

Anaconda Installation Guide

In this course, we use Python 3.X version, not Python 2.X.

1. Download Anaconda package from the official website:

- Download link: <https://www.anaconda.com/products/individual>
- Scroll down the webpage until you see this section:

The screenshot shows the 'Anaconda Installers' section of the Anaconda website. It is divided into three columns: Windows, MacOS, and Linux. Each column lists available installers for Python 3.8. The Windows column has two options: 64-Bit Graphical Installer (457 MB) and 32-Bit Graphical Installer (403 MB). The MacOS column has two options: 64-Bit Graphical Installer (435 MB) and 64-Bit Command Line Installer (428 MB). The Linux column has two options: 64-Bit (x86) Installer (529 MB) and 64-Bit (Power8 and Power9) Installer (279 MB).

Windows	MacOS	Linux
Python 3.8 64-Bit Graphical Installer (457 MB) 32-Bit Graphical Installer (403 MB)	Python 3.8 64-Bit Graphical Installer (435 MB) 64-Bit Command Line Installer (428 MB)	Python 3.8 64-Bit (x86) Installer (529 MB) 64-Bit (Power8 and Power9) Installer (279 MB)

- Choose the suitable version according to your operating system.
- Then click on the target software we need to install:

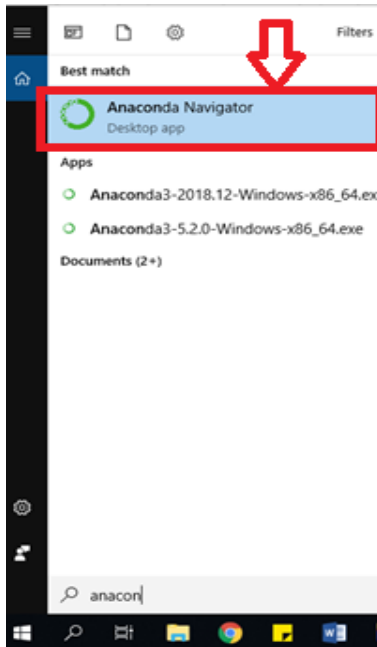
This screenshot is identical to the previous one, but with a red rectangle highlighting the '64-Bit Graphical Installer (457 MB)' option under the Windows column. A red arrow points to the left edge of this rectangle.

Windows	MacOS	Linux
Python 3.8 64-Bit Graphical Installer (457 MB) 32-Bit Graphical Installer (403 MB)	Python 3.8 64-Bit Graphical Installer (435 MB) 64-Bit Command Line Installer (428 MB)	Python 3.8 64-Bit (x86) Installer (529 MB) 64-Bit (Power8 and Power9) Installer (279 MB)

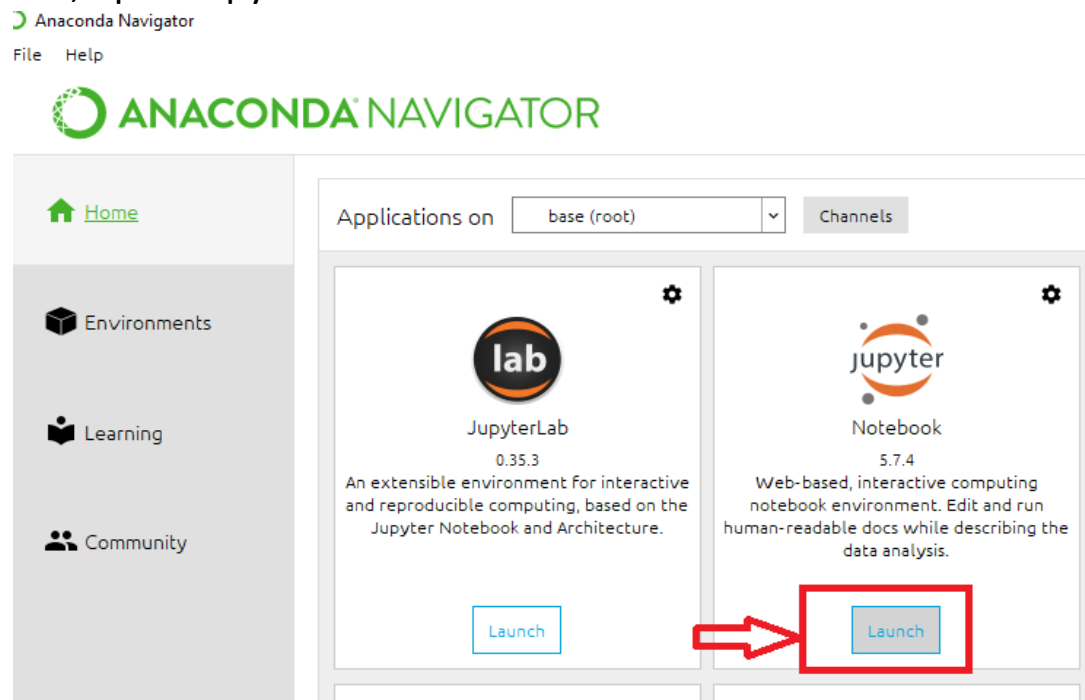
2. Follow the instructions based on the operating system of your machine:

