

Instructions

1. Download and Install Python

<https://www.python.org/downloads/>

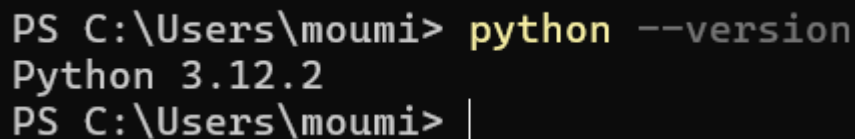
Choose the installer for your system, download, and then install.

Environment setup:

<https://github.com/skills-cogrammar/CoGrammar-Data-Science-Development-Environment-Setup>

After you have installed Python, check on powershell (Windows) or terminal (Mac/Linux) what version using the command

`python --version`



```
PS C:\Users\moumi> python --version
Python 3.12.2
PS C:\Users\moumi> |
```

2. Install VS Code

Download the installer, install it: <https://code.visualstudio.com/>

3. NumPy

If Python is installed, we can pip (package installer for Python) to install other modules/libraries.

`pip install numpy`

or

pip3 install numpy

```
PS C:\Users\moumi> python --version
Python 3.12.2
PS C:\Users\moumi> pip install numpy|
```

If it is already installed, it should say requirement satisfied.

```
PS C:\Users\moumi> python --version
Python 3.12.2
PS C:\Users\moumi> pip install numpy
Requirement already satisfied: numpy in c:\python312\lib\site-packages (1.26.4)
PS C:\Users\moumi> |
```

If NumPy is installed without any errors, you can check the version of NumPy by going into Python environment, and then

import numpy

print(numpy.__version__)

```
Python 3.12.2 (tags/v3.12.2:6abddd9, Feb 6 2024, 21:26:36) [MSC v.1937 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import numpy
>>> print(numpy.__version__)
1.26.4
>>> |
```

If import numpy gives any error, you need to check the installation process.

4. Pandas

Same process as NumPy.

Install with

pip install pandas

or

pip3 install pandas

```
PS C:\Users\moumi> pip install pandas
Requirement already satisfied: pandas in c:\python312\lib\site-packages (2.2.1)
```

Check pandas version in Python

import pandas

print(pandas.__version__)

```
PS C:\Users\moumi> python
Python 3.12.2 (tags/v3.12.2:6abddd9, Feb  6 2024, 21:26:36) [MSC v.1937 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import pandas
>>> print(pandas.__version__)
2.2.1
>>> |
```

Link to Iris dataset used

<https://raw.githubusercontent.com/mwaskom/seaborn-data/master/iris.csv>

5. Jupyter notebook

Install using

pip install jupyter

or

pip3 install jupyter

```
PS C:\Users\moumi> pip install jupyter |
```

Run Jupyter from terminal or powershell

Windows powershell

python -m notebook

```
PS C:\Users\moumi> python -m notebook
```

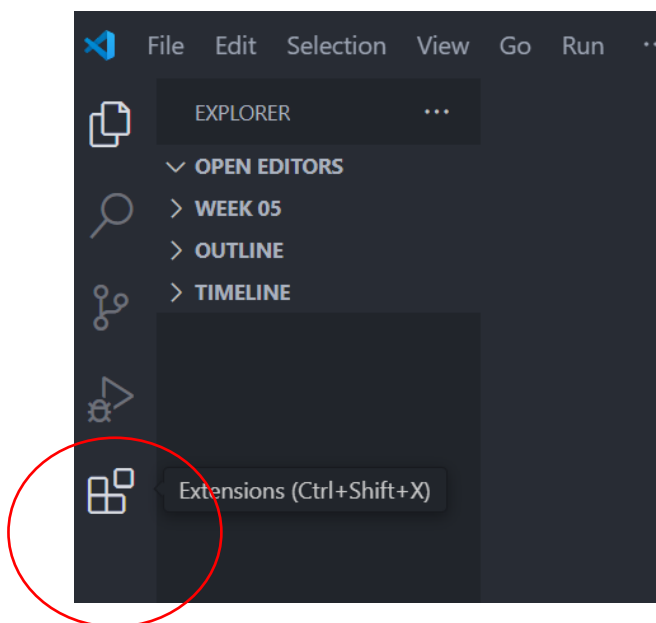
Mac/Linux terminal

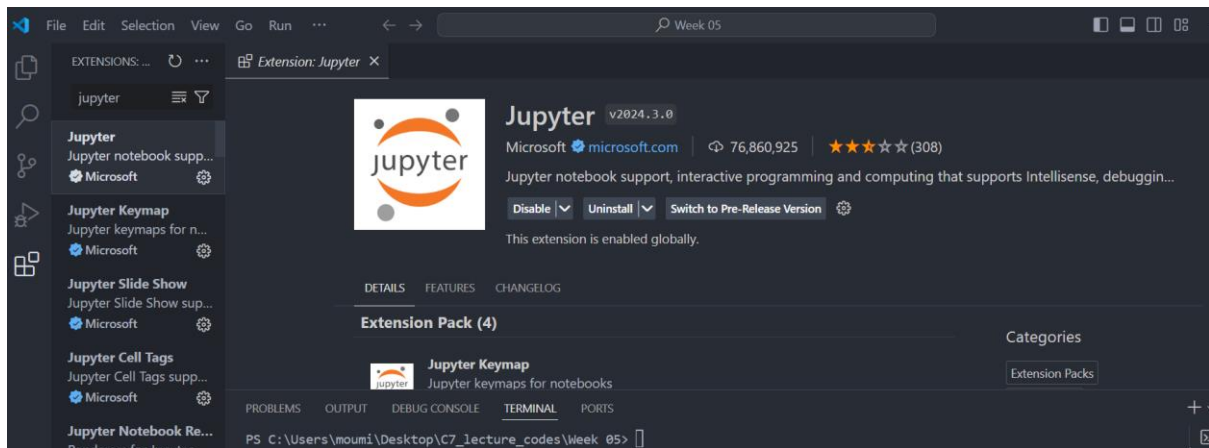
jupyter notebook

```
jupyter notebook
```

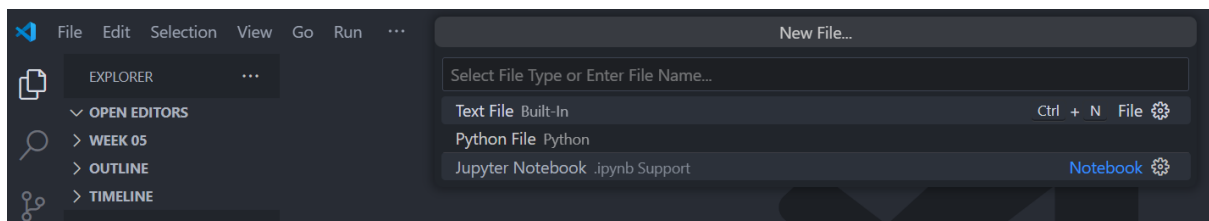
6. Jupyter notebook on VSCode

Open VS Code extensions, search for Jupyter and install the Jupyter extension.





Then you can open a new file as a new Jupyter notebook



More details here:

<https://code.visualstudio.com/docs/datascience/jupyter-notebooks>

Other issues

If you cannot install NumPy or Pandas using the methods used before, you can try using the source codes to install them. However, please note that installation in this case could be more complicated than using pip.

<https://pypi.org/project/numpy/>

<https://pypi.org/project/pandas/>

Otherwise use the link for technical support -

<https://www.hyperiondev.com/support/>