

POLITECNICO
MILANO 1863

DEPARTMENT OF MECHANICAL
ENGINEERING

PYTHON SETUP
ANACONDA AND VISUAL STUDIO CODE

Matteo Bugatti



DIPARTIMENTO DI ECCELLENZA
MIUR 2018-2022



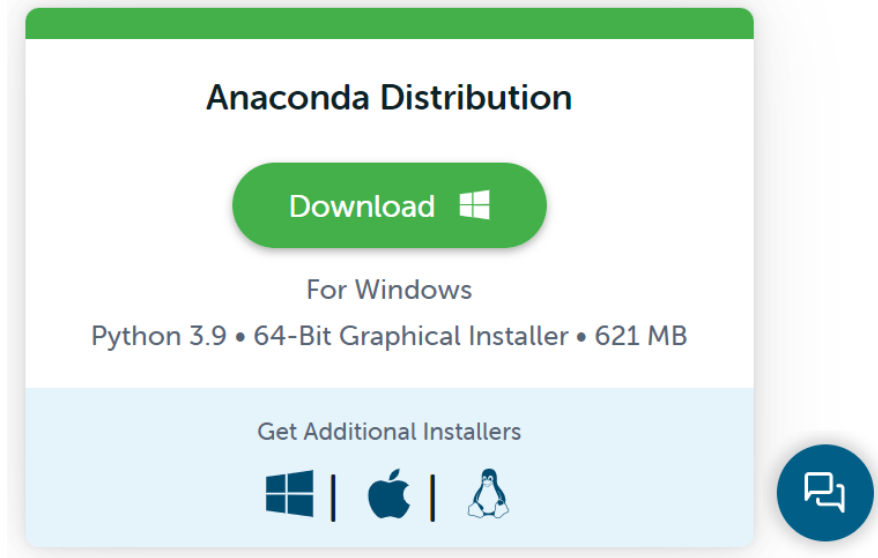
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INSTALL PYTHON

