

Python For Data Science Cheat Sheet

Jupyter Notebook

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Saving/Loading Notebooks

File Edit View Insert

- New Notebook
- Open...
- Make a Copy...
- Rename...
- Save and Checkpoint
- Revert to Checkpoint
- Print Preview
- Download as
 - Python notebook
 - Python
 - HTML
 - Markdown
 - reST
 - LaTeX
 - PDF
- Trusted Notebook
- Close and Halt

Annotations:

- Create new notebook
- Open an existing 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
- Rename notebook
- Revert notebook to a previous checkpoint
- Download notebook as

Writing Code And Text

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

Edit Cells

Edit View Insert Edit

- Cut Cells
- Copy Cells
- Paste Cells Above
- Paste Cells Below
- Paste Cells & Replace
- Delete Cells
- Undo Delete Cells
- Split Cell
- Merge Cell Above
- Merge Cell Below
- Move Cell Up
- Move Cell Down
- Edit Notebook Metadata
- Find and Replace
- Cut Cell Attachments
- Copy Cell Attachments
- Paste Cell Attachments
- Insert Image

Annotations:

- 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

Insert Cell Kernel

- Insert Cell Above
- Insert Cell Below

Annotations:

- 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:



Installing Jupyter Notebook will automatically install the IPython kernel.

Kernel Widgets Help

- Interrupt
- Restart
- Restart & Clear Output
- Restart & Run All
- Reconnect
- Shutdown
- Change kernel

Annotations:

- 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

Trusted Python 3 13 14

In []:

Edit Mode:

In []:

Executing Cells

Cell Kernel Widgets

- 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

Annotations:

- 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
- 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

View Insert Cell

- Toggle Header
- Toggle Toolbar
- Toggle Line Numbers
- Cell Toolbar

Annotations:

- 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.

Widgets Help

- Save Notebook with Widgets
- Download Widget State
- Embed Widgets

Annotations:

- Download serialized state of all widget models in use
- Save notebook with interactive widgets
- Embed current widgets

- Save and checkpoint
- Insert cell below
- Cut cell
- Copy cell(s)
- Paste cell(s) below
- Move cell up
- Move cell down
- Run current cell
- Interrupt kernel
- Restart kernel
- Display characteristics
- Open command palette
- Current kernel
- Kernel status
- Log out from notebook server

Asking For Help

Help

- User Interface Tour
- Keyboard Shortcuts
- Edit Keyboard Shortcuts
- Notebook Help
- Markdown
- Jupyter-contrib
- nbextensions
- Python
- IPython
- NumPy
- SciPy
- Matplotlib
- SymPy
- pandas
- About

Annotations:

- 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

