1586                 "Varde": "true"
1587             },
1588             {
1589                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",

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1590         "Uid": "103685d3-e0df-11ec-bb44-ad608ddd4f32",
1591         "Varde": "true"
1592     },
1593     {
1594         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1595         "Uid": "103685d1-e0df-11ec-bb44-ad608ddd4f32",
1596         "Varde": "grupp.for.utsokning.forutbildning"
1597     },
1598     {
1599         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
1600         "Uid": "103685d4-e0df-11ec-bb44-ad608ddd4f32",
1601         "Varde": "true"
1602     }
1603 ],
1604 "Uid": "d1417ad9-a76a-11e6-bc5d-3b8bbccc4a18"
1605 },
1606 "Sorteringsordning": 4,
1607 "StudieordningID": 3,
1608 "TillfalleInomUtbildningstyper": [],
1609 "UtbildningstyperInomUtbildningstyp": [
1610     101973,
1611     22,
1612     101378
1613 ]
1614 },
1615 {
1616     "AvserTillfalle": true,
1617     "Benamning": {
1618         "sv": "Programtillf\u00e4lle",
1619         "en": "Programme instance"
1620     },
1621     "Beskrivning": {},
1622     "Dolt": false,
1623     "Giltighetsperiod": {},
1624     "Grundtyp": "KURSPAKETERING",
1625     "ID": "101972",
1626     "Kod": "FUPPRGTF",
1627     "LarosateID": -1,
1628     "Regelverk": {
1629         "Regelvarden": [
1630             {
1631                 "Regelnamn": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",
1632                 "Uid": "a24cdb11-e4b3-11f0-b251-01189c9f465b",
1633                 "Varde": "varning"
1634             },
1635             {
1636                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1637                 "Uid": "a24cdb10-e4b3-11f0-b251-01189c9f465b",
1638                 "Varde": "true"
1639             }
1640         ]
1641     }

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1641         "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
1642         "Uid": "a24cdb13-e4b3-11f0-b251-01189c9f465b",
1643         "Varde": "true"
1644     },
1645     {
1646         "Regelnamn": "commons.domain.regel.kan.utannonseras",
1647         "Uid": "a24cdb12-e4b3-11f0-b251-01189c9f465b",
1648         "Varde": "true"
1649     },
1650     {
1651         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1652         "Uid": "a24cdb14-e4b3-11f0-b251-01189c9f465b",
1653         "Varde": "grupp.for.utsokning.forutbildning"
1654     }
1655 ],
1656 "Uid": "e67221cf-a76a-11e6-bc5d-3b8bbccc4a18"
1657 },
1658 "Sorteringsordning": 50,
1659 "StudieordningID": 3,
1660 "TillfalleInomUtbildningstyper": [
1661     101971
1662 ],
1663 "UtbildningstyperInomUtbildningstyp": [
1664     101973,
1665     52,
1666     22,
1667     101382,
1668     101378,
1669     148155,
1670     164114,
1671     101974,
1672     164115
1673 ]
1674 },
1675 {
1676     "AvserTillfalle": false,
1677     "Benamning": {
1678         "sv": "Kurs, avancerad niv\u00e5",
1679         "en": "Course, Second-cycle"
1680     },
1681     "Beskrivning": {},
1682     "Dolt": false,
1683     "Giltighetsperiod": {},
1684     "Grundtyp": "KURS",
1685     "ID": "101993",
1686     "Kod": "UPHPAKURS",
1687     "LarosateID": -1,
1688     "NivaInomStudieordningID": 2,
1689     "Regelverk": {
1690         "Regelvarden": [
1691             {

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1692     "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
1693     "Uid": "009fd934-e0de-11ec-bb44-ad608ddd4f32",
1694     "Varde": "true"
1695 },
1696 {
1697     "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
1698     "Uid": "009fd937-e0de-11ec-bb44-ad608ddd4f32",
1699     "Varde": "true"
1700 },
1701 {
1702     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1703     "Uid": "009fd933-e0de-11ec-bb44-ad608ddd4f32",
1704     "Varde": "grupp.for.utsokning.uppdraagsutbildning"
1705 },
1706 {
1707     "Regelnamn": "commons.domain.regel.avbrottsregel",
1708     "Uid": "009fd936-e0de-11ec-bb44-ad608ddd4f32",
1709     "Varde": "20"
1710 },
1711 {
1712     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1713     "Uid": "009fd935-e0de-11ec-bb44-ad608ddd4f32",
1714     "Varde": "true"
1715 },
1716 {
1717     "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
1718     "Uid": "009fd938-e0de-11ec-bb44-ad608ddd4f32",
1719     "Varde": "true"
1720 }
1721 ],
1722     "Uid": "310b3370-a801-11e6-b02f-d0cc883a47fa"
1723 },
1724 "Sorteringsordning": 2,
1725 "StudieordningID": 17,
1726 "TillfalleInomUtbildningstyper": [],
1727 "UtbildningstyperInomUtbildningstyp": [
1728     101990,
1729     101991
1730 ]
1731 },
1732 {
1733     "AvserTillfalle": true,
1734     "Benamning": {
1735         "sv": "Kurstillf\u00e4lle",
1736         "en": "Course instance"
1737     },
1738     "Beskrivning": {},
1739     "Dolt": false,
1740     "Giltighetsperiod": {},
1741     "Grundtyp": "KURS",
1742     "ID": "101994",

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1743     "Kod": "UPHPKTF",
1744     "LarosateID": -1,
1745     "Regelverk": {
1746         "Regelvarden": [
1747             {
1748                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdragutbildning",
1749                 "Uid": "95b787c5-e80a-11e8-b1f1-65de97d74aa5",
1750                 "Varde": "true"
1751             },
1752             {
1753                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1754                 "Uid": "95b787c4-e80a-11e8-b1f1-65de97d74aa5",
1755                 "Varde": "grupp.for.utsokning.uppdragutbildning"
1756             },
1757             {
1758                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1759                 "Uid": "95b787c2-e80a-11e8-b1f1-65de97d74aa5",
1760                 "Varde": "true"
1761             },
1762             {
1763                 "Regelnamn": "commons.domain.regel.kan.utannonseras",
1764                 "Uid": "95b787c3-e80a-11e8-b1f1-65de97d74aa5",
1765                 "Varde": "true"
1766             }
1767         ],
1768         "Uid": "005f8b63-4c22-11e7-8c70-788c557b416a"
1769     },
1770     "Sorteringsordning": 50,
1771     "StudieordningID": 17,
1772     "TillfalleInomUtbildningstyper": [
1773         101993,
1774         101992
1775     ],
1776     "UtbildningstyperInomUtbildningstyp": [],
1777 },
1778 {
1779     "AvserTillfalle": false,
1780     "Benamning": {
1781         "sv": "Inriktning",
1782         "en": "Specialisation"
1783     },
1784     "Beskrivning": {},
1785     "Dolt": false,
1786     "Giltighetsperiod": {},
1787     "Grundtyp": "KURSPAKETERING",
1788     "ID": "101995",
1789     "Kod": "UPHPINR",
1790     "LarosateID": -1,
1791     "Regelverk": {
1792         "Regelvarden": [
1793             {

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1794         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1795         "Uid": "165fbc7f-e80a-11e8-b1f1-65de97d74aa5",
1796         "Varde": "true"
1797     },
1798     {
1799         "Regelnamn": "commons.domain.regel.sjalvstandig",
1800         "Uid": "165fbc80-e80a-11e8-b1f1-65de97d74aa5",
1801         "Varde": "false"
1802     },
1803     {
1804         "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
1805         "Uid": "165fbc81-e80a-11e8-b1f1-65de97d74aa5",
1806         "Varde": "true"
1807     },
1808     {
1809         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1810         "Uid": "165fbc7e-e80a-11e8-b1f1-65de97d74aa5",
1811         "Varde": "grupp.for.utsokning.uppdraagsutbildning"
1812     }
1813 ],
1814 "Uid": "11b7914a-a803-11e6-b02f-d0cc883a47fa"
1815 },
1816 "Sorteringsordning": 50,
1817 "StudieordningID": 17,
1818 "TillfalleInomUtbildningstyper": [],
1819 "UtbildningstyperInomUtbildningstyp": [
1820     101993,
1821     101992
1822 ]
1823 },
1824 {
1825     "AvserTillfalle": true,
1826     "Benamning": {
1827         "sv": "Inriktningstillf\u00e4lle",
1828         "en": "Specialisation instance"
1829     },
1830     "Beskrivning": {},
1831     "Dolt": false,
1832     "Giltighetsperiod": {},
1833     "Grundtyp": "KURSPAKETERING",
1834     "ID": "101996",
1835     "Kod": "UPHPINRTF",
1836     "LarosateID": -1,
1837     "Regelverk": {
1838         "Regelvarden": [
1839             {
1840                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
1841                 "Uid": "27d2e6df-e80a-11e8-b1f1-65de97d74aa5",
1842                 "Varde": "true"
1843             },
1844             {

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1845     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1846     "Uid": "27d2e6de-e80a-11e8-b1f1-65de97d74aa5",
1847     "Varde": "grupp.for.utsokning.uppdagsutbildning"
1848   },
1849   {
1850     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1851     "Uid": "27d2e6e0-e80a-11e8-b1f1-65de97d74aa5",
1852     "Varde": "true"
1853   }
1854 ],
1855 "Uid": "4de604d8-8d66-11e7-ab6f-ced203c74a20"
1856 },
1857 "Sorteringsordning": 50,
1858 "StudieordningID": 17,
1859 "TillfalleInomUtbildningstyper": [
1860   101995
1861 ],
1862 "UtbildningstyperInomUtbildningstyp": [
1863   101993,
1864   101992,
1865   101994
1866 ],
1867 },
1868 {
1869   "AvserTillfalle": false,
1870   "Benamning": {
1871     "sv": "Program",
1872     "en": "Programme"
1873   },
1874   "Beskrivning": {},
1875   "Dolt": false,
1876   "Giltighetsperiod": {},
1877   "Grundtyp": "KURSPAKETERING",
1878   "ID": "101998",
1879   "Kod": "UPHPPRG",
1880   "LarosateID": -1,
1881   "Regelverk": {
1882     "Regelvarden": [
1883       {
1884         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
1885         "Uid": "5ed3e850-e0de-11ec-bb44-ad608ddd4f32",
1886         "Varde": "true"
1887       },
1888       {
1889         "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdagsutbildning",
1890         "Uid": "5ed3e84e-e0de-11ec-bb44-ad608ddd4f32",
1891         "Varde": "true"
1892       },
1893       {
1894         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1895         "Uid": "5ed3e84d-e0de-11ec-bb44-ad608ddd4f32",

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1896         "Varde": "grupp.for.utsokning.uppdagsutbildning"
1897     },
1898     {
1899         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1900         "Uid": "5ed3e84f-e0de-11ec-bb44-ad608ddd4f32",
1901         "Varde": "true"
1902     }
1903 ],
1904 "Uid": "bc5d54af-ec5f-11e6-8a84-352cf9f6431e"
1905 },
1906 "Sorteringsordning": 4,
1907 "StudieordningID": 17,
1908 "TillfalleInomUtbildningstyper": [],
1909 "UtbildningstyperInomUtbildningstyp": [
1910     101993,
1911     101992,
1912     101995
1913 ]
1914 },
1915 {
1916     "AvserTillfalle": true,
1917     "Benamning": {
1918         "sv": "Programtillf\u00e4lle",
1919         "en": "Programme instance"
1920     },
1921     "Beskrivning": {},
1922     "Dolt": false,
1923     "Giltighetsperiod": {},
1924     "Grundtyp": "KURSPAKETERING",
1925     "ID": "101999",
1926     "Kod": "UPHPPRGTF",
1927     "LarosateID": -1,
1928     "Regelverk": {
1929         "Regelvarden": [
1930             {
1931                 "Regelnamn": "commons.domain.regel.kan.utannonseras",
1932                 "Uid": "6fb1651e-b804-11ed-8cb2-324fb1124949",
1933                 "Varde": "true"
1934             },
1935             {
1936                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
1937                 "Uid": "6fb1651b-b804-11ed-8cb2-324fb1124949",
1938                 "Varde": "grupp.for.utsokning.uppdagsutbildning"
1939             },
1940             {
1941                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
1942                 "Uid": "6fb1651d-b804-11ed-8cb2-324fb1124949",
1943                 "Varde": "true"
1944             },
1945             {
1946                 "Regelnamn": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",

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1947         "UId": "6fb1651f-b804-11ed-8cb2-324fb1124949",
1948         "Varde": "varning"
1949     },
1950     {
1951         "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdragsutbildning",
1952         "UId": "6fb1651c-b804-11ed-8cb2-324fb1124949",
1953         "Varde": "true"
1954     }
1955 ],
1956 "UId": "005dddab-4c22-11e7-8c70-788c557b416a"
1957 },
1958 "Sorteringsordning": 50,
1959 "StudieordningID": 17,
1960 "TillfalleInomUtbildningstyper": [
1961     101998
1962 ],
1963 "UtbildningstyperInomUtbildningstyp": [
1964     101993,
1965     101996,
1966     101992,
1967     101995,
1968     101994
1969 ]
1970 },
1971 {
1972     "AvserTillfalle": false,
1973     "Benamning": {
1974         "sv": "Kurs",
1975         "en": "Course"
1976     },
1977     "Beskrivning": {},
1978     "Dolt": false,
1979     "Giltighetsperiod": {},
1980     "Grundtyp": "KURS",
1981     "ID": "102000",
1982     "Kod": "UPTKURS",
1983     "LarosateID": -1,
1984     "Regelverk": {
1985         "Regelvarden": [],
1986         "UId": "60bf6ffe-a81f-11e6-b02f-d0cc883a47fa"
1987     },
1988     "Sorteringsordning": 1,
1989     "StudieordningID": 9,
1990     "TillfalleInomUtbildningstyper": [],
1991     "UtbildningstyperInomUtbildningstyp": [
1992         102001
1993     ]
1994 },
1995 {
1996     "AvserTillfalle": true,
1997     "Benamning": {

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1998         "sv": "Kurstillf\u00e4lle",
1999         "en": "Course instance"
2000     },
2001     "Beskrivning": {},
2002     "Dolt": false,
2003     "Giltighetsperiod": {},
2004     "Grundtyp": "KURS",
2005     "ID": "102008",
2006     "Kod": "UPVKTF",
2007     "LarosateID": -1,
2008     "Regelverk": {
2009         "Regelvarden": [
2010             {
2011                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2012                 "UId": "9ec00009-e80a-11e8-b1f1-65de97d74aa5",
2013                 "Varde": "grupp.for.utsokning.uppdraagsutbildning"
2014             },
2015             {
2016                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2017                 "UId": "9ec00008-e80a-11e8-b1f1-65de97d74aa5",
2018                 "Varde": "true"
2019             },
2020             {
2021                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
2022                 "UId": "9ec00007-e80a-11e8-b1f1-65de97d74aa5",
2023                 "Varde": "true"
2024             }
2025         ],
2026         "UId": "6f0b0b5c-af18-11e7-8754-a9e730464be6"
2027     },
2028     "Sorteringsordning": 50,
2029     "StudieordningID": 18,
2030     "TillfalleInomUtbildningstyper": [
2031         102006
2032     ],
2033     "UtbildningstyperInomUtbildningstyp": []
2034 },
2035 {
2036     "AvserTillfalle": false,
2037     "Benamning": {
2038         "sv": "Kurs",
2039         "en": "Course"
2040     },
2041     "Beskrivning": {},
2042     "Dolt": false,
2043     "Giltighetsperiod": {},
2044     "Grundtyp": "KURS",
2045     "ID": "102009",
2046     "Kod": "FUVKURS",
2047     "LarosateID": -1,
2048     "Regelverk": {

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2049     "Regelvarden": [
2050       {
2051         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
2052         "Uid": "9e8c030e-e0de-11ec-bb44-ad608ddd4f32",
2053         "Varde": "true"
2054       },
2055       {
2056         "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
2057         "Uid": "9e8c030b-e0de-11ec-bb44-ad608ddd4f32",
2058         "Varde": "true"
2059       },
2060       {
2061         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2062         "Uid": "9e8c030c-e0de-11ec-bb44-ad608ddd4f32",
2063         "Varde": "true"
2064       },
2065       {
2066         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2067         "Uid": "9e8c030a-e0de-11ec-bb44-ad608ddd4f32",
2068         "Varde": "grupp.for.utsokning.forutbildning"
2069       },
2070       {
2071         "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
2072         "Uid": "9e8c030f-e0de-11ec-bb44-ad608ddd4f32",
2073         "Varde": "true"
2074       },
2075       {
2076         "Regelnamn": "commons.domain.regel.avbrottsregel",
2077         "Uid": "9e8c030d-e0de-11ec-bb44-ad608ddd4f32",
2078         "Varde": "20"
2079       }
2080     ],
2081     "Uid": "488fcae8-ec5f-11e6-8a84-352cf9f6431e"
2082   },
2083   "Sorteringsordning": 1,
2084   "StudieordningID": 4,
2085   "TillfalleInomUtbildningstyper": [],
2086   "UtbildningstyperInomUtbildningstyp": [
2087     102010
2088   ]
2089 },
2090 {
2091   "AvserTillfalle": false,
2092   "Benamning": {
2093     "sv": "Modul",
2094     "en": "Module"
2095   },
2096   "Beskrivning": {},
2097   "Dolt": false,
2098   "Giltighetsperiod": {},
2099   "Grundtyp": "MODUL",

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2100     "ID": "102010",
2101     "Kod": "FUVMOD",
2102     "LarosateID": -1,
2103     "Regelverk": {
2104         "Regelvarden": [
2105             {
2106                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2107                 "Uid": "bb63d927-e80a-11e8-b1f1-65de97d74aa5",
2108                 "Varde": "grupp.for.utsokning.forutbildning"
2109             },
2110             {
2111                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
2112                 "Uid": "bb63d925-e80a-11e8-b1f1-65de97d74aa5",
2113                 "Varde": "true"
2114             },
2115             {
2116                 "Regelnamn": "commons.domain.regel.versionshanteras",
2117                 "Uid": "bb63d924-e80a-11e8-b1f1-65de97d74aa5",
2118                 "Varde": "false"
2119             },
2120             {
2121                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2122                 "Uid": "bb63d926-e80a-11e8-b1f1-65de97d74aa5",
2123                 "Varde": "true"
2124             },
2125             {
2126                 "Regelnamn": "commons.domain.regel.sjalvstandig",
2127                 "Uid": "bb63d928-e80a-11e8-b1f1-65de97d74aa5",
2128                 "Varde": "false"
2129             }
2130         ],
2131         "Uid": "0215985a-a823-11e6-b02f-d0cc883a47fa"
2132     },
2133     "Sorteringsordning": 50,
2134     "StudieordningID": 4,
2135     "TillfalleInomUtbildningstyper": [],
2136     "UtbildningstyperInomUtbildningstyp": []
2137 },
2138 {
2139     "AvserTillfalle": true,
2140     "Benamning": {
2141         "sv": "Kurstillf\u00e4lle",
2142         "en": "Course instance"
2143     },
2144     "Beskrivning": {},
2145     "Dolt": false,
2146     "Giltighetsperiod": {},
2147     "Grundtyp": "KURS",
2148     "ID": "102011",
2149     "Kod": "FUVKTF",
2150     "LarosateID": -1,

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2151     "Regelverk": {
2152       "Regelvarden": [
2153         {
2154           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2155           "Uid": "77201ba9-e80a-11e8-b1f1-65de97d74aa5",
2156           "Varde": "grupp.for.utsokning.forutbildning"
2157         },
2158         {
2159           "Regelnamn": "commons.domain.regel.kan.utannonseras",
2160           "Uid": "77201bab-e80a-11e8-b1f1-65de97d74aa5",
2161           "Varde": "true"
2162         },
2163         {
2164           "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
2165           "Uid": "77201ba8-e80a-11e8-b1f1-65de97d74aa5",
2166           "Varde": "true"
2167         },
2168         {
2169           "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
2170           "Uid": "77201baa-e80a-11e8-b1f1-65de97d74aa5",
2171           "Varde": "true"
2172         }
2173       ],
2174       "Uid": "005ec80f-4c22-11e7-8c70-788c557b416a"
2175     },
2176     "Sorteringsordning": 50,
2177     "StudieordningID": 4,
2178     "TillfalleInomUtbildningstyper": [
2179       102009
2180     ],
2181     "UtbildningstyperInomUtbildningstyp": []
2182   },
2183   {
2184     "AvserTillfalle": false,
2185     "Benamning": {
2186       "sv": "Kurs",
2187       "en": "Course"
2188     },
2189     "Beskrivning": {},
2190     "Dolt": false,
2191     "Giltighetsperiod": {},
2192     "Grundtyp": "KURS",
2193     "ID": "102012",
2194     "Kod": "KYKURS",
2195     "LarosateID": -1,
2196     "Regelverk": {
2197       "Regelvarden": [],
2198       "Uid": "8986f48b-ec5f-11e6-8a84-352cf9f6431e"
2199     },
2200     "Sorteringsordning": 1,
2201     "StudieordningID": 13,

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2202     "TillfalleInomUtbildningstyper": [],
2203     "UtbildningstyperInomUtbildningstyp": [
2204         102013
2205     ]
2206 },
2207 {
2208     "AvserTillfalle": false,
2209     "Benamning": {
2210         "sv": "Modul",
2211         "en": "Module"
2212     },
2213     "Beskrivning": {},
2214     "Dolt": false,
2215     "Giltighetsperiod": {},
2216     "Grundtyp": "MODUL",
2217     "ID": "102013",
2218     "Kod": "KYMODO",
2219     "LarosateID": -1,
2220     "Regelverk": {
2221         "Regelvarden": [
2222             {
2223                 "Regelnamn": "commons.domain.regel.versionshanteras",
2224                 "Uid": "be23205e-e80a-11e8-b1f1-65de97d74aa5",
2225                 "Varde": "false"
2226             },
2227             {
2228                 "Regelnamn": "commons.domain.regel.sjalvstandig",
2229                 "Uid": "be23205d-e80a-11e8-b1f1-65de97d74aa5",
2230                 "Varde": "false"
2231             }
2232         ],
2233         "Uid": "95ec339a-a825-11e6-b02f-d0cc883a47fa"
2234     },
2235     "Sorteringsordning": 50,
2236     "StudieordningID": 13,
2237     "TillfalleInomUtbildningstyper": [],
2238     "UtbildningstyperInomUtbildningstyp": []
2239 },
2240 {
2241     "AvserTillfalle": true,
2242     "Benamning": {
2243         "sv": "Kurstillf\u00e4lle",
2244         "en": "Course instance"
2245     },
2246     "Beskrivning": {},
2247     "Dolt": false,
2248     "Giltighetsperiod": {},
2249     "Grundtyp": "KURS",
2250     "ID": "102014",
2251     "Kod": "KYKTF",
2252     "LarosateID": -1,

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2253     "Regelverk": {
2254         "Regelvarden": [],
2255         "UId": "7c3eafcf-e80a-11e8-b1f1-65de97d74aa5"
2256     },
2257     "Sorteringsordning": 50,
2258     "StudieordningID": 13,
2259     "TillfalleInomUtbildningstyper": [
2260         102012
2261     ],
2262     "UtbildningstyperInomUtbildningstyp": []
2263 },
2264 {
2265     "AvserTillfalle": false,
2266     "Benamning": {
2267         "sv": "Program",
2268         "en": "Programme"
2269     },
2270     "Beskrivning": {},
2271     "Dolt": false,
2272     "Giltighetsperiod": {},
2273     "Grundtyp": "KURSPAKETERING",
2274     "ID": "109970",
2275     "Kod": "POLISPRG",
2276     "LarosateID": -1,
2277     "Regelverk": {
2278         "Regelvarden": [
2279             {
2280                 "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
2281                 "UId": "6755a377-e80b-11e8-b1f1-65de97d74aa5",
2282                 "Varde": "true"
2283             },
2284             {
2285                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2286                 "UId": "6755a376-e80b-11e8-b1f1-65de97d74aa5",
2287                 "Varde": "grupp.for.utsokning.polisutbildning"
2288             }
2289         ],
2290         "UId": "d204dab3-99f5-11e7-953e-c08a46b0419e"
2291     },
2292     "Sorteringsordning": 2,
2293     "StudieordningID": 109831,
2294     "TillfalleInomUtbildningstyper": [],
2295     "UtbildningstyperInomUtbildningstyp": [
2296         138692,
2297         109972,
2298         138693
2299     ]
2300 },
2301 {
2302     "AvserTillfalle": false,
2303     "Benamning": {

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2304     "sv": "Modul",
2305     "en": "Module"
2306 },
2307 "Beskrivning": {},
2308 "Dolt": false,
2309 "Giltighetsperiod": {},
2310 "Grundtyp": "MODUL",
2311 "ID": "109971",
2312 "Kod": "POLISMOD",
2313 "LarosateID": -1,
2314 "Regelverk": {
2315     "Regelvarden": [
2316         {
2317             "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2318             "UId": "c07770b6-e80a-11e8-b1f1-65de97d74aa5",
2319             "Varde": "grupp.for.utsokning.polisutbildning"
2320         },
2321         {
2322             "Regelnamn": "commons.domain.regel.sjalvstandig",
2323             "UId": "c07770b4-e80a-11e8-b1f1-65de97d74aa5",
2324             "Varde": "false"
2325         },
2326         {
2327             "Regelnamn": "commons.domain.regel.versionshanteras",
2328             "UId": "c07770b5-e80a-11e8-b1f1-65de97d74aa5",
2329             "Varde": "false"
2330         },
2331         {
2332             "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
2333             "UId": "c07770b7-e80a-11e8-b1f1-65de97d74aa5",
2334             "Varde": "true"
2335         }
2336     ],
2337     "UId": "ff6cb13c-99f5-11e7-953e-c08a46b0419e"
2338 },
2339 "Sorteringsordning": 50,
2340 "StudieordningID": 109831,
2341 "TillfalleInomUtbildningstyper": [],
2342 "UtbildningstyperInomUtbildningstyp": []
2343 },
2344 {
2345     "AvserTillfalle": false,
2346     "Benamning": {
2347         "sv": "Kurs",
2348         "en": "Course"
2349     },
2350     "Beskrivning": {},
2351     "Dolt": false,
2352     "Giltighetsperiod": {},
2353     "Grundtyp": "KURS",
2354     "ID": "109972",

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2355     "Kod": "POLISKURS",
2356     "LarosateID": -1,
2357     "Regelverk": {
2358         "Regelvarden": [
2359             {
2360                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2361                 "Uid": "3d07104d-e80a-11e8-b1f1-65de97d74aa5",
2362                 "Varde": "grupp.for.utsokning.polisutbildning"
2363             },
2364             {
2365                 "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
2366                 "Uid": "3d07104e-e80a-11e8-b1f1-65de97d74aa5",
2367                 "Varde": "true"
2368             }
2369         ],
2370         "Uid": "239a527a-99f6-11e7-953e-c08a46b0419e"
2371     },
2372     "Sorteringsordning": 1,
2373     "StudieordningID": 109831,
2374     "TillfalleInomUtbildningstyper": [],
2375     "UtbildningstyperInomUtbildningstyp": [
2376         109971
2377     ]
2378 },
2379 {
2380     "AvserTillfalle": true,
2381     "Benamning": {
2382         "sv": "Kurstillf\u00e4lle",
2383         "en": "Course instance"
2384     },
2385     "Beskrivning": {},
2386     "Dolt": false,
2387     "Giltighetsperiod": {},
2388     "Grundtyp": "KURS",
2389     "ID": "109973",
2390     "Kod": "POLISKTF",
2391     "LarosateID": -1,
2392     "Regelverk": {
2393         "Regelvarden": [
2394             {
2395                 "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
2396                 "Uid": "7fd914b8-e80a-11e8-b1f1-65de97d74aa5",
2397                 "Varde": "true"
2398             },
2399             {
2400                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2401                 "Uid": "7fd914b9-e80a-11e8-b1f1-65de97d74aa5",
2402                 "Varde": "grupp.for.utsokning.polisutbildning"
2403             }
2404         ],
2405         "Uid": "4eb5ef4d-99f6-11e7-953e-c08a46b0419e"

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2406     },
2407     "Sorteringsordning": 50,
2408     "StudieordningID": 109831,
2409     "TillfalleInomUtbildningstyper": [
2410         109972
2411     ],
2412     "UtbildningstyperInomUtbildningstyp": []
2413 },
2414 {
2415     "AvserTillfalle": true,
2416     "Benamning": {
2417         "sv": "Programtillf\u00e4lle",
2418         "en": "Programme instance"
2419     },
2420     "Beskrivning": {},
2421     "Dolt": false,
2422     "Giltighetsperiod": {},
2423     "Grundtyp": "KURSPAKETERING",
2424     "ID": "109974",
2425     "Kod": "POLISPRGTF",
2426     "LarosateID": -1,
2427     "Regelverk": {
2428         "Regelvarden": [
2429             {
2430                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2431                 "Uid": "5266e7a1-e80b-11e8-b1f1-65de97d74aa5",
2432                 "Varde": "grupp.for.utsokning.polisutbildning"
2433             },
2434             {
2435                 "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
2436                 "Uid": "5266e7a2-e80b-11e8-b1f1-65de97d74aa5",
2437                 "Varde": "true"
2438             }
2439         ],
2440         "Uid": "9d3c5242-99f6-11e7-953e-c08a46b0419e"
2441     },
2442     "Sorteringsordning": 50,
2443     "StudieordningID": 109831,
2444     "TillfalleInomUtbildningstyper": [
2445         109970
2446     ],
2447     "UtbildningstyperInomUtbildningstyp": [
2448         138696,
2449         138692,
2450         109972,
2451         138693,
2452         109973
2453     ]
2454 },
2455 {
2456     "AvserTillfalle": false,

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2457     "Benamning": {
2458       "sv": "YH-utbildning",
2459       "en": "HVE programme"
2460     },
2461     "Beskrivning": {},
2462     "Dolt": false,
2463     "Giltighetsperiod": {},
2464     "Grundtyp": "KURSPAKETERING",
2465     "ID": "109977",
2466     "Kod": "YHUTB",
2467     "LarosateID": -1,
2468     "Regelverk": {
2469       "Regelvarden": [
2470         {
2471           "Regelnamn": "commons.domain.regel.informationsbehorighet.yh.utbildning",
2472           "Uid": "c275b3cc-c654-11ee-babe-c910fc24407b",
2473           "Varde": "true"
2474         },
2475         {
2476           "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
2477           "Uid": "c275b3cd-c654-11ee-babe-c910fc24407b",
2478           "Varde": "true"
2479         },
2480         {
2481           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2482           "Uid": "c2758cbb-c654-11ee-babe-c910fc24407b",
2483           "Varde": "grupp.for.utsokning.yhutbildning"
2484         }
2485       ],
2486       "Uid": "bf8f10c4-99f9-11e7-953e-c08a46b0419e"
2487     },
2488     "Sorteringsordning": 2,
2489     "StudieordningID": 5,
2490     "TillfalleInomUtbildningstyper": [],
2491     "UtbildningstyperInomUtbildningstyp": [
2492       109978
2493     ]
2494   },
2495   {
2496     "AvserTillfalle": false,
2497     "Benamning": {
2498       "sv": "Kurs",
2499       "en": "Course"
2500     },
2501     "Beskrivning": {},
2502     "Dolt": false,
2503     "Giltighetsperiod": {},
2504     "Grundtyp": "KURS",
2505     "ID": "109978",
2506     "Kod": "YHKURS",
2507     "LarosateID": -1,