1. Go to:
<https://www.anaconda.com/products/distribution>
2. Download the latest version

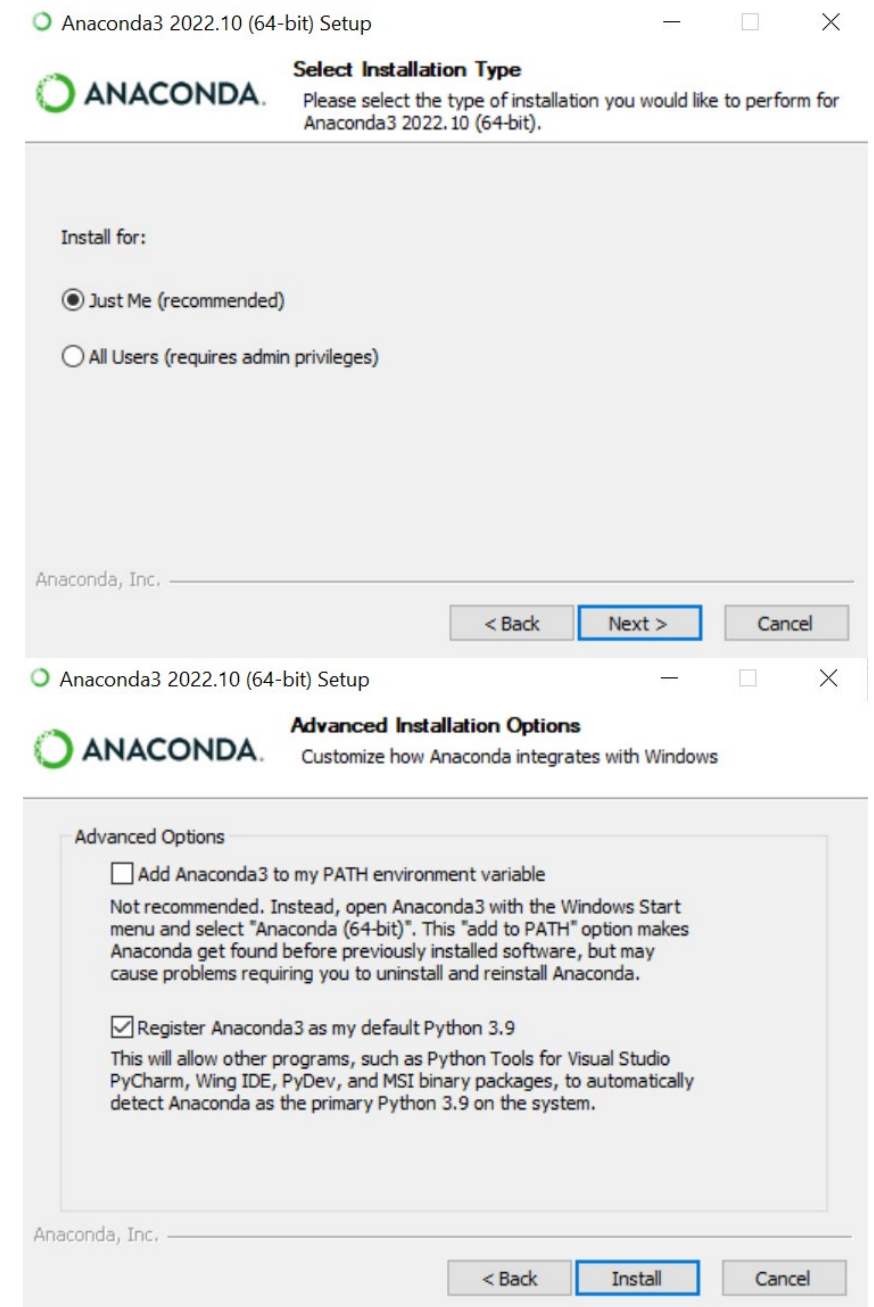
ANACONDA DISTRIBUTION

The world's most popular open-source Python distribution platform



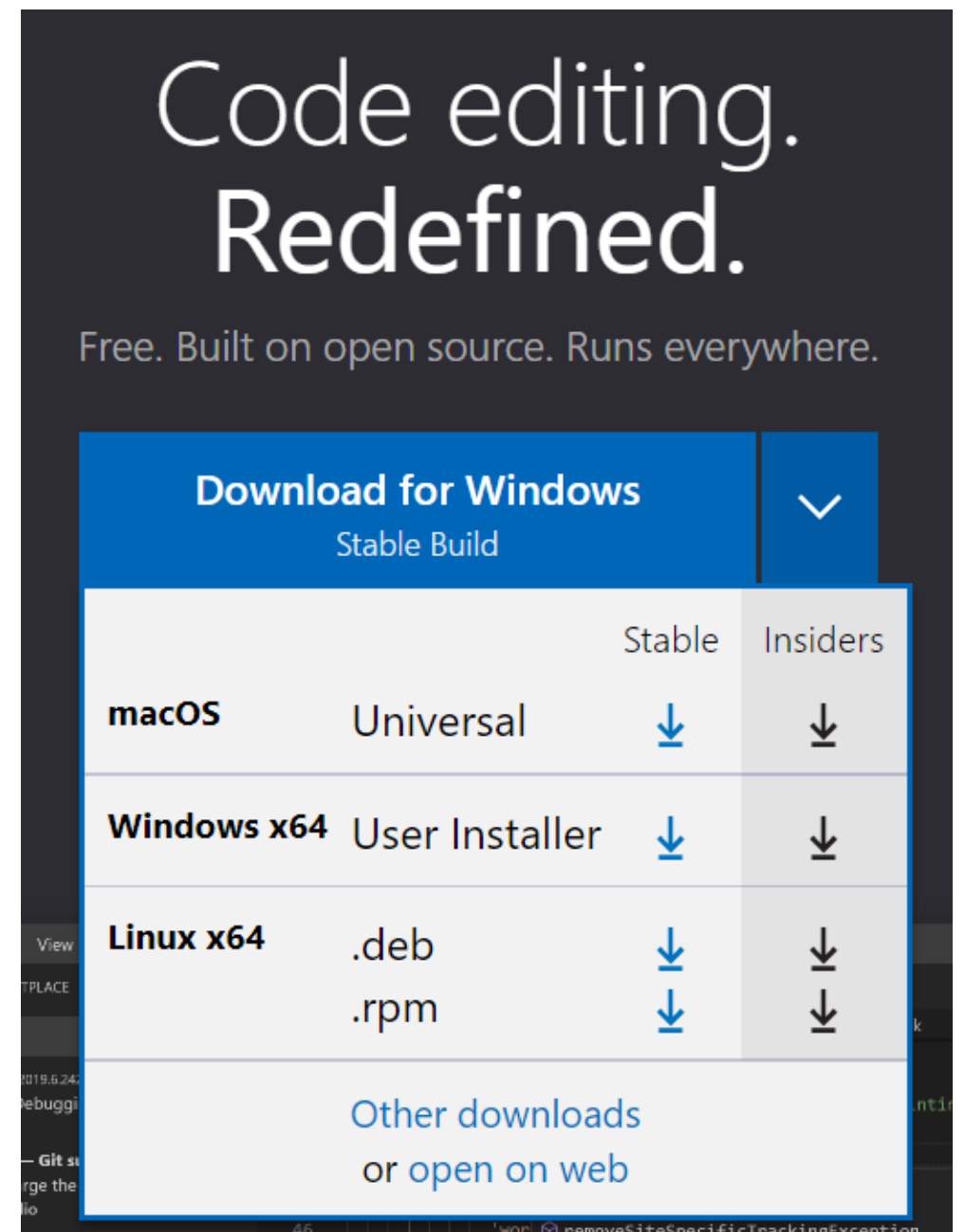
DURING INSTALLATION

1. Run the installer
2. When prompted, select:
