Installing applications to run Python (Anaconda - Jupyter)

What is Jupyter?

Jupyter is a notebook format Interactive Development Environment (IDE) for writing, executing and documenting python codes.

Steps to install and create your first workbook

Step 1: Go to https://www.anaconda.com/distribution/#windows

Step 2: Scroll down to select the Windows OS and select the 64-bit installer (Python 3.7 version) if your machine runs on 64-bit, or alternatively select the 32-bit installer (Similarly for Macs).

Step 3: Launch the installer, and follow the recommended settings during the installation, but for Advanced Installation Options, make sure to ‘Register Anaconda as my default Python 3.7.

Step 4: Click on the “Jupyter Lab” tile (2nd tile in the main page).
Step 5: Click on the file browser tab and select a folder to create your first workbook on.

Step 6: Create a new workbook with under the “Notebook” section in the main page.
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About Jupyter

Jupyter notebook is executed via the command prompt using the command "jupyter notebook" in a fixed directory. Jupyter is then opened with access to the directory itself. You may open an existing Jupyter notebook (extension .ipynb) or start a new notebook from scratch.

Jupyter Layout

Your current Jupyter notebook is running on a Python kernel.

A kernel is a program that interprets and runs your code in this notebook.

There are other kernels for other programming languages as well (e.g. R)

Types of Jupyter Input

Each cell is a "paragraph" of executable code. The dropdown list (Code, Markdown .etc) indicates whether this paragraph of text should be executed as Python code or implemented as Markdown text.

Jupyter Cells

Unlike normal text editors or IDEs, Jupyter is able to run code chunk by chunk without having to execute the entire code repeatedly. These "chunks of code" are called cells. You can quick-run the code in these cells using SHIFT-ENTER. Try printing “Hello World” By following the cell below and pressing SHIFT-ENTER!

The number on the left of each cell indicates the sequence in which the cells are being executed. * indicates that the cell is in the process of running.

Go to https://youtu.be/A5YyoCKxEOU?t=110 to learn more about different shortcuts in Jupyter [1min50sec onwards]