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2508     "Regelverk": {
2509         "Regelvarden": [
2510             {
2511                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2512                 "Uid": "dcc8703f-c654-11ee-babe-c910fc24407b",
2513                 "Varde": "grupp.for.utsokning.yhutbildning"
2514             },
2515             {
2516                 "Regelnamn": "commons.domain.regel.informationsbehorighet.yh.utbildning",
2517                 "Uid": "dcc87040-c654-11ee-babe-c910fc24407b",
2518                 "Varde": "true"
2519             },
2520             {
2521                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
2522                 "Uid": "dcc87041-c654-11ee-babe-c910fc24407b",
2523                 "Varde": "true"
2524             }
2525         ],
2526         "Uid": "e29ee521-99f9-11e7-953e-c08a46b0419e"
2527     },
2528     "Sorteringsordning": 1,
2529     "StudieordningID": 5,
2530     "TillfalleInomUtbildningstyper": [],
2531     "UtbildningstyperInomUtbildningstyp": [
2532         101975
2533     ]
2534 },
2535 {
2536     "AvserTillfalle": true,
2537     "Benamning": {
2538         "sv": "Kurstillf\u00e4lle",
2539         "en": "Course instance"
2540     },
2541     "Beskrivning": {},
2542     "Dolt": false,
2543     "Giltighetsperiod": {},
2544     "Grundtyp": "KURS",
2545     "ID": "121176",
2546     "Kod": "FHSKTF",
2547     "LarosateID": -1,
2548     "Regelverk": {
2549         "Regelvarden": [],
2550         "Uid": "4f1ca850-dcec-11e7-9840-bee5623b4e1b"
2551     },
2552     "Sorteringsordning": 50,
2553     "StudieordningID": 16,
2554     "TillfalleInomUtbildningstyper": [
2555         121175
2556     ],
2557     "UtbildningstyperInomUtbildningstyp": []
2558 },

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2559     {
2560         "AvserTillfalle": false,
2561         "Benamning": {
2562             "sv": "Modul",
2563             "en": "Module"
2564         },
2565         "Beskrivning": {},
2566         "Dolt": false,
2567         "Giltighetsperiod": {},
2568         "Grundtyp": "MODUL",
2569         "ID": "121177",
2570         "Kod": "FHSMOD",
2571         "LarosateID": -1,
2572         "Regelverk": {
2573             "Regelvarden": [
2574                 {
2575                     "Regelnamn": "commons.domain.regel.sjalvstandig",
2576                     "Uid": "b3b37665-e80a-11e8-b1f1-65de97d74aa5",
2577                     "Varde": "false"
2578                 },
2579                 {
2580                     "Regelnamn": "commons.domain.regel.versionshanteras",
2581                     "Uid": "b3b37666-e80a-11e8-b1f1-65de97d74aa5",
2582                     "Varde": "false"
2583                 }
2584             ],
2585             "Uid": "8b1f5b11-dcec-11e7-9840-bee5623b4e1b"
2586         },
2587         "Sorteringsordning": 50,
2588         "StudieordningID": 16,
2589         "TillfalleInomUtbildningstyper": [],
2590         "UtbildningstyperInomUtbildningstyp": []
2591     },
2592     {
2593         "AvserTillfalle": false,
2594         "Benamning": {
2595             "sv": "Modul",
2596             "en": "Module"
2597         },
2598         "Beskrivning": {},
2599         "Dolt": false,
2600         "Giltighetsperiod": {},
2601         "Grundtyp": "MODUL",
2602         "ID": "121257",
2603         "Kod": "FUTMOD",
2604         "LarosateID": -1,
2605         "Regelverk": {
2606             "Regelvarden": [
2607                 {
2608                     "Regelnamn": "commons.domain.regel.versionshanteras",
2609                     "Uid": "b816f7ab-e80a-11e8-b1f1-65de97d74aa5",

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2610         "Varde": "false"
2611     },
2612     {
2613         "Regelnamn": "commons.domain.regel.sjalvstandig",
2614         "UId": "b816f7ac-e80a-11e8-b1f1-65de97d74aa5",
2615         "Varde": "false"
2616     }
2617 ],
2618 "UId": "b8cdc67a-dffe-11e7-9f28-4af5bbf04807"
2619 },
2620 "Sorteringsordning": 50,
2621 "StudieordningID": 12,
2622 "TillfalleInomUtbildningstyper": [],
2623 "UtbildningstyperInomUtbildningstyp": []
2624 },
2625 {
2626     "AvserTillfalle": false,
2627     "Benamning": {
2628         "sv": "Kurs",
2629         "en": "Course"
2630     },
2631     "Beskrivning": {},
2632     "Dolt": false,
2633     "Giltighetsperiod": {},
2634     "Grundtyp": "KURS",
2635     "ID": "121258",
2636     "Kod": "FUTKURS",
2637     "LarosateID": -1,
2638     "Regelverk": {
2639         "Regelvarden": [],
2640         "UId": "1e4879a5-dfff-11e7-9f28-4af5bbf04807"
2641     },
2642     "Sorteringsordning": 1,
2643     "StudieordningID": 12,
2644     "TillfalleInomUtbildningstyper": [],
2645     "UtbildningstyperInomUtbildningstyp": [
2646         121257
2647     ]
2648 },
2649 {
2650     "AvserTillfalle": true,
2651     "Benamning": {
2652         "sv": "Kurstillf\u00e4lle",
2653         "en": "Course instance"
2654     },
2655     "Beskrivning": {},
2656     "Dolt": false,
2657     "Giltighetsperiod": {},
2658     "Grundtyp": "KURS",
2659     "ID": "121259",
2660     "Kod": "FUTKTF",

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2661     "LarosateID": -1,
2662     "Regelverk": {
2663         "Regelvarden": [],
2664         "Uid": "6e7a90b4-dfff-11e7-9f28-4af5bbf04807"
2665     },
2666     "Sorteringsordning": 50,
2667     "StudieordningID": 12,
2668     "TillfalleInomUtbildningstyper": [
2669         121258
2670     ],
2671     "UtbildningstyperInomUtbildningstyp": []
2672 },
2673 {
2674     "AvserTillfalle": false,
2675     "Benamning": {
2676         "sv": "Kurs, forskarniv\u00e5 (inkl. attribut fr\u00e5n grundniv\u00e5 och avancerad niv\u00e5)",
2677         "en": "Course, Third-cycle (including first-cycle and second-cycle attributes)"
2678     },
2679     "Beskrivning": {
2680         "sv": "Anv\u00e4nds endast f\u00f6r konverterad information."
2681     },
2682     "Dolt": false,
2683     "Giltighetsperiod": {},
2684     "Grundtyp": "KURS",
2685     "ID": "121910",
2686     "Kod": "20073KURS",
2687     "LarosateID": -1,
2688     "NivaInomStudieordningID": 3,
2689     "Regelverk": {
2690         "Regelvarden": [
2691             {
2692                 "Regelnamn": "commons.domain.regel.avbrottsregel",
2693                 "Uid": "0e38c1d6-e97b-11e8-9df7-dac5c1184137",
2694                 "Varde": "20"
2695             },
2696             {
2697                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2698                 "Uid": "0e38c1d7-e97b-11e8-9df7-dac5c1184137",
2699                 "Varde": "grupp.for.utsokning.forskarniva"
2700             }
2701         ],
2702         "Uid": "c1929213-0352-11e8-8ac5-d02de0e647cc"
2703     },
2704     "Sorteringsordning": 50,
2705     "StudieordningID": 1,
2706     "TillfalleInomUtbildningstyper": [],
2707     "UtbildningstyperInomUtbildningstyp": [
2708         4
2709     ]
2710 },
2711 {

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2712     "AvserTillfalle": true,
2713     "Benamning": {
2714       "sv": "Kurstillf\u00e4lle, forskarniv\u00e5 (inkl. attribut fr\u00e5n grundniv\u00e5 och avance",
2715       "en": "Course instance, Third-cycle (including first-cycle and second-cycle attributes)"
2716     },
2717     "Beskrivning": {
2718       "sv": "Anv\u00e4nds endast f\u00f6r konverterad information."
2719     },
2720     "Dolt": false,
2721     "Giltighetsperiod": {},
2722     "Grundtyp": "KURS",
2723     "ID": "121911",
2724     "Kod": "20073KTF",
2725     "LarosateID": -1,
2726     "Regelverk": {
2727       "Regelvarden": [
2728         {
2729           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2730           "UId": "c9c637ea-e97b-11e8-9df7-dac5c1184137",
2731           "Varde": "grupp.for.utsokning.forskarniva"
2732         }
2733       ],
2734       "UId": "48f2f1e7-0353-11e8-8ac5-d02de0e647cc"
2735     },
2736     "Sorteringsordning": 50,
2737     "StudieordningID": 1,
2738     "TillfalleInomUtbildningstyper": [
2739       121910
2740     ],
2741     "UtbildningstyperInomUtbildningstyp": []
2742   },
2743   {
2744     "AvserTillfalle": false,
2745     "Benamning": {
2746       "sv": "Deltagande utan omfattning, forskarniv\u00e5",
2747       "en": "Participation without scope, third cycle student"
2748     },
2749     "Beskrivning": {},
2750     "Dolt": false,
2751     "Giltighetsperiod": {},
2752     "Grundtyp": "KURS",
2753     "ID": "152631",
2754     "Kod": "2007FDU",
2755     "LarosateID": -1,
2756     "NivaInomStudieordningID": 3,
2757     "Regelverk": {
2758       "Regelvarden": [
2759         {
2760           "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
2761           "UId": "242e4c44-4629-11ec-8ce5-829094194c50",
2762           "Varde": "true"

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2763     },
2764     {
2765       "Regelnamn": "commons.domain.regel.versionshanteras",
2766       "UId": "242e4c46-4629-11ec-8ce5-829094194c50",
2767       "Varde": "true"
2768     },
2769     {
2770       "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2771       "UId": "242b6611-4629-11ec-8ce5-829094194c50",
2772       "Varde": "grupp.for.utsokning.forskarniva"
2773     },
2774     {
2775       "Regelnamn": "commons.domain.regel.har.omfattning",
2776       "UId": "242e4c42-4629-11ec-8ce5-829094194c50",
2777       "Varde": "false"
2778     },
2779     {
2780       "Regelnamn": "commons.domain.regel.resultat",
2781       "UId": "242e4c45-4629-11ec-8ce5-829094194c50",
2782       "Varde": "false"
2783     },
2784     {
2785       "Regelnamn": "commons.domain.regel.individuell",
2786       "UId": "242e4c43-4629-11ec-8ce5-829094194c50",
2787       "Varde": "false"
2788     }
2789   ],
2790   "UId": "242b6610-4629-11ec-8ce5-829094194c50"
2791 },
2792 "Sorteringsordning": 50,
2793 "StudieordningID": 1,
2794 "TillfalleInomUtbildningstyper": [],
2795 "UtbildningstyperInomUtbildningstyp": []
2796 },
2797 {
2798   "AvserTillfalle": true,
2799   "Benamning": {
2800     "sv": "Individuellt tillf\u00e4lle f\u00f6r deltagande utan omfattning, forskarniv\u00e5",
2801     "en": "Individual course instance for participation without scope, third cycle student"
2802   },
2803   "Beskrivning": {},
2804   "Dolt": false,
2805   "Giltighetsperiod": {},
2806   "Grundtyp": "KURS",
2807   "ID": "152632",
2808   "Kod": "2007FDUIT",
2809   "LarosateID": -1,
2810   "Regelverk": {
2811     "Regelvarden": [
2812       {
2813         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",

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2814         "Uid": "c3d4f6b2-4629-11ec-8ce5-829094194c50",
2815         "Varde": "grupp.for.utsokning.forskarniva"
2816     },
2817     {
2818         "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
2819         "Uid": "c3d4f6b4-4629-11ec-8ce5-829094194c50",
2820         "Varde": "true"
2821     },
2822     {
2823         "Regelnamn": "commons.domain.regel.studieperiod.kan.laggas.till",
2824         "Uid": "c3d4f6b5-4629-11ec-8ce5-829094194c50",
2825         "Varde": "true"
2826     },
2827     {
2828         "Regelnamn": "commons.domain.regel.individuell",
2829         "Uid": "c3d4f6b3-4629-11ec-8ce5-829094194c50",
2830         "Varde": "true"
2831     }
2832 ],
2833 "Uid": "c3d4f6b1-4629-11ec-8ce5-829094194c50"
2834 },
2835 "Sorteringsordning": 50,
2836 "StudieordningID": 1,
2837 "TillfalleInomUtbildningstyper": [
2838     152631,
2839     110915
2840 ],
2841 "UtbildningstyperInomUtbildningstyp": [],
2842 },
2843 {
2844     "AvserTillfalle": false,
2845     "Benamning": {
2846         "sv": "Deltagande utan omfattning, grund- och avancerad niv\u00e5",
2847         "en": "Participation without scope, first and second cycle student"
2848     },
2849     "Beskrivning": {},
2850     "Dolt": false,
2851     "Giltighetsperiod": {},
2852     "Grundtyp": "KURS",
2853     "ID": "152633",
2854     "Kod": "2007GADU",
2855     "LarosateID": -1,
2856     "Regelverk": {
2857         "Regelvarden": [
2858             {
2859                 "Regelnamn": "commons.domain.regel.versionshanteras",
2860                 "Uid": "3a8de07e-462a-11ec-8ce5-829094194c50",
2861                 "Varde": "true"
2862             },
2863             {
2864                 "Regelnamn": "commons.domain.regel.har.omfattning",

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2865         "Uid": "3a8de07a-462a-11ec-8ce5-829094194c50",
2866         "Varde": "false"
2867     },
2868     {
2869         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
2870         "Uid": "3a8de07c-462a-11ec-8ce5-829094194c50",
2871         "Varde": "true"
2872     },
2873     {
2874         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2875         "Uid": "3a8de079-462a-11ec-8ce5-829094194c50",
2876         "Varde": "grupp.for.utsokning.grundavanceradniva"
2877     },
2878     {
2879         "Regelnamn": "commons.domain.regel.individuell",
2880         "Uid": "3a8de07b-462a-11ec-8ce5-829094194c50",
2881         "Varde": "false"
2882     },
2883     {
2884         "Regelnamn": "commons.domain.regel.resultat",
2885         "Uid": "3a8de07d-462a-11ec-8ce5-829094194c50",
2886         "Varde": "false"
2887     }
2888 ],
2889 "Uid": "3a8de078-462a-11ec-8ce5-829094194c50"
2890 },
2891 "Sorteringsordning": 50,
2892 "StudieordningID": 1,
2893 "TillfalleInomUtbildningstyper": [],
2894 "UtbildningstyperInomUtbildningstyp": []
2895 },
2896 {
2897     "AvserTillfalle": true,
2898     "Benamning": {
2899         "sv": "Individuellt tillf\u00e4lle f\u00f6r deltagande utan omfattning, grund- och avancerad ni
2900         "en": "Course instance for participation without scope, first and second cycle student"
2901     },
2902     "Beskrivning": {},
2903     "Dolt": false,
2904     "Giltighetsperiod": {},
2905     "Grundtyp": "KURS",
2906     "ID": "152634",
2907     "Kod": "2007GADUITF",
2908     "LarosateID": -1,
2909     "Regelverk": {
2910         "Regelvarden": [
2911             {
2912                 "Regelnamn": "commons.domain.regel.individuell",
2913                 "Uid": "fac905e4-f2ea-11ec-b69c-de0a57354d79",
2914                 "Varde": "true"
2915             }

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2916     {
2917         "Regelnamn": "commons.domain.regel.studieperiod.kan.laggas.till",
2918         "Uid": "fac905e6-f2ea-11ec-b69c-de0a57354d79",
2919         "Varde": "true"
2920     },
2921     {
2922         "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
2923         "Uid": "fac905e5-f2ea-11ec-b69c-de0a57354d79",
2924         "Varde": "true"
2925     },
2926     {
2927         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2928         "Uid": "fac905e3-f2ea-11ec-b69c-de0a57354d79",
2929         "Varde": "grupp.for.utsokning.grundavanceradniva"
2930     }
2931 ],
2932 "Uid": "aa197af5-462a-11ec-8ce5-829094194c50"
2933 },
2934 "Sorteringsordning": 50,
2935 "StudieordningID": 1,
2936 "TillfalleInomUtbildningstyper": [
2937     152633
2938 ],
2939 "UtbildningstyperInomUtbildningstyp": [],
2940 },
2941 {
2942     "AvserTillfalle": true,
2943     "Benamning": {
2944         "sv": "Tillf\u00e4lle f\u00f6r deltagande utan omfattning, grund- och avancerad niv\u00e5",
2945         "en": "Course instance for participation without scope, first and second cycle student"
2946     },
2947     "Beskrivning": {},
2948     "Dolt": false,
2949     "Giltighetsperiod": {},
2950     "Grundtyp": "KURS",
2951     "ID": "152635",
2952     "Kod": "2007GADUTF",
2953     "LarosateID": -1,
2954     "Regelverk": {
2955         "Regelvarden": [
2956             {
2957                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2958                 "Uid": "689ebff1-1e29-11ed-8ee2-089534b14047",
2959                 "Varde": "grupp.for.utsokning.grundavanceradniva"
2960             },
2961             {
2962                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
2963                 "Uid": "689f0e12-1e29-11ed-8ee2-089534b14047",
2964                 "Varde": "true"
2965             },
2966         ]

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2967         "Regelnamn": "commons.domain.regel.har.omfattning",
2968         "UId": "689f0e13-1e29-11ed-8ee2-089534b14047",
2969         "Varde": "false"
2970     }
2971 ],
2972     "UId": "10ec91ea-462b-11ec-8ce5-829094194c50"
2973 },
2974 "Sorteringsordning": 50,
2975 "StudieordningID": 1,
2976 "TillfalleInomUtbildningstyper": [
2977     152633
2978 ],
2979 "UtbildningstyperInomUtbildningstyp": []
2980 },
2981 {
2982     "AvserTillfalle": false,
2983     "Benamning": {
2984         "sv": "Kurspaket",
2985         "en": "Course package"
2986     },
2987     "Beskrivning": {},
2988     "Dolt": false,
2989     "Giltighetsperiod": {},
2990     "Grundtyp": "KURSPAKETERING",
2991     "ID": "154131",
2992     "Kod": "UPHPKP",
2993     "LarosateID": -1,
2994     "Regelverk": {
2995         "Regelvarden": [
2996             {
2997                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
2998                 "UId": "16bb6bd9-0509-11ee-b40a-f28ad46341da",
2999                 "Varde": "grupp.for.utsokning.uppdraagsutbildning"
3000             },
3001             {
3002                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
3003                 "UId": "16bb6bda-0509-11ee-b40a-f28ad46341da",
3004                 "Varde": "true"
3005             },
3006             {
3007                 "Regelnamn": "commons.domain.regel.ar_kurspaket",
3008                 "UId": "16bb6bdb-0509-11ee-b40a-f28ad46341da",
3009                 "Varde": "true"
3010             }
3011         ],
3012         "UId": "15aae9be-28fe-11ed-bbb6-2ba689e94455"
3013     },
3014     "Sorteringsordning": 5,
3015     "StudieordningID": 17,
3016     "TillfalleInomUtbildningstyper": [],
3017     "UtbildningstyperInomUtbildningstyp": [

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3018         101993,
3019         101992
3020     ]
3021 },
3022 {
3023     "AvserTillfalle": true,
3024     "Benamning": {
3025         "sv": "Kurspaket tillf\u00e4lle",
3026         "en": "Course package instance"
3027     },
3028     "Beskrivning": {},
3029     "Dolt": false,
3030     "Giltighetsperiod": {},
3031     "Grundtyp": "KURSPAKETERING",
3032     "ID": "154132",
3033     "Kod": "UPHPKPTF",
3034     "LarosateID": -1,
3035     "Regelverk": {
3036         "Regelvarden": [
3037             {
3038                 "Regelnamn": "commons.domain.regel.kan.utannonseras",
3039                 "Uid": "039baa41-0506-11ee-b40a-f28ad46341da",
3040                 "Varde": "true"
3041             },
3042             {
3043                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
3044                 "Uid": "039baa40-0506-11ee-b40a-f28ad46341da",
3045                 "Varde": "true"
3046             },
3047             {
3048                 "Regelnamn": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",
3049                 "Uid": "039baa42-0506-11ee-b40a-f28ad46341da",
3050                 "Varde": "varning"
3051             },
3052             {
3053                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3054                 "Uid": "039baa3f-0506-11ee-b40a-f28ad46341da",
3055                 "Varde": "grupp.for.utsokning.uppdraagsutbildning"
3056             },
3057             {
3058                 "Regelnamn": "commons.domain.regel.ar_kurspaket",
3059                 "Uid": "039baa43-0506-11ee-b40a-f28ad46341da",
3060                 "Varde": "true"
3061             }
3062         ],
3063         "Uid": "74ca90cd-28fe-11ed-bbb6-2ba689e94455"
3064     },
3065     "Sorteringsordning": 50,
3066     "StudieordningID": 17,
3067     "TillfalleInomUtbildningstyper": [
3068         154131

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3069     ],
3070     "UtbildningstyperInomUtbildningstyp": [
3071         101993,
3072         101992,
3073         101994
3074     ]
3075 },
3076 {
3077     "AvserTillfalle": false,
3078     "Benamning": {
3079         "sv": "Individuell kurs, grundniv\u00e5, inresande",
3080         "en": "Individual first-cycle course, incoming student"
3081     },
3082     "Beskrivning": {},
3083     "Dolt": false,
3084     "Giltighetsperiod": {},
3085     "Grundtyp": "KURS",
3086     "ID": "101380",
3087     "Kod": "2007IKURS",
3088     "LarosateID": -1,
3089     "NivaInomStudieordningID": 1,
3090     "Regelverk": {
3091         "Regelvarden": [
3092             {
3093                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3094                 "Uid": "50a8d75b-ee40-11e8-9270-17395ad8480f",
3095                 "Varde": "grupp.for.utsokning.grundavanceradniva"
3096             },
3097             {
3098                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
3099                 "Uid": "50a8d757-ee40-11e8-9270-17395ad8480f",
3100                 "Varde": "true"
3101             },
3102             {
3103                 "Regelnamn": "commons.domain.regel.versionshanteras",
3104                 "Uid": "50a8d75a-ee40-11e8-9270-17395ad8480f",
3105                 "Varde": "false"
3106             },
3107             {
3108                 "Regelnamn": "commons.domain.regel.individuell",
3109                 "Uid": "50a8d759-ee40-11e8-9270-17395ad8480f",
3110                 "Varde": "true"
3111             },
3112             {
3113                 "Regelnamn": "commons.domain.regel.avbrottsregel",
3114                 "Uid": "50a8d75c-ee40-11e8-9270-17395ad8480f",
3115                 "Varde": "20"
3116             },
3117             {
3118                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
3119                 "Uid": "50a8d758-ee40-11e8-9270-17395ad8480f",

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3120         "Varde": "true"
3121     }
3122 ],
3123     "Uid": "7c76367b-7a6b-11e6-8419-0812bb95460f"
3124 },
3125     "Sorteringsordning": 10,
3126     "StudieordningID": 1,
3127     "TillfalleInomUtbildningstyper": [],
3128     "UtbildningstyperInomUtbildningstyp": [
3129         3,
3130         4
3131     ]
3132 },
3133 {
3134     "AvserTillfalle": true,
3135     "Benamning": {
3136         "sv": "Individuellt kurstillf\u00e4lle",
3137         "en": "Individual course instance"
3138     },
3139     "Beskrivning": {},
3140     "Dolt": false,
3141     "Giltighetsperiod": {},
3142     "Grundtyp": "KURS",
3143     "ID": "101381",
3144     "Kod": "2007IKTF",
3145     "LarosateID": -1,
3146     "Regelverk": {
3147         "Regelvarden": [
3148             {
3149                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
3150                 "Uid": "97513edf-b803-11ed-8cb2-324fb1124949",
3151                 "Varde": "true"
3152             },
3153             {
3154                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3155                 "Uid": "97513edc-b803-11ed-8cb2-324fb1124949",
3156                 "Varde": "grupp.for.utsokning.grundavanceradniva"
3157             },
3158             {
3159                 "Regelnamn": "commons.domain.regel.atgard_vid_overskriden_terminsgrans",
3160                 "Uid": "97513ee0-b803-11ed-8cb2-324fb1124949",
3161                 "Varde": "varning"
3162             },
3163             {
3164                 "Regelnamn": "commons.domain.regel.individuell",
3165                 "Uid": "97513edd-b803-11ed-8cb2-324fb1124949",
3166                 "Varde": "true"
3167             },
3168             {
3169                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
3170                 "Uid": "97513ede-b803-11ed-8cb2-324fb1124949",

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3171         "Varde": "true"
3172     }
3173 ],
3174     "UId": "ce31accb-7a6b-11e6-8419-0812bb95460f"
3175 },
3176 "Sorteringsordning": 10,
3177 "StudieordningID": 1,
3178 "TillfalleInomUtbildningstyper": [
3179     105630,
3180     22,
3181     106390,
3182     105631,
3183     101380,
3184     24
3185 ],
3186 "UtbildningstyperInomUtbildningstyp": []
3187 },
3188 {
3189     "AvserTillfalle": true,
3190     "Benamning": {
3191         "sv": "Kurstillf\u00e4lle",
3192         "en": "Course instance"
3193     },
3194     "Beskrivning": {},
3195     "Dolt": false,
3196     "Giltighetsperiod": {},
3197     "Grundtyp": "KURS",
3198     "ID": "101382",
3199     "Kod": "FUPKTF",
3200     "LarosateID": -1,
3201     "Regelverk": {
3202         "Regelvarden": [
3203             {
3204                 "Regelnamn": "commons.domain.regel.kan.utannonseras",
3205                 "UId": "727b99a3-e80a-11e8-b1f1-65de97d74aa5",
3206                 "Varde": "true"
3207             },
3208             {
3209                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3210                 "UId": "727b99a4-e80a-11e8-b1f1-65de97d74aa5",
3211                 "Varde": "true"
3212             },
3213             {
3214                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
3215                 "UId": "727b99a1-e80a-11e8-b1f1-65de97d74aa5",
3216                 "Varde": "true"
3217             },
3218             {
3219                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3220                 "UId": "727b99a2-e80a-11e8-b1f1-65de97d74aa5",
3221                 "Varde": "grupp.for.utsokning.forutbildning"

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3222     }
3223   ],
3224   "Uid": "72f09f80-8562-11e6-92a1-a50a597744a2"
3225 },
3226 "Sorteringsordning": 50,
3227 "StudieordningID": 3,
3228 "TillfalleInomUtbildningstyper": [
3229   101378
3230 ],
3231 "UtbildningstyperInomUtbildningstyp": []
3232 },
3233 {
3234   "AvserTillfalle": false,
3235   "Benamning": {
3236     "sv": "Utbytes\u00e5tagande, utresande",
3237     "en": "Exchange load, outgoing student"
3238   },
3239   "Beskrivning": {},
3240   "Dolt": false,
3241   "Giltighetsperiod": {},
3242   "Grundtyp": "KURS",
3243   "ID": "101730",
3244   "Kod": "2007UAT",
3245   "LarosateID": -1,
3246   "Regelverk": {
3247     "Regelvarden": [
3248       {
3249         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3250         "Uid": "8d3ebf55-ee3f-11e8-9270-17395ad8480f",
3251         "Varde": "grupp.for.utsokning.grundavanceradniva"
3252       },
3253       {
3254         "Regelnamn": "commons.domain.regel.versionshanteras",
3255         "Uid": "8d3ebf53-ee3f-11e8-9270-17395ad8480f",
3256         "Varde": "false"
3257       },
3258       {
3259         "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
3260         "Uid": "8d3ebf52-ee3f-11e8-9270-17395ad8480f",
3261         "Varde": "true"
3262       },
3263       {
3264         "Regelnamn": "commons.domain.regel.avbrottsregel",
3265         "Uid": "8d3ebf56-ee3f-11e8-9270-17395ad8480f",
3266         "Varde": "20"
3267       },
3268       {
3269         "Regelnamn": "commons.domain.regel.resultat",
3270         "Uid": "8d3ebf54-ee3f-11e8-9270-17395ad8480f",
3271         "Varde": "false"
3272       }

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3273         {
3274             "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
3275             "Uid": "8d3ebf51-ee3f-11e8-9270-17395ad8480f",
3276             "Varde": "true"
3277         }
3278     ],
3279     "UId": "6c9d565e-9a8f-11e6-a0ec-9788925c400e"
3280 },
3281 "Sorteringsordning": 11,
3282 "StudieordningID": 1,
3283 "TillfalleInomUtbildningstyper": [],
3284 "UtbildningstyperInomUtbildningstyp": []
3285 },
3286 {
3287     "AvserTillfalle": true,
3288     "Benamning": {
3289         "sv": "Individuellt tillf\u00e4lle f\u00f6r utbytes\u00e5tagande, utresande",
3290         "en": "Individual exchange load instance, outgoing student"
3291     },
3292     "Beskrivning": {},
3293     "Dolt": false,
3294     "Giltighetsperiod": {},
3295     "Grundtyp": "KURS",
3296     "ID": "101731",
3297     "Kod": "2007UATTF",
3298     "LarosateID": -1,
3299     "Regelverk": {
3300         "Regelvarden": [
3301             {
3302                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
3303                 "Uid": "693cdf01-ee3e-11e8-9270-17395ad8480f",
3304                 "Varde": "true"
3305             },
3306             {
3307                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3308                 "Uid": "693cdf00-ee3e-11e8-9270-17395ad8480f",
3309                 "Varde": "grupp.for.utsokning.grundavanceradniva"
3310             },
3311             {
3312                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
3313                 "Uid": "693cdf03-ee3e-11e8-9270-17395ad8480f",
3314                 "Varde": "true"
3315             },
3316             {
3317                 "Regelnamn": "commons.domain.regel.individuell",
3318                 "Uid": "693cdf02-ee3e-11e8-9270-17395ad8480f",
3319                 "Varde": "true"
3320             }
3321         ],
3322         "UId": "0b3ddbad-9a90-11e6-a0ec-9788925c400e"
3323     },