 1. Install for: Just me
 2. Advanced options: Register as default Python



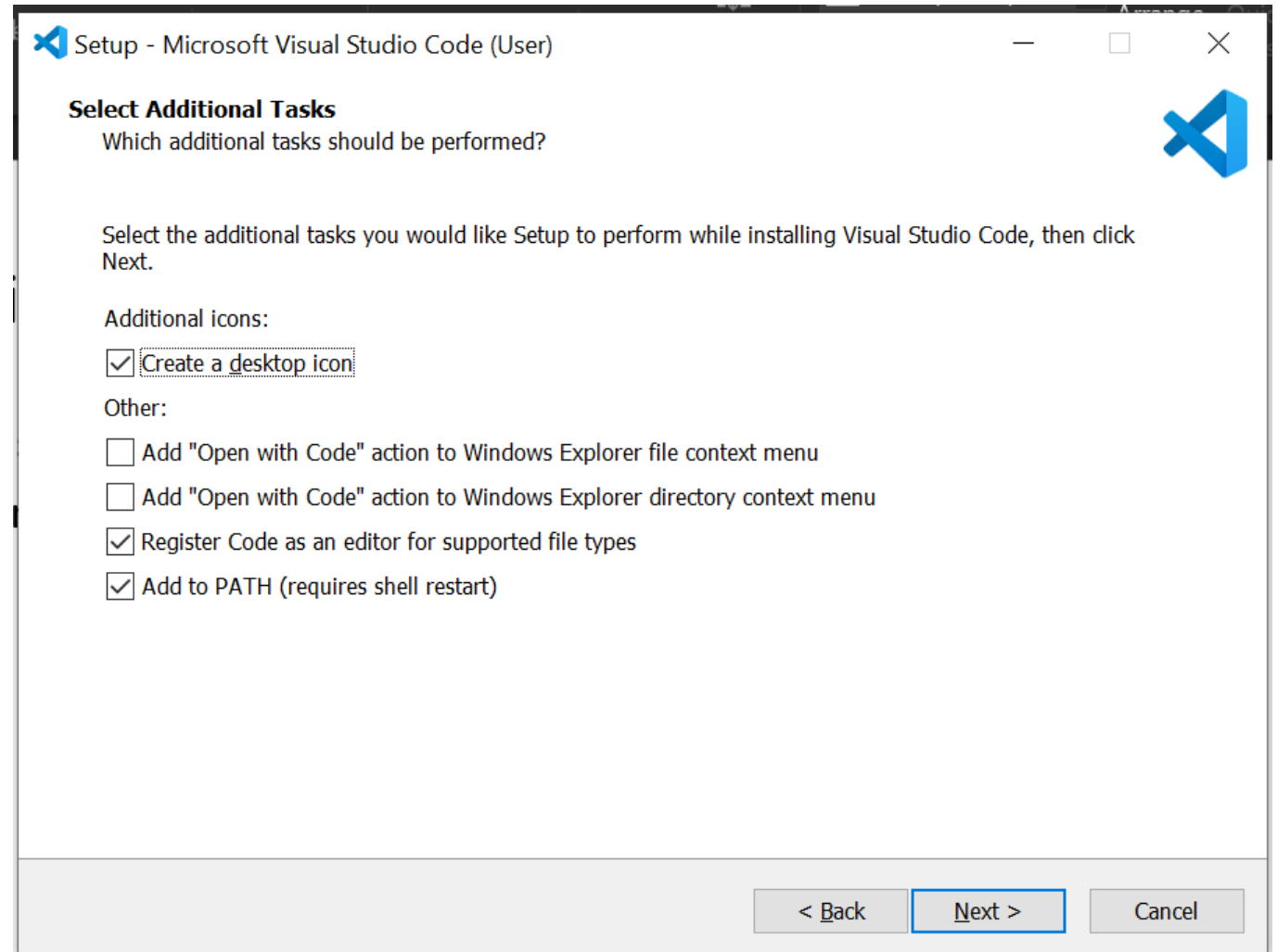
INSTALL THE IDE

- The IDE is the place where you will run the code.
- Recommended IDE for the course: Visual Studio Code.
- Go to: <https://code.visualstudio.com/>
- Download the installer



