**Jupyter and Google Colab**

**Jupyter Notebooks:**

* Already set up through Anaconda.
* Runs on local system.
* Extra functionalities available with Nbextensions

**Basic Keyboard Shortcuts:**

* Know what keys *not* to press in command mode.
* B to make a new cell below selected cell.
* X to cut, C to copy, V to paste.
* DD to delete.
* F to find (and replace) in selected cells.
* Y to change selected cell to code, M to change to markdown, R to change to raw text.
* H to view command mode keyboard shortcuts.
* Z to undo.

**Installing Nbextensions:**

conda install -c conda-forge jupyter\_contrib\_nbextensions

**Recommended extensions**:

* Table of Contents (Hierarchical: #, ##, ###, etc.)
* Collapsible Headings / Codefolding (tidy up large notebooks)
* Variable Inspector
* Execute Time
* Notify (enables browser notification when notebook is idle)
* Hinterland (autocomplete)
* Ruler (set a dotted line for PEP8 conformity)

**iPython magic commands:**

* Formatted as: %\*command\*
* %matplotlib inline (stores plot output directly in notebook file.)

**Google Colab Notebooks:**

* Runs in Google Cloud using Google Compute Engine.
* Provides GPU and TPU options for hardware acceleration.
* Option to load from and save to GitHub directly.
* No access to extensions, but default features cover some of them.
* “Command/Control-M” to as prefix to keyboard shortcuts that modify document
* “Command/Control-Shift-P” to access Keyboard Shortcut Palette

**Colaboratory FAQ:**

<https://research.google.com/colaboratory/faq.html#gpu-availability>

**Loading files into Colab from Google Drive:**

<https://medium.com/lean-in-women-in-tech-india/google-colab-the-beginners-guide-5ad3b417dfa>