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3324     "Sorteringsordning": 50,
3325     "StudieordningID": 1,
3326     "TillfalleInomUtbildningstyper": [
3327         101730,
3328         104308
3329     ],
3330     "UtbildningstyperInomUtbildningstyp": [],
3331 },
3332 {
3333     "AvserTillfalle": false,
3334     "Benamning": {
3335         "sv": "Individuellt \u00e5tagande, forskarniv\u00e5",
3336         "en": "Individual load, Third-cycle"
3337     },
3338     "Beskrivning": {},
3339     "Dolt": false,
3340     "Giltighetsperiod": {},
3341     "Grundtyp": "KURS",
3342     "ID": "101950",
3343     "Kod": "2007FAT",
3344     "LarosateID": -1,
3345     "NivaInomStudieordningID": 3,
3346     "Regelverk": {
3347         "Regelvarden": [
3348             {
3349                 "Regelnamn": "commons.domain.regel.individuell",
3350                 "Uid": "53daf44f-e96f-11e8-9df7-dac5c1184137",
3351                 "Varde": "true"
3352             },
3353             {
3354                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3355                 "Uid": "53daf451-e96f-11e8-9df7-dac5c1184137",
3356                 "Varde": "grupp.for.utsokning.forskarniva"
3357             },
3358             {
3359                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
3360                 "Uid": "53dacd3e-e96f-11e8-9df7-dac5c1184137",
3361                 "Varde": "true"
3362             },
3363             {
3364                 "Regelnamn": "commons.domain.regel.versionshanteras",
3365                 "Uid": "53daf450-e96f-11e8-9df7-dac5c1184137",
3366                 "Varde": "false"
3367             }
3368         ],
3369         "Uid": "de8470f7-a751-11e6-bc5d-3b8bbccc4a18"
3370     },
3371     "Sorteringsordning": 9,
3372     "StudieordningID": 1,
3373     "TillfalleInomUtbildningstyper": [],
3374     "UtbildningstyperInomUtbildningstyp": [

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3375         3,
3376         4
3377     ]
3378 },
3379 {
3380     "AvserTillfalle": true,
3381     "Benamning": {
3382         "sv": "Tillf\u00e4lle f\u00f6r individuellt \u00e5tagande, forskarniv\u00e5",
3383         "en": "Individual load instance, Third-cycle"
3384     },
3385     "Beskrivning": {},
3386     "Dolt": false,
3387     "Giltighetsperiod": {},
3388     "Grundtyp": "KURS",
3389     "ID": "101951",
3390     "Kod": "2007FATTF",
3391     "LarosateID": -1,
3392     "Regelverk": {
3393         "Regelvarden": [
3394             {
3395                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
3396                 "Uid": "49741a29-e80b-11e8-b1f1-65de97d74aa5",
3397                 "Varde": "true"
3398             },
3399             {
3400                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3401                 "Uid": "49741a2a-e80b-11e8-b1f1-65de97d74aa5",
3402                 "Varde": "grupp.for.utsokning.forskarniva"
3403             },
3404             {
3405                 "Regelnamn": "commons.domain.regel.individuell",
3406                 "Uid": "49741a28-e80b-11e8-b1f1-65de97d74aa5",
3407                 "Varde": "true"
3408             }
3409         ],
3410         "Uid": "3100c652-a752-11e6-bc5d-3b8bbccc4a18"
3411     },
3412     "Sorteringsordning": 50,
3413     "StudieordningID": 1,
3414     "TillfalleInomUtbildningstyper": [
3415         101950
3416     ],
3417     "UtbildningstyperInomUtbildningstyp": []
3418 },
3419 {
3420     "AvserTillfalle": false,
3421     "Benamning": {
3422         "sv": "Kurs, grundniv\u00e5 (inkl. attribut fr\u00e5n 1993 \u00e5rs studieordning)",
3423         "en": "Course, First-cycle (including attributes from the study regulation of 1993)"
3424     },
3425     "Beskrivning": {

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3426     "sv": "Anv\u00e4nds endast f\u00f6r konverterad information."
3427 },
3428 "Dolt": false,
3429 "Giltighetsperiod": {},
3430 "Grundtyp": "KURS",
3431 "ID": "105630",
3432 "Kod": "0793GKURS",
3433 "LarosateID": -1,
3434 "NivaInomStudieordningID": 1,
3435 "Regelverk": {
3436   "Regelvarden": [
3437     {
3438       "Regelnamn": "commons.domain.regel.avbrottsregel",
3439       "Uid": "720d29c2-e979-11e8-9df7-dac5c1184137",
3440       "Varde": "20"
3441     },
3442     {
3443       "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3444       "Uid": "720d29c3-e979-11e8-9df7-dac5c1184137",
3445       "Varde": "true"
3446     },
3447     {
3448       "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3449       "Uid": "720d29c4-e979-11e8-9df7-dac5c1184137",
3450       "Varde": "grupp.for.utsokning.grundavanceradniva"
3451     }
3452   ],
3453   "Uid": "eeb2ffd3-1529-11e7-a285-7b8b33c24a2b"
3454 },
3455 "Sorteringsordning": 50,
3456 "StudieordningID": 1,
3457 "TillfalleInomUtbildningstyper": [],
3458 "UtbildningstyperInomUtbildningstyp": [
3459   4,
3460   101371
3461 ]
3462 },
3463 {
3464   "AvserTillfalle": false,
3465   "Benamning": {
3466     "sv": "Kurs, avancerad niv\u00e5 (inkl. attribut fr\u00e5n 1993 \u00e5rs studieordning)",
3467     "en": "Course, Second-cycle (including attributes from the study regulation of 1993)"
3468   },
3469   "Beskrivning": {
3470     "sv": "Anv\u00e4nds endast f\u00f6r konverterad information."
3471   },
3472   "Dolt": false,
3473   "Giltighetsperiod": {},
3474   "Grundtyp": "KURS",
3475   "ID": "105631",
3476   "Kod": "0793AKURS",

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3477     "LarosateID": -1,
3478     "NivaInomStudieordningID": 2,
3479     "Regelverk": {
3480         "Regelvarden": [
3481             {
3482                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3483                 "Uid": "f543b5ba-e979-11e8-9df7-dac5c1184137",
3484                 "Varde": "true"
3485             },
3486             {
3487                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3488                 "Uid": "f543b5bb-e979-11e8-9df7-dac5c1184137",
3489                 "Varde": "grupp.for.utsokning.grundavanceradniva"
3490             },
3491             {
3492                 "Regelnamn": "commons.domain.regel.avbrottsregel",
3493                 "Uid": "f543b5b9-e979-11e8-9df7-dac5c1184137",
3494                 "Varde": "20"
3495             }
3496         ],
3497         "Uid": "56099ddc-152a-11e7-a285-7b8b33c24a2b"
3498     },
3499     "Sorteringsordning": 50,
3500     "StudieordningID": 1,
3501     "TillfalleInomUtbildningstyper": [],
3502     "UtbildningstyperInomUtbildningstyp": [
3503         4,
3504         101371
3505     ]
3506 },
3507 {
3508     "AvserTillfalle": true,
3509     "Benamning": {
3510         "sv": "Kurstillf\u00e4lle (inkl. attribut fr\u00e5n 1993 \u00e5rs studieordning)",
3511         "en": "Course instance (including attributes from the study regulation of 1993)"
3512     },
3513     "Beskrivning": {
3514         "sv": "Anv\u00e4nds endast f\u00f6r konverterad information."
3515     },
3516     "Dolt": false,
3517     "Giltighetsperiod": {},
3518     "Grundtyp": "KURS",
3519     "ID": "105632",
3520     "Kod": "0793KTF",
3521     "LarosateID": -1,
3522     "Regelverk": {
3523         "Regelvarden": [
3524             {
3525                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3526                 "Uid": "8695db9c-e97a-11e8-9df7-dac5c1184137",
3527                 "Varde": "grupp.for.utsokning.grundavanceradniva"

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3528     },
3529     {
3530         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3531         "Uid": "8695db9b-e97a-11e8-9df7-dac5c1184137",
3532         "Varde": "true"
3533     }
3534 ],
3535 "UId": "64be0104-152b-11e7-a285-7b8b33c24a2b"
3536 },
3537 "Sorteringsordning": 50,
3538 "StudieordningID": 1,
3539 "TillfalleInomUtbildningstyper": [
3540     105630,
3541     105631
3542 ],
3543 "UtbildningstyperInomUtbildningstyp": []
3544 },
3545 {
3546     "AvserTillfalle": false,
3547     "Benamning": {
3548         "sv": "Individuell kurs, avancerad niv\u00e5, inresande",
3549         "en": "Individual second-cycle course, incoming student"
3550     },
3551     "Beskrivning": {},
3552     "Dolt": false,
3553     "Giltighetsperiod": {},
3554     "Grundtyp": "KURS",
3555     "ID": "106390",
3556     "Kod": "2007AIKURS",
3557     "LarosateID": -1,
3558     "NivaInomStudieordningID": 2,
3559     "Regelverk": {
3560         "Regelvarden": [
3561             {
3562                 "Regelnamn": "commons.domain.regel.avbrottsregel",
3563                 "Uid": "0088e809-ee40-11e8-9270-17395ad8480f",
3564                 "Varde": "20"
3565             },
3566             {
3567                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3568                 "Uid": "0088e807-ee40-11e8-9270-17395ad8480f",
3569                 "Varde": "grupp.for.utsokning.grundavanceradniva"
3570             },
3571             {
3572                 "Regelnamn": "commons.domain.regel.individuell",
3573                 "Uid": "0088e808-ee40-11e8-9270-17395ad8480f",
3574                 "Varde": "true"
3575             },
3576             {
3577                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
3578                 "Uid": "0088e806-ee40-11e8-9270-17395ad8480f",

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3579         "Varde": "true"
3580     },
3581     {
3582         "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
3583         "Uid": "0088e804-ee40-11e8-9270-17395ad8480f",
3584         "Varde": "true"
3585     },
3586     {
3587         "Regelnamn": "commons.domain.regel.versionshanteras",
3588         "Uid": "0088e805-ee40-11e8-9270-17395ad8480f",
3589         "Varde": "false"
3590     }
3591 ],
3592 "Uid": "7d95f13b-36f7-11e7-a3b7-78a0d3b54280"
3593 },
3594 "Sorteringsordning": 11,
3595 "StudieordningID": 1,
3596 "TillfalleInomUtbildningstyper": [],
3597 "UtbildningstyperInomUtbildningstyp": [
3598     3,
3599     4
3600 ]
3601 },
3602 {
3603     "AvserTillfalle": true,
3604     "Benamning": {
3605         "sv": "Individuellt kurstillf\u00e4lle, forskarniv\u00e5",
3606         "en": "Individual course instance, Third-cycle"
3607     },
3608     "Beskrivning": {},
3609     "Dolt": false,
3610     "Giltighetsperiod": {},
3611     "Grundtyp": "KURS",
3612     "ID": "107510",
3613     "Kod": "2007FIKTF",
3614     "LarosateID": -1,
3615     "Regelverk": {
3616         "Regelvarden": [
3617             {
3618                 "Regelnamn": "commons.domain.regel.individuell",
3619                 "Uid": "f0f0e941-e809-11e8-b1f1-65de97d74aa5",
3620                 "Varde": "true"
3621             },
3622             {
3623                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3624                 "Uid": "f0f0e942-e809-11e8-b1f1-65de97d74aa5",
3625                 "Varde": "grupp.for.utsokning.forskarniva"
3626             },
3627             {
3628                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
3629                 "Uid": "f0f0e940-e809-11e8-b1f1-65de97d74aa5",

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3630         "Varde": "true"
3631     }
3632 ],
3633     "Uid": "c9dfc2c-4773-11e7-90e5-0ce8b6914937"
3634 },
3635     "Sorteringsordning": 50,
3636     "StudieordningID": 1,
3637     "TillfalleInomUtbildningstyper": [
3638         101954
3639     ],
3640     "UtbildningstyperInomUtbildningstyp": []
3641 },
3642 {
3643     "AvserTillfalle": false,
3644     "Benamning": {
3645         "sv": "Program (inkl. attribut fr\u00e5n 1993 \u00e5rs studieordning)",
3646         "en": "Programme (including attributes from the study regulation of 1993)"
3647     },
3648     "Beskrivning": {
3649         "sv": "Anv\u00e4nds endast f\u00f6r konverterad information."
3650     },
3651     "Dolt": false,
3652     "Giltighetsperiod": {},
3653     "Grundtyp": "KURSPAKETERING",
3654     "ID": "107524",
3655     "Kod": "0793PRG",
3656     "LarosateID": -1,
3657     "Regelverk": {
3658         "Regelvarden": [
3659             {
3660                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3661                 "Uid": "1fff915d-e978-11e8-9df7-dac5c1184137",
3662                 "Varde": "grupp.for.utsokning.grundavanceradniva"
3663             },
3664             {
3665                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3666                 "Uid": "1fff915c-e978-11e8-9df7-dac5c1184137",
3667                 "Varde": "true"
3668             }
3669         ],
3670         "Uid": "804dd6c8-4775-11e7-90e5-0ce8b6914937"
3671     },
3672     "Sorteringsordning": 17,
3673     "StudieordningID": 1,
3674     "TillfalleInomUtbildningstyper": [],
3675     "UtbildningstyperInomUtbildningstyp": [
3676         101270,
3677         101960
3678     ]
3679 },
3680 {

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3681     "AvserTillfalle": true,
3682     "Benamning": {
3683       "sv": "Programtillf\u00e4lle (inkl. attribut fr\u00e5n 1993 \u00e5rs studieordning)",
3684       "en": "Programme instance (including attributes from the study regulation of 1993)"
3685     },
3686     "Beskrivning": {
3687       "sv": "Anv\u00e4nds endast f\u00f6r konverterad information."
3688     },
3689     "Dolt": false,
3690     "Giltighetsperiod": {},
3691     "Grundtyp": "KURSPAKETERING",
3692     "ID": "107525",
3693     "Kod": "0793PRGTF",
3694     "LarosateID": -1,
3695     "Regelverk": {
3696       "Regelvarden": [
3697         {
3698           "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3699           "UId": "99f30d6f-e978-11e8-9df7-dac5c1184137",
3700           "Varde": "true"
3701         },
3702         {
3703           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3704           "UId": "99f30d70-e978-11e8-9df7-dac5c1184137",
3705           "Varde": "grupp.for.utsokning.grundavanceradniva"
3706         }
3707       ],
3708       "UId": "5b59b523-4779-11e7-90e5-0ce8b6914937"
3709     },
3710     "Sorteringsordning": 50,
3711     "StudieordningID": 1,
3712     "TillfalleInomUtbildningstyper": [
3713       107524
3714     ],
3715     "UtbildningstyperInomUtbildningstyp": [
3716       101290,
3717       101374,
3718       105632,
3719       52,
3720       101961
3721     ]
3722   },
3723   {
3724     "AvserTillfalle": false,
3725     "Benamning": {
3726       "sv": "Kurs",
3727       "en": "Course"
3728     },
3729     "Beskrivning": {},
3730     "Dolt": false,
3731     "Giltighetsperiod": {},

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3732     "Grundtyp": "KURS",
3733     "ID": "122030",
3734     "Kod": "HIKURS",
3735     "LarosateID": -1,
3736     "Regelverk": {
3737         "Regelvarden": [],
3738         "Uid": "668b14f0-0998-11e8-81a6-df2234b3409c"
3739     },
3740     "Sorteringsordning": 50,
3741     "StudieordningID": 15,
3742     "TillfalleInomUtbildningstyper": [],
3743     "UtbildningstyperInomUtbildningstyp": []
3744 },
3745 {
3746     "AvserTillfalle": true,
3747     "Benamning": {
3748         "sv": "Kurstillf\u00e4lle",
3749         "en": "Course instance"
3750     },
3751     "Beskrivning": {},
3752     "Dolt": false,
3753     "Giltighetsperiod": {},
3754     "Grundtyp": "KURS",
3755     "ID": "122031",
3756     "Kod": "HIKTF",
3757     "LarosateID": -1,
3758     "Regelverk": {
3759         "Regelvarden": [],
3760         "Uid": "adbb1d5a-0998-11e8-81a6-df2234b3409c"
3761     },
3762     "Sorteringsordning": 50,
3763     "StudieordningID": 15,
3764     "TillfalleInomUtbildningstyper": [
3765         122030
3766     ],
3767     "UtbildningstyperInomUtbildningstyp": []
3768 },
3769 {
3770     "AvserTillfalle": true,
3771     "Benamning": {
3772         "sv": "Individuellt kurstillf\u00e4lle, grundutbildning",
3773         "en": "Individual course instance, Undergraduate"
3774     },
3775     "Beskrivning": {},
3776     "Dolt": false,
3777     "Giltighetsperiod": {},
3778     "Grundtyp": "KURS",
3779     "ID": "138460",
3780     "Kod": "1993GIKTF",
3781     "LarosateID": -1,
3782     "Regelverk": {

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3783     "Regelvarden": [
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3785         "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
3786         "Uid": "f607b4ed-e809-11e8-b1f1-65de97d74aa5",
3787         "Varde": "true"
3788       },
3789       {
3790         "Regelnamn": "commons.domain.regel.individuell",
3791         "Uid": "f607b4ee-e809-11e8-b1f1-65de97d74aa5",
3792         "Varde": "true"
3793       }
3794     ],
3795     "Uid": "c95778a4-cbfc-11e8-9d78-2c6264424f58"
3796   },
3797   "Sorteringsordning": 50,
3798   "StudieordningID": 2,
3799   "TillfalleInomUtbildningstyper": [
3800     101370
3801   ],
3802   "UtbildningstyperInomUtbildningstyp": []
3803 },
3804 {
3805   "AvserTillfalle": true,
3806   "Benamning": {
3807     "sv": "Individuellt kurstillf\u00e4lle, forskarutbildning",
3808     "en": "Individual course instance, doctoral studies"
3809   },
3810   "Beskrivning": {},
3811   "Dolt": false,
3812   "Giltighetsperiod": {},
3813   "Grundtyp": "KURS",
3814   "ID": "138461",
3815   "Kod": "1993FIKTF",
3816   "LarosateID": -1,
3817   "Regelverk": {
3818     "Regelvarden": [
3819       {
3820         "Regelnamn": "commons.domain.regel.individuell",
3821         "Uid": "f3e0685e-e809-11e8-b1f1-65de97d74aa5",
3822         "Varde": "true"
3823       }
3824     ],
3825     "Uid": "244e849e-cbfd-11e8-9d78-2c6264424f58"
3826   },
3827   "Sorteringsordning": 50,
3828   "StudieordningID": 2,
3829   "TillfalleInomUtbildningstyper": [
3830     101967
3831   ],
3832   "UtbildningstyperInomUtbildningstyp": []
3833 },

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3834 {
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3836   "Benamning": {
3837     "sv": "Kurs, grundniv\u00e5",
3838     "en": "Course, First-cycle"
3839   },
3840   "Beskrivning": {},
3841   "Dolt": false,
3842   "Giltighetsperiod": {},
3843   "Grundtyp": "KURS",
3844   "ID": "138692",
3845   "Kod": "PU18GKURS",
3846   "LarosateID": -1,
3847   "NivaInomStudieordningID": 1,
3848   "Regelverk": {
3849     "Regelvarden": [
3850       {
3851         "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
3852         "Uid": "2f63220f-180a-11ef-97a4-423019c54f2d",
3853         "Varde": "true"
3854       },
3855       {
3856         "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
3857         "Uid": "2f62fafa-180a-11ef-97a4-423019c54f2d",
3858         "Varde": "true"
3859       },
3860       {
3861         "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
3862         "Uid": "2f63220d-180a-11ef-97a4-423019c54f2d",
3863         "Varde": "true"
3864       },
3865       {
3866         "Regelnamn": "commons.domain.regel.avbrottsregel",
3867         "Uid": "2f632211-180a-11ef-97a4-423019c54f2d",
3868         "Varde": "20"
3869       },
3870       {
3871         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3872         "Uid": "2f63220c-180a-11ef-97a4-423019c54f2d",
3873         "Varde": "grupp.for.utsokning.polisutbildning"
3874       },
3875       {
3876         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3877         "Uid": "2f63220e-180a-11ef-97a4-423019c54f2d",
3878         "Varde": "true"
3879       },
3880       {
3881         "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
3882         "Uid": "2f632210-180a-11ef-97a4-423019c54f2d",
3883         "Varde": "true"
3884       }
3885     ]
3886   }
3887 }
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3885     ],
3886     "Uid": "2461ec5e-d6fc-11e8-9ff0-687a8474457e"
3887 },
3888 "Sorteringsordning": 1,
3889 "StudieordningID": 135370,
3890 "TillfalleInomUtbildningstyper": [],
3891 "UtbildningstyperInomUtbildningstyp": [
3892     138695,
3893     138694
3894 ]
3895 },
3896 {
3897     "AvserTillfalle": false,
3898     "Benamning": {
3899         "sv": "Kurs, avancerad niv\u00e5",
3900         "en": "Course, Second-cycle"
3901     },
3902     "Beskrivning": {},
3903     "Dolt": false,
3904     "Giltighetsperiod": {},
3905     "Grundtyp": "KURS",
3906     "ID": "138693",
3907     "Kod": "PU18AKURS",
3908     "LarosateID": -1,
3909     "NivaInomStudieordningID": 2,
3910     "Regelverk": {
3911         "Regelvarden": [
3912             {
3913                 "Regelnamn": "commons.domain.regel.avbrottsregel",
3914                 "Uid": "41ad4a01-180a-11ef-97a4-423019c54f2d",
3915                 "Varde": "20"
3916             },
3917             {
3918                 "Regelnamn": "commons.domain.regel.krav_modul_for_status_komplett",
3919                 "Uid": "41ad49fb-180a-11ef-97a4-423019c54f2d",
3920                 "Varde": "true"
3921             },
3922             {
3923                 "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
3924                 "Uid": "41ad49fd-180a-11ef-97a4-423019c54f2d",
3925                 "Varde": "true"
3926             },
3927             {
3928                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
3929                 "Uid": "41ad49ff-180a-11ef-97a4-423019c54f2d",
3930                 "Varde": "true"
3931             },
3932             {
3933                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
3934                 "Uid": "41ad4a00-180a-11ef-97a4-423019c54f2d",
3935                 "Varde": "true"

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3936     },
3937     {
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3939         "Uid": "41ad49fc-180a-11ef-97a4-423019c54f2d",
3940         "Varde": "grupp.for.utsokning.polisutbildning"
3941     },
3942     {
3943         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
3944         "Uid": "41ad49fe-180a-11ef-97a4-423019c54f2d",
3945         "Varde": "true"
3946     }
3947 ],
3948 "Uid": "f7dd53a1-d6fc-11e8-9ff0-687a8474457e"
3949 },
3950 "Sorteringsordning": 2,
3951 "StudieordningID": 135370,
3952 "TillfalleInomUtbildningstyper": [],
3953 "UtbildningstyperInomUtbildningstyp": [
3954     138695,
3955     138694
3956 ]
3957 },
3958 {
3959     "AvserTillfalle": false,
3960     "Benamning": {
3961         "sv": "Modul",
3962         "en": "Module"
3963     },
3964     "Beskrivning": {},
3965     "Dolt": false,
3966     "Giltighetsperiod": {},
3967     "Grundtyp": "MODUL",
3968     "ID": "138694",
3969     "Kod": "PU18MOD",
3970     "LarosateID": -1,
3971     "Regelverk": {
3972         "Regelvarden": [
3973             {
3974                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
3975                 "Uid": "81bed98a-8360-11ec-b5c0-b03dbaf5459c",
3976                 "Varde": "grupp.for.utsokning.polisutbildning"
3977             },
3978             {
3979                 "Regelnamn": "commons.domain.regel.sjalvstandig",
3980                 "Uid": "81bed98d-8360-11ec-b5c0-b03dbaf5459c",
3981                 "Varde": "false"
3982             },
3983             {
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3985                 "Uid": "81bed98c-8360-11ec-b5c0-b03dbaf5459c",
3986                 "Varde": "true"

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3991         "Varde": "false"
3992     },
3993     {
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3995         "Uid": "81bed98b-8360-11ec-b5c0-b03dbaf5459c",
3996         "Varde": "true"
3997     }
3998 ],
3999 "Uid": "a7048a60-d6fe-11e8-9ff0-687a8474457e"
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4001 "Sorteringsordning": 50,
4002 "StudieordningID": 135370,
4003 "TillfalleInomUtbildningstyper": [],
4004 "UtbildningstyperInomUtbildningstyp": []
4005 },
4006 {
4007     "AvserTillfalle": false,
4008     "Benamning": {
4009         "sv": "Inriktning",
4010         "en": "Specialisation"
4011     },
4012     "Beskrivning": {},
4013     "Dolt": false,
4014     "Giltighetsperiod": {},
4015     "Grundtyp": "KURSPAKETERING",
4016     "ID": "101973",
4017     "Kod": "FUPINR",
4018     "LarosateID": -1,
4019     "Regelverk": {
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4023                 "Uid": "5c401d46-c4d3-11e9-ae13-dc75864a44bd",
4024                 "Varde": "false"
4025             },
4026             {
4027                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4028                 "Uid": "5c401d45-c4d3-11e9-ae13-dc75864a44bd",
4029                 "Varde": "true"
4030             },
4031             {
4032                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4033                 "Uid": "5c401d43-c4d3-11e9-ae13-dc75864a44bd",
4034                 "Varde": "grupp.for.utsokning.forutbildning"
4035             },
4036             {
4037                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",

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4038         "Uid": "5c401d44-c4d3-11e9-ae13-dc75864a44bd",
4039         "Varde": "true"
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4041 ],
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4043 },
4044 "Sorteringsordning": 50,
4045 "StudieordningID": 3,
4046 "TillfalleInomUtbildningstyper": [],
4047 "UtbildningstyperInomUtbildningstyp": [
4048     22,
4049     101378
4050 ]
4051 },
4052 {
4053     "AvserTillfalle": true,
4054     "Benamning": {
4055         "sv": "Inriktningstillf\u00e4lle",
4056         "en": "Specialisation instance"
4057     },
4058     "Beskrivning": {},
4059     "Dolt": false,
4060     "Giltighetsperiod": {},
4061     "Grundtyp": "KURSPAKETERING",
4062     "ID": "101974",
4063     "Kod": "FUPINRTF",
4064     "LarosateID": -1,
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4066         "Regelvarden": [
4067             {
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4070                 "Varde": "true"
4071             },
4072             {
4073                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4074                 "Uid": "ad81a8cc-e4b3-11f0-b251-01189c9f465b",
4075                 "Varde": "true"
4076             },
4077             {
4078                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4079                 "Uid": "ad81a8cd-e4b3-11f0-b251-01189c9f465b",
4080                 "Varde": "grupp.for.utsokning.forutbildning"
4081             }
4082         ],
4083         "Uid": "45803524-8d66-11e7-ab6f-ced203c74a20"
4084     },
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4086     "StudieordningID": 3,
4087     "TillfalleInomUtbildningstyper": [
4088         101973

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4092         22,
4093         101382,
4094         101378,
4095         164114,
4096         164115
4097     ]
4098 },
4099 {
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4101     "Benamning": {
4102         "sv": "Modul",
4103         "en": "Module"
4104     },
4105     "Beskrivning": {},
4106     "Dolt": false,
4107     "Giltighetsperiod": {},
4108     "Grundtyp": "MODUL",
4109     "ID": "101975",
4110     "Kod": "YHMOD",
4111     "LarosateID": -1,
4112     "Regelverk": {
4113         "Regelvarden": [
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4116                 "Uid": "d020fdf0-e80a-11e8-b1f1-65de97d74aa5",
4117                 "Varde": "false"
4118             },
4119             {
4120                 "Regelnamn": "commons.domain.regel.sjalvstandig",
4121                 "Uid": "d020fdef-e80a-11e8-b1f1-65de97d74aa5",
4122                 "Varde": "false"
4123             },
4124             {
4125                 "Regelnamn": "commons.domain.regel.informationsbehorighet.yh.utbildning",
4126                 "Uid": "d020fdef-e80a-11e8-b1f1-65de97d74aa5",
4127                 "Varde": "true"
4128             },
4129             {
4130                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4131                 "Uid": "d020fdee-e80a-11e8-b1f1-65de97d74aa5",
4132                 "Varde": "grupp.for.utsokning.yhutbildning"
4133             }
4134         ],
4135         "Uid": "39072f3e-a76b-11e6-bc5d-3b8bbccc4a18"
4136     },
4137     "Sorteringsordning": 50,
4138     "StudieordningID": 5,
4139     "TillfalleInomUtbildningstyper": [],
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4141 },
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4144     "Benamning": {
4145         "sv": "Modul utan omfattning",
4146         "en": "Module without scope"
4147     },
4148     "Beskrivning": {},
4149     "Dolt": false,
4150     "Giltighetsperiod": {},
4151     "Grundtyp": "MODUL",
4152     "ID": "101976",
4153     "Kod": "FUPMU0",
4154     "LarosateID": -1,
4155     "Regelverk": {
4156         "Regelvarden": [
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4159                 "Uid": "d7c726f2-e80a-11e8-b1f1-65de97d74aa5",
4160                 "Varde": "false"
4161             },
4162             {
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4164                 "Uid": "d7c726f5-e80a-11e8-b1f1-65de97d74aa5",
4165                 "Varde": "grupp.for.utsokning.forutbildning"
4166             },
4167             {
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4171             },
4172             {
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4175                 "Varde": "true"
4176             },
4177             {
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4179                 "Uid": "d7c726f7-e80a-11e8-b1f1-65de97d74aa5",
4180                 "Varde": "false"
4181             },
4182             {
4183                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4184                 "Uid": "d7c726f4-e80a-11e8-b1f1-65de97d74aa5",
4185                 "Varde": "true"
4186             }
4187         ],
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4189     },
4190     "Sorteringsordning": 50,