- Windows guide: <https://docs.anaconda.com/anaconda/install/windows/>
- macOS guide: <https://docs.anaconda.com/anaconda/install/mac-os/>
- Linux guide: <https://docs.anaconda.com/anaconda/install/linux/>

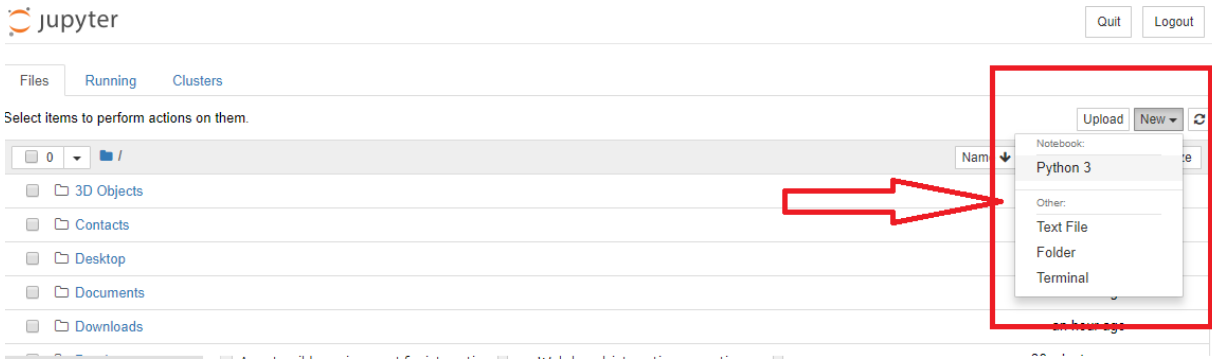
3. After installation, open Anaconda navigator:



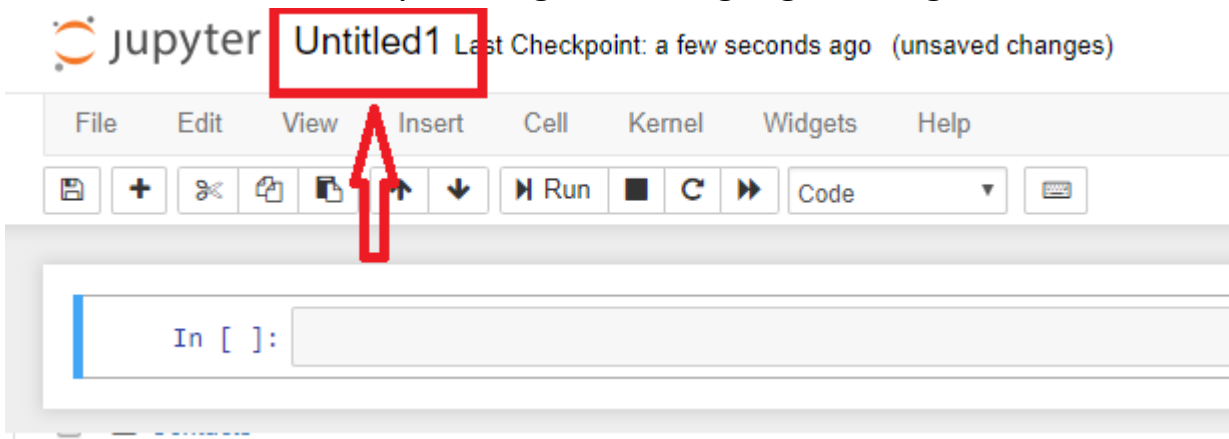
4. Then, open Jupyter notebook as indicated below:



