

Python For Data Science Cheat Sheet

Jupyter Notebook

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Saving/Loading Notebooks

Annotations for File menu:

- 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
 - IPython notebook
 - Python
 - 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

Annotations for Edit menu:

- 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

Annotations for Insert menu:

- 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.

Annotations for Kernel menu:

- 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:

Command Mode interface showing the menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help), toolbar, and code cell.

Edit Mode:

Edit Mode interface showing the code cell with a cursor.

Executing Cells

Annotations for Cell menu:

- 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

Annotations for View menu:

- 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.

Annotations for Widgets menu:

- 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

Annotations for Help menu:

- 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