Jupyter Notebook Overview

Jupyter Notebook

- Jupyter Notebooks enable to create documents mixing rich text with live code and data visualizations.
- It is a great tool to share your data analysis with others, collaborate, teach, and promote reproducible science.
- It currently supports around 40 programming languages, including Python, R and Julia (Ju-pyt-R).

How to install Jupyter Notebook

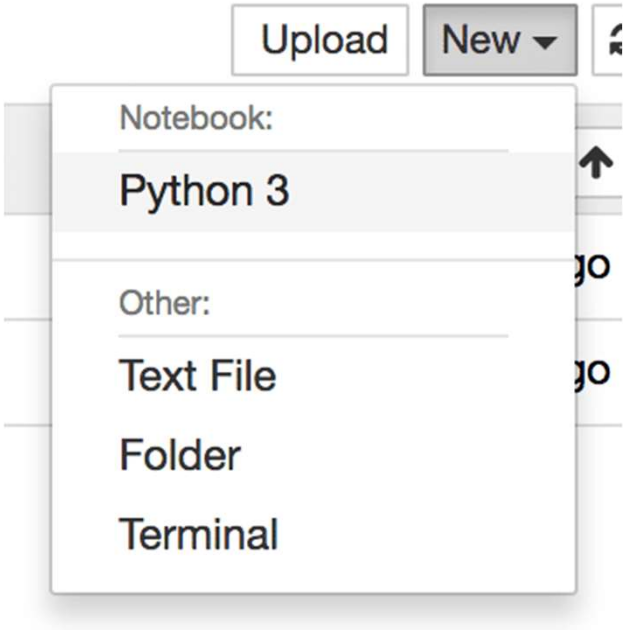
- Anaconda
  - For new users, the general consensus is that you should use the Anaconda distribution to install both Python and the Jupyter notebook.
  - Anaconda installs both these tools and includes quite a lot of packages commonly used in the data science and machine learning community. You can download the latest version of Anaconda from:
    - https://jupyter.readthedocs.io/en/latest/install.html

Creating A New Notebook

- Creating a new Jupyter Notebook is easy. Just use the New dropdown menu and you'll see the following options:
- Select option Python 3 to open a new

  Jupyter Notebook for Python.

  The notebook is created



Exporting The Notebook

- Jupyter Notebook gives you several options to export your notebook.
- Those options can be found in menu File → Download as

How the notebook is stored

- The notebook file is stored in a format called JSON and has the suffix .ipynb.
- Just like HTML for a webpage, what's saved in a notebook file looks different from what you see in your browser.

How to evaluate a cell

- Evaluate the current cell and move to next cell: Shift + Enter
- Evaluate the current cell and keep on current cell: CTRL + Enter
- Evaluate the current cell and add a new empty cell below: Alt + Enter

Getting help

- Open function search: Ctrl + Shift + P

- Get the help for a function: Shift + Tab with the cursor inside the function

Keyboard shortcuts

- While in command mode
  - A to insert a new cell above the current cell
  - B to insert a new cell below.
  - M to change the current cell to Markdown
  - Y to change it back to code
  - D D (press the key twice) to delete the current cell

Keyboard shortcuts

- While in edit mode
  - Ctrl + Shift + - will split the current cell into two from where your cursor is
  - Esc + F Find and replace on your code but not the outputs
  - Esc + O Toggle cell output
  - Shift + J or Shift + Down select the next cells in a downwards direction
  - Shift + K or Shift + Up select cells in an upwards direction
    - Once cells are selected, you can then delete / copy / cut / paste / run them as a batch. This is helpful when you need to move parts of a notebook
  - Shift + M merge multiple cells

Thanks