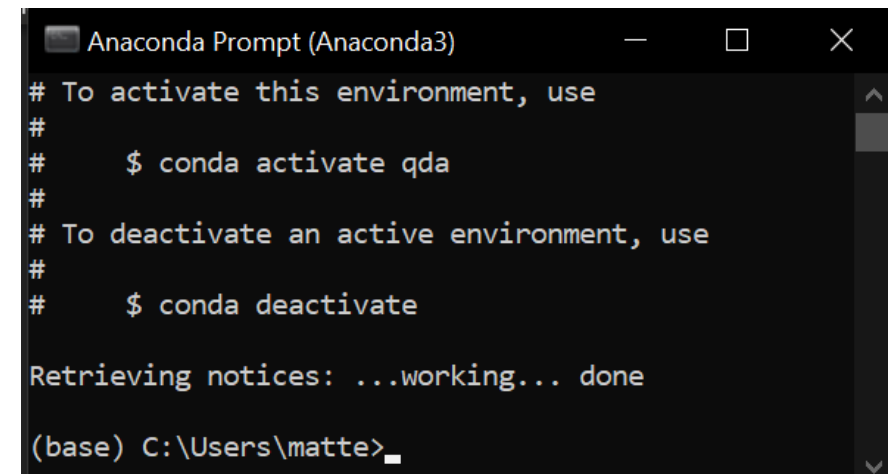
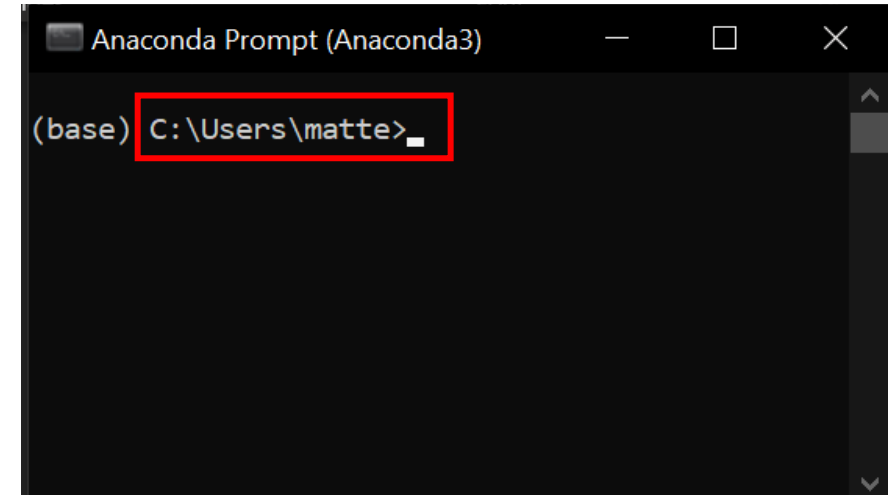
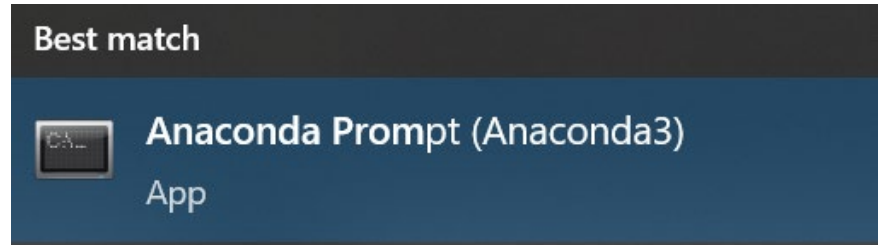
DURING INSTALLATION

- Run the installer.
- When prompted, select the options in the figure.



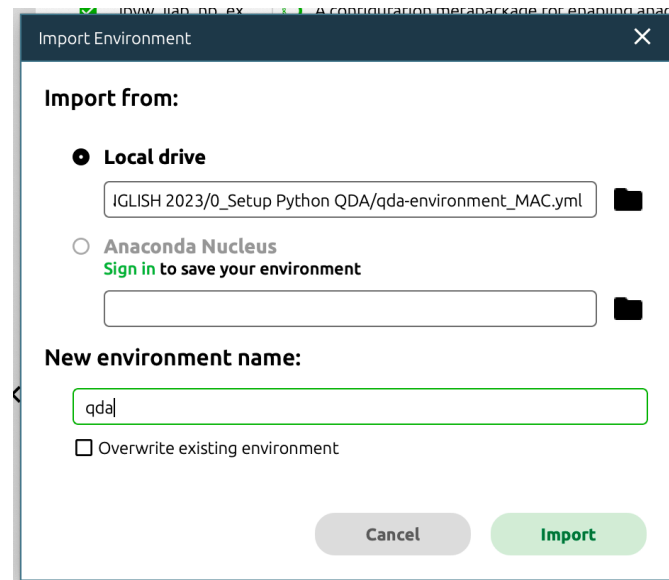
CREATE THE ENVIRONMENT

1. Download the `qda_environment.yml` file.
2. Run Anaconda Prompt.
3. Place `qda_environment.yml` file in the **folder** shown in YOUR Anaconda Prompt.
4. Enter the following command in Anaconda Prompt:
`conda env create -f qda_environment.yml`
5. Wait a few minutes until the environment finishes installing.

