

# Guide to use mamba

The user guide of mamba is: <https://mamba.readthedocs.io/en/latest/installation/mamba-installation.html>

## Installation

- Download the latest miniforge3 installer(Or 24.3.0): <https://github.com/conda-forge/miniforge>

### Download

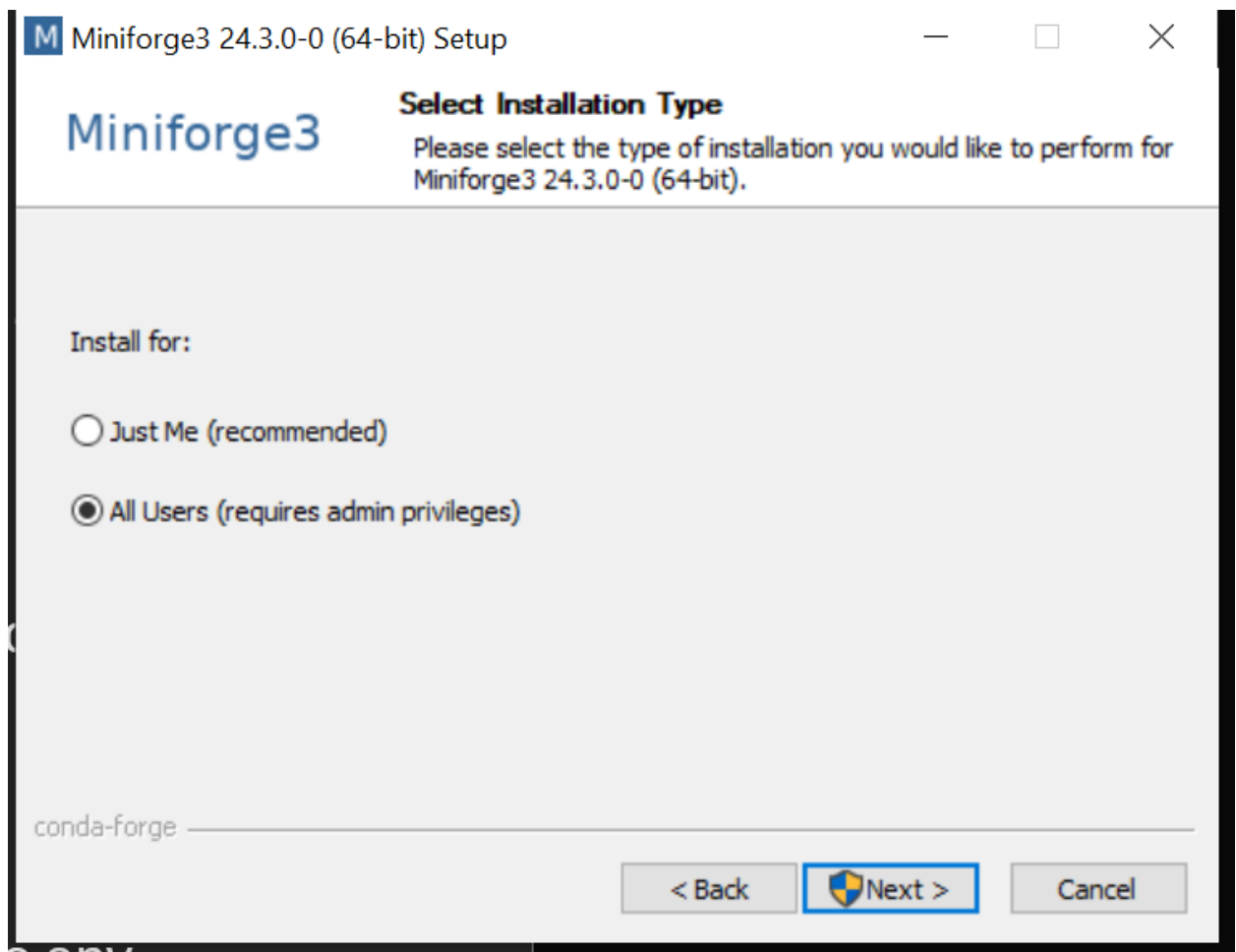
Miniforge installers are available here: <https://github.com/conda-forge/miniforge/releases>

