

# Leveraging Special Notebook Features

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# Notebook Features



**Keyboard shortcuts**

**Inline help**

**Magic commands**

**Security**



# Command Mode Shortcuts – Manipulating Cells



**X** – cut selected cell

**C** – copy selected cell

**V** – paste below

**Shift-V** – paste above

**D, D** (press **D** twice) – delete selected cell

**A** – insert a cell above

**B** – insert a cell below

# Command Mode Shortcuts – Cell Selections



**Shift Up/Down** – Extend selection up/down

**Ctrl Enter** – Run selected cell

**Shift Enter** – Run selected, select cell below  
- Insert new cell if at end of notebook

**Alt Enter** – Run selected, insert cell below

**Shift M** – Merge selected cells



# Command Mode Shortcuts - Line Numbers



Shift L - Toggle line numbers



# Edit Mode Commands



Cut, Copy and Paste for text within a cell  
use the browser shortcuts

Ctrl ] - indent

Ctrl [ - dedent

Ctrl Shift Minus - split cell





Press **H** while in command mode to see the full list of keyboard shortcuts



# Inline Help



Append a question mark (?) to any member and run the cell

Docstring will appear at the bottom of the notebook window

Not all libraries use docstring (but they should!)



# Magic Commands



IPython concept carried over to Jupyter Notebook

Similar to shell commands, but specific to Jupyter Notebook

Prefixed with %

Works with inline help

`%lsmagic` – list available magic commands

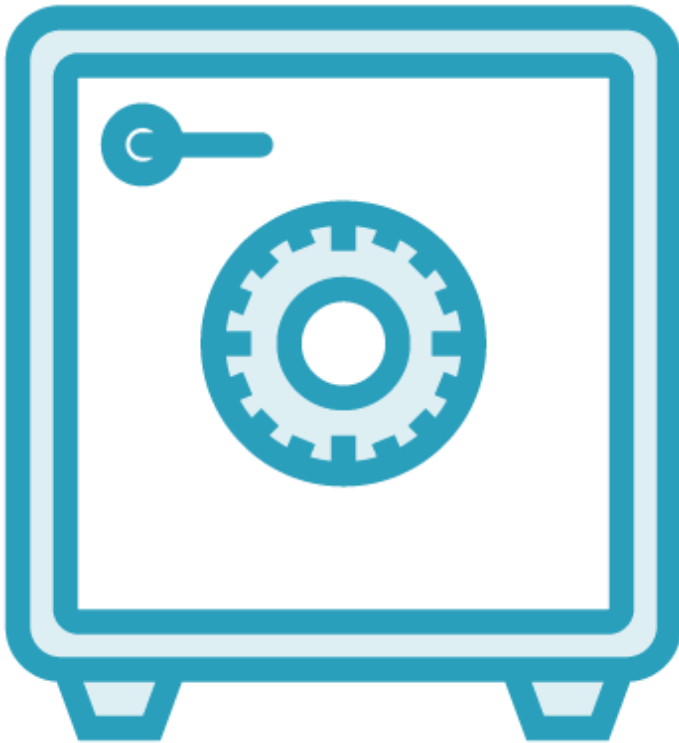
`%history` – manipulate session history

`%load` / `%run` – execute code in Python files

`%alias` – define a name for a system command

`%reset` – restores defaults

# Security Concerns



**Jupyter Notebook enables unrestricted access to system resources**

- Shell commands in notebook
- Open a terminal window from the server

**Not multi-user**

- All notebooks are shared

**JupyterHub**

# Demo



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