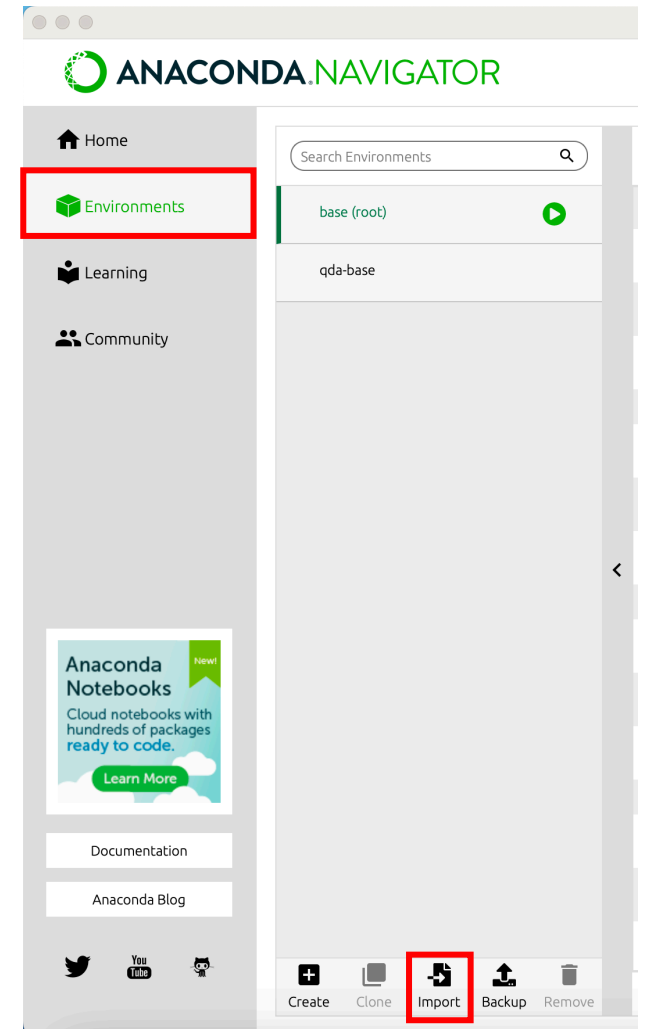


CREATE THE ENVIRONMENT – ALTERNATIVE METHOD

1. Open Anaconda Navigator
2. Go to *Environments* section
3. Press Import and load the `.yaml` file.

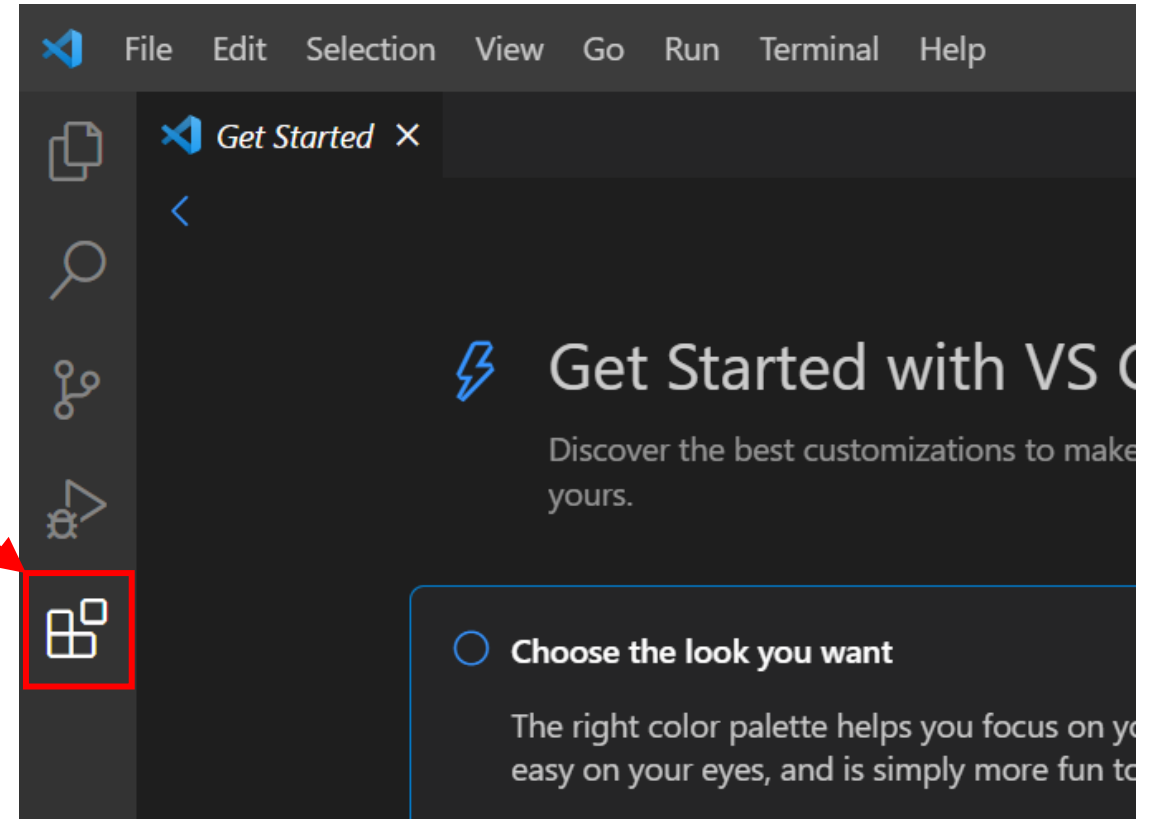


4. Wait a few minutes until the environment finishes installing.



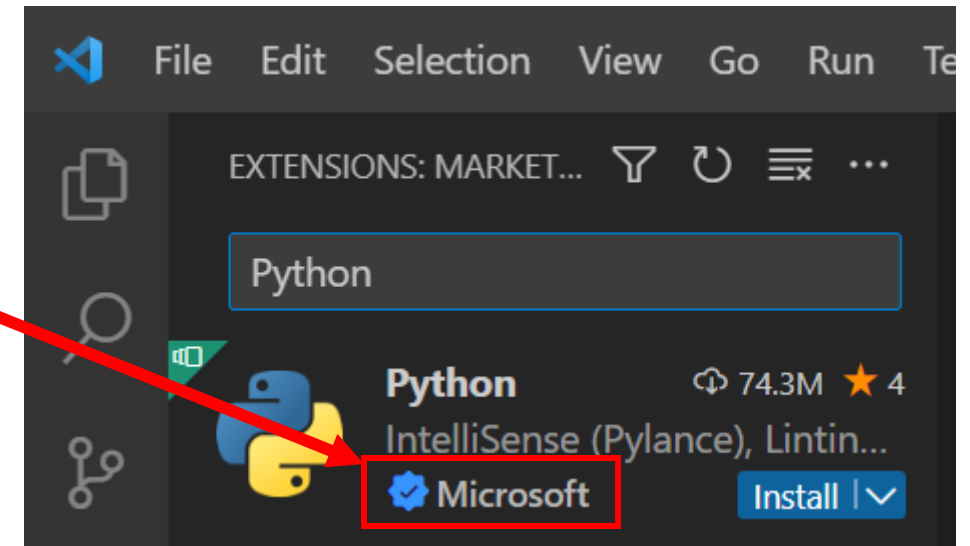