### Miniforge3

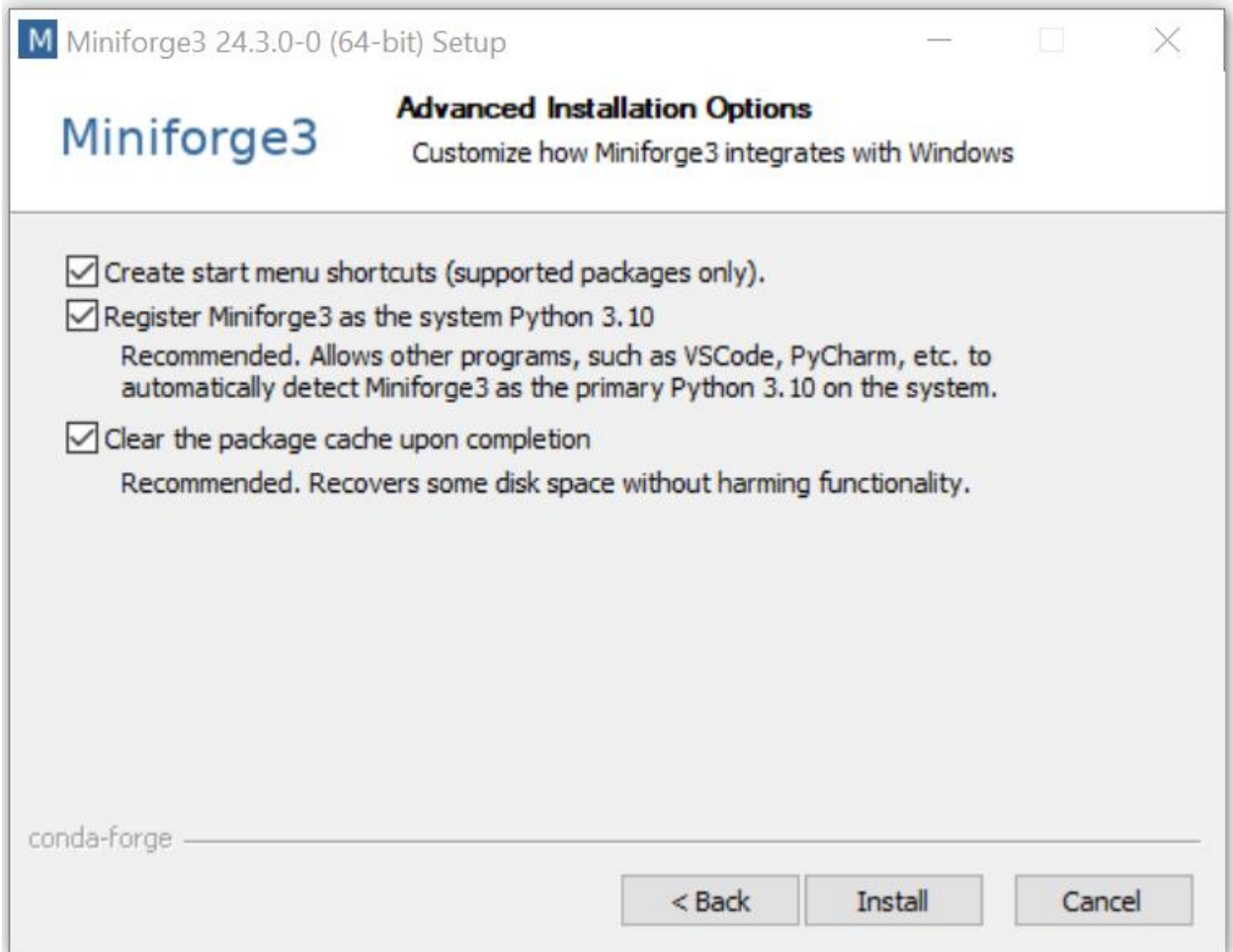
Latest installers with Python 3.12 (\*) in the base environment:

OS	Architecture	Minimum Version	Download
Linux	x86_64 (amd64)	glibc >= 2.17	<a href="#">Miniforge3-Linux-x86_64</a>
Linux	aarch64 (arm64) (**)	glibc >= 2.17	<a href="#">Miniforge3-Linux-aarch64</a>
Linux	ppc64le (POWER8/9)	glibc >= 2.17	<a href="#">Miniforge3-Linux-ppc64le</a>
OS X	x86_64	macOS >= 10.13	<a href="#">Miniforge3-MacOSX-x86_64</a>
OS X	arm64 (Apple Silicon) (***)	macOS >= 11.0	<a href="#">Miniforge3-MacOSX-arm64</a>
Windows	x86_64	Windows >= 7	<a href="#">Miniforge3-Windows-x86_64</a>