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4193     "UtbildningstyperInomUtbildningstyp": []
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4195 {
4196     "AvserTillfalle": false,
4197     "Benamning": {
4198         "sv": "Modul utan omfattning",
4199         "en": "Module without scope"
4200     },
4201     "Beskrivning": {},
4202     "Dolt": false,
4203     "Giltighetsperiod": {},
4204     "Grundtyp": "MODUL",
4205     "ID": "101990",
4206     "Kod": "UPHPMUO",
4207     "LarosateID": -1,
4208     "Regelverk": {
4209         "Regelvarden": [
4210             {
4211                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
4212                 "Uid": "dc2eed51-e80a-11e8-b1f1-65de97d74aa5",
4213                 "Varde": "true"
4214             },
4215             {
4216                 "Regelnamn": "commons.domain.regel.sjalvstandig",
4217                 "Uid": "dc2eed4d-e80a-11e8-b1f1-65de97d74aa5",
4218                 "Varde": "false"
4219             },
4220             {
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4223                 "Varde": "true"
4224             },
4225             {
4226                 "Regelnamn": "commons.domain.regel.har.omfattning",
4227                 "Uid": "dc2eed4f-e80a-11e8-b1f1-65de97d74aa5",
4228                 "Varde": "false"
4229             },
4230             {
4231                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4232                 "Uid": "dc2eed50-e80a-11e8-b1f1-65de97d74aa5",
4233                 "Varde": "grupp.for.utsokning.uppdraagsutbildning"
4234             },
4235             {
4236                 "Regelnamn": "commons.domain.regel.versionshanteras",
4237                 "Uid": "dc2eed52-e80a-11e8-b1f1-65de97d74aa5",
4238                 "Varde": "false"
4239             }
4240         ],
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4244     "StudieordningID": 17,
4245     "TillfalleInomUtbildningstyper": [],
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4247 },
4248 {
4249     "AvserTillfalle": false,
4250     "Benamning": {
4251         "sv": "Modul",
4252         "en": "Module"
4253     },
4254     "Beskrivning": {},
4255     "Dolt": false,
4256     "Giltighetsperiod": {},
4257     "Grundtyp": "MODUL",
4258     "ID": "101991",
4259     "Kod": "UPHPMOD",
4260     "LarosateID": -1,
4261     "Regelverk": {
4262         "Regelvarden": [
4263             {
4264                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4265                 "Uid": "c7a86968-e80a-11e8-b1f1-65de97d74aa5",
4266                 "Varde": "true"
4267             },
4268             {
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4270                 "Uid": "c7a86965-e80a-11e8-b1f1-65de97d74aa5",
4271                 "Varde": "false"
4272             },
4273             {
4274                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
4275                 "Uid": "c7a86966-e80a-11e8-b1f1-65de97d74aa5",
4276                 "Varde": "true"
4277             },
4278             {
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4280                 "Uid": "c7a86967-e80a-11e8-b1f1-65de97d74aa5",
4281                 "Varde": "false"
4282             },
4283             {
4284                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4285                 "Uid": "c7a86969-e80a-11e8-b1f1-65de97d74aa5",
4286                 "Varde": "grupp.for.utsokning.uppdraagsutbildning"
4287             }
4288         ],
4289         "Uid": "855d0160-a800-11e6-b02f-d0cc883a47fa"
4290     },
4291     "Sorteringsordning": 50,
4292     "StudieordningID": 17,

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4293     "TillfalleInomUtbildningstyper": [],
4294     "UtbildningstyperInomUtbildningstyp": []
4295 },
4296 {
4297     "AvserTillfalle": false,
4298     "Benamning": {
4299         "sv": "Kurs, grundniv\u00e5",
4300         "en": "Course, First-cycle"
4301     },
4302     "Beskrivning": {},
4303     "Dolt": false,
4304     "Giltighetsperiod": {},
4305     "Grundtyp": "KURS",
4306     "ID": "101992",
4307     "Kod": "UPHPGKURS",
4308     "LarosateID": -1,
4309     "NivaInomStudieordningID": 1,
4310     "Regelverk": {
4311         "Regelvarden": [
4312             {
4313                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4314                 "Uid": "e3e124f6-e0dd-11ec-bb44-ad608ddd4f32",
4315                 "Varde": "true"
4316             },
4317             {
4318                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4319                 "Uid": "e3dfc563-e0dd-11ec-bb44-ad608ddd4f32",
4320                 "Varde": "grupp.for.utsokning.uppdagsutbildning"
4321             },
4322             {
4323                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
4324                 "Uid": "e3e124f9-e0dd-11ec-bb44-ad608ddd4f32",
4325                 "Varde": "true"
4326             },
4327             {
4328                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
4329                 "Uid": "e3e124f8-e0dd-11ec-bb44-ad608ddd4f32",
4330                 "Varde": "true"
4331             },
4332             {
4333                 "Regelnamn": "commons.domain.regel.avbrottsregel",
4334                 "Uid": "e3e124f7-e0dd-11ec-bb44-ad608ddd4f32",
4335                 "Varde": "20"
4336             },
4337             {
4338                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdagsutbildning",
4339                 "Uid": "e3e124f5-e0dd-11ec-bb44-ad608ddd4f32",
4340                 "Varde": "true"
4341             }
4342         ],
4343         "Uid": "ce0f1517-a800-11e6-b02f-d0cc883a47fa"

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4344     },
4345     "Sorteringsordning": 1,
4346     "StudieordningID": 17,
4347     "TillfalleInomUtbildningstyper": [],
4348     "UtbildningstyperInomUtbildningstyp": [
4349         101990,
4350         101991
4351     ]
4352 },
4353 {
4354     "AvserTillfalle": false,
4355     "Benamning": {
4356         "sv": "Kurs",
4357         "en": "Course"
4358     },
4359     "Beskrivning": {},
4360     "Dolt": false,
4361     "Giltighetsperiod": {},
4362     "Grundtyp": "KURS",
4363     "ID": "147909",
4364     "Kod": "UPTK19",
4365     "LarosateID": -1,
4366     "Regelverk": {
4367         "Regelvarden": [
4368             {
4369                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4370                 "Uid": "2c2f0226-1b2c-11e9-beb8-23b395e64549",
4371                 "Varde": "grupp.for.utsokning.uppdagsutbildning"
4372             },
4373             {
4374                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdagsutbildning",
4375                 "Uid": "2c2f0225-1b2c-11e9-beb8-23b395e64549",
4376                 "Varde": "true"
4377             }
4378         ],
4379         "Uid": "2c2f0224-1b2c-11e9-beb8-23b395e64549"
4380     },
4381     "Sorteringsordning": 50,
4382     "StudieordningID": 147898,
4383     "TillfalleInomUtbildningstyper": [],
4384     "UtbildningstyperInomUtbildningstyp": [
4385         147908
4386     ]
4387 },
4388 {
4389     "AvserTillfalle": true,
4390     "Benamning": {
4391         "sv": "Kurstillf\u00e4lle",
4392         "en": "Course instance"
4393     },
4394     "Beskrivning": {},

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4395     "Dolt": false,
4396     "Giltighetsperiod": {},
4397     "Grundtyp": "KURS",
4398     "ID": "147910",
4399     "Kod": "UPTKTF19",
4400     "LarosateID": -1,
4401     "Regelverk": {
4402       "Regelvarden": [
4403         {
4404           "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4405           "Uid": "d733e027-1b2d-11e9-beb8-23b395e64549",
4406           "Varde": "true"
4407         },
4408         {
4409           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4410           "Uid": "d733e029-1b2d-11e9-beb8-23b395e64549",
4411           "Varde": "grupp.for.utsokning.uppdraagsutbildning"
4412         },
4413         {
4414           "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
4415           "Uid": "d733e028-1b2d-11e9-beb8-23b395e64549",
4416           "Varde": "true"
4417         }
4418       ],
4419       "Uid": "d733e026-1b2d-11e9-beb8-23b395e64549"
4420     },
4421     "Sorteringsordning": 50,
4422     "StudieordningID": 147898,
4423     "TillfalleInomUtbildningstyper": [
4424       147909
4425     ],
4426     "UtbildningstyperInomUtbildningstyp": []
4427   },
4428   {
4429     "AvserTillfalle": true,
4430     "Benamning": {
4431       "sv": "Individuellt kurstillf\u00e4lle",
4432       "en": "Individual course instance"
4433     },
4434     "Beskrivning": {},
4435     "Dolt": false,
4436     "Giltighetsperiod": {},
4437     "Grundtyp": "KURS",
4438     "ID": "148155",
4439     "Kod": "FUPIKTF",
4440     "LarosateID": -1,
4441     "Regelverk": {
4442       "Regelvarden": [
4443         {
4444           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4445           "Uid": "2d7728e1-3a71-11e9-98c7-6e9130f64812",

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4446         "Varde": "grupp.for.utsokning.forutbildning"
4447     },
4448     {
4449         "Regelnamn": "commons.domain.regel.individuell",
4450         "Uid": "2d7728e2-3a71-11e9-98c7-6e9130f64812",
4451         "Varde": "true"
4452     },
4453     {
4454         "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
4455         "Uid": "2d7728e3-3a71-11e9-98c7-6e9130f64812",
4456         "Varde": "true"
4457     }
4458 ],
4459 "Uid": "749599b5-3a70-11e9-98c7-6e9130f64812"
4460 },
4461 "Sorteringsordning": 50,
4462 "StudieordningID": 3,
4463 "TillfalleInomUtbildningstyper": [
4464     101378
4465 ],
4466 "UtbildningstyperInomUtbildningstyp": []
4467 },
4468 {
4469     "AvserTillfalle": false,
4470     "Benamning": {
4471         "sv": "Modul utan angiven omfattning",
4472         "en": "Module without specified scope"
4473     },
4474     "Beskrivning": {},
4475     "Dolt": false,
4476     "Giltighetsperiod": {},
4477     "Grundtyp": "MODUL",
4478     "ID": "148452",
4479     "Kod": "2007MUA0",
4480     "LarosateID": -1,
4481     "Regelverk": {
4482         "Regelvarde": [
4483             {
4484                 "Regelnamn": "commons.domain.regel.ej.angiven.omfattning",
4485                 "Uid": "2515d819-67e9-11e9-9c79-28b64e4f47fe",
4486                 "Varde": "true"
4487             },
4488             {
4489                 "Regelnamn": "commons.domain.regel.sjalvstandig",
4490                 "Uid": "251a1dde-67e9-11e9-9c79-28b64e4f47fe",
4491                 "Varde": "false"
4492             },
4493             {
4494                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
4495                 "Uid": "251a1ddd-67e9-11e9-9c79-28b64e4f47fe",
4496                 "Varde": "true"

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4497     },
4498     {
4499         "Regelnamn": "commons.domain.regel.versionshanteras",
4500         "Uid": "251a1ddf-67e9-11e9-9c79-28b64e4f47fe",
4501         "Varde": "false"
4502     },
4503     {
4504         "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
4505         "Uid": "251a1ddc-67e9-11e9-9c79-28b64e4f47fe",
4506         "Varde": "true"
4507     },
4508     {
4509         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4510         "Uid": "251a1ddb-67e9-11e9-9c79-28b64e4f47fe",
4511         "Varde": "grupp.for.utsokning.forskarniva"
4512     }
4513 ],
4514 "Uid": "2515d818-67e9-11e9-9c79-28b64e4f47fe"
4515 },
4516 "Sorteringsordning": 50,
4517 "StudieordningID": 1,
4518 "TillfalleInomUtbildningstyper": [],
4519 "UtbildningstyperInomUtbildningstyp": []
4520 },
4521 {
4522     "AvserTillfalle": true,
4523     "Benamning": {
4524         "sv": "Individuellt kurstillf\u00e4lle, inresande",
4525         "en": "Individual course instance, incoming student"
4526     },
4527     "Beskrivning": {
4528         "sv": "Utbildningstypen motsvarar attributen i Individuellt kurstillf\u00e4lle - 2007IKTF, med
4529     },
4530     "Dolt": false,
4531     "Giltighetsperiod": {},
4532     "Grundtyp": "KURS",
4533     "ID": "148962",
4534     "Kod": "2007IKTFI",
4535     "LarosateID": -1,
4536     "Regelverk": {
4537         "Regelvarden": [
4538             {
4539                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4540                 "Uid": "e1e7b173-9d6b-11e9-b505-4ba9574641db",
4541                 "Varde": "grupp.for.utsokning.grundavanceradniva"
4542             },
4543             {
4544                 "Regelnamn": "commons.domain.regel.individuell",
4545                 "Uid": "e1e91104-9d6b-11e9-b505-4ba9574641db",
4546                 "Varde": "true"
4547             }

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4548     {
4549         "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
4550         "Uid": "e1e91105-9d6b-11e9-b505-4ba9574641db",
4551         "Varde": "true"
4552     },
4553     {
4554         "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
4555         "Uid": "e1e91106-9d6b-11e9-b505-4ba9574641db",
4556         "Varde": "true"
4557     }
4558 ],
4559 "Uid": "e1e7b172-9d6b-11e9-b505-4ba9574641db"
4560 },
4561 "Sorteringsordning": 50,
4562 "StudieordningID": 1,
4563 "TillfalleInomUtbildningstyper": [
4564     106390,
4565     101380
4566 ],
4567 "UtbildningstyperInomUtbildningstyp": []
4568 },
4569 {
4570     "AvserTillfalle": false,
4571     "Benamning": {
4572         "sv": "Kurspaket, forskarniv\u00e5",
4573         "en": "Course package, Third-cycle"
4574     },
4575     "Beskrivning": {},
4576     "Dolt": false,
4577     "Giltighetsperiod": {},
4578     "Grundtyp": "KURSPAKETERING",
4579     "ID": "151503",
4580     "Kod": "2007FAKP",
4581     "LarosateID": -1,
4582     "NivaInomStudieordningID": 3,
4583     "Regelverk": {
4584         "Regelvarden": [
4585             {
4586                 "Regelnamn": "commons.domain.regel.ar_kurspaket",
4587                 "Uid": "e3afd248-0505-11ee-b40a-f28ad46341da",
4588                 "Varde": "true"
4589             },
4590             {
4591                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
4592                 "Uid": "e3afd247-0505-11ee-b40a-f28ad46341da",
4593                 "Varde": "true"
4594             },
4595             {
4596                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4597                 "Uid": "e3afd246-0505-11ee-b40a-f28ad46341da",
4598                 "Varde": "grupp.for.utsokning.forskarniva"

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4599     }
4600   ],
4601   "Uid": "35def973-6f89-11eb-998b-eb07df7e45d0"
4602 },
4603 "Sorteringsordning": 50,
4604 "StudieordningID": 1,
4605 "TillfalleInomUtbildningstyper": [],
4606 "UtbildningstyperInomUtbildningstyp": [
4607   101952,
4608   101950,
4609   110915,
4610   101954
4611 ]
4612 },
4613 {
4614   "AvserTillfalle": true,
4615   "Benamning": {
4616     "sv": "Kurspaket tillf\u00e4lle, forskarniv\u00e5",
4617     "en": "Course package instance, Third-cycle"
4618   },
4619   "Beskrivning": {},
4620   "Dolt": false,
4621   "Giltighetsperiod": {},
4622   "Grundtyp": "KURSPAKETERING",
4623   "ID": "151504",
4624   "Kod": "2007FAKPTF",
4625   "LarosateID": -1,
4626   "Regelverk": {
4627     "Regelvarden": [
4628       {
4629         "Regelnamn": "commons.domain.regel.ar_kurspaket",
4630         "Uid": "20ba58ad-0506-11ee-b40a-f28ad46341da",
4631         "Varde": "true"
4632       },
4633       {
4634         "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
4635         "Uid": "20ba58ac-0506-11ee-b40a-f28ad46341da",
4636         "Varde": "true"
4637       },
4638       {
4639         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
4640         "Uid": "20ba58ab-0506-11ee-b40a-f28ad46341da",
4641         "Varde": "grupp.for.utsokning.forskarniva"
4642       }
4643     ],
4644     "Uid": "8831a6c3-6f89-11eb-998b-eb07df7e45d0"
4645   },
4646   "Sorteringsordning": 50,
4647   "StudieordningID": 1,
4648   "TillfalleInomUtbildningstyper": [
4649     151503

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4650     ],
4651     "UtbildningstyperInomUtbildningstyp": [
4652         101953,
4653         101951,
4654         107510,
4655         101952,
4656         101955,
4657         110915,
4658         101954
4659     ]
4660 },
4661 {
4662     "AvserTillfalle": false,
4663     "Benamning": {
4664         "sv": "Kurs",
4665         "en": "Course"
4666     },
4667     "Beskrivning": {},
4668     "Dolt": false,
4669     "Giltighetsperiod": {},
4670     "Grundtyp": "KURS",
4671     "ID": "161486",
4672     "Kod": "PISKURS",
4673     "LarosateID": -1,
4674     "Regelverk": {
4675         "Regelvarden": [
4676             {
4677                 "Regelnamn": "commons.domain.regel.har.omfattning",
4678                 "Uid": "9147212c-edeb-11ef-827b-ee188a544698",
4679                 "Varde": "true"
4680             },
4681             {
4682                 "Regelnamn": "commons.domain.regel.avbrottsregel",
4683                 "Uid": "9147212d-edeb-11ef-827b-ee188a544698",
4684                 "Varde": "15"
4685             },
4686             {
4687                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
4688                 "Uid": "9147212a-edeb-11ef-827b-ee188a544698",
4689                 "Varde": "true"
4690             },
4691             {
4692                 "Regelnamn": "commons.domain.regel.versionshanteras",
4693                 "Uid": "9147212b-edeb-11ef-827b-ee188a544698",
4694                 "Varde": "true"
4695             }
4696         ],
4697         "Uid": "5d93f8fe-e879-11ef-870b-0958b8b64637"
4698     },
4699     "Sorteringsordning": 50,
4700     "StudieordningID": 161480,

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4701     "TillfalleInomUtbildningstyper": [],
4702     "UtbildningstyperInomUtbildningstyp": [
4703         161528,
4704         161487
4705     ]
4706 },
4707 {
4708     "AvserTillfalle": false,
4709     "Benamning": {
4710         "sv": "Modul utan omfattning",
4711         "en": "Module without scope"
4712     },
4713     "Beskrivning": {},
4714     "Dolt": false,
4715     "Giltighetsperiod": {},
4716     "Grundtyp": "MODUL",
4717     "ID": "161487",
4718     "Kod": "PISMUO",
4719     "LarosateID": -1,
4720     "Regelverk": {
4721         "Regelvarden": [
4722             {
4723                 "Regelnamn": "commons.domain.regel.har.omfattning",
4724                 "Uid": "af65b621-e879-11ef-870b-0958b8b64637",
4725                 "Varde": "false"
4726             },
4727             {
4728                 "Regelnamn": "commons.domain.regel.versionshanteras",
4729                 "Uid": "af65b61f-e879-11ef-870b-0958b8b64637",
4730                 "Varde": "false"
4731             },
4732             {
4733                 "Regelnamn": "commons.domain.regel.sjalvstandig",
4734                 "Uid": "af65b620-e879-11ef-870b-0958b8b64637",
4735                 "Varde": "false"
4736             }
4737         ],
4738         "Uid": "af65b61e-e879-11ef-870b-0958b8b64637"
4739     },
4740     "Sorteringsordning": 50,
4741     "StudieordningID": 161480,
4742     "TillfalleInomUtbildningstyper": [],
4743     "UtbildningstyperInomUtbildningstyp": []
4744 },
4745 {
4746     "AvserTillfalle": true,
4747     "Benamning": {
4748         "sv": "Kurstillf\u00e4lle",
4749         "en": "Course instance"
4750     },
4751     "Beskrivning": {},

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4752     "Dolt": false,
4753     "Giltighetsperiod": {},
4754     "Grundtyp": "KURS",
4755     "ID": "161488",
4756     "Kod": "PISKTF",
4757     "LarosateID": -1,
4758     "Regelverk": {
4759         "Regelvarden": [],
4760         "UId": "fb3b5073-e879-11ef-870b-0958b8b64637"
4761     },
4762     "Sorteringsordning": 50,
4763     "StudieordningID": 161480,
4764     "TillfalleInomUtbildningstyper": [
4765         161486
4766     ],
4767     "UtbildningstyperInomUtbildningstyp": []
4768 },
4769 {
4770     "AvserTillfalle": false,
4771     "Benamning": {
4772         "sv": "Modul",
4773         "en": "Module"
4774     },
4775     "Beskrivning": {},
4776     "Dolt": false,
4777     "Giltighetsperiod": {},
4778     "Grundtyp": "MODUL",
4779     "ID": "161528",
4780     "Kod": "PISMOD",
4781     "LarosateID": -1,
4782     "Regelverk": {
4783         "Regelvarden": [
4784             {
4785                 "Regelnamn": "commons.domain.regel.versionshanteras",
4786                 "UId": "82a114c6-eddb-11ef-827b-ee188a544698",
4787                 "Varde": "false"
4788             },
4789             {
4790                 "Regelnamn": "commons.domain.regel.sjalvstandig",
4791                 "UId": "82a162e7-eddb-11ef-827b-ee188a544698",
4792                 "Varde": "false"
4793             },
4794             {
4795                 "Regelnamn": "commons.domain.regel.har.omfattning",
4796                 "UId": "82a162e8-eddb-11ef-827b-ee188a544698",
4797                 "Varde": "true"
4798             }
4799         ],
4800         "UId": "82a114c5-eddb-11ef-827b-ee188a544698"
4801     },
4802     "Sorteringsordning": 50,

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4803     "StudieordningID": 161480,
4804     "TillfalleInomUtbildningstyper": [],
4805     "UtbildningstyperInomUtbildningstyp": []
4806 },
4807 {
4808     "AvserTillfalle": false,
4809     "Benamning": {
4810         "sv": "Kurs",
4811         "en": "Course"
4812     },
4813     "Beskrivning": {},
4814     "Dolt": false,
4815     "Giltighetsperiod": {},
4816     "Grundtyp": "KURS",
4817     "ID": "162240",
4818     "Kod": "PIPTKURS",
4819     "LarosateID": -1,
4820     "Regelverk": {
4821         "Regelvarden": [
4822             {
4823                 "Regelnamn": "commons.domain.regel.avbrottsregel",
4824                 "Uid": "60541f95-3712-11f0-acdb-b265373e47d4",
4825                 "Varde": "15"
4826             },
4827             {
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4829                 "Uid": "60541f96-3712-11f0-acdb-b265373e47d4",
4830                 "Varde": "true"
4831             },
4832             {
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4834                 "Uid": "60541f98-3712-11f0-acdb-b265373e47d4",
4835                 "Varde": "true"
4836             },
4837             {
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4839                 "Uid": "60541f99-3712-11f0-acdb-b265373e47d4",
4840                 "Varde": "true"
4841             },
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4845                 "Varde": "true"
4846             }
4847         ],
4848         "Uid": "fbe2ecd6-3711-11f0-acdb-b265373e47d4"
4849     },
4850     "Sorteringsordning": 50,
4851     "StudieordningID": 162110,
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4853     "UtbildningstyperInomUtbildningstyp": [
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4854         162241
4855     ]
4856 },
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4860         "sv": "Modul",
4861         "en": "Module"
4862     },
4863     "Beskrivning": {},
4864     "Dolt": false,
4865     "Giltighetsperiod": {},
4866     "Grundtyp": "MODUL",
4867     "ID": "162241",
4868     "Kod": "PIPTMOD",
4869     "LarosateID": -1,
4870     "Regelverk": {
4871         "Regelvarden": [
4872             {
4873                 "Regelnamn": "commons.domain.regel.versionshanteras",
4874                 "Uid": "2f6b3787-3712-11f0-acdb-b265373e47d4",
4875                 "Varde": "false"
4876             },
4877             {
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4880                 "Varde": "true"
4881             },
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4885                 "Varde": "false"
4886             }
4887         ],
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4889     },
4890     "Sorteringsordning": 50,
4891     "StudieordningID": 162110,
4892     "TillfalleInomUtbildningstyper": [],
4893     "UtbildningstyperInomUtbildningstyp": []
4894 },
4895 {
4896     "AvserTillfalle": true,
4897     "Benamning": {
4898         "sv": "Kurstillf\u00e4lle",
4899         "en": "Course instance"
4900     },
4901     "Beskrivning": {},
4902     "Dolt": false,
4903     "Giltighetsperiod": {},
4904     "Grundtyp": "KURS",

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4911     },
4912     "Sorteringsordning": 50,
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4914     "TillfalleInomUtbildningstyper": [
4915         162240
4916     ],
4917     "UtbildningstyperInomUtbildningstyp": []
4918 },
4919 {
4920     "AvserTillfalle": false,
4921     "Benamning": {
4922         "sv": "Inriktning",
4923         "en": "Specialisation"
4924     },
4925     "Beskrivning": {},
4926     "Dolt": false,
4927     "Giltighetsperiod": {},
4928     "Grundtyp": "KURSPAKETERING",
4929     "ID": "101270",
4930     "Kod": "2007INR",
4931     "LarosateID": -1,
4932     "Regelverk": {
4933         "Regelvarden": [
4934             {
4935                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
4936                 "UId": "0b529b0b-e80a-11e8-b1f1-65de97d74aa5",
4937                 "Varde": "true"
4938             },
4939             {
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4941                 "UId": "0b529b0a-e80a-11e8-b1f1-65de97d74aa5",
4942                 "Varde": "true"
4943             },
4944             {
4945                 "Regelnamn": "commons.domain.regel.sjalvstandig",
4946                 "UId": "0b529b08-e80a-11e8-b1f1-65de97d74aa5",
4947                 "Varde": "false"
4948             },
4949             {
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4951                 "UId": "0b529b09-e80a-11e8-b1f1-65de97d74aa5",
4952                 "Varde": "grupp.for.utsokning.grundavanceradniva"
4953             }
4954         ],
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4961         101291,
4962         22,
4963         24,
4964         101375
4965     ]
4966 },
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4971         "en": "Specialisation instance"
4972     },
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4974     "Dolt": false,
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4978     "Kod": "2007INRTF",
4979     "LarosateID": -1,
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4985                 "Varde": "true"
4986             },
4987             {
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4990                 "Varde": "grupp.for.utsokning.grundavanceradniva"
4991             },
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4996             }
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5004     ],
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5006         101291,

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5007         105632,
5008         52,
5009         22,
5010         101382,
5011         101381,
5012         152635,
5013         152633,
5014         101375,
5015         101374,
5016         101292,
5017         101377,
5018         24,
5019         152634
5020     ]
5021 },
5022 {
5023     "AvserTillfalle": false,
5024     "Benamning": {
5025         "sv": "Kurspaket",
5026         "en": "Course package"
5027     },
5028     "Beskrivning": {},
5029     "Dolt": false,
5030     "Giltighetsperiod": {},
5031     "Grundtyp": "KURSPAKETERING",
5032     "ID": "101291",
5033     "Kod": "2007KP",
5034     "LarosateID": -1,
5035     "Regelverk": {
5036         "Regelvarden": [
5037             {
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5040                 "Varde": "true"
5041             },
5042             {
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5046             },
5047             {
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5050                 "Varde": "grupp.for.utsokning.grundavanceradniva"
5051             }
5052         ],
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5054     },
5055     "Sorteringsordning": 5,
5056     "StudieordningID": 1,
5057     "TillfalleInomUtbildningstyper": [],

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5059         22,
5060         24
5061     ]
5062 },
5063 {
5064     "AvserTillfalle": true,
5065     "Benamning": {
5066         "sv": "Kurspakettillf\u00e4lle",
5067         "en": "Course package instance"
5068     },
5069     "Beskrivning": {},
5070     "Dolt": false,
5071     "Giltighetsperiod": {},
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5077         "Regelvarden": [
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5081                 "Varde": "true"
5082             },
5083             {
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5086                 "Varde": "true"
5087             },
5088             {
5089                 "Regelnamn": "commons.domain.regel.informationsbehorighet.grundavancerad",
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5091                 "Varde": "true"
5092             },
5093             {
5094                 "Regelnamn": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",
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5096                 "Varde": "varning"
5097             },
5098             {
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5101                 "Varde": "grupp.for.utsokning.grundavanceradniva"
5102             }
5103         ],
5104         "Uid": "0019a8ab-4c22-11e7-8c70-788c557b416a"
5105     },
5106     "Sorteringsordning": 50,
5107     "StudieordningID": 1,
5108     "TillfalleInomUtbildningstyper": [

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5110     ],
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5112         52,
5113         22,
5114         101381,
5115         24
5116     ]
5117 },
5118 {
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5121         "sv": "Kurs, grundutbildning",
5122         "en": "Course, Undergraduate"
5123     },
5124     "Beskrivning": {},
5125     "Dolt": false,
5126     "Giltighetsperiod": {},
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5128     "ID": "101370",
5129     "Kod": "1993GKURS",
5130     "LarosateID": -1,
5131     "NivaInomStudieordningID": 4,
5132     "Regelverk": {
5133         "Regelvarden": [
5134             {
5135                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
5136                 "Uid": "63db66ad-e80a-11e8-b1f1-65de97d74aa5",
5137                 "Varde": "true"
5138             },
5139             {
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5141                 "Uid": "63db66af-e80a-11e8-b1f1-65de97d74aa5",
5142                 "Varde": "20"
5143             },
5144             {
5145                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
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5147                 "Varde": "grupp.for.utsokning.grundavanceradniva"
5148             }
5149         ],
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5151     },
5152     "Sorteringsordning": 1,
5153     "StudieordningID": 2,
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5156         101371
5157     ]
5158 },
5159 {

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5162         "sv": "Modul",
5163         "en": "Module"
5164     },
5165     "Beskrivning": {},
5166     "Dolt": false,
5167     "Giltighetsperiod": {},
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5169     "ID": "101371",
5170     "Kod": "1993MOD",
5171     "LarosateID": -1,
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5176                 "UId": "af4dac07-e80a-11e8-b1f1-65de97d74aa5",
5177                 "Varde": "true"
5178             },
5179             {
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5181                 "UId": "af4dac0a-e80a-11e8-b1f1-65de97d74aa5",
5182                 "Varde": "false"
5183             },
5184             {
5185                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5186                 "UId": "af4dac08-e80a-11e8-b1f1-65de97d74aa5",
5187                 "Varde": "grupp.for.utsokning.grundavanceradniva"
5188             },
5189             {
5190                 "Regelnamn": "commons.domain.regel.sjalvstandig",
5191                 "UId": "af4dac09-e80a-11e8-b1f1-65de97d74aa5",
5192                 "Varde": "false"
5193             }
5194         ],
5195         "UId": "9babbd6c-7a4e-11e6-8419-0812bb95460f"
5196     },
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5199     "TillfalleInomUtbildningstyper": [],
5200     "UtbildningstyperInomUtbildningstyp": []
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5206         "en": "Programme"
5207     },
5208     "Beskrivning": {},
5209     "Dolt": false,
5210     "Giltighetsperiod": {},

