

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

```
```\n\ncode\n```\n
```

### 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
  - **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 are:
  - **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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