- Install for All Users



- Recommend to select all options



- Check environment list by command “mamba env list”

```
(de) C:\direct_electron\de_sdk\trunk\Python\PhilipScripts>mamba env list
```

# conda environments:	
#	
	C:\ProgramData\anaconda3
base	C:\ProgramData\miniforge3
de	* C:\ProgramData\miniforge3\envs\de
libertem	C:\Users\pzhang\.conda\envs\libertem
udi	C:\Users\pzhang\.conda\envs\udi

- Activate your specific environment by command “activate {env name}”

```
(base) C:\>activate libertem  
  
(libertem) C:\>
```

## Create environment and install packages:

- Method1:

Create a new environment by command “mamba create -n {envName}”

Activate the new environment

then install package “numpy” “pillow” “tiffle” “protobuf” “matplotlib” by command  
“mamba install {package name}”

Eg:

```
mamba create -n de
```

```
mamba activate de
```

```
mamba install numpy
```

```
mamba install pillow
```

```
mamba install tiffle
```

```
mamba install protobuf
```

```
mamba install matplotlib
```

- Method2:

Use command “mamba create -n {envName} <list of packages>” to create the env

Activate the new environment

eg:

mamba create -n de numpy pillow tifffile protobuf matplotlib

mamba activate de

Check other commands from the [Conda and Mamba Commands for Managing Virtual Environments | Abdullah Al Imran \(imranabdullah.com\)](https://imranabdullah.com/conda-and-mamba-commands-for-managing-virtual-environments/)

If there are still some issue to run they python script from our example, please check the python version, it should be work if the python version >= 3.11.7

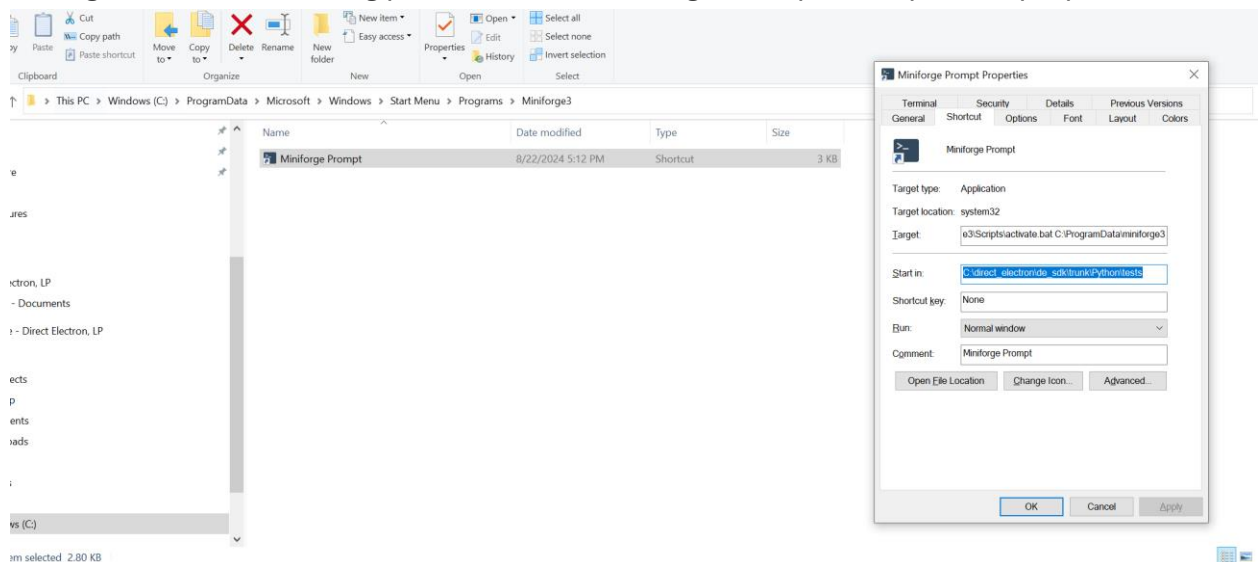
(My current python version)

```
(de) C:\direct_electron\de_sdk\trunk\Python\PhilipScripts>python
Python 3.12.4 | packaged by Anaconda, Inc. | (main, Jun 18 2024, 15:03:56) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

## For convenient

The miniforge always starts with the system path and base environment, for convenient, you can modify the following things

- Change the default loading path - Find the Miniforge Prompt and open the properties



- Change the default environment – Find the activate.bat from C:\ProgramData\miniforge3\Scripts and modify the code “@CALL “%~dp0..\condabin\conda.bat” activate %\*” change “%\*” to the environment name