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5216     "Regelverk": {
5217         "Regelvarden": [
5218             {
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5220                 "Uid": "72b85ff8-e80b-11e8-b1f1-65de97d74aa5",
5221                 "Varde": "grupp.for.utsokning.grundavanceradniva"
5222             },
5223             {
5224                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
5225                 "Uid": "72b85ff9-e80b-11e8-b1f1-65de97d74aa5",
5226                 "Varde": "true"
5227             }
5228         ],
5229         "Uid": "a6c1681c-ec5f-11e6-8a84-352cf9f6431e"
5230     },
5231     "Sorteringsordning": 4,
5232     "StudieordningID": 2,
5233     "TillfalleInomUtbildningstyper": [],
5234     "UtbildningstyperInomUtbildningstyp": [
5235         101960
5236     ]
5237 },
5238 {
5239     "AvserTillfalle": false,
5240     "Benamning": {
5241         "sv": "Modul",
5242         "en": "Module"
5243     },
5244     "Beskrivning": {},
5245     "Dolt": false,
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5248     "ID": "102001",
5249     "Kod": "UPTMOD",
5250     "LarosateID": -1,
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5252         "Regelvarden": [
5253             {
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5256                 "Varde": "false"
5257             },
5258             {
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5260                 "Uid": "cb08d253-e80a-11e8-b1f1-65de97d74aa5",
5261                 "Varde": "false"

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5265 },
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5267 "StudieordningID": 9,
5268 "TillfalleInomUtbildningstyper": [],
5269 "UtbildningstyperInomUtbildningstyp": []
5270 },
5271 {
5272   "AvserTillfalle": true,
5273   "Benamning": {
5274     "sv": "Kurstillf\u00e4lle",
5275     "en": "Course instance"
5276   },
5277   "Beskrivning": {},
5278   "Dolt": false,
5279   "Giltighetsperiod": {},
5280   "Grundtyp": "KURS",
5281   "ID": "102002",
5282   "Kod": "UPTKTF",
5283   "LarosateID": -1,
5284   "Regelverk": {
5285     "Regelvarden": [],
5286     "Uid": "98399ea8-e80a-11e8-b1f1-65de97d74aa5"
5287   },
5288   "Sorteringsordning": 50,
5289   "StudieordningID": 9,
5290   "TillfalleInomUtbildningstyper": [
5291     102000
5292   ],
5293   "UtbildningstyperInomUtbildningstyp": []
5294 },
5295 {
5296   "AvserTillfalle": false,
5297   "Benamning": {
5298     "sv": "Modul",
5299     "en": "Module"
5300   },
5301   "Beskrivning": {},
5302   "Dolt": false,
5303   "Giltighetsperiod": {},
5304   "Grundtyp": "MODUL",
5305   "ID": "102003",
5306   "Kod": "PREPMOD",
5307   "LarosateID": -1,
5308   "Regelverk": {
5309     "Regelvarden": [
5310       {
5311         "Regelnamn": "commons.domain.regel.versionshanterars",
5312         "Uid": "c2b8d4ae-e80a-11e8-b1f1-65de97d74aa5",

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5313         "Varde": "false"
5314     },
5315     {
5316         "Regelnamn": "commons.domain.regel.sjalvstandig",
5317         "Uid": "c2b8d4af-e80a-11e8-b1f1-65de97d74aa5",
5318         "Varde": "false"
5319     }
5320 ],
5321 "Uid": "2232e7df-a820-11e6-b02f-d0cc883a47fa"
5322 },
5323 "Sorteringsordning": 50,
5324 "StudieordningID": 14,
5325 "TillfalleInomUtbildningstyper": [],
5326 "UtbildningstyperInomUtbildningstyp": []
5327 },
5328 {
5329     "AvserTillfalle": false,
5330     "Benamning": {
5331         "sv": "Kurs",
5332         "en": "Course"
5333     },
5334     "Beskrivning": {},
5335     "Dolt": false,
5336     "Giltighetsperiod": {},
5337     "Grundtyp": "KURS",
5338     "ID": "102004",
5339     "Kod": "PREPKURS",
5340     "LarosateID": -1,
5341     "Regelverk": {
5342         "Regelvarden": [],
5343         "Uid": "60528818-a820-11e6-b02f-d0cc883a47fa"
5344     },
5345     "Sorteringsordning": 1,
5346     "StudieordningID": 14,
5347     "TillfalleInomUtbildningstyper": [],
5348     "UtbildningstyperInomUtbildningstyp": [
5349         102003
5350     ]
5351 },
5352 {
5353     "AvserTillfalle": true,
5354     "Benamning": {
5355         "sv": "Kurstillf\u00e4lle",
5356         "en": "Course instance"
5357     },
5358     "Beskrivning": {},
5359     "Dolt": false,
5360     "Giltighetsperiod": {},
5361     "Grundtyp": "KURS",
5362     "ID": "102005",
5363     "Kod": "PREPKTF",

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5368     },
5369     "Sorteringsordning": 50,
5370     "StudieordningID": 14,
5371     "TillfalleInomUtbildningstyper": [
5372         102004
5373     ],
5374     "UtbildningstyperInomUtbildningstyp": []
5375 },
5376 {
5377     "AvserTillfalle": false,
5378     "Benamning": {
5379         "sv": "Kurs",
5380         "en": "Course"
5381     },
5382     "Beskrivning": {},
5383     "Dolt": false,
5384     "Giltighetsperiod": {},
5385     "Grundtyp": "KURS",
5386     "ID": "102006",
5387     "Kod": "UPVKURS",
5388     "LarosateID": -1,
5389     "Regelverk": {
5390         "Regelvarden": [
5391             {
5392                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
5393                 "Uid": "2f028b09-e0de-11ec-bb44-ad608ddd4f32",
5394                 "Varde": "true"
5395             },
5396             {
5397                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5398                 "Uid": "2f028b07-e0de-11ec-bb44-ad608ddd4f32",
5399                 "Varde": "grupp.for.utsokning.uppdagsutbildning"
5400             },
5401             {
5402                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdagsutbildning",
5403                 "Uid": "2f028b08-e0de-11ec-bb44-ad608ddd4f32",
5404                 "Varde": "true"
5405             },
5406             {
5407                 "Regelnamn": "commons.domain.regel.kan_ha_litteraturlista",
5408                 "Uid": "2f028b0a-e0de-11ec-bb44-ad608ddd4f32",
5409                 "Varde": "true"
5410             }
5411         ],
5412         "Uid": "c17b77bd-a821-11e6-b02f-d0cc883a47fa"
5413     },
5414     "Sorteringsordning": 1,

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5415     "StudieordningID": 18,
5416     "TillfalleInomUtbildningstyper": [],
5417     "UtbildningstyperInomUtbildningstyp": [
5418         102007
5419     ]
5420 },
5421 {
5422     "AvserTillfalle": false,
5423     "Benamning": {
5424         "sv": "Modul",
5425         "en": "Module"
5426     },
5427     "Beskrivning": {},
5428     "Dolt": false,
5429     "Giltighetsperiod": {},
5430     "Grundtyp": "MODUL",
5431     "ID": "102007",
5432     "Kod": "UPVMOD",
5433     "LarosateID": -1,
5434     "Regelverk": {
5435         "Regelvarden": [
5436             {
5437                 "Regelnamn": "commons.domain.regel.versionshanteras",
5438                 "Uid": "cd8c219e-e80a-11e8-b1f1-65de97d74aa5",
5439                 "Varde": "false"
5440             },
5441             {
5442                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5443                 "Uid": "cd8c21a0-e80a-11e8-b1f1-65de97d74aa5",
5444                 "Varde": "grupp.for.utsokning.uppdraagsutbildning"
5445             },
5446             {
5447                 "Regelnamn": "commons.domain.regel.sjalvstandig",
5448                 "Uid": "cd8c219f-e80a-11e8-b1f1-65de97d74aa5",
5449                 "Varde": "false"
5450             },
5451             {
5452                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdraagsutbildning",
5453                 "Uid": "cd8c21a1-e80a-11e8-b1f1-65de97d74aa5",
5454                 "Varde": "true"
5455             }
5456         ],
5457         "Uid": "4ab37285-a821-11e6-b02f-d0cc883a47fa"
5458     },
5459     "Sorteringsordning": 50,
5460     "StudieordningID": 18,
5461     "TillfalleInomUtbildningstyper": [],
5462     "UtbildningstyperInomUtbildningstyp": []
5463 },
5464 {
5465     "AvserTillfalle": false,

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5466     "Benamning": {
5467         "sv": "Program",
5468         "en": "Programme"
5469     },
5470     "Beskrivning": {},
5471     "Dolt": false,
5472     "Giltighetsperiod": {},
5473     "Grundtyp": "KURSPAKETERING",
5474     "ID": "102070",
5475     "Kod": "FUVPRG",
5476     "LarosateID": -1,
5477     "Regelverk": {
5478         "Regelvarde": [
5479             {
5480                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",
5481                 "Uid": "ff179600-e0de-11ec-bb44-ad608ddd4f32",
5482                 "Varde": "true"
5483             },
5484             {
5485                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5486                 "Uid": "ff1795fd-e0de-11ec-bb44-ad608ddd4f32",
5487                 "Varde": "grupp.for.utsokning.forutbildning"
5488             },
5489             {
5490                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
5491                 "Uid": "ff1795ff-e0de-11ec-bb44-ad608ddd4f32",
5492                 "Varde": "true"
5493             },
5494             {
5495                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
5496                 "Uid": "ff1795fe-e0de-11ec-bb44-ad608ddd4f32",
5497                 "Varde": "true"
5498             }
5499         ],
5500         "Uid": "56914cc6-ec5f-11e6-8a84-352cf9f6431e"
5501     },
5502     "Sorteringsordning": 4,
5503     "StudieordningID": 4,
5504     "TillfalleInomUtbildningstyper": [],
5505     "UtbildningstyperInomUtbildningstyp": [
5506         22,
5507         102009,
5508         102072
5509     ]
5510 },
5511 {
5512     "AvserTillfalle": true,
5513     "Benamning": {
5514         "sv": "Programtillf\u00e4lle",
5515         "en": "Programme instance"
5516     },

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5517     "Beskrivning": {},
5518     "Dolt": false,
5519     "Giltighetsperiod": {},
5520     "Grundtyp": "KURSPAKETERING",
5521     "ID": "102071",
5522     "Kod": "FUVPRGTF",
5523     "LarosateID": -1,
5524     "Regelverk": {
5525         "Regelvarden": [
5526             {
5527                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5528                 "UId": "4562665e-b804-11ed-8cb2-324fb1124949",
5529                 "Varde": "grupp.for.utsokning.forutbildning"
5530             },
5531             {
5532                 "Regelnamn": "commons.domain.regel.kan.utannonseras",
5533                 "UId": "45626661-b804-11ed-8cb2-324fb1124949",
5534                 "Varde": "true"
5535             },
5536             {
5537                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
5538                 "UId": "4562665f-b804-11ed-8cb2-324fb1124949",
5539                 "Varde": "true"
5540             },
5541             {
5542                 "Regelnamn": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",
5543                 "UId": "45626662-b804-11ed-8cb2-324fb1124949",
5544                 "Varde": "varning"
5545             },
5546             {
5547                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
5548                 "UId": "45626660-b804-11ed-8cb2-324fb1124949",
5549                 "Varde": "true"
5550             }
5551         ],
5552         "UId": "0060eaf7-4c22-11e7-8c70-788c557b416a"
5553     },
5554     "Sorteringsordning": 50,
5555     "StudieordningID": 4,
5556     "TillfalleInomUtbildningstyper": [
5557         102070
5558     ],
5559     "UtbildningstyperInomUtbildningstyp": [
5560         52,
5561         22,
5562         102011,
5563         102073,
5564         102009,
5565         102072
5566     ]
5567 },

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5568     {
5569         "AvserTillfalle": false,
5570         "Benamning": {
5571             "sv": "Inriktning",
5572             "en": "Specialisation"
5573         },
5574         "Beskrivning": {},
5575         "Dolt": false,
5576         "Giltighetsperiod": {},
5577         "Grundtyp": "KURSPAKETERING",
5578         "ID": "102072",
5579         "Kod": "FUVINR",
5580         "LarosateID": -1,
5581         "Regelverk": {
5582             "Regelvarden": [
5583                 {
5584                     "Regelnamn": "commons.domain.regel.sjalvstandig",
5585                     "Uid": "31ef0a8c-c4d8-11e9-ae13-dc75864a44bd",
5586                     "Varde": "false"
5587                 },
5588                 {
5589                     "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5590                     "Uid": "31ef0a89-c4d8-11e9-ae13-dc75864a44bd",
5591                     "Varde": "grupp.for.utsokning.forutbildning"
5592                 },
5593                 {
5594                     "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
5595                     "Uid": "31ef0a8b-c4d8-11e9-ae13-dc75864a44bd",
5596                     "Varde": "true"
5597                 },
5598                 {
5599                     "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
5600                     "Uid": "31ef0a8a-c4d8-11e9-ae13-dc75864a44bd",
5601                     "Varde": "true"
5602                 }
5603             ],
5604             "Uid": "c49ecb36-b097-11e6-8b31-75fe98e9451b"
5605         },
5606         "Sorteringsordning": 50,
5607         "StudieordningID": 4,
5608         "TillfalleInomUtbildningstyper": [],
5609         "UtbildningstyperInomUtbildningstyp": [
5610             22,
5611             102009
5612         ]
5613     },
5614     {
5615         "AvserTillfalle": true,
5616         "Benamning": {
5617             "sv": "Inriktningstillf\u00e4lle",
5618             "en": "Specialisation instance"

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5619 },
5620 "Beskrivning": {},
5621 "Dolt": false,
5622 "Giltighetsperiod": {},
5623 "Grundtyp": "KURSPAKETERING",
5624 "ID": "102073",
5625 "Kod": "FUVINRTF",
5626 "LarosateID": -1,
5627 "Regelverk": {
5628   "Regelvarden": [
5629     {
5630       "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
5631       "Uid": "d042ceed-c4d8-11e9-ae13-dc75864a44bd",
5632       "Varde": "true"
5633     },
5634     {
5635       "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
5636       "Uid": "d042ceec-c4d8-11e9-ae13-dc75864a44bd",
5637       "Varde": "true"
5638     },
5639     {
5640       "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5641       "Uid": "d042ceeb-c4d8-11e9-ae13-dc75864a44bd",
5642       "Varde": "grupp.for.utsokning.forutbildning"
5643     }
5644   ],
5645   "Uid": "3d290b1f-8d66-11e7-ab6f-ced203c74a20"
5646 },
5647 "Sorteringsordning": 50,
5648 "StudieordningID": 4,
5649 "TillfalleInomUtbildningstyper": [
5650   102072
5651 ],
5652 "UtbildningstyperInomUtbildningstyp": [
5653   52,
5654   22,
5655   102011,
5656   102009
5657 ]
5658 },
5659 {
5660   "AvserTillfalle": false,
5661   "Benamning": {
5662     "sv": "Utbytes\u00e5tagande, utresande",
5663     "en": "Exchange load, outgoing student"
5664   },
5665   "Beskrivning": {},
5666   "Dolt": false,
5667   "Giltighetsperiod": {},
5668   "Grundtyp": "KURS",
5669   "ID": "103210",

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5670     "Kod": "1993UAT",
5671     "LarosateID": -1,
5672     "NivaInomStudieordningID": 4,
5673     "Regelverk": {
5674         "Regelvarden": [
5675             {
5676                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
5677                 "Uid": "3086e12f-e80b-11e8-b1f1-65de97d74aa5",
5678                 "Varde": "true"
5679             },
5680             {
5681                 "Regelnamn": "commons.domain.regel.resultat",
5682                 "Uid": "3086e12e-e80b-11e8-b1f1-65de97d74aa5",
5683                 "Varde": "false"
5684             },
5685             {
5686                 "Regelnamn": "commons.domain.regel.avbrottsregel",
5687                 "Uid": "3086e12b-e80b-11e8-b1f1-65de97d74aa5",
5688                 "Varde": "20"
5689             },
5690             {
5691                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
5692                 "Uid": "3086e12d-e80b-11e8-b1f1-65de97d74aa5",
5693                 "Varde": "true"
5694             },
5695             {
5696                 "Regelnamn": "commons.domain.regel.versionshanteras",
5697                 "Uid": "3086e12a-e80b-11e8-b1f1-65de97d74aa5",
5698                 "Varde": "false"
5699             },
5700             {
5701                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5702                 "Uid": "3086e12c-e80b-11e8-b1f1-65de97d74aa5",
5703                 "Varde": "grupp.for.utsokning.grundavanceradniva"
5704             }
5705         ],
5706         "Uid": "970d435e-df08-11e6-a087-d9bc48df4ffb"
5707     },
5708     "Sorteringsordning": 11,
5709     "StudieordningID": 2,
5710     "TillfalleInomUtbildningstyper": [],
5711     "UtbildningstyperInomUtbildningstyp": []
5712 },
5713 {
5714     "AvserTillfalle": true,
5715     "Benamning": {
5716         "sv": "Individuellt tillf\u00e4lle f\u00f6r utbytes\u00e5tagande, utresande",
5717         "en": "Individual exchange load instance, outgoing student"
5718     },
5719     "Beskrivning": {},
5720     "Dolt": false,

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5721     "Giltighetsperiod": {},
5722     "Grundtyp": "KURS",
5723     "ID": "103211",
5724     "Kod": "1993UATTF",
5725     "LarosateID": -1,
5726     "Regelverk": {
5727         "Regelvarden": [
5728             {
5729                 "Regelnamn": "commons.domain.regel.individuell",
5730                 "Uid": "fd7baaa2-e809-11e8-b1f1-65de97d74aa5",
5731                 "Varde": "true"
5732             },
5733             {
5734                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
5735                 "Uid": "fd7baaa1-e809-11e8-b1f1-65de97d74aa5",
5736                 "Varde": "true"
5737             },
5738             {
5739                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
5740                 "Uid": "fd7baaa3-e809-11e8-b1f1-65de97d74aa5",
5741                 "Varde": "true"
5742             },
5743             {
5744                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5745                 "Uid": "fd7baaa0-e809-11e8-b1f1-65de97d74aa5",
5746                 "Varde": "grupp.for.utsokning.grundavanceradniva"
5747             }
5748         ],
5749         "Uid": "612e1b35-df09-11e6-a087-d9bc48df4ffb"
5750     },
5751     "Sorteringsordning": 50,
5752     "StudieordningID": 2,
5753     "TillfalleInomUtbildningstyper": [
5754         103210
5755     ],
5756     "UtbildningstyperInomUtbildningstyp": [],
5757 },
5758 {
5759     "AvserTillfalle": false,
5760     "Benamning": {
5761         "sv": "Individuellt utbytes\u00e5tagande, utresande",
5762         "en": "Individual exchange load, outgoing student"
5763     },
5764     "Beskrivning": {},
5765     "Dolt": false,
5766     "Giltighetsperiod": {},
5767     "Grundtyp": "KURS",
5768     "ID": "104308",
5769     "Kod": "2007IUAT",
5770     "LarosateID": -1,
5771     "Regelverk": {

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5772     "Regelvarden": [
5773         {
5774             "Regelnamn": "commons.domain.regel.resultat",
5775             "Uid": "d658ffcc-ee3e-11e8-9270-17395ad8480f",
5776             "Varde": "false"
5777         },
5778         {
5779             "Regelnamn": "commons.domain.regel.individuell",
5780             "Uid": "d658ffc9-ee3e-11e8-9270-17395ad8480f",
5781             "Varde": "true"
5782         },
5783         {
5784             "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5785             "Uid": "d658ffca-ee3e-11e8-9270-17395ad8480f",
5786             "Varde": "grupp.for.utsokning.grundavanceradniva"
5787         },
5788         {
5789             "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
5790             "Uid": "d658ffc8-ee3e-11e8-9270-17395ad8480f",
5791             "Varde": "true"
5792         },
5793         {
5794             "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
5795             "Uid": "d658ffc7-ee3e-11e8-9270-17395ad8480f",
5796             "Varde": "true"
5797         },
5798         {
5799             "Regelnamn": "commons.domain.regel.avbrottsregel",
5800             "Uid": "d658ffc6-ee3e-11e8-9270-17395ad8480f",
5801             "Varde": "20"
5802         },
5803         {
5804             "Regelnamn": "commons.domain.regel.versionshanteras",
5805             "Uid": "d658ffcb-ee3e-11e8-9270-17395ad8480f",
5806             "Varde": "false"
5807         }
5808     ],
5809     "Uid": "c587e866-0da6-11e7-b8b0-4d9918684924"
5810 },
5811 "Sorteringsordning": 12,
5812 "StudieordningID": 1,
5813 "TillfalleInomUtbildningstyper": [],
5814 "UtbildningstyperInomUtbildningstyp": []
5815 },
5816 {
5817     "AvserTillfalle": true,
5818     "Benamning": {
5819         "sv": "YH-utbildningstillf\u00e4lle",
5820         "en": "HVE programme instance"
5821     },
5822     "Beskrivning": {},

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5823     "Dolt": false,
5824     "Giltighetsperiod": {},
5825     "Grundtyp": "KURSPAKETERING",
5826     "ID": "109979",
5827     "Kod": "YHUTBTF",
5828     "LarosateID": -1,
5829     "Regelverk": {
5830       "Regelvarden": [
5831         {
5832           "Regelnamn": "commons.domain.regel.informationsbehorighet.yh.utbildning",
5833           "Uid": "2956f8e0-e80b-11e8-b1f1-65de97d74aa5",
5834           "Varde": "true"
5835         },
5836         {
5837           "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5838           "Uid": "2956f8df-e80b-11e8-b1f1-65de97d74aa5",
5839           "Varde": "grupp.for.utsokning.yhutbildning"
5840         }
5841       ],
5842       "Uid": "2b7549c4-99fa-11e7-953e-c08a46b0419e"
5843     },
5844     "Sorteringsordning": 50,
5845     "StudieordningID": 5,
5846     "TillfalleInomUtbildningstyper": [
5847       109977
5848     ],
5849     "UtbildningstyperInomUtbildningstyp": [
5850       109978,
5851       109980
5852     ]
5853   },
5854   {
5855     "AvserTillfalle": true,
5856     "Benamning": {
5857       "sv": "Kurstillf\u00e4lle",
5858       "en": "Course instance"
5859     },
5860     "Beskrivning": {},
5861     "Dolt": false,
5862     "Giltighetsperiod": {},
5863     "Grundtyp": "KURS",
5864     "ID": "109980",
5865     "Kod": "YHKTF",
5866     "LarosateID": -1,
5867     "Regelverk": {
5868       "Regelvarden": [
5869         {
5870           "Regelnamn": "commons.domain.regel.informationsbehorighet.yh.utbildning",
5871           "Uid": "a2670e8c-e80a-11e8-b1f1-65de97d74aa5",
5872           "Varde": "true"
5873         },

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5874         {
5875             "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5876             "Uid": "a2670e8d-e80a-11e8-b1f1-65de97d74aa5",
5877             "Varde": "grupp.for.utsokning.yhutbildning"
5878         }
5879     ],
5880     "Uid": "7eb84ace-99fa-11e7-953e-c08a46b0419e"
5881 },
5882 "Sorteringsordning": 50,
5883 "StudieordningID": 5,
5884 "TillfalleInomUtbildningstyper": [
5885     109978
5886 ],
5887 "UtbildningstyperInomUtbildningstyp": []
5888 },
5889 {
5890     "AvserTillfalle": false,
5891     "Benamning": {
5892         "sv": "Forskningsarbete (utan angiven omfattning)",
5893         "en": "Research project (scope not specified)"
5894     },
5895     "Beskrivning": {
5896         "sv": "Vetenskaplig avhandling (doktorsavhandling), vetenskaplig uppsats (f\u00f6r licentiatexa)"
5897     },
5898     "Dolt": false,
5899     "Giltighetsperiod": {},
5900     "Grundtyp": "KURS",
5901     "ID": "110915",
5902     "Kod": "2007VFUO",
5903     "LarosateID": -1,
5904     "NivaInomStudieordningID": 3,
5905     "Regelverk": {
5906         "Regelvarden": [
5907             {
5908                 "Regelnamn": "commons.domain.regel.ej.angiven.omfattning",
5909                 "Uid": "0af48cf3-3338-11f1-ab15-04f548f14dbc",
5910                 "Varde": "true"
5911             },
5912             {
5913                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forskarutbildning",
5914                 "Uid": "0af48cf5-3338-11f1-ab15-04f548f14dbc",
5915                 "Varde": "true"
5916             },
5917             {
5918                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5919                 "Uid": "0af48cf4-3338-11f1-ab15-04f548f14dbc",
5920                 "Varde": "grupp.for.utsokning.forskarniva"
5921             },
5922             {
5923                 "Regelnamn": "commons.domain.regel.dokumentera_beslut_om_resultat",
5924                 "Uid": "0af48cf2-3338-11f1-ab15-04f548f14dbc",

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5925         "Varde": "true"
5926     }
5927 ],
5928     "UId": "54c2afff-a47a-11e7-bf04-233ed8ff4123"
5929 },
5930     "Sorteringsordning": 8,
5931     "StudieordningID": 1,
5932     "TillfalleInomUtbildningstyper": [],
5933     "UtbildningstyperInomUtbildningstyp": [
5934         3,
5935         148452
5936     ]
5937 },
5938 {
5939     "AvserTillfalle": true,
5940     "Benamning": {
5941         "sv": "Tillf\u00e4lle f\u00f6r utbytes\u00e5tagande, utresande",
5942         "en": "Exchange load instance, outgoing student"
5943     },
5944     "Beskrivning": {},
5945     "Dolt": false,
5946     "Giltighetsperiod": {},
5947     "Grundtyp": "KURS",
5948     "ID": "117019",
5949     "Kod": "2007UATTFR",
5950     "LarosateID": -1,
5951     "Regelverk": {
5952         "Regelvarden": [
5953             {
5954                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
5955                 "UId": "35dd35f0-ee3f-11e8-9270-17395ad8480f",
5956                 "Varde": "grupp.for.utsokning.grundavanceradniva"
5957             },
5958             {
5959                 "Regelnamn": "commons.domain.regel.informationsbehorighet.utbytesstudier",
5960                 "UId": "35dd35f1-ee3f-11e8-9270-17395ad8480f",
5961                 "Varde": "true"
5962             },
5963             {
5964                 "Regelnamn": "commons.domain.regel.grupp.overfors.nya.endast.som.merit",
5965                 "UId": "35dd35f2-ee3f-11e8-9270-17395ad8480f",
5966                 "Varde": "true"
5967             }
5968         ],
5969         "UId": "e83f58b0-cbc9-11e7-b2fe-0c4a35a84a9e"
5970     },
5971     "Sorteringsordning": 12,
5972     "StudieordningID": 1,
5973     "TillfalleInomUtbildningstyper": [
5974         101730
5975     ],

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5976     "UtbildningstyperInomUtbildningstyp": []
5977 },
5978 {
5979     "AvserTillfalle": false,
5980     "Benamning": {
5981         "sv": "Program",
5982         "en": "Programme"
5983     },
5984     "Beskrivning": {},
5985     "Dolt": false,
5986     "Giltighetsperiod": {},
5987     "Grundtyp": "KURSPAKETERING",
5988     "ID": "121171",
5989     "Kod": "FHSPRG",
5990     "LarosateID": -1,
5991     "Regelverk": {
5992         "Regelvarden": [],
5993         "Uid": "7dc3ef28-dcea-11e7-9840-bee5623b4e1b"
5994     },
5995     "Sorteringsordning": 4,
5996     "StudieordningID": 16,
5997     "TillfalleInomUtbildningstyper": [],
5998     "UtbildningstyperInomUtbildningstyp": [
5999         121175,
6000         121173
6001     ]
6002 },
6003 {
6004     "AvserTillfalle": true,
6005     "Benamning": {
6006         "sv": "Programtillf\u00e4lle",
6007         "en": "Programme instance"
6008     },
6009     "Beskrivning": {},
6010     "Dolt": false,
6011     "Giltighetsperiod": {},
6012     "Grundtyp": "KURSPAKETERING",
6013     "ID": "121172",
6014     "Kod": "FHSPRGTF",
6015     "LarosateID": -1,
6016     "Regelverk": {
6017         "Regelvarden": [],
6018         "Uid": "f438ca8f-dcea-11e7-9840-bee5623b4e1b"
6019     },
6020     "Sorteringsordning": 50,
6021     "StudieordningID": 16,
6022     "TillfalleInomUtbildningstyper": [
6023         121171
6024     ],
6025     "UtbildningstyperInomUtbildningstyp": [
6026         121176,

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6027         121174
6028     ]
6029 },
6030 {
6031     "AvserTillfalle": false,
6032     "Benamning": {
6033         "sv": "Inriktning",
6034         "en": "Specialisation"
6035     },
6036     "Beskrivning": {},
6037     "Dolt": false,
6038     "Giltighetsperiod": {},
6039     "Grundtyp": "KURSPAKETERING",
6040     "ID": "121173",
6041     "Kod": "FHSINR",
6042     "LarosateID": -1,
6043     "Regelverk": {
6044         "Regelvarden": [
6045             {
6046                 "Regelnamn": "commons.domain.regel.sjalvstandig",
6047                 "Uid": "0f2db262-e80a-11e8-b1f1-65de97d74aa5",
6048                 "Varde": "false"
6049             }
6050         ],
6051         "Uid": "2f8f6056-dceb-11e7-9840-bee5623b4e1b"
6052     },
6053     "Sorteringsordning": 50,
6054     "StudieordningID": 16,
6055     "TillfalleInomUtbildningstyper": [],
6056     "UtbildningstyperInomUtbildningstyp": [
6057         121175
6058     ]
6059 },
6060 {
6061     "AvserTillfalle": true,
6062     "Benamning": {
6063         "sv": "Inriktningstillf\u00e4lle",
6064         "en": "Specialisation instance"
6065     },
6066     "Beskrivning": {},
6067     "Dolt": false,
6068     "Giltighetsperiod": {},
6069     "Grundtyp": "KURSPAKETERING",
6070     "ID": "121174",
6071     "Kod": "FHSINRTF",
6072     "LarosateID": -1,
6073     "Regelverk": {
6074         "Regelvarden": [],
6075         "Uid": "79f4a259-dceb-11e7-9840-bee5623b4e1b"
6076     },
6077     "Sorteringsordning": 50,

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6078     "StudieordningID": 16,
6079     "TillfalleInomUtbildningstyper": [
6080         121173
6081     ],
6082     "UtbildningstyperInomUtbildningstyp": [
6083         121176
6084     ]
6085 },
6086 {
6087     "AvserTillfalle": false,
6088     "Benamning": {
6089         "sv": "Kurs",
6090         "en": "Course"
6091     },
6092     "Beskrivning": {},
6093     "Dolt": false,
6094     "Giltighetsperiod": {},
6095     "Grundtyp": "KURS",
6096     "ID": "121175",
6097     "Kod": "FHSKURS",
6098     "LarosateID": -1,
6099     "Regelverk": {
6100         "Regelvarden": [],
6101         "Uid": "10cfb661-dcec-11e7-9840-bee5623b4e1b"
6102     },
6103     "Sorteringsordning": 1,
6104     "StudieordningID": 16,
6105     "TillfalleInomUtbildningstyper": [],
6106     "UtbildningstyperInomUtbildningstyp": [
6107         121177
6108     ]
6109 },
6110 {
6111     "AvserTillfalle": false,
6112     "Benamning": {
6113         "sv": "Modul utan omfattning",
6114         "en": "Module without scope"
6115     },
6116     "Beskrivning": {},
6117     "Dolt": false,
6118     "Giltighetsperiod": {},
6119     "Grundtyp": "MODUL",
6120     "ID": "138695",
6121     "Kod": "PU18MUO",
6122     "LarosateID": -1,
6123     "Regelverk": {
6124         "Regelvarden": [
6125             {
6126                 "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
6127                 "Uid": "d9eb3f31-e80a-11e8-b1f1-65de97d74aa5",
6128                 "Varde": "true"

