

Python For Data Science Cheat Sheet

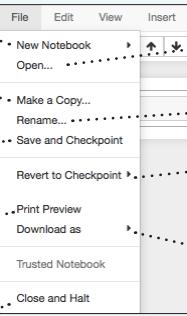
Jupyter Notebook

Learn More Python for Data Science Interactively at www.DataCamp.com



Saving/Loading Notebooks

Create new notebook



Make a copy of the current notebook

Open an existing notebook

Rename notebook

Save current notebook and record checkpoint

Revert notebook to a previous checkpoint

Preview of the printed notebook

Download notebook as - IPython notebook, Python, HTML, Markdown, reST, LaTeX, PDF

Close notebook & stop running any scripts

Trusted Notebook
Close and Halt

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

Copy cells from clipboard to current cursor position

Paste cells from clipboard above current cell

Paste cells from clipboard below current cell

Paste cells from clipboard on top of current cell

Delete current cells

Revert "Delete Cells" invocation

Split up a cell from current cursor position

Merge current cell with the one above

Merge current cell with the one below

Merge current cell up

Move current cell down

Adjust metadata underlying the current notebook

Find and replace in selected cells

Remove cell attachments

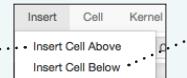
Copy attachments of current cell

Paste 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



IJulia

Installing Jupyter Notebook will automatically install the IPython kernel.

Restart kernel

Restart kernel & run all cells

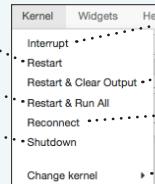
Restart kernel & run all cells

Interrupt kernel

Interrupt kernel & clear all output

Connect back to a remote notebook

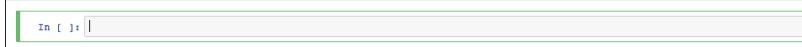
Run other installed kernels



Command Mode:



Edit Mode:



Executing Cells

Run selected cell(s)

Run current cells down and create a new one above

Run all cells above the current cell

Change the cell type of current cell

toggle, toggle scrolling and clear all output



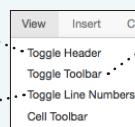
Run current cells down and create a new one below

Run all cells

Run all cells below the current cell
toggle, toggle scrolling and clear current outputs

View Cells

Toggle display of Jupyter logo and filename



Toggle line numbers in cells

Toggle display of toolbar

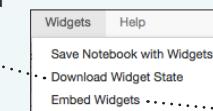
Toggle display of cell action icons:
- None
- Edit metadata
- Raw cell format
- Slideshow
- Attachments
- Tags

Widgets

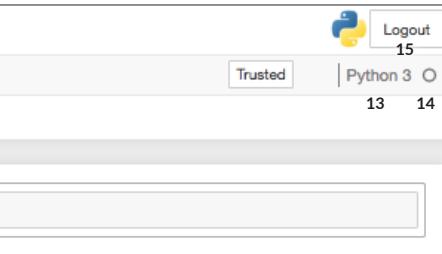
Notebook widgets provide the ability to visualize and control changes in your data, often as a control like a slider, textbox, etc.

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



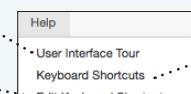
Save notebook with interactive widgets
Embed current widgets



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

Asking For Help

Walk through a UI tour



List of built-in keyboard shortcuts

Edit the built-in keyboard shortcuts



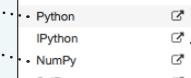
Notebook help topics

Description of markdown available in notebook



Information on unofficial Jupyter Notebook extensions

Python help topics



IPython help topics

NumPy help topics



SciPy help topics

Matplotlib help topics



SymPy help topics

Pandas help topics



About Jupyter Notebook



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