

# Python For Data Science

## Jupyter Cheat Sheet



### Saving/Loading Notebooks

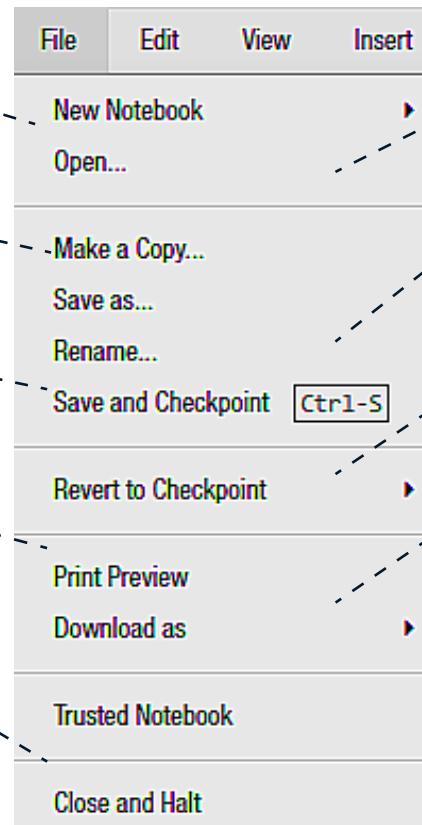
Create new notebook

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

- 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

#### Insert Cells

Add new cell above the current one



Add new cell below the current one

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### 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

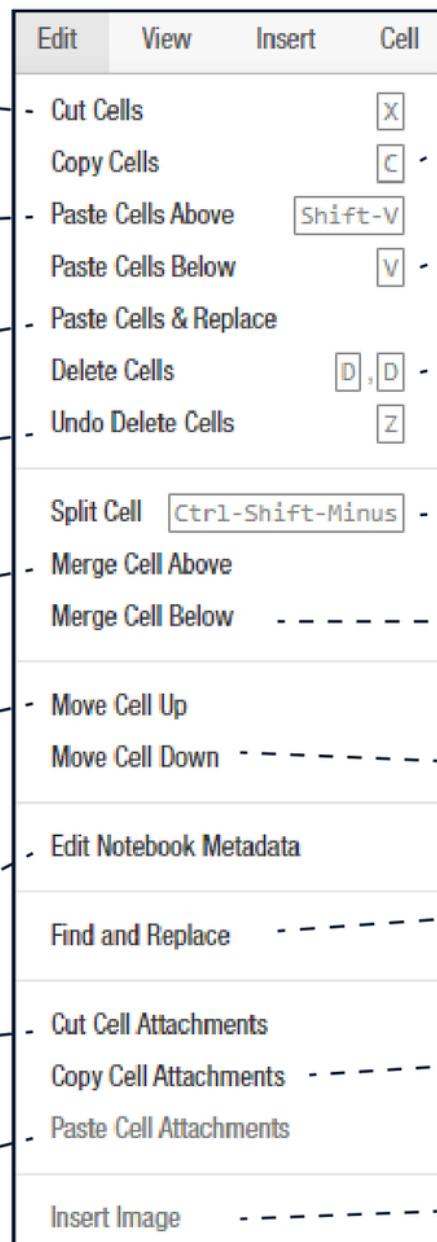
Merge current cell with the one above

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

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### Executing Cells

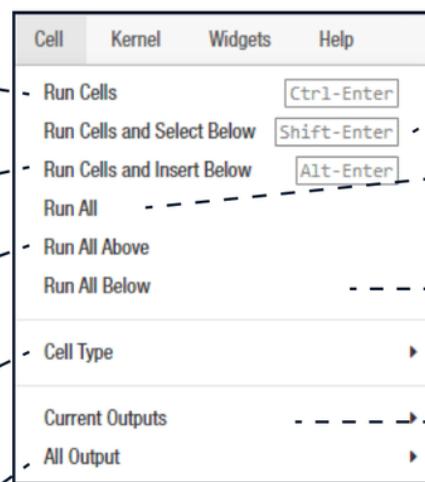
Run selected cell(s)

Run current cells down & 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 & create a new one below