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6129     },
6130     {
6131         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6132         "Uid": "d9eb3f30-e80a-11e8-b1f1-65de97d74aa5",
6133         "Varde": "grupp.for.utsokning.polisutbildning"
6134     },
6135     {
6136         "Regelnamn": "commons.domain.regel.sjalvstandig",
6137         "Uid": "d9eb3f33-e80a-11e8-b1f1-65de97d74aa5",
6138         "Varde": "false"
6139     },
6140     {
6141         "Regelnamn": "commons.domain.regel.har.omfattning",
6142         "Uid": "d9eb3f34-e80a-11e8-b1f1-65de97d74aa5",
6143         "Varde": "false"
6144     },
6145     {
6146         "Regelnamn": "commons.domain.regel.versionshanteras",
6147         "Uid": "d9eb3f32-e80a-11e8-b1f1-65de97d74aa5",
6148         "Varde": "false"
6149     }
6150 ],
6151 "Uid": "460a134e-d6ff-11e8-9ff0-687a8474457e"
6152 },
6153 "Sorteringsordning": 50,
6154 "StudieordningID": 135370,
6155 "TillfalleInomUtbildningstyper": [],
6156 "UtbildningstyperInomUtbildningstyp": []
6157 },
6158 {
6159     "AvserTillfalle": true,
6160     "Benamning": {
6161         "sv": "Kurstillf\u00e4lle",
6162         "en": "Course instance"
6163     },
6164     "Beskrivning": {},
6165     "Dolt": false,
6166     "Giltighetsperiod": {},
6167     "Grundtyp": "KURS",
6168     "ID": "138696",
6169     "Kod": "PU18KTF",
6170     "LarosateID": -1,
6171     "Regelverk": {
6172         "Regelvarden": [
6173             {
6174                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6175                 "Uid": "7ad34d79-8360-11ec-b5c0-b03dbaf5459c",
6176                 "Varde": "grupp.for.utsokning.polisutbildning"
6177             },
6178             {
6179                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",

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6180         "Uid": "7ad34d7b-8360-11ec-b5c0-b03dbaf5459c",
6181         "Varde": "true"
6182     },
6183     {
6184         "Regelnamn": "commons.domain.regel.kan.utannonseras",
6185         "Uid": "7ad34d7c-8360-11ec-b5c0-b03dbaf5459c",
6186         "Varde": "true"
6187     },
6188     {
6189         "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
6190         "Uid": "7ad34d7a-8360-11ec-b5c0-b03dbaf5459c",
6191         "Varde": "true"
6192     }
6193 ],
6194 "Uid": "b64687ba-d6ff-11e8-9ff0-687a8474457e"
6195 },
6196 "Sorteringsordning": 1,
6197 "StudieordningID": 135370,
6198 "TillfalleInomUtbildningstyper": [
6199     138692,
6200     138693
6201 ],
6202 "UtbildningstyperInomUtbildningstyp": [],
6203 },
6204 {
6205     "AvserTillfalle": false,
6206     "Benamning": {
6207         "sv": "Program",
6208         "en": "Programme"
6209     },
6210     "Beskrivning": {},
6211     "Dolt": false,
6212     "Giltighetsperiod": {},
6213     "Grundtyp": "KURSPAKETERING",
6214     "ID": "143781",
6215     "Kod": "PU18PRG",
6216     "LarosateID": -1,
6217     "Regelverk": {
6218         "Regelvarden": [
6219             {
6220                 "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
6221                 "Uid": "b594ca10-ab94-11ed-996b-7b1fac574545",
6222                 "Varde": "true"
6223             },
6224             {
6225                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
6226                 "Uid": "b594ca11-ab94-11ed-996b-7b1fac574545",
6227                 "Varde": "true"
6228             },
6229             {
6230                 "Regelnamn": "commons.domain.regel.kan_ha_plan_for_utbildning",

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6231         "Uid": "b594ca12-ab94-11ed-996b-7b1fac574545",
6232         "Varde": "true"
6233     },
6234     {
6235         "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6236         "Uid": "b5947bef-ab94-11ed-996b-7b1fac574545",
6237         "Varde": "grupp.for.utsokning.polisutbildning"
6238     }
6239 ],
6240 "Uid": "422ea321-f7d4-11e8-86c4-d6314f174dae"
6241 },
6242 "Sorteringsordning": 4,
6243 "StudieordningID": 135370,
6244 "TillfalleInomUtbildningstyper": [],
6245 "UtbildningstyperInomUtbildningstyp": [
6246     138692,
6247     109972,
6248     138693
6249 ]
6250 },
6251 {
6252     "AvserTillfalle": true,
6253     "Benamning": {
6254         "sv": "Programtillf\u00e4lle",
6255         "en": "Programme instance"
6256     },
6257     "Beskrivning": {},
6258     "Dolt": false,
6259     "Giltighetsperiod": {},
6260     "Grundtyp": "KURSPAKETERING",
6261     "ID": "143782",
6262     "Kod": "PU18PRGTF",
6263     "LarosateID": -1,
6264     "Regelverk": {
6265         "Regelvarden": [
6266             {
6267                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
6268                 "Uid": "94de0552-8360-11ec-b5c0-b03dbaf5459c",
6269                 "Varde": "true"
6270             },
6271             {
6272                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6273                 "Uid": "94de0550-8360-11ec-b5c0-b03dbaf5459c",
6274                 "Varde": "grupp.for.utsokning.polisutbildning"
6275             },
6276             {
6277                 "Regelnamn": "commons.domain.regel.informationsbehorighet.polisutbildning",
6278                 "Uid": "94de0551-8360-11ec-b5c0-b03dbaf5459c",
6279                 "Varde": "true"
6280             }
6281         ]

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6282         "Uid": "ec4b9b4c-f7d6-11e8-86c4-d6314f174dae"
6283     },
6284     "Sorteringsordning": 50,
6285     "StudieordningID": 135370,
6286     "TillfalleInomUtbildningstyper": [
6287         143781
6288     ],
6289     "UtbildningstyperInomUtbildningstyp": [
6290         138696,
6291         138692,
6292         109972,
6293         138693,
6294         109973
6295     ]
6296 },
6297 {
6298     "AvserTillfalle": false,
6299     "Benamning": {
6300         "sv": "Kurspaket",
6301         "en": "Course package"
6302     },
6303     "Beskrivning": {},
6304     "Dolt": false,
6305     "Giltighetsperiod": {},
6306     "Grundtyp": "KURSPAKETERING",
6307     "ID": "147785",
6308     "Kod": "FUPKP",
6309     "LarosateID": -1,
6310     "Regelverk": {
6311         "Regelvarden": [
6312             {
6313                 "Regelnamn": "commons.domain.regel.ar_kurspaket",
6314                 "Uid": "cdb09091-0505-11ee-b40a-f28ad46341da",
6315                 "Varde": "true"
6316             },
6317             {
6318                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
6319                 "Uid": "cdb0908f-0505-11ee-b40a-f28ad46341da",
6320                 "Varde": "true"
6321             },
6322             {
6323                 "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
6324                 "Uid": "cdb09090-0505-11ee-b40a-f28ad46341da",
6325                 "Varde": "true"
6326             },
6327             {
6328                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6329                 "Uid": "cdb0908e-0505-11ee-b40a-f28ad46341da",
6330                 "Varde": "grupp.for.utsokning.forutbildning"
6331             }
6332         ]

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6333         "Uid": "f38543aa-ff9f-11e8-9a8a-130b7e0d48d4"
6334     },
6335     "Sorteringsordning": 50,
6336     "StudieordningID": 3,
6337     "TillfalleInomUtbildningstyper": [],
6338     "UtbildningstyperInomUtbildningstyp": [
6339         22,
6340         101378
6341     ]
6342 },
6343 {
6344     "AvserTillfalle": true,
6345     "Benamning": {
6346         "sv": "Kurspaket tillf\u00e4lle",
6347         "en": "Course package instance"
6348     },
6349     "Beskrivning": {},
6350     "Dolt": false,
6351     "Giltighetsperiod": {},
6352     "Grundtyp": "KURSPAKETERING",
6353     "ID": "147786",
6354     "Kod": "FUPKPTF",
6355     "LarosateID": -1,
6356     "Regelverk": {
6357         "Regelvarden": [
6358             {
6359                 "Regelnamn": "commons.domain.regel.ar_kurspaket",
6360                 "Uid": "318c0ba4-0509-11ee-b40a-f28ad46341da",
6361                 "Varde": "true"
6362             },
6363             {
6364                 "Regelnamn": "commons.domain.regel.kan.utannonseras",
6365                 "Uid": "318c0ba2-0509-11ee-b40a-f28ad46341da",
6366                 "Varde": "true"
6367             },
6368             {
6369                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
6370                 "Uid": "318c0ba0-0509-11ee-b40a-f28ad46341da",
6371                 "Varde": "true"
6372             },
6373             {
6374                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6375                 "Uid": "318c0b9f-0509-11ee-b40a-f28ad46341da",
6376                 "Varde": "grupp.for.utsokning.forutbildning"
6377             },
6378             {
6379                 "Regelnamn": "commons.domain.regel.atgard_vid_orimligt_omfattningsvarde",
6380                 "Uid": "318c0ba3-0509-11ee-b40a-f28ad46341da",
6381                 "Varde": "varning"
6382             },
6383             {

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6384         "Regelnamn": "commons.domain.regel.ingar.i.grupp.overfors.till.nya",
6385         "Uid": "318c0ba1-0509-11ee-b40a-f28ad46341da",
6386         "Varde": "true"
6387     }
6388 ],
6389     "UId": "b0e89549-ffa1-11e8-9a8a-130b7e0d48d4"
6390 },
6391 "Sorteringsordning": 50,
6392 "StudieordningID": 3,
6393 "TillfalleInomUtbildningstyper": [
6394     147785
6395 ],
6396 "UtbildningstyperInomUtbildningstyp": [
6397     52,
6398     22,
6399     101382,
6400     101378
6401 ]
6402 },
6403 {
6404     "AvserTillfalle": false,
6405     "Benamning": {
6406         "sv": "Modul",
6407         "en": "Module"
6408     },
6409     "Beskrivning": {},
6410     "Dolt": false,
6411     "Giltighetsperiod": {},
6412     "Grundtyp": "MODUL",
6413     "ID": "147908",
6414     "Kod": "UPTMOD19",
6415     "LarosateID": -1,
6416     "Regelverk": {
6417         "Regelvarden": [
6418             {
6419                 "Regelnamn": "commons.domain.regel.sjalvstandig",
6420                 "Uid": "405920a3-1b2a-11e9-beb8-23b395e64549",
6421                 "Varde": "false"
6422             },
6423             {
6424                 "Regelnamn": "commons.domain.regel.informationsbehorighet.uppdagsutbildning",
6425                 "Uid": "405920a5-1b2a-11e9-beb8-23b395e64549",
6426                 "Varde": "true"
6427             },
6428             {
6429                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6430                 "Uid": "405920a6-1b2a-11e9-beb8-23b395e64549",
6431                 "Varde": "grupp.for.utsokning.uppdagsutbildning"
6432             },
6433             {
6434                 "Regelnamn": "commons.domain.regel.versionshanteras",

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6435         "UId": "405920a4-1b2a-11e9-beb8-23b395e64549",
6436         "Varde": "false"
6437     }
6438 ],
6439     "UId": "405920a2-1b2a-11e9-beb8-23b395e64549"
6440 },
6441 "Sorteringsordning": 50,
6442 "StudieordningID": 147898,
6443 "TillfalleInomUtbildningstyper": [],
6444 "UtbildningstyperInomUtbildningstyp": []
6445 },
6446 {
6447     "AvserTillfalle": true,
6448     "Benamning": {
6449         "sv": "Tillf\u00e4lle f\u00f6r utbytes\u00e5tagande, utresande",
6450         "en": "Exchange load instance, outgoing student"
6451     },
6452     "Beskrivning": {
6453         "sv": "Tillagd f\u00f6r konvertering av uppgifter fr\u00e5n Handelsh\u00f6gskolan. "
6454     },
6455     "Dolt": false,
6456     "Giltighetsperiod": {},
6457     "Grundtyp": "KURS",
6458     "ID": "163852",
6459     "Kod": "1993UATTFR",
6460     "LarosateID": -1,
6461     "Regelverk": {
6462         "Regelvarden": [],
6463         "UId": "a75b2896-bbd6-11f0-b3d6-e5914bbf41cf"
6464     },
6465     "Sorteringsordning": 50,
6466     "StudieordningID": 2,
6467     "TillfalleInomUtbildningstyper": [
6468         103210
6469     ],
6470     "UtbildningstyperInomUtbildningstyp": []
6471 },
6472 {
6473     "AvserTillfalle": false,
6474     "Benamning": {
6475         "sv": "Deltagande utan omfattning",
6476         "en": "Participation without scope"
6477     },
6478     "Beskrivning": {},
6479     "Dolt": false,
6480     "Giltighetsperiod": {},
6481     "Grundtyp": "KURS",
6482     "ID": "164114",
6483     "Kod": "FUPDU",
6484     "LarosateID": -1,
6485     "Regelverk": {

```

```

6486     "Regelvarden": [
6487         {
6488             "Regelnamn": "commons.domain.regel.versionshanteras",
6489             "Uid": "5411c6d0-e4b5-11f0-b251-01189c9f465b",
6490             "Varde": "false"
6491         },
6492         {
6493             "Regelnamn": "commons.domain.regel.resultat",
6494             "Uid": "5411c6d5-e4b5-11f0-b251-01189c9f465b",
6495             "Varde": "false"
6496         },
6497         {
6498             "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
6499             "Uid": "5411c6d4-e4b5-11f0-b251-01189c9f465b",
6500             "Varde": "true"
6501         },
6502         {
6503             "Regelnamn": "commons.domain.regel.individuell",
6504             "Uid": "5411c6d3-e4b5-11f0-b251-01189c9f465b",
6505             "Varde": "false"
6506         },
6507         {
6508             "Regelnamn": "commons.domain.regel.har.omfattning",
6509             "Uid": "5411c6d2-e4b5-11f0-b251-01189c9f465b",
6510             "Varde": "false"
6511         },
6512         {
6513             "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6514             "Uid": "5411c6d1-e4b5-11f0-b251-01189c9f465b",
6515             "Varde": "grupp.for.utsokning.forutbildning"
6516         }
6517     ],
6518     "Uid": "08337750-e4a6-11f0-b251-01189c9f465b"
6519 },
6520 "Sorteringsordning": 50,
6521 "StudieordningID": 3,
6522 "TillfalleInomUtbildningstyper": [],
6523 "UtbildningstyperInomUtbildningstyp": []
6524 },
6525 {
6526     "AvserTillfalle": true,
6527     "Benamning": {
6528         "sv": "Tillf\u00e4lle f\u00f6r deltagande utan omfattning",
6529         "en": "Course instance for participation without scope"
6530     },
6531     "Beskrivning": {},
6532     "Dolt": false,
6533     "Giltighetsperiod": {},
6534     "Grundtyp": "KURS",
6535     "ID": "164115",
6536     "Kod": "FUPDUTF",

```

```

6537     "LarosateID": -1,
6538     "Regelverk": {
6539         "Regelvarden": [
6540             {
6541                 "Regelnamn": "commons.domain.regel.informationsbehorighet.forutbildning",
6542                 "Uid": "1c513bd6-e4b3-11f0-b251-01189c9f465b",
6543                 "Varde": "true"
6544             },
6545             {
6546                 "Regelnamn": "commons.domain.regel.har.omfattning",
6547                 "Uid": "1c513bd7-e4b3-11f0-b251-01189c9f465b",
6548                 "Varde": "false"
6549             },
6550             {
6551                 "Regelnamn": "commons.domain.regel.grupp.for.utsokning",
6552                 "Uid": "1c513bd8-e4b3-11f0-b251-01189c9f465b",
6553                 "Varde": "grupp.for.utsokning.forutbildning"
6554             }
6555         ],
6556         "Uid": "1c513bd5-e4b3-11f0-b251-01189c9f465b"
6557     },
6558     "Sorteringsordning": 50,
6559     "StudieordningID": 3,
6560     "TillfalleInomUtbildningstyper": [
6561         164114
6562     ],
6563     "UtbildningstyperInomUtbildningstyp": []
6564 }
6565 ]
6566 }

```

## 20.24 aktivitetstillfallestyp\_JSON

```

1342a <LadokSession data methods 151b>+=
# added by GQMJr
def aktivitetstillfallestyp_JSON(self) -> dict:
    """
    Returns the activity types.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/aktivitetstillfallestyp',
        headers=self.headers).json()
    return r

    Let's add a test. This should return a dictionary.
1342b <test functions 151a>+=
def test_aktivitetstillfallestyp_JSON() -> None:
    r = ladok.aktivitetstillfallestyp_JSON()
    assert type(r) == dict

```

This code is used in chunk 146.

The output looks like this:

```

1  {
2    "Aktivitetstillfallestyp": [
3      {
4        "Benamning": {
5          "sv": "Digital omtentamen (LIS)",
6          "en": "E-examination, resit (LIS)"
7        },
8        "Beskrivning": {},
9        "Dolt": true,
10       "Giltighetsperiod": {},
11       "ID": "151857",
12       "Kod": "GDOT",
13       "LarosateID": -1
14     },
15     {
16       "Benamning": {
17         "sv": "Digital tentamen (LIS)",
18         "en": "E-examination (LIS)"
19       },
20       "Beskrivning": {},
21       "Dolt": true,
22       "Giltighetsperiod": {},
23       "ID": "151856",
24       "Kod": "GDT",
25       "LarosateID": -1
26     },
27     {
28       "Benamning": {
29         "sv": "Verksamhetsf\u00f6rlagd utbildning (LIS)",
30         "en": "Placement (LIS)"
31       },
32       "Beskrivning": {},
33       "Dolt": false,
34       "Giltighetsperiod": {},
35       "ID": "164128",
36       "Kod": "GVFU",
37       "LarosateID": -1
38     },
39     {
40       "Benamning": {
41         "sv": "\u00d6vrigt aktivitetstillf\u00e4lle",
42         "en": "Unspecified activity"
43       },
44       "Beskrivning": {},
45       "Dolt": false,
46       "Giltighetsperiod": {},
47       "ID": "1",
48       "Kod": "\u00d6V",

```

```
49     "LarosateID": -1
50 },
51 {
52     "Benamning": {
53         "sv": "Examination i datorsal - omtentamen",
54         "en": "Re-exam, digital on-campus"
55     },
56     "Beskrivning": {},
57     "Dolt": false,
58     "Giltighetsperiod": {
59         "Startdatum": "2022-06-15"
60     },
61     "ID": "153882",
62     "Kod": "EXDAOMTENTA",
63     "LarosateID": 29
64 },
65 {
66     "Benamning": {
67         "sv": "Examination i datorsal - tentamen",
68         "en": "Exam, digital on-campus"
69     },
70     "Beskrivning": {},
71     "Dolt": false,
72     "Giltighetsperiod": {
73         "Startdatum": "2022-06-15"
74     },
75     "ID": "153881",
76     "Kod": "EXDATENTA",
77     "LarosateID": 29
78 },
79 {
80     "Benamning": {
81         "sv": "Examination i datorsal \u2013 kontrollskrivning",
82         "en": "Partial exam, digital on-campus"
83     },
84     "Beskrivning": {},
85     "Dolt": false,
86     "Giltighetsperiod": {
87         "Startdatum": "2022-06-15"
88     },
89     "ID": "153880",
90     "Kod": "EXDATKS",
91     "LarosateID": 29
92 },
93 {
94     "Benamning": {
95         "sv": "FX-komplettering",
96         "en": "FX-Supplementary Qualification"
97     },
98     "Beskrivning": {},
99     "Dolt": false,
```

```

100     "Giltighetsperiod": {
101         "Startdatum": "2020-10-05"
102     },
103     "ID": "150909",
104     "Kod": "FX",
105     "LarosateID": 29
106 },
107 {
108     "Benamning": {
109         "sv": "Hemtentamen",
110         "en": "Unsupervised examination"
111     },
112     "Beskrivning": {},
113     "Dolt": false,
114     "Giltighetsperiod": {
115         "Startdatum": "2022-06-15"
116     },
117     "ID": "153887",
118     "Kod": "HEMTENTA",
119     "LarosateID": 29
120 },
121 {
122     "Benamning": {
123         "sv": "Kontrollskrivning",
124         "en": "Partial Exam"
125     },
126     "Beskrivning": {},
127     "Dolt": true,
128     "Giltighetsperiod": {
129         "Slutdatum": "2022-06-14",
130         "Startdatum": "2018-06-20"
131     },
132     "ID": "135201",
133     "Kod": "KS",
134     "LarosateID": 29
135 },
136 {
137     "Benamning": {
138         "sv": "Muntlig examination",
139         "en": "Oral exam"
140     },
141     "Beskrivning": {},
142     "Dolt": false,
143     "Giltighetsperiod": {
144         "Startdatum": "2022-06-15"
145     },
146     "ID": "153886",
147     "Kod": "MUNTA",
148     "LarosateID": 29
149 },
150 {

```



```
151     "Benamning": {
152       "sv": "Omtentamen",
153       "en": "Re-examination"
154     },
155     "Beskrivning": {},
156     "Dolt": true,
157     "Giltighetsperiod": {
158       "Slutdatum": "2022-06-14",
159       "Startdatum": "2018-06-20"
160     },
161     "ID": "135200",
162     "Kod": "OMTENTA",
163     "LarosateID": 29
164   },
165   {
166     "Benamning": {
167       "sv": "Salsexamination \u2013 kontrollskrivning",
168       "en": "Partial exam, written on-campus"
169     },
170     "Beskrivning": {},
171     "Dolt": false,
172     "Giltighetsperiod": {
173       "Startdatum": "2022-06-15"
174     },
175     "ID": "153883",
176     "Kod": "SALEXKS",
177     "LarosateID": 29
178   },
179   {
180     "Benamning": {
181       "sv": "Salsexamination - omtentamen",
182       "en": "Re-exam, written on-campus"
183     },
184     "Beskrivning": {},
185     "Dolt": false,
186     "Giltighetsperiod": {
187       "Startdatum": "2022-06-15"
188     },
189     "ID": "153885",
190     "Kod": "SALEXOMTENT",
191     "LarosateID": 29
192   },
193   {
194     "Benamning": {
195       "sv": "Salsexamination \u2013 tentamen",
196       "en": "Exam, written on-campus"
197     },
198     "Beskrivning": {},
199     "Dolt": false,
200     "Giltighetsperiod": {
201       "Startdatum": "2022-06-15"
```

```

202     },
203     "ID": "153884",
204     "Kod": "SALEXTENTA",
205     "LarosateID": 29
206   },
207   {
208     "Benamning": {
209       "sv": "Tentamen",
210       "en": "Examination"
211     },
212     "Beskrivning": {},
213     "Dolt": true,
214     "Giltighetsperiod": {
215       "Slutdatum": "2022-06-14",
216       "Startdatum": "2018-06-20"
217     },
218     "ID": "135199",
219     "Kod": "TENTAMEN",
220     "LarosateID": 29
221   }
222 ]
223 }

```

## 20.25 catalog\_service\_index\_JSON

**1347a** *<LadokSession data methods 151b>+≡*

```

# added by GQMJr
def catalog_service_index_JSON(self) -> dict:
    """
    Returns the catalog service index.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url + '/kataloginformation/internal/service/index',
        headers=self.headers).json()
    return r

```

Let's add a test. This should return a dictionary.

**1347b** *<test functions 151a>+≡*

```

def test_catalog_service_index_JSON() -> None:
    r = ladok.catalog_service_index_JSON()
    assert type(r) == dict

```

This code is used in chunk 146.

The output looks like this:

```

1  {
2  "ServiceName": "Ladok3 intern REST-tj\u00e4nst f\u00f6r kataloginformation"
3  }

```

## 20.26 omradesbehorighet\_JSON

**1347c** *<LadokSession data methods 151b>+≡*

```
# added by GQMJr
def omradesbehorighet_JSON(self) -> dict:
    """
    Returns områdesbehörighet. See

    https://antagning.se/globalassets/omradesbehorigheter-hogskolan.pdf

    for more information.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url +
        '/kataloginformation/internal/grunddata/omradesbehorighet',
        headers=self.headers).json()
    return r
```

Let's add a test. This should return a dictionary.

```
1348 <test functions 151a>+=
def test_omradesbehorighet_JSON() -> None:
    r = ladok.omradesbehorighet_JSON()
    assert type(r) == dict
```

This code is used in chunk 146.

The output looks like this:

```
1 {
2   "Omradesbehorighet": [
3     {
4       "Benamning": {
5         "sv": "A1/1",
6         "en": "A1/1"
7       },
8       "Beskrivning": {},
9       "Dolt": false,
10      "Emilvarde": "1",
11      "Giltighetsperiod": {
12        "Slutdatum": "2022-06-01"
13      },
14      "ID": "1",
15      "Kod": "1",
16      "LarosateID": -1
17    },
18    {
19      "Benamning": {
20        "sv": "A10/10",
21        "en": "A10/10"
22      },
23      "Beskrivning": {},
24      "Dolt": false,
25      "Emilvarde": "10",
26      "Giltighetsperiod": {
27        "Slutdatum": "2022-06-01"
28      },
29    }
30  ]
31 }
```

```
29     "ID": "13",
30     "Kod": "10",
31     "LarosateID": -1
32 },
33 {
34     "Benamning": {
35         "sv": "A11/14",
36         "en": "A11/14"
37     },
38     "Beskrivning": {},
39     "Dolt": false,
40     "Emilvarde": "14",
41     "Giltighetsperiod": {
42         "Slutdatum": "2022-06-01"
43     },
44     "ID": "17",
45     "Kod": "14",
46     "LarosateID": -1
47 },
48 {
49     "Benamning": {
50         "sv": "A14/16",
51         "en": "A14/16"
52     },
53     "Beskrivning": {},
54     "Dolt": false,
55     "Emilvarde": "16",
56     "Giltighetsperiod": {
57         "Slutdatum": "2022-06-01"
58     },
59     "ID": "19",
60     "Kod": "16",
61     "LarosateID": -1
62 },
63 {
64     "Benamning": {
65         "sv": "A15/17",
66         "en": "A15/17"
67     },
68     "Beskrivning": {},
69     "Dolt": false,
70     "Emilvarde": "17",
71     "Giltighetsperiod": {
72         "Slutdatum": "2022-06-01"
73     },
74     "ID": "20",
75     "Kod": "17",
76     "LarosateID": -1
77 },
78 {
79     "Benamning": {
```

```
80     "sv": "Endast grundl\u00e4ggande beh\u00f6righet",
81     "en": "General entry requirements only"
82 },
83 "Beskrivning": {},
84 "Dolt": false,
85 "Emilvarde": "0",
86 "Giltighetsperiod": {
87     "Slutdatum": "2022-06-01"
88 },
89 "ID": "0",
90 "Kod": "0",
91 "LarosateID": -1
92 },
93 {
94     "Benamning": {
95         "sv": "A2/2",
96         "en": "A2/2"
97     },
98     "Beskrivning": {},
99     "Dolt": false,
100     "Emilvarde": "2",
101     "Giltighetsperiod": {
102         "Slutdatum": "2022-06-01"
103     },
104     "ID": "2",
105     "Kod": "2",
106     "LarosateID": -1
107 },
108 {
109     "Benamning": {
110         "sv": "A3/3",
111         "en": "A3/3"
112     },
113     "Beskrivning": {},
114     "Dolt": false,
115     "Emilvarde": "3",
116     "Giltighetsperiod": {
117         "Slutdatum": "2022-06-01"
118     },
119     "ID": "3",
120     "Kod": "3",
121     "LarosateID": -1
122 },
123 {
124     "Benamning": {
125         "sv": "A4/4",
126         "en": "A4/4"
127     },
128     "Beskrivning": {},
129     "Dolt": false,
130     "Emilvarde": "4",
```

```

131     "Giltighetsperiod": {
132         "Slutdatum": "2022-06-01"
133     },
134     "ID": "4",
135     "Kod": "4",
136     "LarosateID": -1
137 },
138 {
139     "Benamning": {
140         "sv": "A5/5",
141         "en": "A5/5"
142     },
143     "Beskrivning": {},
144     "Dolt": false,
145     "Emilvarde": "5",
146     "Giltighetsperiod": {
147         "Slutdatum": "2022-06-01"
148     },
149     "ID": "5",
150     "Kod": "5",
151     "LarosateID": -1
152 },
153 {
154     "Benamning": {
155         "sv": "A6/6",
156         "en": "A6/6"
157     },
158     "Beskrivning": {},
159     "Dolt": false,
160     "Emilvarde": "6",
161     "Giltighetsperiod": {
162         "Slutdatum": "2022-06-01"
163     },
164     "ID": "6",
165     "Kod": "6",
166     "LarosateID": -1
167 },
168 {
169     "Benamning": {
170         "sv": "A6 a/6 a",
171         "en": "A6 a/6 a"
172     },
173     "Beskrivning": {},
174     "Dolt": false,
175     "Emilvarde": "6 a",
176     "Giltighetsperiod": {
177         "Slutdatum": "2022-06-01"
178     },
179     "ID": "7",
180     "Kod": "6A",
181     "LarosateID": -1

```

```

182     },
183     {
184         "Benamning": {
185             "sv": "A6 b/6 a",
186             "en": "A6 b/6 b"
187         },
188         "Beskrivning": {},
189         "Dolt": false,
190         "Emilvarde": "6 b",
191         "Giltighetsperiod": {
192             "Slutdatum": "2022-06-01"
193         },
194         "ID": "8",
195         "Kod": "6B",
196         "LarosateID": -1
197     },
198     {
199         "Benamning": {
200             "sv": "A7/7",
201             "en": "A7/7"
202         },
203         "Beskrivning": {},
204         "Dolt": false,
205         "Emilvarde": "7",
206         "Giltighetsperiod": {
207             "Slutdatum": "2022-06-01"
208         },
209         "ID": "10",
210         "Kod": "7",
211         "LarosateID": -1
212     },
213     {
214         "Benamning": {
215             "sv": "A8/8",
216             "en": "A8/8"
217         },
218         "Beskrivning": {},
219         "Dolt": false,
220         "Emilvarde": "8",
221         "Giltighetsperiod": {
222             "Slutdatum": "2022-06-01"
223         },
224         "ID": "11",
225         "Kod": "8",
226         "LarosateID": -1
227     },
228     {
229         "Benamning": {
230             "sv": "A9/9",
231             "en": "A9/9"
232         },

```

```
233     "Beskrivning": {},
234     "Dolt": false,
235     "Emilvarde": "9",
236     "Giltighetsperiod": {
237       "Slutdatum": "2022-06-01"
238     },
239     "ID": "12",
240     "Kod": "9",
241     "LarosateID": -1
242   },
243   {
244     "Benamning": {
245       "sv": "A11/11",
246       "en": "A11/11"
247     },
248     "Beskrivning": {},
249     "Dolt": false,
250     "Emilvarde": "11",
251     "Giltighetsperiod": {
252       "Slutdatum": "2022-06-01"
253     },
254     "ID": "14",
255     "Kod": "11",
256     "LarosateID": -1
257   },
258   {
259     "Benamning": {
260       "sv": "A13/13",
261       "en": "A13/13"
262     },
263     "Beskrivning": {},
264     "Dolt": false,
265     "Emilvarde": "13",
266     "Giltighetsperiod": {
267       "Slutdatum": "2022-06-01"
268     },
269     "ID": "16",
270     "Kod": "13",
271     "LarosateID": -1
272   },
273   {
274     "Benamning": {
275       "sv": "A14/15",
276       "en": "A14/15"
277     },
278     "Beskrivning": {},
279     "Dolt": false,
280     "Emilvarde": "15",
281     "Giltighetsperiod": {
282       "Slutdatum": "2022-06-01"
283     },
```



```
284     "ID": "18",
285     "Kod": "15",
286     "LarosateID": -1
287 },
288 {
289     "Benamning": {
290         "sv": "A12/12",
291         "en": "A12/12"
292     },
293     "Beskrivning": {},
294     "Dolt": false,
295     "Emilvarde": "12",
296     "Giltighetsperiod": {
297         "Slutdatum": "2022-06-01"
298     },
299     "ID": "15",
300     "Kod": "12",
301     "LarosateID": -1
302 },
303 {
304     "Benamning": {
305         "sv": "A6 c/6 a",
306         "en": "A6 c/6 c"
307     },
308     "Beskrivning": {},
309     "Dolt": false,
310     "Emilvarde": "6 c",
311     "Giltighetsperiod": {
312         "Slutdatum": "2022-06-01"
313     },
314     "ID": "9",
315     "Kod": "6C",
316     "LarosateID": -1
317 }
318 ]
319 }
```

## Chapter 21

# Program cohort access and examination results

Two new capabilities allow the extraction of cohort-level data that complements the existing per-student and per-course-round queries.

- (1) **Program cohort:** listing the students admitted to a *program round* (*utbildningstillfälle*) for a given admission semester (e.g. HT25 = autumn 2025). In LADOK's internal terminology the enrolment is a *kurspaketeringstillfälle* (course-package round), but it is identified by the program-round UID returned by the *utbildningsinformation* service.
- (2) **Examination occasion results:** listing every student registered for an *aktivitetstillfälle* together with their reported result.

These UIDs from the test environment are used in the tests below.

