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# JUPYTER NOTEBOOK CHEAT SHEET

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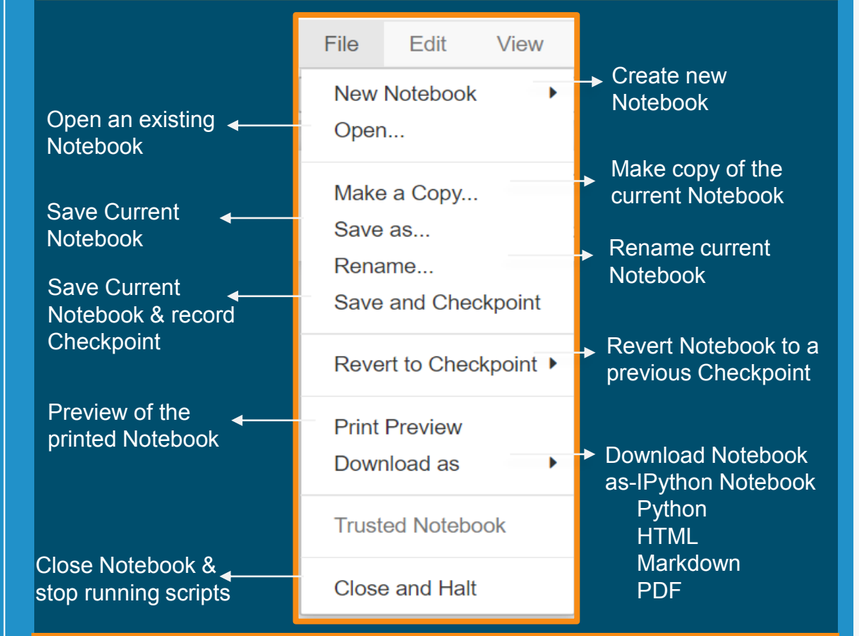
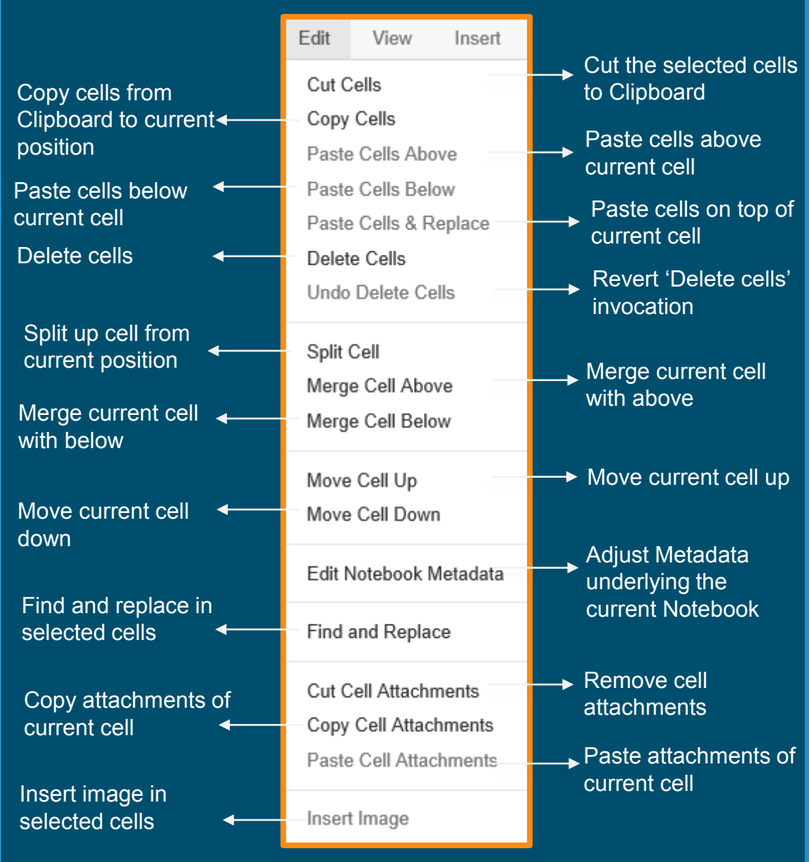
## Jupyter Notebook

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.

