

Jupyter Notebook Cheatsheet

October 21, 2019

0.1 The Two Modes of Jupyter

Jupyter has two modes—editing mode and escape mode. You can use these keys to switch between the two.

- `esc` – Switch to escape mode.
- `enter` – Switch to edit mode.

0.2 Cell-types

There are three cell-types in Jupyter: Markdown, Code and Raw. You will probably never use Raw. Markdown and Code are self-explanatory. If you know how to use Markdown for Github, you know how to use it for Jupyter. A guide to Markdown may be found at your local Google.

Switching between modes is non-destructive; it won't affect the contents.

The following commands must be executed in **escape mode**.

- `m` – Switch cell-type to Markdown.
- `y` – Switch cell-type to Code
- `r` – Switch cell-type to Raw.

0.3 Navigating a Jupyter Notebook

In escape mode, one of the cells will be highlighted. We will refer to this cell as the **current cell**.

The following commands are best executed in **escape mode**. Some will partially work ineffectively in editing mode.

- `up-arrow` – Move the cell-highlighter one cell up.
- `down-arrow` – Move the cell-highlighter one cell down.

0.4 Executing Cells

These commands may be executed in **both editing and escape mode**.

- `ctrl + enter` – Execute the current cell.
- `shift + enter` – Execute the current cell and move to the next cell below.
- `alt + enter` – Execute the current cell, make a new cell below, move to it, then enter editing mode.

0.5 Adding New Cells

You can add cells in a position relative to the current cell.

- **a** – Add new cell *above* the current cell.
- **b** – Add new cell *below* the current cell.

0.6 Quickly See Documentation

This is overlooked by beginners, who spend their time googling more than is necessary.

- **shift + tab** – View the documentation.

The documentation appears in a dialog-box. Press the plus icon at the top right to see the full documentation. This is a fickle shortcut, so you must ensure that the caret is inside the function's parathenses.

For example, if I am using `math.floor()`, I must have my caret inside the parantheses. If the function contains multiple paramters, it will work anywhere inside the function.

0.7 Editing, Copying and Moving Cells

These commands will help you restructure your code. The commands are particularly useful for moving cells *between* notebooks.

The following commands must be executed in **escape mode**.

- **c** – Copy the highlighted cell.
- **x** – Cut the highlighted cell. (This is a copy followed by a deletion.)
- **v** – Paste the copied cell.
- **dd** – Delete the current cell.
- **z** – Undo last cell operation.
- **ctrl + z** – Redo last cell operation.

You can perform some of the above operations on multiple cells if you highlight multiple cells.

- **shift + up-arrow/down-arrow** or **shift + k/j** – Highlight multiple cells. Each additional up- or down-arrow is one more cell in that direction. Releasing the shift and pressing up or down will un-highlight the cells.

The following commands must be executed in **editing mode**.

- **ctrl + d** – Delete line of code at caret.