

Project: Learn and Install Jupyter Notebook: Takeaways



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Syntax

MARKDOWN SYNTAX

- Adding italics and bold:

```
*Italics*  
**Bold**
```

- Adding headers (titles) of various sizes:

```
# header one  
## header two
```

- Adding hyperlinks and images:

```
[Link] (http://a.com)
```

- Adding block quotes:

```
> Blockquote
```

- Adding lists:

```
*  
*  
*
```

- Adding horizontal lines:

```
---
```

- Adding inline code:

```
`Inline code with backticks`
```

- Adding code blocks

```
'''
code
'''
```

JUPYTER NOTEBOOK SPECIAL COMMAND

- Displaying the code execution history:

```
%history -p
```

Concepts

- Jupyter Notebook is much more complex than a code editor. Jupyter allows us to:
 - Type and execute code.
 - Add accompanying text to our code (including math equations).
 - Add visualizations.
- Jupyter can run in a browser and is often used to create compelling data science projects that can be easily shared with other people.
- A notebook is a file created using Jupyter notebooks. Notebooks can easily be shared and distributed so people can view your work.
- Types of modes in Jupyter:
 - Jupyter is in edit mode whenever we type in a cell — a small pencil icon appears to the right of the menu bar.
 - Jupyter is in command mode whenever we press `Esc` or whenever we click outside of the cell — the pencil to the right of the menu bar disappears.
- State refers to what a computer remembers about a program.
- We can convert a code cell to a Markdown cell to add text to explain our code. Markdown syntax allows us to use keyboard symbols to format our text.
- Installing the Anaconda distribution will install both Python and Jupyter on your computer.

Keyboard Shortcuts

- Some of the most useful keyboard shortcuts we can use in command mode are:
 - `Ctrl + Enter`: run selected cell
 - `Shift + Enter`: run cell, select below
 - `Alt + Enter`: run cell, insert below
 - `Up`: select cell above
 - `Down`: select cell below
 - `Enter`: enter edit mode
 - `Alt + Up`: insert cell above

- A: insert cell above
- Some of the most useful keyboard shortcuts we can use in edit mode are:
 - B: insert cell below
 - Ctrl + Enter: run selected cell
 - D, D (press D twice): delete selected cell
 - Shift + Enter: run cell, select below
 - Z: undo cell deletion
 - Alt + Enter: run cell, insert below
 - S: save and checkpoint
 - Up: move cursor up
 - Y: convert to code cell
 - Down: move cursor down
 - M: convert to Markdown cell
 - Esc: enter command mode
- Ctrl + A: select all
- Ctrl + Z: undo
- Ctrl + Y: redo
- Ctrl + S: save and checkpoint
- Tab : indent or code completion
- Shift + Tab: tooltip

Resources

- [Jupyter Notebook tutorial](#)
- [Jupyter Notebook tips and tricks](#)
- [Markdown syntax](#)
- [Installing Anaconda](#)

