

# Project: Learn and Install Jupyter Notebook: Takeaways



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## Syntax

### MARKDOWN SYNTAX

- Adding italics and bold text:

```
*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 do the following:
  - Type and execute code

- Add accompanying text to our code (including math equations)
- Add visualizations
- Jupyter can run in a browser, and we often use it to create compelling data science projects that we can easily share with other people.
- A notebook is a file created using Jupyter notebooks. We can easily share and distribute notebooks so people can view our 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 include the following:
  - 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
  - A: insert cell above
  - B: insert cell below
  - D, D (press D twice): delete selected cell
  - Z: undo cell deletion
  - S: save and checkpoint
  - Y: convert to code cell
  - M: convert to Markdown cell
- Some of the most useful keyboard shortcuts we can use in edit mode include the following:
  - Ctrl + Enter: run selected cell
  - Shift + Enter: run cell, select below
  - Alt + Enter: run cell, insert below
  - Up: move cursor up
  - Down: move cursor down
  - 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](#)

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