Run all cells

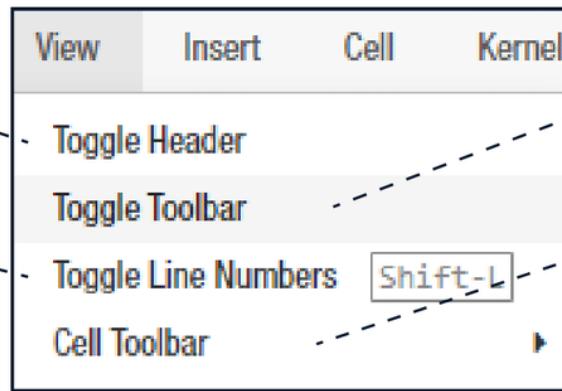
Run all cells below the current cell

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

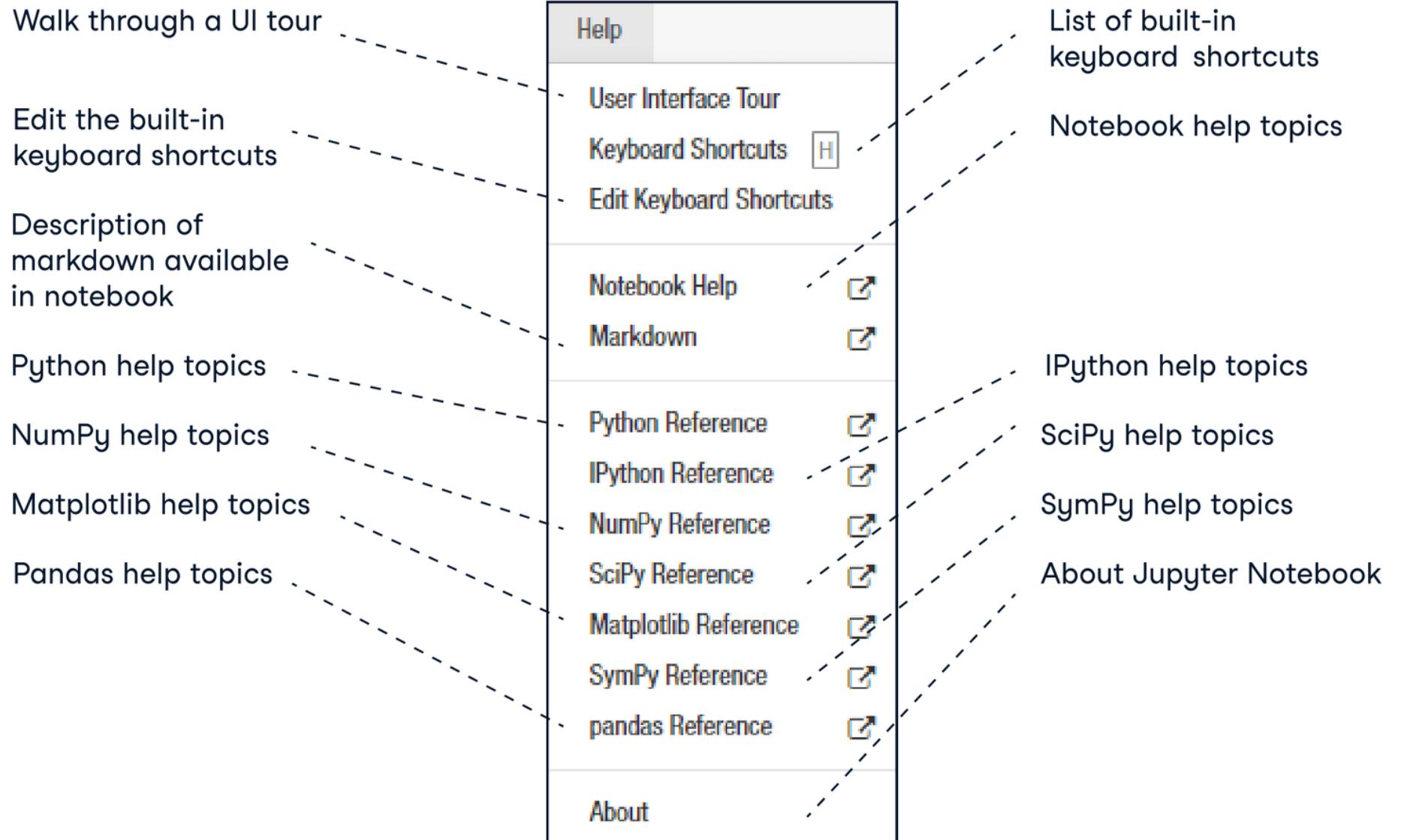
Toggle display of cell action icons:

