Lab Installation - Jupyter Labs

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Lab Exercises

The lab exercises for this program use Anaconda Navigator and Jupyter Notebooks. Jupyter Notebooks are an open-source web application that allows you to create and share documents that contain live code, equations, visualizations, and narrative text. Before you begin, follow the installation instructions to be sure you have downloaded and installed Anaconda and Jupyter Notebooks.

Jupyter is a web application that was spun-off from the "IPython" or interactive-Python project. Files in Jupyter are typically called *notebooks*, and specifically in Python, *IPython Notebooks*, with a ".ipynb" extension. Its name is a reference to the three main languages it supports: Julia/Python/R, and is a homage to science more generally (specifically Galileo discovering the moons of Jupiter).

Jupyter is nice because it allows easier access to interact with code, share code and also write documentation, as it is markdown supported. Many Python tutorials online are written in Jupyter.

Installing Anaconda, Python, and Jupyter Notebooks

This installation will install Anaconda Navigator and the Jupyter Notebooks.

Follow this link to Install Anaconda for all operating systems.

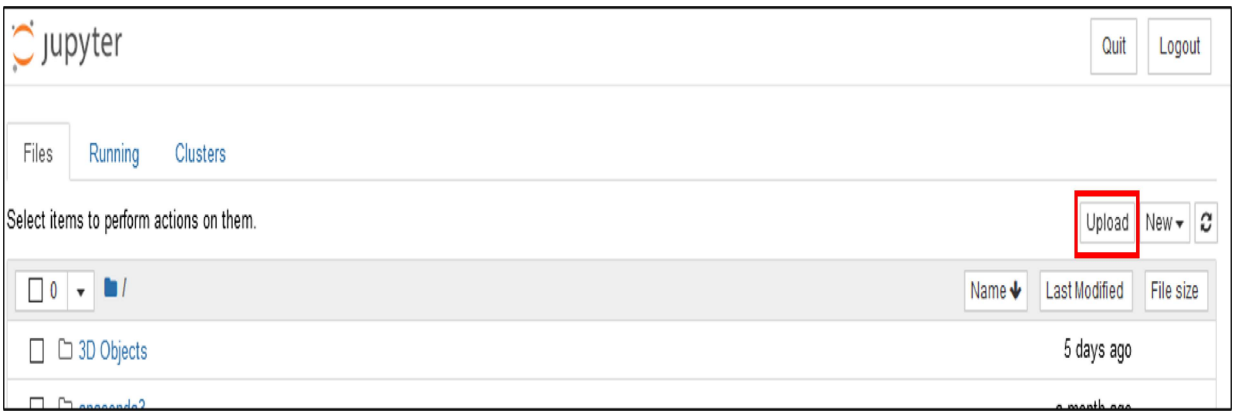
Run a Jupyter Notebook

1. Select and run **Anaconda Navigator**. Once the program has started, on Navigator's Home tab, in the Applications pane on the right, look for the **Jupyter Notebook** tile and click the **Install** button to install Jupyter Notebook.

Note: If you already have Jupyter Notebook installed, you can click on the **Launch** button.

2. Once Jupyter Notebook is installed, launch Jupyter Notebook by clicking Jupyter Notebook's Launch button.

3. The left side shows the folder structure and files on your computer. In this program, you will be asked to download the notebooks. Once downloaded, you will then upload them to Jupyter. To upload click the Upload arrow, select the notebook file (.ipynb - stands for ipython notebook, as mentioned before).



Navigating Jupyter Notebook

- Go to edit mode (click into a cell, green highlight) vs. command mode (escape from a cell, blue highlight)

- Toggle between code and markdown (in command mode, m vs. y)
- Run a cell in jupyter (cmd/ctrl-enter or shift-enter)
- Create a new cell (from command mode, a to create above, b to create below), or delete (d-key twice)
- Interactive output (last line of code always prints to Jupyter standard out)

Close Jupyter Notebook

1. From Jupyter Notebooks top menu bar, select File - Close and Halt.
2. Click the Quit button at the upper right of the Notebook Dashboard and close the window or tab.

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