```
1355 <test api.py 146>+=  
# CTFYS HT25 program round (utbildningsinformation service)  
CTFYS_round_id = "c651ef07-2031-11f0-a301-a2036b2340f3"  
# SH1014 written exam on 2026-01-07 and its associated course round  
SH1014_occasion_id = "01fe3c80-324b-11f0-8a2b-a6b448f445fa"  
SH1014_round_id = "9ade5891-bba7-11ef-9553-beecfac44351"  
# Student with multiple SH1014/TEN1 attempts: first F (2025-01-07), then C (2026-01-07)  
SH1014_retake_student_uid = "134e3c18-0e50-11ed-8f4d-87c157374df8"
```

### 21.1 program\_rounds\_JSON

To identify which program round corresponds to a given admission semester we first need all rounds for a program code. The *utbildningsinformation* service provides this via a GET to the *utbildningstillfalle/filtrera* endpoint.

Each item in the returned *Resultat* list includes:

[UId] The round's unique identifier, used to fetch participants.

[SammanslagenTillfallesperiod] Contains *Startdatum* and *Slutdatum* — used to identify the admission semester.

[Utbildningstillfalleskod] The short round code, e.g. OP116.

[StartperiodID] An integer identifying the starting period.

The caller can filter the returned list by Startdatum to pick the round for a particular semester (e.g. HT25 = month  $\geq 7$  of year 2025). We use `_all_pages` (Section 15.3.4) so the full list is returned regardless of how many programme rounds the code has had — no caller has to think about page numbers.

```
1356a <LadokSession data methods 151b>+=
def program_rounds_JSON(self, program_code: str) -> list:
    """Return all programme rounds for a programme code.

    Each round contains 'Uid', 'SammanslagenTillfallesperiod',
    'Utbildningstillfalleskod', etc. Filter by 'SammanslagenTillfallesperiod.
    Startdatum' to pick the round for a particular admission semester.
    """
    return self._all_pages(lambda page, limit: self.get_query(
        f"/utbildningsinformation/internal/utbildningstillfalle/filtrera"
        f"?utbildningskod={program_code}&sprakkod=sv"
        f"&page={page}&limit={limit}",
        "application/vnd.ladok-utbildningsinformation+json"
    ))
```

The test verifies that CTFYS\_round\_id appears among the returned programme rounds.

```
1356b <test functions 151a>+=
def test_program_rounds_JSON() -> None:
    rounds = ladok.program_rounds_JSON("CTFYS")
    assert len(rounds) > 0
    round_uids = [r["Uid"] for r in rounds]
    assert CTFYS_round_id in round_uids
```

This code is used in chunk 146.

## 21.2 program\_round\_participants\_JSON

Given a program-round UID we fetch its participants from the studiedeltagande service. The endpoint path uses kurspaketeringstillfalle (course-package round) — the internal LADOK term for a programme-round enrolment — rather than utbildningstillfalle. The caller supplies the UID returned by `program_rounds_JSON`. Like that method we walk all pages with `_all_pages` (Section 15.3.4); a popular programme has hundreds of admitted students per cohort and the default 400-per-page limit is not always enough.

Each participant entry contains:

**Student** Sub-object with Uid, Fornamn, Efternamn, and Personnummer.

**TillstandKurspaketering** Participation status codes, e.g. pagaende (active), ej\_paborjad (admitted, not yet started).

**SummeradGodkandOmfattning** Approved ECTS credits accumulated so far.

```

1357a <LadokSession data methods 151b>+=
def program_round_participants_JSON(self, round_uid: str) -> list:
    """Return all participants enrolled in a programme round.

    round_uid is a UID from program_rounds_JSON.
    """
    return self._all_pages(lambda page, limit: self.get_query(
        f"/studiedeltagande/internal/deltagare/kurspaketeringstillfalle"
        f"/{round_uid}"
        f"?page={page}&limit={limit}"
        f"&orderby=NAMN_ASC&orderby=PERSONNUMMER_ASC",
        "application/vnd.ladok-studiedeltagande+json"
    ))

1357b <test functions 151a>+=
def test_program_round_participants_JSON() -> None:
    participants = ladok.program_round_participants_JSON(CTFYs_round_id)
    assert len(participants) > 0
    first = participants[0]
    assert "Student" in first
    assert "Uid" in first["Student"]
    assert "Personnummer" in first["Student"]

```

This code is used in chunk 146.

### 21.3 examination\_occasions\_JSON

Examination occasions (*aktivitetstillfälle*) are listed via the *resultat* service. A single occasion covers one exam event, e.g. a written examination of course SH1014 on a specific date. Walking all pages with *\_all\_pages* (Section 15.3.4) matters here because courses that have run for a long time accumulate many occasions and a fixed page size will hide older ones.

Key fields returned for each occasion:

**Uid** Occasion UID, required for result retrieval.

**Datumperiod** The examination date(s) as *Startdatum* / *Slutdatum*.

**AntalAnmalda** Number of registered students.

**KurstillfalleUIDer** Course-round UIDs associated with this occasion; pass these to *occasion\_results\_JSON*.

**AktivitetstillfallestypBenamning** Human-readable type, e.g. 'Salsexamination – tentamen'.

```

1357c <LadokSession data methods 151b>+=
def examination_occasions_JSON(self, course_code: str) -> list:
    """Return all examination occasions for a course."""
    return self._all_pages(lambda page, limit: self.get_query(
        f"/resultat/internal/aktivitetstillfalle/filtrera"
        f"?kurskod={course_code}&page={page}&limit={limit}",
        "application/vnd.ladok-resultat+json"
    ))

```

```

1358a <test functions 151a>+≡
def test_examination_occasions_JSON() -> None:
    occasions = ladok.examination_occasions_JSON("SH1014")
    assert len(occasions) > 0
    occasion_uids = [o["Uid"] for o in occasions]
    assert SH1014_occasion_id in occasion_uids

```

This code is used in chunk 146.

## 21.4 occasion\_results\_JSON

Student results at an examination occasion are fetched by a PUT to `studieresultat/rapportera/aktivitetstillfalle/{u`. Unlike the per-component search in `search_reported_results_JSON`, this endpoint requires the course-round UID(s) in the body field `KurstillfallenUID`.

The `Filtrering` list selects which result statuses to include:

**OBEHANDLADE** Registered but no grade entered.

**UTKAST** Draft grade entered, not yet certified.

**ATTESTERADE** Certified (finalized) results.

This is the only paginated endpoint we use that takes `Page` and `Limit` in a JSON body rather than a URL query string. The `_all_pages` helper (Section 15.3.4) accommodates this without any extra plumbing because it takes a `request_fn(page, limit)` closure rather than a URL — the closure builds the appropriate `put_data` dict for each page.

Each item in the returned list contains:

**Student** Sub-object with `Uid`, `Fornamn`, `Efternamn`.

**ResultatPaUtbildningar** List of result objects. When a certified result exists, `SenastAttesteradeResultat` holds the grade with sub-fields `Betygsgradsobjekt.Kod` (e.g. A–F or P/F) and `Examinationsdatum`.

**Rapporteringskontext** Contains `UtbildningsinstansUID` — the component-instance UID required if you need to report further results.

```

1358b <LadokSession data methods 151b>+≡
def occasion_results_JSON(self, occasion_uid: str,
                           course_round_uids: list[str],
                           filtrering: list[str] | None = None) -> list:
    """Return all student results for an examination occasion.

    Args:
        occasion_uid:      UID of the examination occasion
        course_round_uids: list of course-round UIDs for the occasion
                           (taken from the occasion's KurstillfalleUIDer)
        filtrering:        list of result-status codes to include; defaults
                           to all three ['OBEHANDLADE', 'UTKAST', 'ATTESTERADE']
    """
    if filtrering is None:
        filtrering = ["OBEHANDLADE", "UTKAST", "ATTESTERADE"]

```

```

return self._all_pages(lambda page, limit: self.put_query(
    f"/resultat/internal/studieresultat/rapportera"
    f"/aktivitetstillfalle/{occasion_uid}/sok",
    {
        "Filtrering": filtrering,
        "KurstillfallenUID": course_round_uids,
        "OrderBy": ["EFTERNAMN_ASC", "FORNAMN_ASC", "PERSONNUMMER_ASC"],
        "Limit": limit,
        "Page": page,
    }
))

```

1359

⟨test functions 151a⟩+≡

```

def test_occasion_results_JSON() -> None:
    results = ladok.occasion_results_JSON(
        SH1014_occasion_id, [SH1014_round_id])
    assert len(results) > 0
    first = results[0]
    assert "Student" in first
    assert "ResultatPaUtbildningar" in first

```

This code is used in chunk 146.

## 21.5 student\_result\_history\_JSON

The preceding methods answer the question “who sat which exam and what did they get?” from the perspective of an *occasion*. But for analysing student progress we often need the opposite perspective: given a student, what is their *complete* result history across every course and every attempt?

The LADOK GUI presents exactly this on a student’s historik (history) tab. Discovering the underlying endpoint took a detour through the hypermedia links embedded in the resultatuppfoljning/sok response: each Student object carries a link with relation resultat/historik pointing to /resultat/internal/historik/student/{uid}.

### Structure of the response

The endpoint returns a single key Historikposter, a flat list of result events ordered newest-first. Each event captures one grade action and contains:

[Sammanfattning] A human-readable summary in Swedish and English, e.g. “Modern fysik 4.0 hp SH1014 / Tentamen 4.0 hp TEN1”. Course-level entries (finalization of a whole course) have no slash-separated component; component-level entries do.

[Examinationsdatum] The date the examination took place.

[BetyggradID] Numeric identifier of the grade; combine with BetygsskalaID to resolve the letter code (A–F, P/F, etc.).

[AvserOmfattning] Credits the result covers (0.0 for course-level finalization entries).

[Handelse] The event type: skapad (created), borttagen (deleted/retracted), or rattad (corrected).

[Historiktyp] Always resultat.domain.historiktyp.resultat for grade results.

[Attestant, Beslutsfattare] Who certified and who decided the grade.

[link] Contains a historik/pakurs relation linking to the per-course variant of this endpoint (historik/student/{uid}/kurs/{kurs\\_uid}).

Crucially, *all* attempts appear, including failed ones and subsequently corrected results. A student who failed TEN1 in January 2025 and passed in January 2026 will have two separate entries for TEN1 — one with the failing grade and one with the passing grade — plus a third entry for the course-level finalization that only appears once the student has passed.

```
1360a <LadokSession data methods 151b>+≡
def student_result_history_JSON(self, student_uid: str) -> list:
    """Return all result history events for a student.
```

Uses GET /resultat/internal/historik/student/{uid}.

Returns a list of Historikposter (history events) covering every course and component the student has received a grade in, newest first. All attempts are included --- failed grades, corrected results, and retracted entries appear alongside passing grades.

```
"""
data = self.get_query(
    f"/resultat/internal/historik/student/{student_uid}")
try:
    return data["Historikposter"]
except KeyError as err:
    err.add_note(f"Response data: {data}")
    raise LadokAPIError(
        f"Unexpected response format when fetching result history "
        f"for student {student_uid}: missing 'Historikposter' key"
    ) from err
```

We test with a student who has two TEN1 entries for SH1014: a failing grade from January 2025 and a passing C from January 2026.

```
1360b <test functions 151a>+≡
def test_student_result_history_JSON() -> None:
    history = ladok.student_result_history_JSON(SH1014_retake_student_uid)
    assert isinstance(history, list)
    assert len(history) > 0
    # Every entry must have the core fields
    for entry in history:
        assert "Sammanfattning" in entry
        assert "Examinationsdatum" in entry
        assert "Historiktyp" in entry
        assert "Handelse" in entry
```

```
# Verify that multiple SH1014/TEN1 attempts are present
sh1014_ten1 = [
    e for e in history
    if "SH1014" in e.get("Sammanfattning", {}).get("sv", "")
    and "TEN1" in e.get("Sammanfattning", {}).get("sv", "")
]
assert len(sh1014_ten1) >= 2, (
    f"Expected at least 2 SH1014/TEN1 entries (F then C), got {len(sh1014_ten1)}"
)
```

This code is used in chunk 146.

The output for our test student looks like this (showing only the SH1014 entries for brevity):

```
1  [
2    {
3      "Anteckning": "",
4      "ArDokumenteratBeslut": false,
5      "Attestant": {
6        "Anvandarnamn": "user@domain.se",
7        "Efternamn": "Studentzadeh",
8        "Fornamn": "Student",
9        "Uid": "f2d27335-ac41-11e8-b1aa-6e51ae9f4f77"
10     },
11     "AvserOmfattning": 0.0,
12     "Beslutsdatum": "2026-02-09",
13     "Beslutsfattare": {
14       "Anvandarnamn": "user@domain.se",
15       "Efternamn": "Studentzadeh",
16       "Fornamn": "Student",
17       "Uid": "f2d27335-ac41-11e8-b1aa-6e51ae9f4f77"
18     },
19     "BetyggradID": 131673,
20     "BetygsskalaID": 131657,
21     "Examinationsdatum": "2026-01-07",
22     "ExterntBeslut": false,
23     "Handelse": "resultat.domain.historik.handelse.skapad",
24     "Handelsetid": "2026-02-09T08:17:37.440",
25     "Historiktyp": "resultat.domain.historiktyp.resultat",
26     "Hogerspaltisanvandare": {
27       "Anvandarnamn": "user@domain.se",
28       "Efternamn": "Studentzadeh",
29       "Fornamn": "Student",
30       "Uid": "f2d27335-ac41-11e8-b1aa-6e51ae9f4f77"
31     },
32     "KlarmarkeradAvAnvandare": {
33       "Anvandarnamn": "user@domain.se",
34       "Efternamn": "Studentzadeh",
35       "Fornamn": "Student"
36     },
37     "Klarmarkeringsdatum": "2026-02-09T08:17:37.440",
38     "OvrigaMedverkande": "Pär Olsson och jag har rättat samtliga. Student som inte var anmäld till tent"
```



```
39     "RattadAv": [  
40       {  
41         "Anvandarnamn": "user@domain.se",  
42         "Efternamn": "Studentzadeh",  
43         "Fornamn": "Student"  
44       }  
45     ],  
46     "Sammanfattning": {  
47       "sv": "Modern fysik 4.0 hp SH1014",  
48       "en": "Modern Physics 4.0 hp SH1014"  
49     }  
50   },  
51   {  
52     "Anteckning": "",  
53     "ArDokumenteratBeslut": false,  
54     "Attestant": {  
55       "Anvandarnamn": "user@domain.se",  
56       "Efternamn": "Studentzadeh",  
57       "Fornamn": "Student",  
58       "Uid": "f2d27335-ac41-11e8-b1aa-6e51ae9f4f77"  
59     },  
60     "AvserOmfattning": 4.0,  
61     "Beslutsdatum": "2026-02-09",  
62     "Beslutsfattare": {  
63       "Anvandarnamn": "user@domain.se",  
64       "Efternamn": "Studentzadeh",  
65       "Fornamn": "Student",  
66       "Uid": "f2d27335-ac41-11e8-b1aa-6e51ae9f4f77"  
67     },  
68     "BetyggradID": 131673,  
69     "BetygsskalaID": 131657,  
70     "Enhet": "HP",  
71     "Examinationsdatum": "2026-01-07",  
72     "ExterntBeslut": false,  
73     "Handelse": "resultat.domain.historik.handelse.skapad",  
74     "Handelsetid": "2026-02-09T08:17:35.079",  
75     "Historiktyp": "resultat.domain.historiktyp.resultat",  
76     "Hogerspaltсанvandare": {  
77       "Anvandarnamn": "user@domain.se",  
78       "Efternamn": "Studentzadeh",  
79       "Fornamn": "Student",  
80       "Uid": "f2d27335-ac41-11e8-b1aa-6e51ae9f4f77"  
81     },  
82     "KlarmarkeradAvAnvandare": {  
83       "Anvandarnamn": "user@domain.se",  
84       "Efternamn": "Studentzadeh",  
85       "Fornamn": "Student"  
86     },  
87     "Klarmarkeringsdatum": "2026-02-09T08:03:21.899",  
88     "OvrigaMedverkande": "Pär Olsson och jag har rättat samtliga. Student som inte var anmäld till tent  
89     "RattadAv": [  

```

```

90     {
91         "Anvandarnamn": "user@domain.se",
92         "Efternamn": "Studentzadeh",
93         "Fornamn": "Student"
94     }
95 ],
96 "Sammanfattning": {
97     "sv": "Modern fysik 4.0 hp SH1014 / Tentamen 4.0 hp TEN1",
98     "en": "Modern Physics 4.0 hp SH1014 / Exam 4.0 hp TEN1"
99 }
100 },
101 {
102     "ArDokumenteratBeslut": false,
103     "Attestant": {
104         "Anvandarnamn": "user@domain.se",
105         "Efternamn": "Studentzadeh",
106         "Fornamn": "Student",
107         "Uid": "f2d27335-ac41-11e8-b1aa-6e51ae9f4f77"
108     },
109     "AvserOmfattning": 4.0,
110     "Beslutsdatum": "2025-02-25",
111     "Beslutsfattare": {
112         "Anvandarnamn": "user@domain.se",
113         "Efternamn": "Studentzadeh",
114         "Fornamn": "Student",
115         "Uid": "f2d27335-ac41-11e8-b1aa-6e51ae9f4f77"
116     },
117     "BetyggradID": 131697,
118     "BetygsskalaID": 131657,
119     "Enhet": "HP",
120     "Examinationsdatum": "2025-01-07",
121     "ExterntBeslut": false,
122     "Handelse": "resultat.domain.historik.handelse.skapad",
123     "Handelsetid": "2025-02-25T02:17:54.826",
124     "Historiktyp": "resultat.domain.historiktyp.resultat",
125     "Hogerspaltсанvandare": {
126         "Anvandarnamn": "user@domain.se",
127         "Efternamn": "Studentzadeh",
128         "Fornamn": "Student",
129         "Uid": "f2d27335-ac41-11e8-b1aa-6e51ae9f4f77"
130     },
131     "KlarmarkeradAvAnvandare": {
132         "Anvandarnamn": "user@domain.se",
133         "Efternamn": "Studentzadeh",
134         "Fornamn": "Student"
135     },
136     "Klarmarkeringsdatum": "2025-02-25T02:15:12.291",
137     "RattadAv": [
138         {
139             "Anvandarnamn": "user@domain.se",
140             "Efternamn": "Studentzadeh",

```

```

141         "Fornamn": "Student"
142     }
143 ],
144 "Sammanfattning": {
145     "sv": "Modern fysik 4.0 hp SH1014 / Tentamen 4.0 hp TEN1",
146     "en": "Modern Physics 4.0 hp SH1014 / Exam 4.0 hp TEN1"
147 }
148 }
149 ]

```

## 21.6 grade\_scales\_all\_text

grade\_scales\_JSON (Section 16.1) returns the standard grade scales the LADOK JSON variant exposes — but not all of them. Empirically, the same endpoint `/kataloginformation/internal/grunddata/betygsskala` queried with an XML Accept header returns a strictly larger set: it includes institution-specific scales such as KTH's seven-point A–F scale that the JSON variant omits. Why the JSON representation filters and the XML one doesn't is undocumented, and the situation may change — future maintainers should periodically retry the JSON endpoint and collapse the two methods into one if the asymmetry goes away.

We deliberately return the raw response *text* rather than parse the XML here. Parsing belongs in the caller because (a) consumers of this method already need to walk a heterogeneous mix of standard and institution-specific scales, and (b) we don't want to add an `xml.etree` dependency to this module just to expose one endpoint variant. The thin `get_query_text` helper carries the request, re-using `get_query`'s session and error mapping so a failure here raises the same `LadokServerError` / `LadokAPIError` callers already handle.

```

1364a <LadokSession data methods 151b>+=
def grade_scales_all_text(self) -> str:
    """Fetch ALL grade scales as raw XML, including institution-specific ones.

    Uses GET /kataloginformation/internal/grunddata/betygsskala with an
    explicit Accept: application/xml header. Without this, the server
    returns JSON (the standard 17-scale subset), which omits institution-
    specific scales such as KTH's A--F scale.

    Returns the raw XML response text for the caller to parse. Use
    grade_scales_JSON() if you only need the standard subset and want
    it pre-parsed.
    """
    return self.get_query_text(
        "/kataloginformation/internal/grunddata/betygsskala",
        accept="application/xml, text/xml;q=0.9, */*;q=0.1",
    )

```

We sanity-check that the response is XML rather than empty or HTML (an HTML response would indicate the session has been redirected to a login page, which `get_query_text` doesn't otherwise detect).

```

1364b <test functions 151a>+=
def test_grade_scales_all_text() -> None:

```

```

text = ladok.grade_scales_all_text()
assert text
assert "<?xml" in text or "<betygsskala" in text.lower() \
    or "<Betygsskala" in text

```

This code is used in chunk 146.

## 21.7 Shared helper: `_utbildningstillfalle_JSON`

In LADOK, `utbildningstillfalle` (‘education round’) is the umbrella term that covers both *course* rounds (`kurstillfalle`) and *programme* rounds (`kurspaketeringstillfalle`) — both kinds are stored as `utbildningstillfalle` records by the `utbildningsinformation` service, and one endpoint serves both:

```
GET /utbildningsinformation/internal/utbildningstillfalle/{uid}.
```

The two public wrappers below (`program_round_by_uid_JSON` and `course_round_utbildningsinformation_JSON`) call this same endpoint; their value is in the *intent* they expose at the call site — a reader who sees `program_round_by_uid_JSON(uid)` knows the caller expects programme-round metadata, not just ‘some `utbildningstillfalle` record’. We keep the wrappers thin so the URL and Accept-header live in exactly one place; if LADOK ever restructures this endpoint, only the helper changes.

1365a

```

<LadokSession data methods 151b>+≡
def _utbildningstillfalle_JSON(self, uid: str) -> dict:
    """Fetch an utbildningstillfalle record (course or programme round).

    Internal helper.  Uses GET
    /utbildningsinformation/internal/utbildningstillfalle/{uid}.

    Most callers should use the intent-revealing wrappers
    program_round_by_uid_JSON or course_round_utbildningsinformation_JSON
    instead of calling this directly.
    """
    return self.get_query(
        f"/utbildningsinformation/internal/utbildningstillfalle/{uid}",
        "application/vnd.ladok-utbildningsinformation+json",
    )

```

## 21.8 `program_round_by_uid_JSON`

Fetch the full metadata record for a single programme round by its Ladok UUID. The response includes `Benamning`, `UtbildningsinstansUID`, a hypermedia link array (used to follow the `struktur` link), and the admission and study start periods.

1365b

```

<LadokSession data methods 151b>+≡
def program_round_by_uid_JSON(self, round_uid: str) -> dict:
    """Fetch full details of a programme round by its Ladok UUID.

    Uses GET /utbildningsinformation/internal/utbildningstillfalle/{uid}.
    """
    return self._utbildningstillfalle_JSON(round_uid)

```

This test also covers `_utbildningstillfalle_JSON` indirectly — the wrapper is one line, so any failure in the helper's URL or content-type shows up here first.

```
1366a <test functions 151a>+≡
def test_program_round_by_uid_JSON() -> None:
    record = ladok.program_round_by_uid_JSON(CTFYS_round_id)
    assert record["Uid"] == CTFYS_round_id
    assert "UtbildningsinstansUID" in record
```

This code is used in chunk 146.

## 21.9 course\_round\_details\_JSON

Fetch the basic metadata record for a course round. Useful when only the round UUID is known (e.g. discovered from a student's participation list) and the course code, round code, or start date must be resolved.

The course code may appear at `Utbildningskod` directly or nested under `Utbildning.Utbildningskod`, depending on the Ladok version.

```
1366b <LadokSession data methods 151b>+≡
def course_round_details_JSON(self, round_uid: str) -> dict:
    """Fetch full details of a single course round by its Ladok UUID.

    Uses GET /resultat/internal/kurstillfalle/{uid}.

    Returns a dict containing at least Uid, TillfallesKod /
    Utbildningstillfalleskod, and Startdatum. The course code may appear
    at Utbildningskod or nested under Utbildning.Utbildningskod.
    """
    return self.get_query(
        f"/resultat/internal/kurstillfalle/{round_uid}",
        "application/vnd.ladok-resultat+json",
    )
```

The test uses `SH1014_round_id` (a course round of SH1014, the same round whose examination occasion we use elsewhere).

```
1366c <test functions 151a>+≡
def test_course_round_details_JSON() -> None:
    record = ladok.course_round_details_JSON(SH1014_round_id)
    assert record["Uid"] == SH1014_round_id
```

This code is used in chunk 146.

## 21.10 course\_round\_utbildningsinformation\_JSON

Fetch the *utbildningsinformation* record for a course round. This calls the same endpoint as `program_round_by_uid_JSON` (via the shared `_utbildningstillfalle_JSON` helper) — a course round and a programme round are both `utbildningstillfalle` records. The reason for the separate wrapper is that the typical caller *wants* a course round here and *reads* the `Tillfallesperioder` list it returns, breaking the course's

credit weight down across the study sub-periods (P1–P4 in the Swedish academic calendar). Unlike `course_round_details_JSON` (which calls `/resultat/` for the result-flavoured view), this endpoint exposes the period structure.

1367a

*<LadokSession data methods 151b>+≡*

```
def course_round_utbildningsinformation_JSON(self, round_uid: str) -> dict:
    """Fetch the utbildningsinformation record for a course round.
```

```
    Uses GET /utbildningsinformation/internal/utbildningstillfalle/{uid}.
```

```
    Returns Tillfallesperioder --- a list of study sub-periods, each with a
    Lasperiodsfordelning.Fordelningsposter list that maps period codes
    (e.g. 'P1', 'P2') to their HP contribution.
    """
```

```
    return self._utbildningstillfalle_JSON(round_uid)
```

The presence of `Tillfallesperioder` is what distinguishes this view from `course_round_details_JSON` — so we assert on that key.

1367b

*<test functions 151a>+≡*

```
def test_course_round_utbildningsinformation_JSON() -> None:
    record = ladok.course_round_utbildningsinformation_JSON(SH1014_round_id)
    assert record["Uid"] == SH1014_round_id
    assert "Tillfallesperioder" in record
```

This code is used in chunk 146.

## 21.11 student\_program\_participations\_JSON

Returns all programme-round participations for a student. Each entry carries an `Utbildningsinformation` sub-dict with the programme code, round UUID, round code, name, and study periods. Used both to auto-discover master programme enrolments and to locate the enrollment-history URI for each student–programme pair.

We unwrap the `Tillfallesdeltaganden` list and raise `LadokAPIError` if it is absent: every other `*_JSON` method in this module follows the same ‘fail loud on schema drift’ pattern (see `grade_scales_JSON` and `course_rounds_JSON`) so that callers see a clear error if LADOK changes the response shape, rather than silently receiving an empty list and assuming the student has no enrolments.

1367c

*<LadokSession data methods 151b>+≡*

```
def student_program_participations_JSON(self, student_uid: str) -> list:
    """Return all programme-round participations for a student.
```

```
    Uses GET /studiedeltagande/internal/paborjadutbildning/kurspaketering/
    student/{uid}.
```

```
    Each item in the returned list has an Utbildningsinformation sub-dict
    with Utbildningskod, UtbildningstillfalleUID, Utbildningstillfalleskod,
    Benamning, and Perioder.
    """
```

```
    data = self.get_query(
        f"/studiedeltagande/internal/paborjadutbildning/kurspaketering"
        f"/student/{student_uid}",
```

```

    "application/vnd.ladok-studiedeltagande+json",
)
try:
    return data["Tillfallesdeltaganden"]
except KeyError as err:
    err.add_note(f"Response data: {data}")
    raise LadokAPIError(
        f"Unexpected response format when fetching programme "
        f"participations for student {student_uid}: missing "
        f"'Tillfallesdeltaganden' key"
    ) from err

```

We use SH1014\_retake\_student\_uid for this test — a student we know has at least programme enrolment.

