

# Installing Python and related libraries

Now that we installed a virtual environment, let's install python in it to start working.

Step 1: Activate your virtual environment in which you want to install python.

Step 2: Use this command: conda install python

OR

You can also specify the version of python you want, for example: conda install python = 3.8

```
aseeskaur — conda install python=3.8 — 80x24

(test_pytorch) aseeskaur@Aseess-MacBook-Pro ~ % conda install python=3.8
Collecting package metadata (current_repodata.json): done
Solving environment: done

## Package Plan ##

  environment location: /Users/aseeskaur/opt/miniconda3/envs/test_pytorch

  added / updated specs:
    - python=3.8

The following packages will be downloaded:



| package     | build      |        |
|-------------|------------|--------|
| ncurses-6.3 | hca72f7f_2 | 856 KB |
| Total:      |            | 856 KB |



The following NEW packages will be INSTALLED:

ca-certificates      pkgs/main/osx-64::ca-certificates-2021.10.26-hecd8cb5_2
```

```
aseeskaur — conda install python=3.8 — 80x24

ncurses-6.3 | hca72f7f_2 856 KB
-----
Total: 856 KB

The following NEW packages will be INSTALLED:

ca-certificates  pkgs/main/osx-64::ca-certificates-2021.10.26-hecd8cb5_2
certifi          pkgs/main/osx-64::certifi-2021.10.8-py38hecd8cb5_0
libcxx          pkgs/main/osx-64::libcxx-12.0.0-h2f01273_0
libffi          pkgs/main/osx-64::libffi-3.3-hb1e8313_2
ncurses         pkgs/main/osx-64::ncurses-6.3-hca72f7f_2
openssl         pkgs/main/osx-64::openssl-1.1.1l-h9ed2024_0
pip             pkgs/main/osx-64::pip-21.2.4-py38hecd8cb5_0
python          pkgs/main/osx-64::python-3.8.12-h88f2d9e_0
readline        pkgs/main/osx-64::readline-8.1-h9ed2024_0
setuptools      pkgs/main/osx-64::setuptools-58.0.4-py38hecd8cb5_0
sqlite          pkgs/main/osx-64::sqlite-3.36.0-hce871da_0
tk              pkgs/main/osx-64::tk-8.6.11-h7bc2e8c_0
wheel           pkgs/main/noarch::wheel-0.37.0-pyhd3eb1b0_1
xz              pkgs/main/osx-64::xz-5.2.5-h1de35cc_0
zlib            pkgs/main/osx-64::zlib-1.2.11-h1de35cc_3

Proceed ([y]/n)?
```

Press y to proceed, and it will start downloading the required packages

Now that I have python, I need some basic libraries like, numpy, pandas, matplotlib, etc.

You can do this using the command: `conda install <library name>`.

Note: You can also use pip to install the libraries.

```
aseeskaur — conda install numpy — 80x24
(test_pytorch) aseeskaur@Aseess-MacBook-Pro ~ % conda install numpy
Collecting package metadata (current_repodata.json): done
Solving environment: done

## Package Plan ##

  environment location: /Users/aseeskaur/opt/miniconda3/envs/test_pytorch

  added / updated specs:
    - numpy

The following NEW packages will be INSTALLED:

blas                pkgs/main/osx-64::blas-1.0-mkl
intel-openmp        pkgs/main/osx-64::intel-openmp-2021.4.0-hecd8cb5_3538
mkl                 pkgs/main/osx-64::mkl-2021.4.0-hecd8cb5_637
mkl-service         pkgs/main/osx-64::mkl-service-2.4.0-py38h9ed2024_0
mkl_fft             pkgs/main/osx-64::mkl_fft-1.3.1-py38h4ab4a9b_0
mkl_random          pkgs/main/osx-64::mkl_random-1.2.2-py38hb2f4e1b_0
numpy               pkgs/main/osx-64::numpy-1.21.2-py38h4b4dc7a_0
numpy-base         pkgs/main/osx-64::numpy-base-1.21.2-py38he0bd621_0
six                 pkgs/main/noarch::six-1.16.0-pyhd3eb1b0_0
```

Again, press y to proceed.

```
aseeskaur — -zsh — 80x24

added / updated specs:
- numpy

The following NEW packages will be INSTALLED:

blas                pkgs/main/osx-64::blas-1.0-mkl
intel-openmp        pkgs/main/osx-64::intel-openmp-2021.4.0-hecd8cb5_3538
mkl                 pkgs/main/osx-64::mkl-2021.4.0-hecd8cb5_637
mkl-service         pkgs/main/osx-64::mkl-service-2.4.0-py38h9ed2024_0
mkl_fft             pkgs/main/osx-64::mkl_fft-1.3.1-py38h4ab4a9b_0
mkl_random          pkgs/main/osx-64::mkl_random-1.2.2-py38hb2f4e1b_0
numpy               pkgs/main/osx-64::numpy-1.21.2-py38h4b4dc7a_0
numpy-base         pkgs/main/osx-64::numpy-base-1.21.2-py38he0bd621_0
six                pkgs/main/noarch::six-1.16.0-pyhd3eb1b0_0

Proceed ([y]/n)? y

Preparing transaction: done
Verifying transaction: done
Executing transaction: done
(test_pytorch) aseeskaur@Aseess-MacBook-Pro ~ %
```

I like to work in Jupyter Notebooks so I installed the jupyterlab using the command:  
conda install -c conda-forge jupyterlab

```
aseeskaur — conda install -c conda-forge jupyterlab — 80x24
(test_pytorch) aseeskaur@Aseess-MacBook-Pro ~ % conda install -c conda-forge jupyterlab
Collecting package metadata (current_repodata.json): done
Solving environment: done

==> WARNING: A newer version of conda exists. <==
  current version: 4.10.3
  latest version: 4.11.0

Please update conda by running

    $ conda update -n base conda

## Package Plan ##

  environment location: /Users/aseeskaur/opt/miniconda3/envs/test_pytorch

  added / updated specs:
    - jupyterlab
```

It will ask you to press y to proceed.