

# Python For Data Science Cheat Sheet

## Jupyter Notebook

Learn More Python for Data Science Interactively at [www.DataCamp.com](http://www.DataCamp.com)



### Saving/Loading Notebooks

Create new notebook

Make a copy of the current notebook

Save current notebook and record checkpoint

Preview of the printed notebook

Close notebook & stop running any scripts

Open an existing notebook

Rename notebook

Revert notebook to a previous checkpoint

Download notebook as:

- Python notebook
- HTML
- Markdown
- reST
- LaTeX
- PDF

### Writing Code And Text

Code and text are encapsulated by 3 basic cell types: markdown cells, code cells, and raw NBConvert cells.

#### Edit Cells

Cut currently selected cells to clipboard

Paste cells from clipboard above current cell

Paste cells from clipboard on top of current cell

Revert "Delete Cells" invocation

Merge current cell with the one above

Move current cell up

Adjust metadata underlying the current notebook

Remove cell attachments

Paste attachments of current cell

Copy cells from clipboard to current cursor position

Paste cells from clipboard below current cell

Delete current cells

Split up a cell from current cursor position

Merge current cell with the one below

Move current cell down

Find and replace in selected cells

Copy attachments of current cell

Insert image in selected cells

#### Insert Cells

Add new cell above the current one

Add new cell below the current one

### Working with Different Programming Languages

Kernels provide computation and communication with front-end interfaces like the notebooks. There are three main kernels:

IPython  
IRkernel  
Julia

Installing Jupyter Notebook will automatically install the IPython kernel.

Restart kernel

Restart kernel & run all cells

Restart kernel & run all cells

Interrupt kernel

Interrupt kernel & clear all output

Connect back to a remote notebook

Run other installed kernels

#### Command Mode:

Jupyter MyJupyterNotebook Last Checkpoint: a few seconds ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help

1 2 3 4 5 6 7 8 9 10 11 12

In [ ]:

#### Edit Mode:

In [ ]:

1. Save and checkpoint
2. Insert cell below
3. Cut cell
4. Copy cell(s)
5. Paste cell(s) below
6. Move cell up
7. Move cell down
8. Run current cell
9. Interrupt kernel
10. Restart kernel
11. Display characteristics
12. Open command palette
13. Current kernel
14. Kernel status
15. Log out from notebook server

### Executing Cells

Run selected cell(s)

Run current cells down and create a new one below

Run all cells

Run all cells above the current cell

Run all cells below the current cell

Change the cell type of current cell

toggle, toggle scrolling and clear all output

Run Cells

Run Cells and Select Below

Run Cells and Insert Below

Run All

Run All Above

Run All Below

Cell Type

Current Outputs

All Output

### View Cells

Toggle display of Jupyter logo and filename

Toggle display of toolbar

Toggle line numbers in cells

Toggle display of cell action icons:

- None
- Edit metadata
- Raw cell format
- Slideshow
- Attachments
- Tags

View

Insert

Cell

Toggle Header

Toggle Toolbar

Toggle Line Numbers

Cell Toolbar

### Widgets

Notebook widgets provide the ability to visualize and control changes in your data, often as a control like a slider, textbox, etc.

You can use them to build interactive GUIs for your notebooks or to synchronize stateful and stateless information between Python and JavaScript.

Download serialized state of all widget models in use

Save notebook with interactive widgets

Embed current widgets

Widgets

Help

Save Notebook with Widgets

Download Widget State

Embed Widgets

### Asking For Help

Walk through a UI tour

Edit the built-in keyboard shortcuts

Description of markdown available in notebook

Python help topics

NumPy help topics

Matplotlib help topics

Pandas help topics

List of built-in keyboard shortcuts

Notebook help topics

Information on unofficial Jupyter Notebook extensions

IPython help topics

SciPy help topics

SymPy help topics

About Jupyter Notebook

Help

User Interface Tour

Keyboard Shortcuts

Edit Keyboard Shortcuts

Notebook Help

Markdown

Jupyter-contrib nbextensions

Python

IPython

NumPy

SciPy

Matplotlib

SymPy

pandas

About