CONFIGURE VISUAL STUDIO CODE

1. Open Visual Studio Code
2. Click on the extensions tab



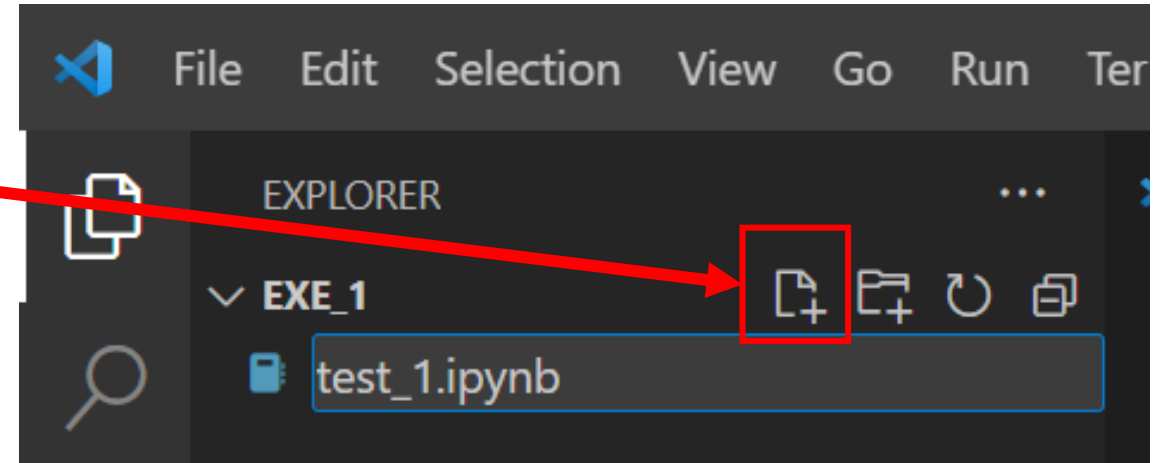
CONFIGURE VISUAL STUDIO CODE

1. Search Python in the Extension market.
2. Install Microsoft's Python extension by clicking on the Install button.
3. Wait for the installation to complete.
4. Restart Visual Studio Code.