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

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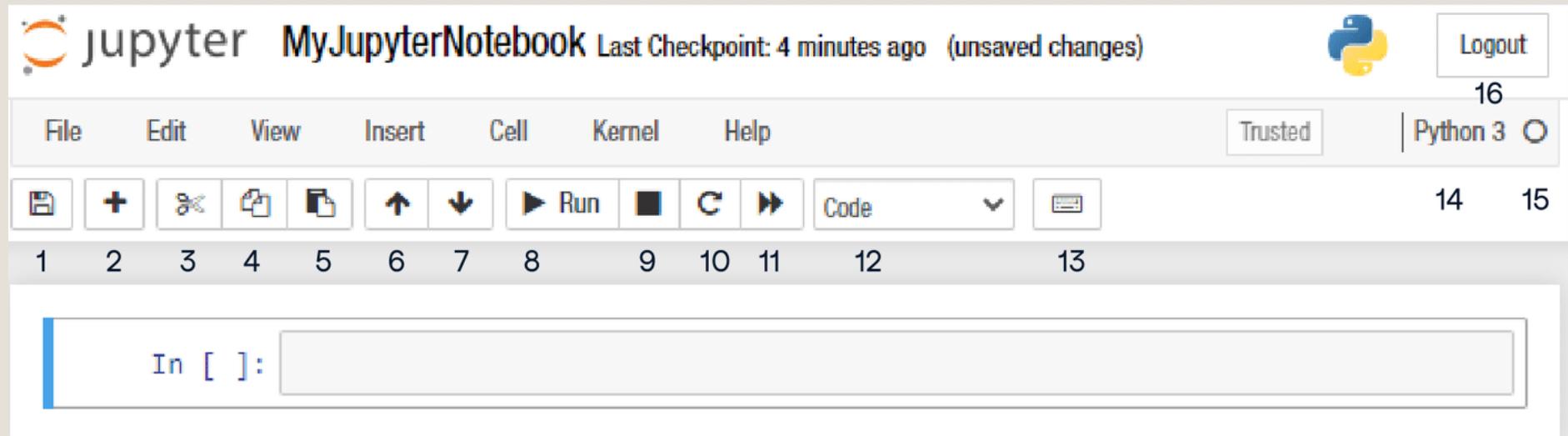
### Asking For Help



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### Command Mode:



- |   |   |
|---|---|
| 1. Save and checkpoint<br>2. Insert cell below<br>3. Cut cell<br>4. Copy cell(s)<br>5. Paste cell(s) below<br>6. Move cell up<br>7. Move cell down<br>8. Run current cell | 9. Interrupt kernel<br>10. Restart kernel<br>11. Restart kernel and re-run notebook<br>12. Display characteristics<br>13. Open command palette<br>14. Current kernel<br>15. Kernel status<br>16. Log out from notebook server |
|---|---|

### Edit Mode:

The screenshot shows the Jupyter Notebook interface in Edit mode. It features a code input cell with a green border and the label "In [ ]:" at the top.

# > Working with Different Programming Languages

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

IP[y]:



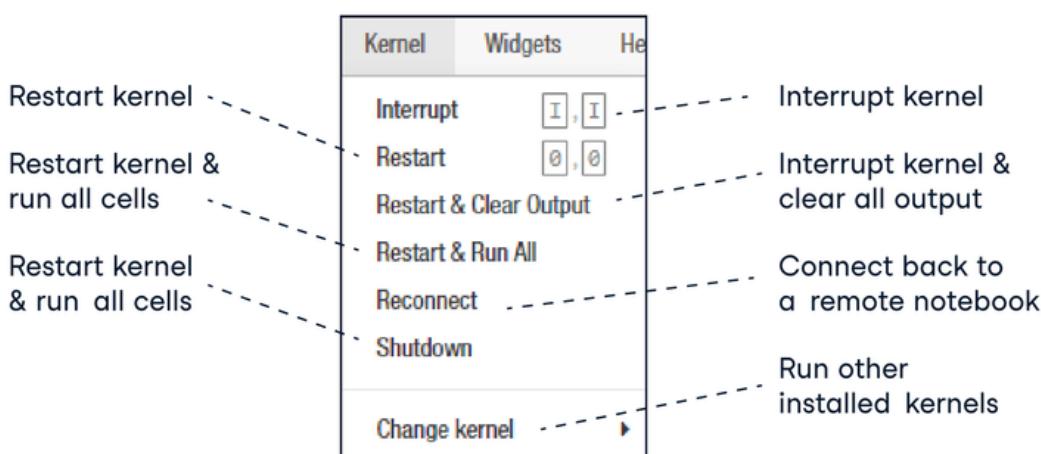
IPython

IJ[•]

IRkernel

IJulia

Installing Jupyter Notebook will automatically install the IPython kernel.



# > 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.