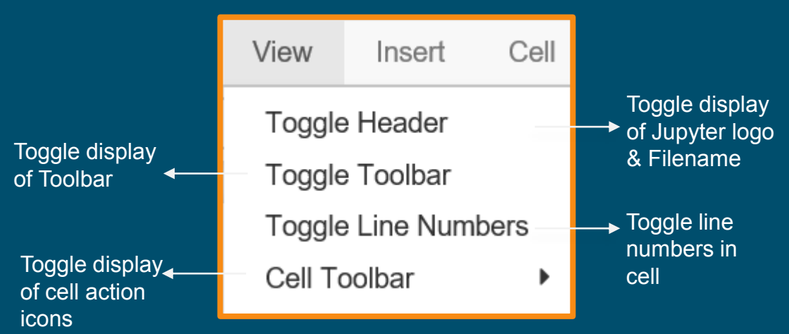
## Saving/Loading Notebook



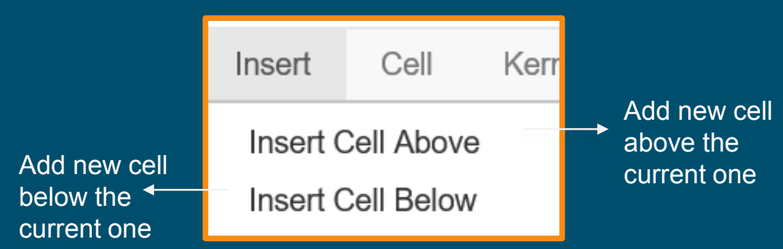

## Edit Cells




## View Cells




## Insert Cells



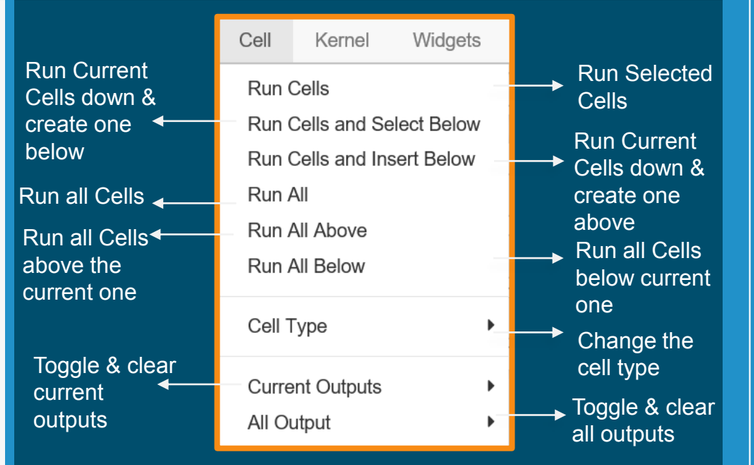

## Keyboard Shortcuts

| 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 |

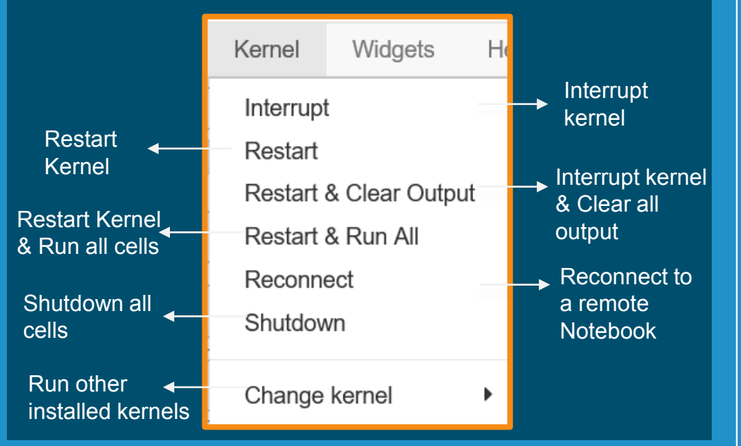
## Magic Commands

| 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')] |

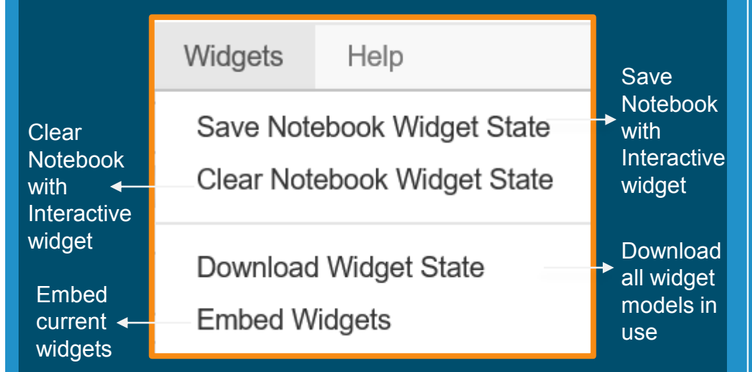
## Execute Cells



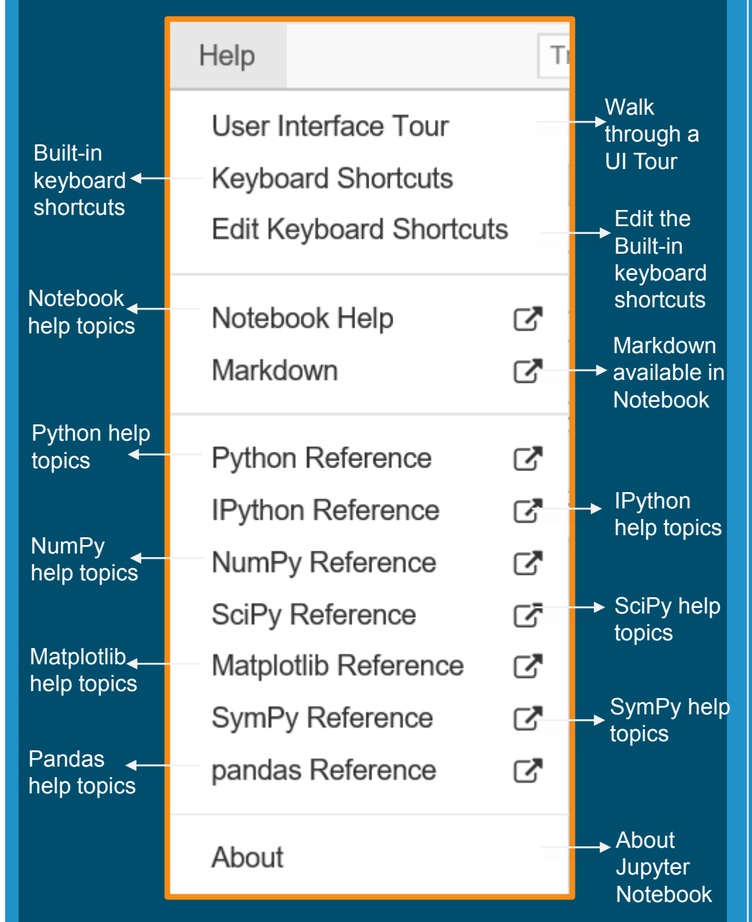

## Kernel Cells




## Widgets




## Help



# MARKDOWN SYNTAX

**Markdown** is a way to style text on the web. You control the display of the document; formatting words as bold or italic, adding images, and creating lists are just a few of the things we can do with Markdown. Mostly, Markdown is just regular text with a few non-alphabetic characters thrown in, like # or *.

## HEADERS

```
# This is an <h1> tag
## This is an <h2> tag
###### This is an <h6> tag
```

## EMPHASIS

```
*This text will be italic*
_This will also be italic_

**This text will be bold**
__This will also be bold__

*You **can** combine them*
```

## LISTS

### Unordered

```
* Item 1
* Item 2
  * Item 2a
  * Item 2b
```

### Ordered

```
1. Item 1
2. Item 2
3. Item 3
   * Item 3a
   * Item 3b
```

## IMAGES

```
![GitHub Logo](/images/logo.png)

Format: ![Alt Text](url)
```

## LINKS

```
http://github.com - automatic!

[GitHub](http://github.com)
```

## BLOCKQUOTES

```
As Grace Hopper said:

> I've always been more interested
> in the future than in the past.
```

As Grace Hopper said:

> I've always been more interested in the future than in the past.

## BACKSLASH ESCAPES

Markdown allows you to use backslash escapes to generate literal characters which would otherwise have special meaning in Markdown's formatting syntax.

```
\*literal asterisks\*
```

*literal asterisks*

Markdown provides backslash escapes for the following characters:

| | | | |
|---|---|---|---|
| \ | backslash | () | parentheses |
| ` | backtick | # | hash mark |
| * | asterisk | + | plus sign |
| _ | underscore | - | minus sign (hyphen) |
| {} | curly braces | . | dot |
| [] | square brackets | ! | exclamation mark |