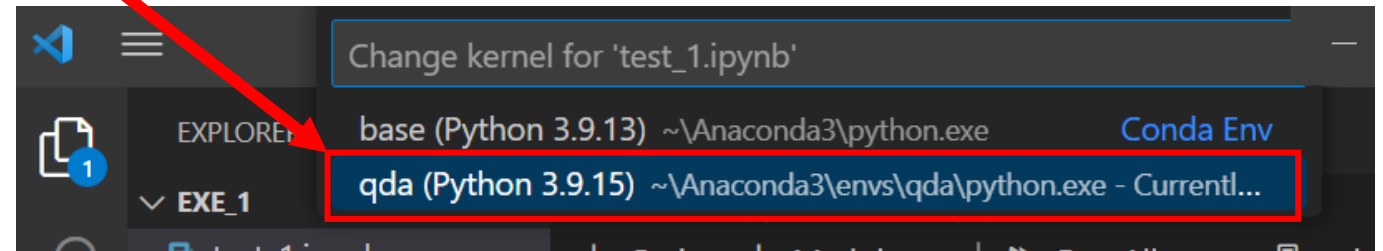
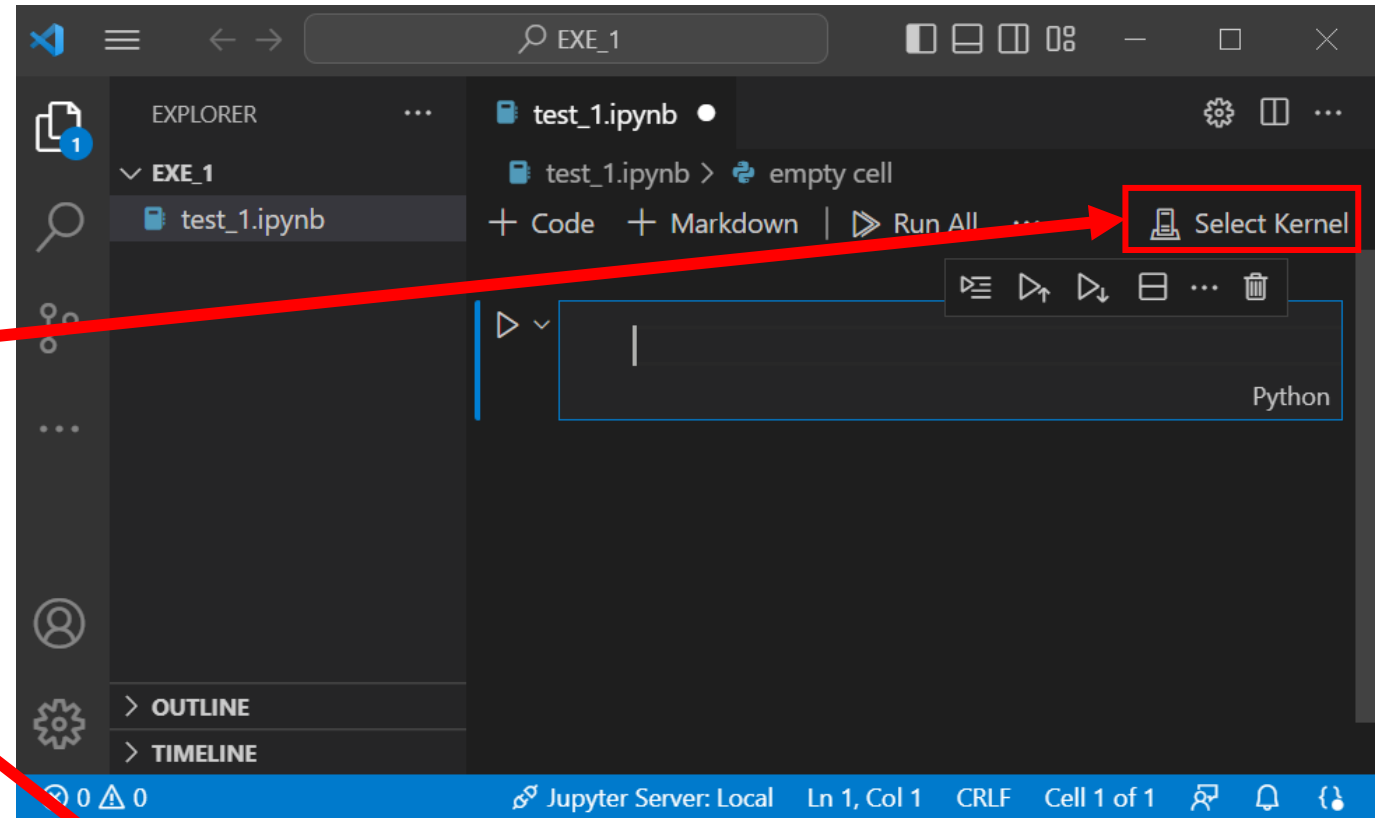
OPEN A WORK DIRECTORY

1. Open the work directory you will use.
2. Click on create a new file.
3. Name it `test_1.ipynb` (make sure to enter the right extension).



