

pcdl version 3.3.0

Elmar Bucher

MathCancer Lab meeting 2024-08-30



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Concept

PhysiCell data loader is not yet another analysis software, it is just an interface to analysis software!



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HowTo

- [README.md](#)

HowTo Guide:

- [installation and troubleshooting](#)



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Tutorial

- [README.md](#)

Tutorial:

Basics Tutorials:

1. [pcdl background](#) ✓
2. [pcdl processing mcids time steps in python3](#) ✓
3. [pcdl processing mcids time series in python3](#) ✓
4. [pcdl from the command line](#) ✓

Extras tutorials python language:

- [pcdl and python3 and json](#) ✓
- [pcdl and python3 and pandas](#) ✓
- [pcdl and python3 and scipy and scanpy](#)
- [pcdl and python3 and graphs](#)
- [pcdl and python3 and matplotlib](#)
- [pcdl and python3 and ome.tiff, tiff, png, and jpeg](#) ✓
- [pcdl and python3 and napari](#)

Extras tutorials other languages than python:

- [pcdl and R](#)
- [pcdl and julia](#)

Extras tutorials GUI software:

- [pcdl and paraview](#)
- [pcdl and blender](#)
- [pcdl and napari](#)
- [pcdl and fiji imagej](#)



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Reference Manual (API)

Reference Manual:

- [API application interface](#)
- [man/REFERENCE.md](#)
- These are just all the docstings and help documentation available on the webpage.

Demo

- command line functions
- ome.tiff (napari, imagej, python: Jeanette's data)
- scVerse
- R
- Julia



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Next Steps

- finish documentation!
- release 3.3.0
- write on publication draft.
new unit test dataset: 2 substrates; 2 cell types; 24[h]; dt mcds 60[min]; evt. physiboss data; 2D and 3D.
- make_ome_tiff: less RAM consumption
- if possible, make_cell_vtk, make_conc_vtk: speed up



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