```

1368a <test functions 151a>+≡
def test_student_program_participations_JSON() -> None:
    participations = ladok.student_program_participations_JSON(
        SH1014_retake_student_uid)
    assert isinstance(participations, list)

```

This code is used in chunk 146.

## 21.12 student\_course\_participations\_JSON

Returns all course-round participations for a student. Used to discover which course rounds a student has attended independently of the programme study plan — important for elective courses or courses taken outside the nominal curriculum.

The obvious design would mirror student\_program\_participations\_JSON with a course-specific endpoint. In practice the test environment returns 404 Not Found for the dedicated /studiedeltagande/internal/deltagare/kurstillfalle/student/{uid} path. Rather than keep a broken endpoint just because its URL sounds right, we reuse registrations\_JSON, which already returns the full participation objects, and keep only entries whose Utbildningsinformation.Utbildningstillfallestyp.Grundtyp is KURS. That still fails loudly on schema drift: if the discriminator disappears, the caller sees a LadokAPIError with the offending registration attached.

```

1368b <LadokSession data methods 151b>+≡
def student_course_participations_JSON(self, student_uid: str) -> list:
    """Return all course-round participations for a student.

```

Uses [[registrations\_JSON()]] as the source and keeps only course entries.

Each item typically contains:

- Utbildningsinformation.UtbildningstillfalleUUID: the course round UUID
- Utbildningsinformation.Utbildningskod: the course code
- TillstandKurs: participation state summary

```

"""
participations = []
for registration in self.registrations_JSON(student_uid):
    try:
        grundtyp = registration["Utbildningsinformation"][

```

```

        "Utbildningstillfallestyp"] ["Grundtyp"]
    except KeyError as err:
        err.add_note(f"Registration data: {registration}")
        raise LadokAPIError(
            f"Unexpected registration format when fetching course "
            f"participations for student {student_uid}: missing "
            f"'Utbildningsinformation.Utbildningstillfallestyp.Grundtyp'"
        ) from err
    if grundtyp == "KURS":
        participations.append(registration)
    return participations

```

The retake student took SH1014 multiple times, so we expect their course-round participations to include at least one entry.

```

1369a <test functions 151a>+=
def test_student_course_participations_JSON() -> None:
    participations = ladok.student_course_participations_JSON(
        SH1014_retake_student_uid)
    assert isinstance(participations, list)
    assert len(participations) > 0
    assert all(
        p["Utbildningsinformation"]["Utbildningstillfallestyp"] ["Grundtyp"]
        == "KURS"
        for p in participations)

```

This code is used in chunk 146.

### 21.13 fetch\_linked\_uri\_JSON

Several Ladok responses include hypermedia links whose href values are full URIs pointing to the API host (e.g. `https://api.test.ladok.se:443/utbildningsinformation/...`). This helper strips the scheme and host so the request can be routed through the GUI proxy, which is what carries our session credentials — the API host itself doesn't see them.

We validate the input rather than letting string surgery silently chew on arbitrary text. The reason: if uri is malformed or points at some host other than LADOK's API, the caller would proxy a request for data that did not come from LADOK at all. By rejecting non-URI input up front and insisting that the host matches the current environment's LADOK API host, we keep the helper as narrow as the situations that actually call it.

The default content-type is left to `get_query` (which negotiates JSON broadly via `self.headers`). Earlier we hard-coded `utbildningsinformation+json`, but the helper is meant to follow *any* hypermedia link — baking one service's content-type in silently mis-described links from the `resultat` or `studiedeltagande` services and is exactly the kind of 'convenient default' that hides bugs. Callers who really do know the content-type should pass it explicitly.

```

1369b <LadokSession data methods 151b>+=
def fetch_linked_uri_JSON(self, uri: str,
                           content_type: str | None = None) -> dict | list:
    """Fetch a Ladok hypermedia URI via the GUI proxy.

```



Strips the scheme and host from uri, then delegates to `get_query()`.  
 Use this when a Ladok response embeds a full URI in a link array, e.g.  
`https://api.test.ladok.se:443/utbildningsinformation/internal/struktur/{uid}`.

Raises `LadokValidationError` if uri is not an http(s) URI for the current  
 LADOK API host.

```
"""
parsed = urllib.parse.urlparse(uri)
if parsed.scheme not in ("http", "https") or not parsed.path:
    raise LadokValidationError(
        f"fetch_linked_uri_JSON: not an http(s) URI with a path: {uri!r}")
expected_host = urllib.parse.urlparse(
    self.base_url.replace("start.", "api.", 1)).hostname
if parsed.hostname != expected_host:
    raise LadokValidationError(
        f"fetch_linked_uri_JSON: unexpected host {parsed.hostname!r}, "
        f"expected {expected_host!r}")
path = parsed.path
if parsed.query:
    path += f"?{parsed.query}"
if content_type is None:
    return self.get_query(path)
return self.get_query(path, content_type)
```

The validation test ensures a non-URI input is rejected up front (rather than silently issuing a partial-path GET). The happy-path test constructs a URI in the same shape as a real LADOK hypermedia link and verifies it resolves through the proxy.

1370

```
<test functions 151a>+=
def test_fetch_linked_uri_JSON_rejects_non_uri() -> None:
    with pytest.raises(ladok3.LadokValidationError):
        ladok.fetch_linked_uri_JSON("not a uri")

def test_fetch_linked_uri_JSON_rejects_wrong_host() -> None:
    with pytest.raises(ladok3.LadokValidationError):
        ladok.fetch_linked_uri_JSON(
            f"https://example.com/utbildningsinformation/internal/"
            f"utbildningsinstans/{dasak_instance_id}")

def test_fetch_linked_uri_JSON_follows_link() -> None:
    uri = ("https://api.test.ladok.se:443/utbildningsinformation"
           f"/internal/utbildningsinstans/{dasak_instance_id}")
    record = ladok.fetch_linked_uri_JSON(
        uri, content_type="application/vnd.ladok-utbildningsinformation+json")
    assert record["Uid"] == dasak_instance_id
```

This code is used in chunk 146.

### 21.14 utbildningsinstans\_JSON

Fetches the education-instance (*utbildningsinstans*) record for the given UID. An education instance represents an abstract programme or track definition, as opposed to a specific round with an admission year. The record includes *Utbildningskod*, *Benamning*, and a hypermedia link array that can point to subordinate instances.

```
1371a <LadokSession data methods 151b>+≡
def utbildningsinstans_JSON(self, inst_uid: str) -> dict:
    """Fetch an education-instance record by its UID.

    Uses GET /utbildningsinformation/internal/utbildningsinstans/{uid}.
    """
    return self.get_query(
        f"/utbildningsinformation/internal/utbildningsinstans/{inst_uid}",
        "application/vnd.ladok-utbildningsinformation+json",
    )

1371b <test functions 151a>+≡
def test_utbildningsinstans_JSON() -> None:
    record = ladok.utbildningsinstans_JSON(dasak_instance_id)
    assert record["Uid"] == dasak_instance_id
```

This code is used in chunk 146.

### 21.15 utbildningsinstans\_underliggande\_JSON

Returns the list of subordinate (*underliggande*) education instances for a given parent instance. Used to enumerate the master specialisation options and track options that belong to a programme instance. Each element is a minimal {"Uid": "..."} dict; call *utbildningsinstans\_JSON* to retrieve the full record.

```
1371c <LadokSession data methods 151b>+≡
def utbildningsinstans_underliggande_JSON(self, inst_uid: str) -> list:
    """Return subordinate education-instance UIDs for a parent instance.

    Uses GET /utbildningsinformation/internal/utbildningsinstans/
    underliggande?uid={uid}.

    Each element in the returned list is a minimal dict with at least
    {'Uid': '<uuid>'}. Fetch the full record with utbildningsinstans_JSON.
    """
    data = self.get_query(
        f"/utbildningsinformation/internal/utbildningsinstans"
        f"/underliggande?uid={inst_uid}",
        "application/vnd.ladok-utbildningsinformation+json",
    )
    try:
        return data["Utbildningsinstans"]
    except KeyError as err:
        err.add_note(f"Response data: {data}")
```

```

    raise LadokAPIError(
        f"Unexpected response format when fetching subordinate "
        f"education instances for {inst_uid}: missing "
        f"'Utbildningsinstans' key"
    ) from err

```

A leaf course instance has no subordinates and returns an empty list; a programme instance returns its tracks/specialisations. We don't assert a particular length — only that the response unwraps cleanly to a list.

1372a `<test functions 151a>+≡`

```

def test_utbildningsinstans_underliggande_JSON() -> None:
    subs = ladok.utbildningsinstans_underliggande_JSON(dasak_instance_id)
    assert isinstance(subs, list)

```

This code is used in chunk 146.

## 21.16 utbildningstillfalle\_lista\_JSON

Returns all programme rounds (*utbildningstillfälle*) for a given education instance. Used when resolving which rounds of a master specialisation programme correspond to a given bachelor cohort's admission year.

1372b `<LadokSession data methods 151b>+≡`

```

def utbildningstillfalle_lista_JSON(self, inst_uid: str) -> list:
    """Return all programme rounds for an education instance.

    Uses GET /utbildningsinformation/internal/utbildningstillfalle/lista/{uid}.
    """
    data = self.get_query(
        f"/utbildningsinformation/internal/utbildningstillfalle/lista/{inst_uid}",
        "application/vnd.ladok-utbildningsinformation+json",
    )
    try:
        return data["Utbildningstillfalle"]
    except KeyError as err:
        err.add_note(f"Response data: {data}")
        raise LadokAPIError(
            f"Unexpected response format when listing programme rounds "
            f"for instance {inst_uid}: missing 'Utbildningstillfalle' key"
        ) from err

```

To exercise this method we need an utbildningsinstans UID for a programme (one that has rounds). We discover it from `program_round_by_uid_JSON` for the CT-FYS test cohort: the round record carries an `UtbildningsinstansUID` pointing back at its parent instance, and listing the rounds of that instance must include the round we started from.

1372c `<test functions 151a>+≡`

```

def test_utbildningstillfalle_lista_JSON() -> None:
    round_record = ladok.program_round_by_uid_JSON(CTFYS_round_id)
    inst_uid = round_record["UtbildningsinstansUID"]
    rounds = ladok.utbildningstillfalle_lista_JSON(inst_uid)

```

```
assert isinstance(rounds, list)
assert any(r.get("Uid") == CTFYS_round_id for r in rounds)
```

This code is used in chunk [146](#).

## Chapter 22

# Baltatzis' and Maguire's original LadokSession methods

Below are the original LadokSession methods by Baltatzis and Maguire. These are merely kept for backwards compatibility.

The one missing is the constructor, that has been replaced by the code above. Also, the code has been adapted to use `self.session` instead of `self.__session` etc.

### 22.1 get\_results, save\_result

1374

```
<LadokSession data methods 1374>≡
#####
#
# LadokSession
#
# get_results      returnerar en dictionary med momentnamn och resultat
# save_result      sparar resultat för en student som utkast
#
# The original LadokSession code is from Alexander Baltatzis <alba@kth.se> on
# 2020-07-20
#
# I (Gerald Q. Maguire Jr.) have extended on 2020-07-21 and later with the code
# as noted below.
#
# I (Daniel Bosk) adapted (on 2021-01-08) the methods to a refactored
# LadokSession class.

#####
#
# get_results
#
# person_nr        - personnummer, siffror i strängformat
#                  t.ex. 19461212-1212
# course_code      - kurskod t.ex. DD1321
#
# RETURNERAR en dictionary från ladok med momentnamn, resultat
```

```

#
# {'LABP': {'date': '2019-01-14', 'grade': 'P', 'status': 'attested'},
#  'LABD': {'date': '2019-03-23', 'grade': 'E', 'status': 'pending(1)'},
#  'TEN1': {'date': '2019-03-13', 'grade': 'F', 'status': 'pending(2)'}}
#
# status: kan ha följande värden vilket gissningsvis betyder:
#         attested    - attesterad
#         pending(1)  - utkast
#         pending(2)  - klarmarkerad
#
def get_results(self, person_nr_raw, course_code):
    person_nr_raw = str(person_nr_raw)
    person_nr = format_personnummer(person_nr_raw)
    if not person_nr: raise LadokValidationError('Invalid person nr ' + person_nr_raw)

    student_data = self.__get_student_data(person_nr)

    student_course = next(x
        for x in self.__get_student_courses(student_data['id'])
        if x['code'] == course_code)

    # get attested results
    r = self.session.get(
        url=self.base_gui_proxy_url +
            '/resultat/studentresultat/attesterade/student/' +
            student_data['id'],
        headers=self.headers).json()

    results_attested_current_course = None
    results = {} # return value

    for course in r['StudentresultatPerKurs']:
        if course['KursUID'] == student_course['education_id']:
            results_attested_current_course = course['Studentresultat']
            break

    if results_attested_current_course:
        for result in results_attested_current_course:
            try:
                d = { 'grade' : result['Betygsgradskod'],
                      'status': 'attested',
                      'date'  : result['Examinationsdatum'] }
                results[ result['Utbildningskod'] ] = d
            except:
                pass # tillgodoräknanden har inga betyg och då är result['Utbildningskod'] == None

    # get pending results
    r = self.session.get(
        url=self.base_gui_proxy_url + '/resultat/resultat/resultat/student/' +

```

```

        student_data['id'] + '/kurs/' + student_course['education_id'] +
        '?resultatstatus=UTKAST&resultatstatus=KLARMARKERAT',
        headers=self.headers).json()

for result in r['Resultat']:
    r = self.session.get(
        url=self.base_gui_proxy_url + '/resultat/utbildningsinstans/' +
        result['UtbildningsinstansUID'],
        headers=self.headers).json()
    d_grade = result['Betygsgradsobjekt']['Kod']
    d_status = "pending(" + str(result['ProcessStatus']) + ")"
    # utkast har inte datum tydligen ...
    d_date = "0" if 'Examinationsdatum' not in result \
        else result['Examinationsdatum']
    d = { 'grade' : d_grade ,
          'status': d_status,
          'date'  : d_date      }
    results[ r['Utbildningskod'] ] = d
return results

#####
#
# save_result
#
# person_nr          - personnummer, flera format accepteras enligt regex:
#                      (\d\d)?(\d\d)(\d\d\d\d)[+|-]?(\w\w\w\w)
# course_code         - kurskod t.ex. DD1321
# course_moment       - ladokmoment/kursbetyg t.ex. TEN1, LAB1, DD1321 (!)
#                      om labmomentet är samma som course_code så sätts kursbetyg!
# result_date         - betygdatum, flera format accepteras enligt regex
#                      (\d\d)?(\d\d)-?(\d\d)-?(\d\d)
# grade_code          - det betyg som ska sättas
# grade_scale         - betygsskala t.ex. AF eller PF. Möjliga betygsskalor
#                      listas i self.__grade_scales.
#
# RETURNERAR True om det gått bra, kastar (förhoppningsvis) undantag
#                      om det går dåligt.
def save_result(self, person_nr_raw, course_code, course_moment,
    result_date_raw, grade_raw, grade_scale):
    if grade_raw in ["AF", "PF"]:
        raise LadokValidationError('Invalid grade: ' + grade_raw + ' looks like a grade_scale')

    if (grade_raw == 'P' and grade_scale == "AF") or \
        (grade_raw in "ABCDE" and grade_scale == "PF"):
        raise LadokValidationError('Invalid grade: ' + grade_raw +
            ' does not match grade_scale ' + grade_scale)

    person_nr = format_personnummer(person_nr_raw)
    if not person_nr: raise LadokValidationError('Invalid person nr ' + person_nr_raw)

```

```

result_date = self.__validate_date(result_date_raw)
if not result_date:
    raise LadokValidationError('Invalid grade date: ' + result_date_raw + ' pnr: ' +
        person_nr_raw + ' moment: ' + course_moment)

student_data = self.__get_student_data(person_nr)
student_course = next(x
    for x in self.__get_student_courses(student_data['id'])
        if x['code'] == course_code)

# momentkod = kurskod => vi hanterar kursbetyg
if course_moment == student_course['code']:
    course_moment_id = student_course['instance_id']
else:
    for x in self.__get_student_course_moments(student_course['round_id'],
        student_data['id']):
        if x['code'] == course_moment:
            course_moment_id = x['course_moment_id']

student_course_results = self.__get_student_course_results(
    student_course['round_id'], student_data['id'])

grade_scale = self.__get_grade_scale_by_code(grade_scale)
grade = grade_scale.grades(code=grade_raw)[0]

headers = self.headers.copy()
headers['Content-Type'] = 'application/vnd.ladok-resultat+json'
headers['X-XSRF-TOKEN'] = self.__get_xsrf_token()
headers['Referer'] = self.base_gui_url

previous_result = None

for result in student_course_results['results']:
    if result['pending'] is not None:
        if result['pending']['moment_id'] == course_moment_id:
            previous_result = result['pending']
            break

# uppdatera befintligt utkast
if previous_result:
    put_data = {
        'Resultat': [{
            'ResultatUID': previous_result['id'],
            'Betygsgrad': grade.id,
            'Noteringar': [],
            'BetygsskalaID': grade_scale.id,
            'Examinationsdatum': result_date,
            'SenasteResultatandring': previous_result['last_modified']
        }]
    }

```



```

    r = self.session.put(
        url=self.base_gui_proxy_url + '/resultat/studieresultat/uppdatera',
        json=put_data,
        headers=headers)

# lägg in nytt betygskast
else:
    post_data = {
        'Resultat': [{
            'StudieresultatUID': student_course_results['id'],
            'UtbildningsinstansUID': course_moment_id,
            'Betygsgrad': grade.id,
            'Noteringar': [],
            'BetygsskalaID': grade_scale.id,
            'Examinationsdatum': result_date
        }]
    }
    r = self.session.post(
        url=self.base_gui_proxy_url + '/resultat/studieresultat/skapa',
        json=post_data,
        headers=headers)

if not 'Resultat' in r.json():
    raise LadokServerError("Couldn't register " +
        course_moment + "=" + grade_raw + " " + result_date_raw + ": " +
        r.json()["Meddelande"])

return True

```

This definition is continued in chunks [1378-82](#).  
 Root chunk (not used in this document).

## 22.2 get\_student\_data, get\_student\_name

1378

*<LadokSession data methods 1374>+≡*

```

#####
#
# get_student_data
#
# person_nr          - personnummer, flera format accepteras enligt regex:
#                      (\d\d)?(\d\d)(\d\d\d\d)[+|-]?(\w\w\w\w)
#
# RETURNERAR {'id': 'xxxx', 'first_name': 'x', 'last_name': 'y', 'person_nr': 'xxx', 'alive': True}

def get_student_data(self, person_nr_raw):
    person_nr = format_personnummer(person_nr_raw)

    if not person_nr: raise LadokValidationError('Invalid person nr ' + person_nr_raw)

```

```

    student_data = self.__get_student_data(person_nr)
    return student_data

#####
#
# get_student_name
#
# person_nr          - personnummer, flera format accepteras enligt regex:
#                      (\d\d)?(\d\d)(\d\d\d\d)[+\-]?(\w\w\w\w)
#
# RETURNERAR en dictionary med för- och efternamn
#
# {"first_name" : 'Anna', "last_name" : 'Andersson'}
#
def get_student_name(self, person_nr_raw):
    person_nr = format_personnummer(person_nr_raw)

    if not person_nr: raise LadokValidationError('Invalid person nr ' + person_nr_raw)

    student_data = self.__get_student_data(person_nr)
    return {
        "first_name": student_data["first_name"],
        "last_name" : student_data["last_name"]
    }

```

### 22.3 all\_grading\_scale

This is just to maintain the old method name.

1379a

```

<LadokSession data methods 1374>+≡
# added by GQMJr
#####
#
# all_grading_scale
#
#
# RETURNERAR en dictionary of the grading scales
def all_grading_scale(self):
    return self.get_grade_scales()

```

### 22.4 change\_locale

This probably changes the default locale in the LADOK web interface. And that might affect the default languages in responses. Needs testing though.

1379b

```

<LadokSession data methods 1374>+≡
# added by GQMJr
#####
#
# change_locale

```

```
#
# lang                - language code 'en' or 'sv', defaults to 'sv'
#
# RETURNERAR reponse to the request
def change_locale(self, lang = 'sv'):
    r = self.session.get(
        url=self.base_gui_url+'/services/i18n/changeLocale?lang='+lang,
        headers=self.headers).json()
    return r
```

## 22.5 period\_info\_JSON

This no longer works. We should investigate if there is another API call to get this information.

1380a

```
<LadokSession data methods 1374>+≡
# added by GQMJr
#####
#
# period_info_JSON
#
# RETURNERAR JSON of /resultat/grunddata/period
def period_info_JSON(self):
    r = self.session.get(
        url=self.base_gui_proxy_url + '/resultat/internal/grunddata/period',
        # doesn't work, but also not after adding 'internal/' between 'resultat/'
        # and 'grunddata' /CO
        headers=self.headers).json()
    return r
```

## 22.6 organisation\_by\_uid\_JSON

1380b

```
<LadokSession data methods 1374>+≡
# added by GQMJr
#####
#
# organisation_by_uid_JSON
#
# organisationUid      -- organization's UID
#
# RETURNERAR JSON of selected organization
def organisation_by_uid_JSON(self, organisationUid):
    r = self.session.get(
        url=self.base_gui_proxy_url +
            '/kataloginformation/organisation/'+organisationUid,
        headers=self.headers).json()
    return r

# returns:
```

```
# {  'Benamning': {'en': 'EECS/Computer Science', 'sv': 'EECS/Datavetenskap'},
# 'Giltighetsperiod': {'Startdatum': '2019-01-01', 'link': []},
# 'Organisationsenhetstyp': 1,
# 'Organisationskod': 'JH',
# 'Uid': '2474f616-dc41-11e8-8cc1-eaeeb71b497f',
# 'link': [  {  'mediaType': 'application/vnd.ladok+xml,application/vnd.ladok-kataloginformation+xml',
#               'method': 'GET',
#               'rel': 'self',
#               'uri': 'https://api.ladok.se:443/kataloginformation/organisation/2474f616-dc41-11e8-
```

## 22.7 examen\_student\_uid\_JSON

This doesn't work anymore.

1381a

*⟨LadokSession data methods 1374⟩*+≡

```
# added by GQMJr
def examen_student_uid_JSON(self, studentUID):
    """
    Returns the student's degree.
    """
    r = self.session.get(
        url=self.base_gui_proxy_url + 'examen/internal/student/'+studentUID',
        headers=self.headers).json()
    return r
```

## 22.8 student\_participation\_JSON

This doesn't seem to work anymore.

1381b

*⟨LadokSession data methods 1374⟩*+≡

```
# added by GQMJr
def student_participation_JSON (self, studentUID):
    """
    Returns the student's participation in courses.
    """
    headers = self.headers.copy()
    headers['Content-Type'] = 'application/vnd.ladok-studiedeltagande'
    headers['Accept'] += ', application/vnd.ladok-studiedeltagande'
    r = self.session.get(
        url=self.base_gui_proxy_url +
            '/studiedeltagande/internal/tillfallesdeltagande' +
            '/kurstillfallesdeltagande/' + studentUID,
        headers=self.headers)
    return r.json()
```

## 22.9 hamtaStudieResultatForStudent\_JSON

This doesn't seem to work.

1381c

*⟨LadokSession data methods 1374⟩*+≡

```
# added by GQMJr
def hamtaStudieResultatForStudent_JSON (self, studentUID):
    """
    Returns the study results for a student.
    """
    r = self.session.get(url = self.base_gui_proxy_url +
        '/resultat/internal/studieresultat/resultat/student/'+studentUID,
        headers = self.headers).json()
    return r
```

Let's add a test. This function should return a dictionary.

```
1382a <test functions 1382a>≡
def test_hamtaStudieResultatForStudent_JSON():
    r = ladok.hamtaStudieResultatForStudent_JSON(student_uid)
    assert type(r) == dict
```

Root chunk (not used in this document).

The output looks like this:

```
1 {
2   "Resultat": []
3 }
```

## 22.10 Helper methods

```
1382b <LadokSession data methods 1374>+≡
#####
##
## private methods
##

def __get_xsrftoken(self):
    return self.xsrftoken

def get_xsrftoken(self):
    return self.xsrftoken

# returns None or a LADOK-formatted date
def __validate_date(self, date_raw):
    datregex = re.compile(r"(\d\d)?(\d\d)-?(\d\d)-?(\d\d)")
    dat = datregex.match(date_raw)
    if dat:
        if dat.group(1) == None: # add 20, ladok3 won't survive till 2100
            return "20" + dat.group(2) + "-" + dat.group(3) + "-" + dat.group(4)
        else:
            return dat.group(1) + dat.group(2) + \
                "-" + dat.group(3) + "-" + dat.group(4)
    else:
        return None
```

```

def __get_grade_scale_by_id(self, grade_scale_id):
    return next(grade_scale
        for grade_scale in self.get_grade_scales()
            if grade_scale.id == grade_scale_id)

def __get_grade_scale_by_code(self, grade_scale_code):
    return next(grade_scale
        for grade_scale in self.get_grade_scales()
            if grade_scale.code == grade_scale_code)

def __get_grade_by_id(self, grade_id):
    for grade_scale in self.get_grade_scales():
        for grade in grade_scale.grades():
            if grade.id == grade_id:
                return grade

    return None

def __get_student_data(self, person_nr):
    r = self.session.get(
        url=self.base_gui_proxy_url +
            '/studentinformation/student/filtrera?limit=2&orderby=EFTERNAMN_ASC&orderby=FORNAMN_ASC&orderby'
            + person_nr + '&skipCount=false&sprakkod=sv',
        headers=self.headers).json()['Resultat']

    if len(r) != 1: return None

    r = r[0]
    # from schemas/schemas.ladok.se-studentinformation.xsd
    # <xs:complexType name="Student">
    #   <xs:complexContent>
    #     <xs:extension base="base:BaseEntitet">
    #       <xs:sequence>
    #         <xs:element name="Avliden" type="xs:boolean"/>
    #         <xs:element minOccurs="0" name="Efternamn" type="xs:string"/>
    #         <xs:element minOccurs="0" name="ExterntUID" type="xs:string"/>
    #         <xs:element name="FelVidEtableringExternt" type="xs:boolean"/>
    #         <xs:element minOccurs="0" name="Fodelsedata" type="xs:string"/>
    #         <xs:element minOccurs="0" name="Fornamn" type="xs:string"/>
    #         <xs:element minOccurs="0" name="KonID" type="xs:int"/>
    #         <xs:element minOccurs="0" name="Personnummer" type="xs:string"/>
    #         <xs:element minOccurs="0" name="Skyddsstatus" type="xs:string"/>
    #         <xs:element minOccurs="0" ref="si:UnikaIdentifierare"/>
    #       </xs:sequence>
    #     </xs:extension>
    #   </xs:complexContent>
    # </xs:complexType>

```

```

return {
    'id': r['Uid'], # Ladok-ID
    'first_name': r['Fornamn'],
    'last_name': r['Efternamn'],
    'person_nr': r['Personnummer'], # tolv siffror, utan bindestreck eller plustecken
    'alive': not r['Avliden']
}

# detta är egentligen kurstillfällen, inte kurser (ID-numret är alltså ett ID-nummer för ett kurstillfälle)
def __get_student_courses(self, student_id):
    r = self.session.get(
        url=self.base_gui_proxy_url +
            '/studiedeltagande/tillfallesdeltagande/kurstillfallesdeltagande/student/'
            + student_id,
        headers=self.headers).json()

    results = []

    for course in r['Tillfallesdeltaganden']:
        if not course['Nuvarande'] or \
            'Utbildningskod' not in course['Utbildningsinformation']:
            continue

        results.append({
            'id': course['Uid'],
            'round_id': course['Utbildningsinformation']['UtbildningstillfalleUID'], # ett Ladok-ID för kurstillfälle
            'education_id': course['Utbildningsinformation']['UtbildningUID'], # ett Ladok-ID för något annat
            'instance_id': course['Utbildningsinformation']['UtbildningsinstansUID'], # ett Ladok-ID för att
            'code': course['Utbildningsinformation']['Utbildningskod'], # kurskod KOPPS
            'name': course['Utbildningsinformation']['Benamning']['sv']
        })

    return results

def __get_student_course_moments(self, course_round_id, student_id):
    r = self.session.get(
        url=self.base_gui_proxy_url +
            '/resultat/kurstillfalle/' + str(course_round_id) +
            '/student/' + str(student_id) + '/moment',
        headers=self.headers).json()

    return [{
        'course_moment_id': moment['UtbildningsinstansUID'],
        'code': moment['Utbildningskod'],
        'education_id': moment['UtbildningUID'],
        'name': moment['Benamning']['sv']
    } for moment in r['IngaendeMoment']]

```

```

def __get_student_course_results(self, course_round_id, student_id):
    r = self.session.get(
        url=self.base_gui_proxy_url +
            '/resultat/studieresultat/student/' + student_id +
            '/utbildningstillfalle/' + course_round_id,
        headers=self.headers).json()

    return {
        'id': r['Uid'],
        'results': [{
            'education_id': result['UtbildningUID'],
            'pending': {
                'id': result['Arbetsunderlag']['Uid'],
                'moment_id': result['Arbetsunderlag']['UtbildningsinstansUID'],
                'grade': self.__get_grade_by_id(result['Arbetsunderlag']['Betygsgrad']),
                'date': result['Arbetsunderlag']['Examinationsdatum'],
                'grade_scale': self.__get_grade_scale_by_id(result['Arbetsunderlag']['BetygsskalaID']),
                # behövs vid uppdatering av betygskast
                'last_modified': result['Arbetsunderlag']['SenasteResultatandring']
            } if 'Arbetsunderlag' in result else None,
            'attested': {
                'id': result['SenastAttesteradeResultat']['Uid'],
                'moment_id': result['SenastAttesteradeResultat']['UtbildningsinstansUID'],
                'grade': self.__get_grade_by_id(result['SenastAttesteradeResultat']['Betygsgrad']),
                'date': result['SenastAttesteradeResultat']['Examinationsdatum'],
                'grade_scale': self.__get_grade_scale_by_id(result['SenastAttesteradeResultat']['BetygsskalaID'])
            } if 'SenastAttesteradeResultat' in result else None
        } for result in r['ResultatPaUtbildningar']]
    }

```