5. Open a new notebook: new -> Python 3



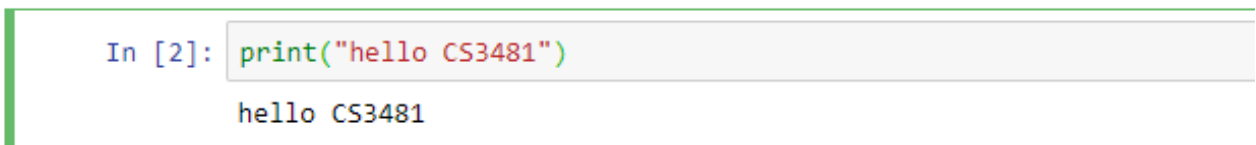
6. Rename the notebook by clicking on the highlighted region as shown below:



7. Writing your first Python command line:

```
print("hello CS3481")
```

After you input the command, press Shift + Enter to execute the command



8. For installing new packages such as “graphviz”:

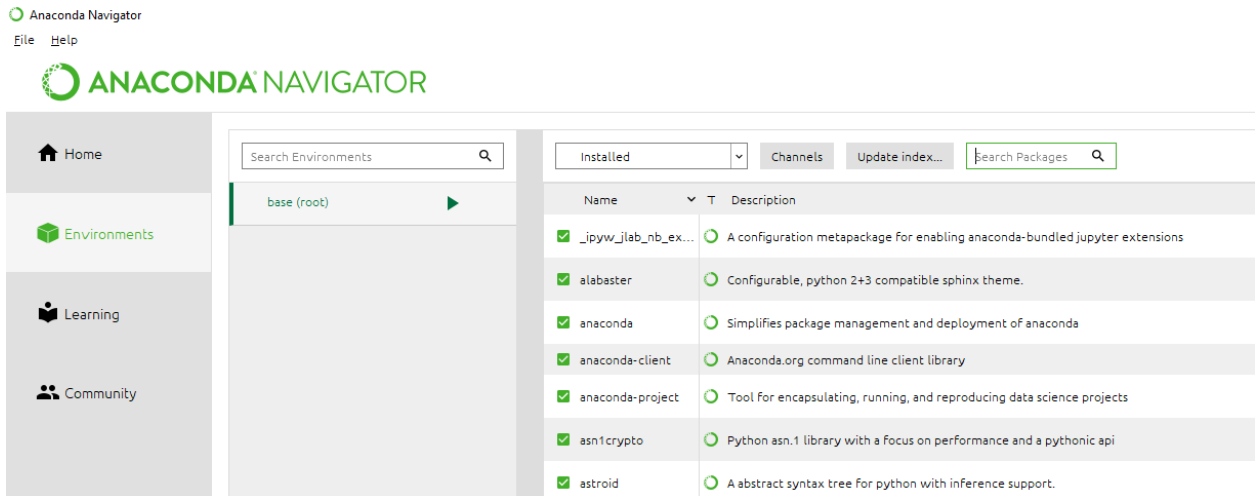
- First check whether the package has been installed.
- If you find the error below, this means the package is not installed.

```
In [7]: import graphviz

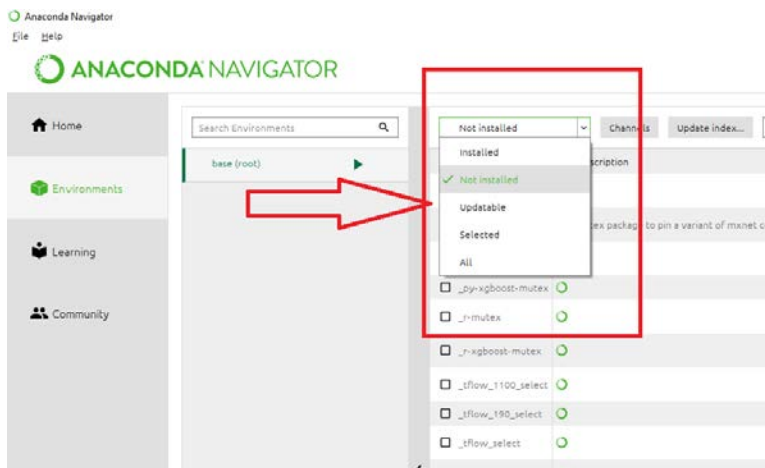
-----
ModuleNotFoundError                                Traceback (most recent call last)
<ipython-input-7-f7133d3517ab> in <module>
----> 1 import graphviz

ModuleNotFoundError: No module named 'graphviz'
```

