

Jupyter Notebook

Jupyter Notebook is an open-source web application that allows you to create and share documents that contain live code, equations, visualizations and narrative text. It is used for data cleaning and transformation, numerical simulation, statistical modeling, data visualization, machine learning, and much more.



Saving/Loading Notebook

File	Edit	View
New Notebook		
Open...		
Make a Copy...		
Save as...		
Rename...		
Save and Checkpoint		
Revert to Checkpoint		
Print Preview		
Download as		
Trusted Notebook		
Close and Halt		

- Open an existing Notebook
- Save Current Notebook
- Save Current Notebook & record Checkpoint
- Preview of the printed Notebook
- Close Notebook & stop running scripts
- Create new Notebook
- Make copy of the current Notebook
- Rename current Notebook
- Revert Notebook to a previous Checkpoint
- Download Notebook as-IPython Notebook
- Python HTML Markdown PDF

Edit Cells

Edit	View	Insert
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		

- Cut the selected cells to Clipboard
- Paste cells above current cell
- Paste cells below current cell
- Paste cells on top of current cell
- Revert 'Delete cells' invocation
- Merge current cell with 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 position
- Delete cells
- Split up cell from current position
- Merge current cell with below
- Move current cell down
- Find and replace in selected cells
- Copy attachments of current cell
- Insert image in selected cells

View Cells

View	Insert	Cell
Toggle Header		
Toggle Toolbar		
Toggle Line Numbers		
Cell Toolbar		

- Toggle display of Jupyter logo & Filename
- Toggle line numbers in cell
- Toggle display of Toolbar
- Toggle display of cell action icons

Insert Cells

Insert	Cell	Kernel
Insert Cell Above		
Insert Cell Below		

- Add new cell above the current one
- Add new cell below the current one

Keyboard Shortcuts

Command	Description
enter	enter edit mode
Command + a; Command + c; Command + v	select all; copy; paste
Command + z; Command + y	undo; redo
Command + s	save and checkpoint
Command + b; Command + a	insert cell below; insert cell above
Shift + Enter	run cell, select below
Shift + m	merge cells
Command +]; Command + [indent; dedent
Ctrl + Enter	run cell
Option + Return	run cell, insert cell below
Escape	enter command mode
Escape + d + d	delete selected cell
Escape + y	change cell to code
Escape + m	change cell to markdown
Escape + r	change cell to raw
Escape + 1	change cell to heading 1
Escape + n	change cell to heading n
Escape + b	create cell below
Escape + a	Insert cell above

Magic Commands

Statement	Explanation	Example
%magic	Comprehensively lists and explains magic functions	%magic
%automagic	When active, enables you to call magic functions without the '%'	%automagic
%quickref	Launch IPython quick reference	%quickref
%pastebin	Pastebins lines from your current session.	%pastebin 3 18-20 ~1/1-5
%debug	Enters the interactive debugger	%debug
%hist	Print command input and output history	%hist
%pdb	Automatically enter python debugger after any exception	%pdb
%cpaste	Opens up a special prompt for manually pasting Python code for execution	%cpaste
%reset	Delete all variables and names defined in the current namespace	%reset
%run	Run a python script inside a notebook	%run script.py
%who, %who_ls, %whos	Display variables defined in the interactive namespace, with varying levels of verbosity	%who, %who_ls, %whos
%xdel	Delete a variable in the local namespace. Clear any references to that variable	%xdel variable
%time	Times a single statement	In [561]: %time method = [a for a in data if b.startswith('http')]

Execute 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		

- Run Selected Cells
- Run Current Cells down & create one above
- Run all Cells below current one
- Change the cell type
- Toggle & clear current outputs
- Toggle & clear all outputs
- Run Current Cells down & create one below
- Run all Cells above the current one

Kernel Cells

Kernel	Widgets	Help
Interrupt		
Restart		
Restart & Clear Output		
Restart & Run All		
Reconnect		
Shutdown		
Change kernel		

- Interrupt kernel
- Interrupt kernel & Clear all output
- Reconnect to a remote Notebook
- Restart Kernel
- Restart Kernel & Run all cells
- Shutdown all cells
- Run other installed kernels

Widgets

Widgets	Help
Save Notebook Widget State	
Clear Notebook Widget State	
Download Widget State	
Embed Widgets	

- Save Notebook with Interactive widget
- Download all widget models in use
- Clear Notebook with Interactive widget
- Embed current widgets

Help

Help	UI Tour
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NumPy Reference	
SciPy Reference	
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SymPy Reference	
pandas Reference	
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