SELECT KERNEL

1. Open the file you just created.
2. Click on Select Kernel.
3. Select the qda kernel.



TEST EVERYTHING

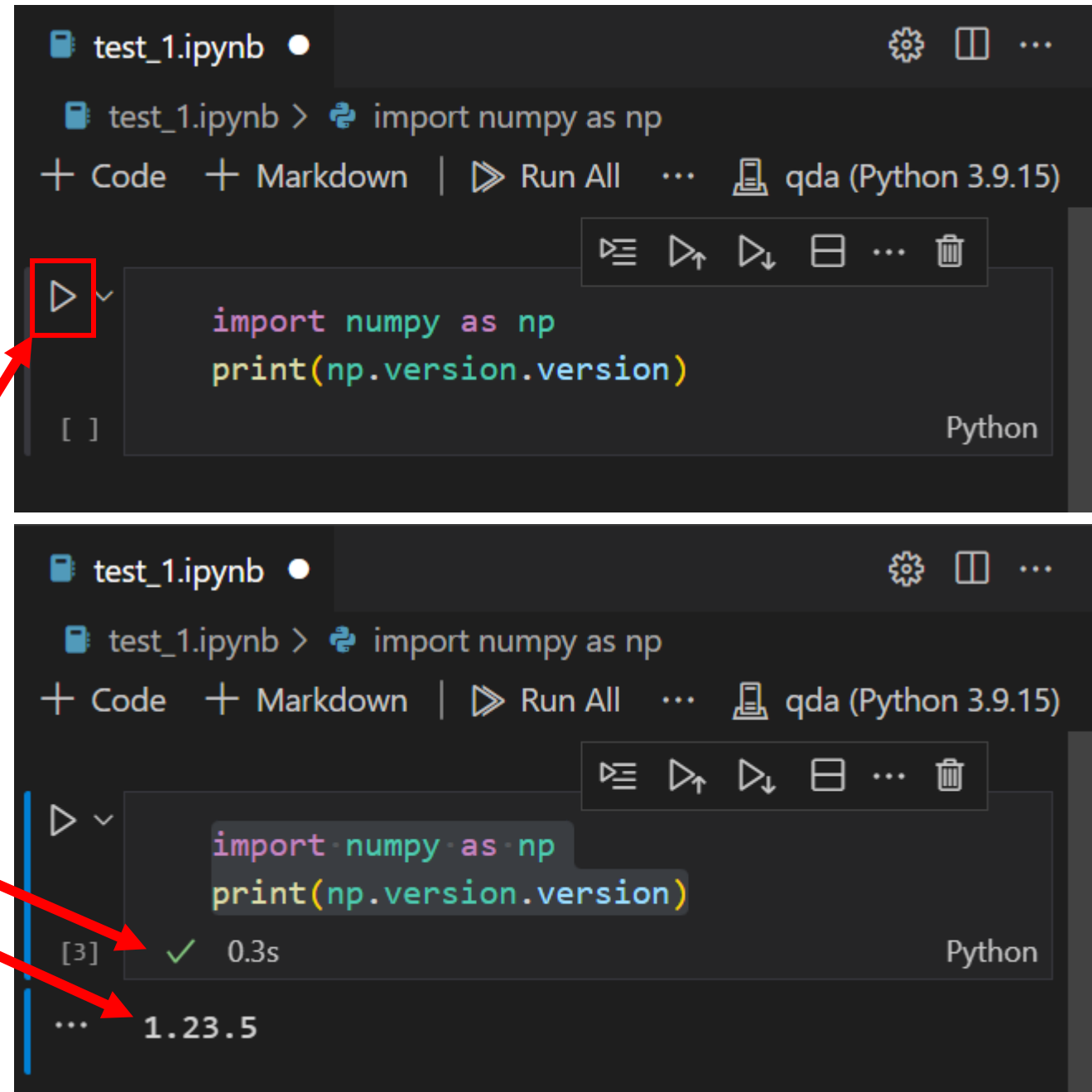
Write in the cell:

```
import numpy as np  
print(np.version.version)
```

And run the cell by clicking on the play icon.

Expected output:

- Computational time
- Installed Numpy version



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