Jupyter Notebook Notebook shortcuts

Command mode keys act on cells — Enter → **Edit mode** keys type into a cell — Esc → **Command mode** back to cells

CONCEPTS

Esc leaves a cell (blue bar, command mode); Enter goes back in (green bar, edit mode). Single letters only work in command mode.

One kernel runs all cells in order of execution, not of position; the number in [ ] shows that order.

Shortcuts are for Notebook 7 on Linux/Windows. On macOS read Ctrl as Cmd where the Accel key is used (run, select all, palette).

MODES & RUNNING

Shift + Enter
Run cell and select next

Ctrl + Enter
Run cell and stay

Alt + Enter
Run cell and insert below

Esc / Ctrl + M
Enter command mode

Enter Enter edit mode

Shift + R
Toggle side-by-side render

NAVIGATE & SELECT

Up / K Select cell above

Down / J
Select cell below

Shift + Up / Shift + K
Extend selection up

Shift + Down / Shift + J
Extend selection down

Ctrl + A Select all cells

CELLS

A Insert cell above

B Insert cell below

D › D Delete cell

Z Undo cell action

Shift + Z Redo cell action

C Copy cell

X Cut cell

V Paste cell below

Shift + M
Merge selected cells

Ctrl + Shift + -
Split cell at cursor

Ctrl + Shift + Up
Move cell up

CELLS (cont.)

Ctrl + Shift + Down
Move cell down

O Toggle cell output

Shift + L
Toggle line numbers

CELL TYPES

M Change to Markdown

Y Change to code

R Change to raw

1-6
Change to heading 1-6

KERNEL & PALETTE

Ctrl + Shift + C
Open command palette

Tab Complete name

Kernel menu (no default keys in Notebook 7)

Menu item	Effect
Interrupt	Stop a running cell
Restart	Fresh process, state lost
Restart and Run All	Clean top-to-bottom check
Change Kernel	Switch environment

KERNEL & PALETTE (cont.)

Restart and Run All before sharing: it proves the notebook works top to bottom.

MAGICS

`%timeit <expr>`
Time a statement

`%%time`
Time the whole cell

`%%bash`
Run cell as a bash script

`!<cmd>`
Run a shell command

`%matplotlib inline`
Plots inside the notebook

`%load_ext autoreload`
Enable module reloading

`%who`
List variables

`%run <file.py>`
Run a script in this kernel

`%pip install <pkg>`
Install into the running kernel

`%lsmagic`
List all magics

`<name>?`
Show help for an object

CLI

`jupyter notebook`
Start the Notebook server

`jupyter lab`
Start JupyterLab

`jupyter nbconvert --to <fmt> <nb>`
Convert to html, pdf or script

`jupyter kernelspec list`
List installed kernels

`python -m ipykernel install --user --name <env>`
Register an environment as kernel

`jupyter notebook --no-browser --port <n>`
Headless on a chosen port

RECIPES

Use a venv in Jupyter

```
python -m venv .venv
source .venv/bin/activate
pip install ipykernel
python -m ipykernel install
--user --name myenv
```

Run remote server over SSH

```
# on the server
jupyter notebook --no-
browser --port 8888
# on your laptop
ssh -L 8888:localhost:8888
<user>@<host>
```