**Jupyter Notebooks**

**What is Jupyter?**

Jupyter notebooks provide a great development environment for playing around with python. The environment runs in your browser. It is easy to share Jupyter notebooks with colleagues. Jupyter allows for file markdown similar to github readme files. Images can be generated and rendered inline. Function docstrings can be easily searched with ?function\_name.

Jupyter notebooks are a very common way to perform exploratory data analytics with python libraries. Additionally, plots can be generated, tuned, and even exported for use in data dashboards.

**Installation:**

-Make sure you have python3.x installed

- in terminal, run pip3 install notebook

-In terminal, run

Pip3 install notebook

-launch a notebook

Jupyter notebook

Once a notebook is launched, the project structure can be examined within the GUI. New files can be created. Image and data files can be added.

**Running Jupyter**

Jupyter notebooks run on a kernel similar to Mathematica notebooks. Code is made to be executed in individual cell blocks. However, the variable namespace is shared globally, so data mutations in one cell will effect the data values throughout the notebook.

**Tips and Tricks**

Cells are executed one at a time with shift+enter. The whole notebook can be run at once with kernel-> restart and run all. All variables can be cleared from memory with kernel -> Restart and clear output.

A useful guide for some tips and tricks using Jupyter can be found here:

https://www.dataquest.io/blog/jupyter-notebook-tips-tricks-shortcuts/#:~:text=Shift%20%2B%20Tab%20will%20show%20you,from%20where%20your%20cursor%20is.