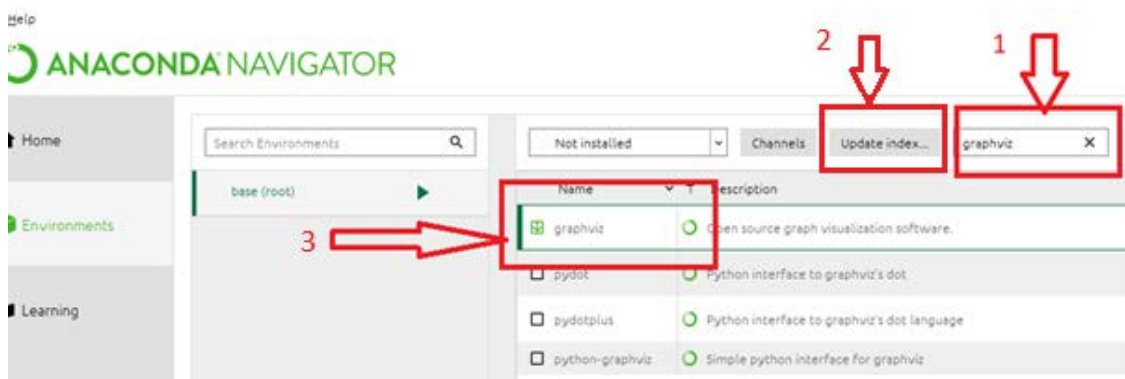
- To install a new package, open Anaconda navigator and click on “Environments” on the left of the screen



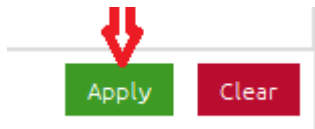
- Then change “Installed” to “Not installed”



- Input the package name you want to install (in our case “graphviz”). Then select the package name as shown in the following snapshot. If the package name does not appear in the list, please click on the “**Update index**” button to refresh the list.

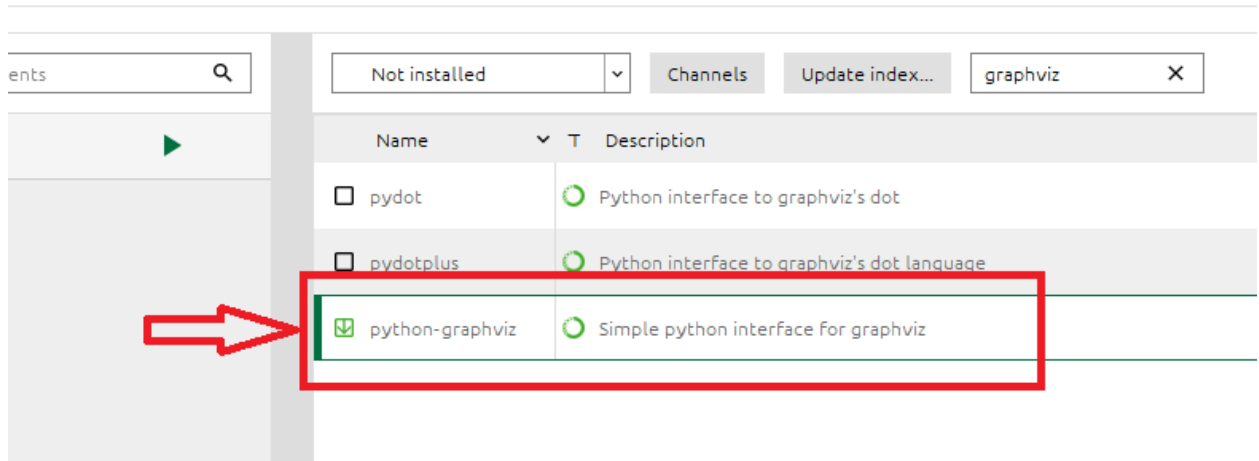


- Click on the Apply button. The installation process will take a few minutes.



- After that, install “python-graphviz”.

ATOR



- Then go to the Jupyter notebook page and run the command “**import graphviz**”.