

What is Jupyter Notebook?

Jupyter Notebook - an open source web application used to create and share documents that contain ~ live code ~ equations ~ visualizations ~ text

The Notebook extends the console-based approach to interactive computing

It's a web-based application for the whole computation process:developing, documenting, executing code, and communicating the results

It's a spin-off from the IPython project, and is maintained by the opensource community at Project Jupyter -- http://jupyter.org/

What is the value of using Jupyter Notebook?

- A Web Application: a browser-based tool for interactive authoring of documents - combineding text, mathematics, code, computations and rich media output.
- Notebook Documents: a representation of all content visible in the web application, including inputs and outputs of computations, explanatory text, mathematics, images, and rich media representations of objects.

We'll also install Jupyter Notebook in VS Code, to use directly inside the IDE, to have a single place to work from as we go.

Install Jupyter Notebook

In your terminal, type

pip install jupyter notebook

Install Jupyter Notebook in VS Code

Make sure you're in the correct directory

Open VS Code

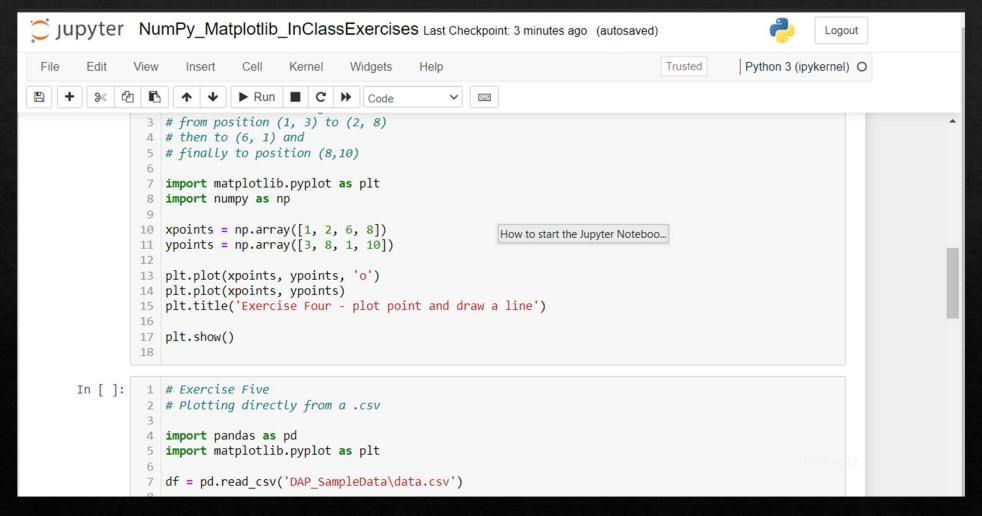
Add the following Extensions by Microsoft: Jupyter, Jupyter Keymap, Jupyter Notebook Renderer, Jupyter
Slide Show, and Jupyter Cell Tags

How to start the Jupyter Notebook Server

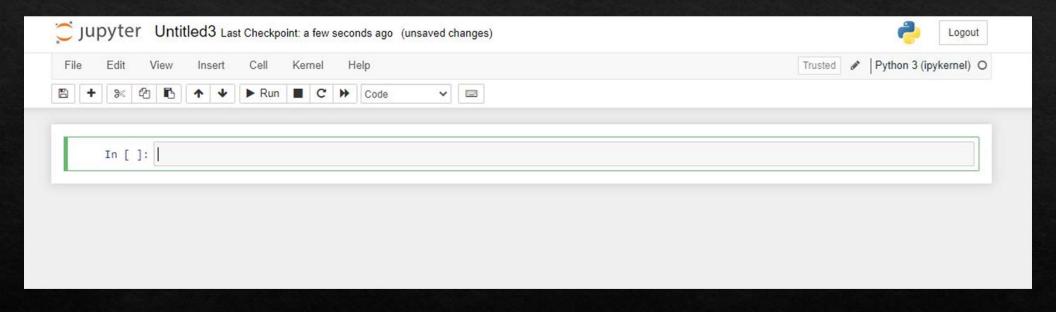
Type 'jupyter notebook' in your terminal and press enter



Starting an existing Notebook should open a screen like this:



Starting a new kernel should open a screen like this:



Using Jupyter Notebook inside VS Code

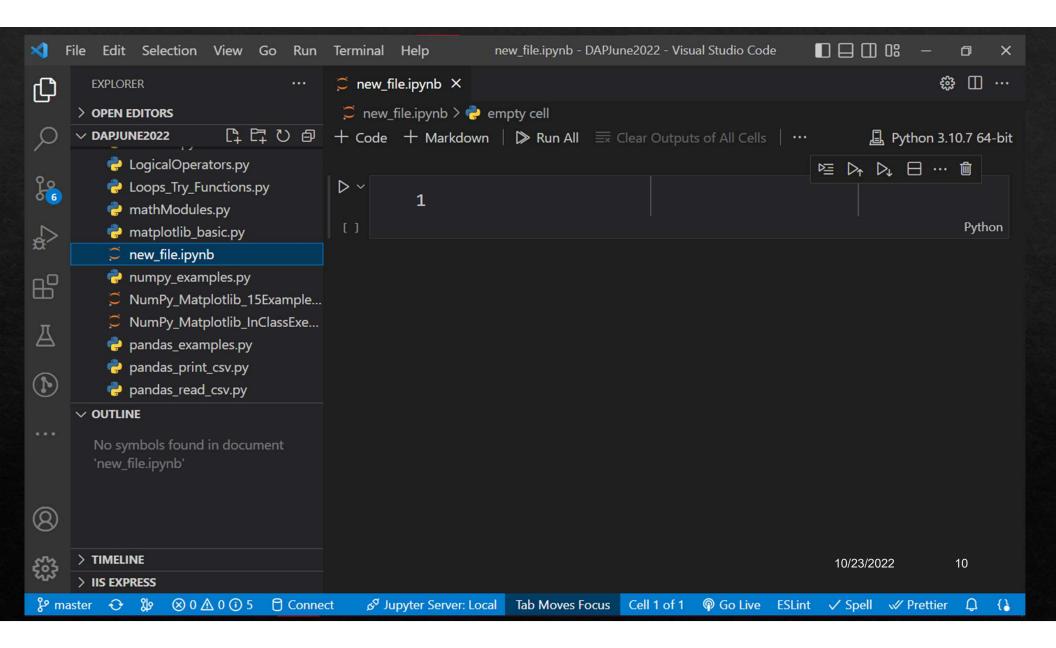
Make sure you're in the correct directory in the Terminal

Open VS Code (code .)

Either Initialize Jupyter Notebook from the console; This will open the web interface (type jupyter notebook)

-- or -

Or to use Jupyter Notebook inside VS Code, create a new file with the `.ipynb` extension 10/23/2022 9



Read more about Jupyter Notebook

The Jupyter Notebooks Project

https://jupyter.org

Jupyter Notebook Quick Start Guide -- https://jupyter-notebook-beginner-guide.readthedocs.io/en/latest/index.html

How to Use Jupyter Notebook: A Beginner's Tutorial <u>https://www.dataquest.io/blog/jupyter-notebook-tutorial</u>

Excellent Article on beautifying Jupyter Notebooks https://towardsdatascience.com/enrich-your-jupyter-notebook-with-these-tips-55c8ead25255