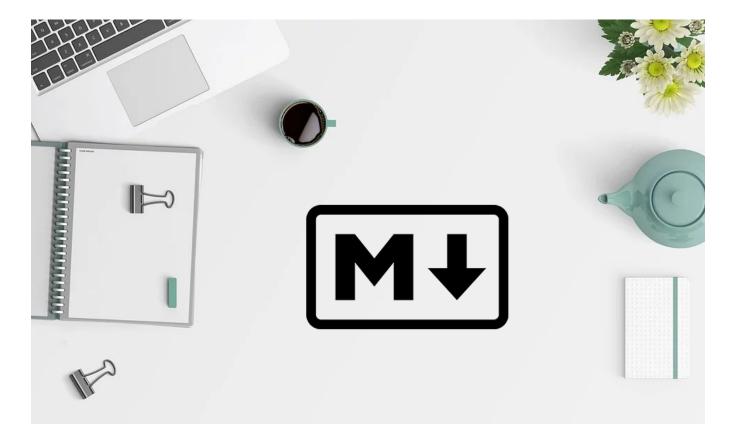


The Ultimate Markdown Guide (for Jupyter Notebook)



All code and no heading makes Jupyter a dull read.

You may have heard the above proverb, but if not, then well, I have just made it up! But it



notebook to offer the reader a sufficient explanation of both the code and the concept.

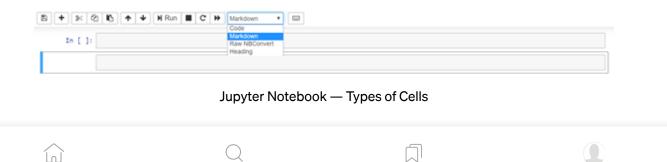
But first...

What's Markdown?

Markdown is a lightweight Markup language with a plain text syntax. John Gruber developed the Markdown language in 2004 in a collaborative effort with Aaron Swartz, intending to enable people to "write with easy-to-read and easy-to-write plain text format and potentially convert it to structurally correct XHTML (or HTML)." Markdown is designed to be as easy-to-read and easy-to-write as possible. Readability, however, is emphasized above all else.

Nevertheless, Markdown is not a substitute for, or even close to, HTML. Its syntax is minimal, correlating only to a tiny proportion of HTML tags. Markdown's idea is to make reading, writing, and editing prose easy without the intention to create a syntax that's just for quickly adding HTML tags. HTML is a format for publishing, while Markdown is a format for reading. Therefore, the formatting syntax of Markdown tackles just issues that can be expressed in plain text. You simply use HTML for any Markup that is not covered by the Markdown syntax. You don't need to preface it or delimit it to indicate that you are switching from Markdown to HTML — you just use the tags.

Among the data enthusiasts, Jupyter notebook is in trend. It is simple to use and helps you to create and share documents that include code, visualizations, and narration. Recall that a Jupyter Notebook is a series of cells that can store text or code. Cells shape a notebook's core. Markdown Cells allows you to write and render Markdown syntax. Here's where you can explain and document the processes. On the other hand, code cells allow you to write and run program code like Python.





Now that we have some background knowledge about Markdown, without any further ado, let's dive into the syntax!

Markdown Syntax Collections

HEADINGS

Markdown Syntax

```
# Header 1
## Header 2
### Header 3
#### Header 4
##### Header 5
##### Header 6
```

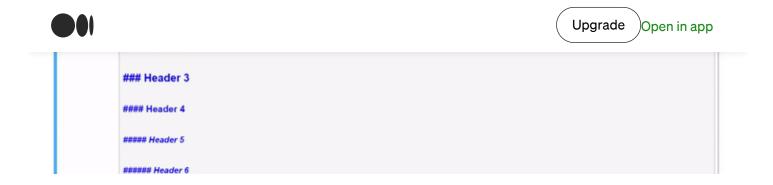
$Equivalent\ HTML\ Syntax$

```
<h1>Header 1</h1>
<h2>Header 2</h2>
<h3>Header 3</h3>
<h4>Header 4</h4>
<h5>Header 5</h5>
<h6>Header 6</h6>
```









TEXT EMPHASIS

BOLD

Markdown Syntax

```
**This is bold text**

This is bold text
```

Equivalent HTML Syntax

This is bold text

Rendered Output

```
**This is bold text**
__This is bold text__
```

ITALIC

Markdown Syntax

This is italic text





This is italic text

Rendered Output

This is italic text _This is italic text_

BOLD & ITALIC

Markdown Syntax

Bold and Italic Bold and Italic

Equivalent HTML Syntax

 Bold and Italic

Rendered Output

Bold and Italic _Bold and Italic___

STRIKETHROUGH

Markdown Syntax



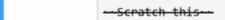






Scratch this

Rendered Output



BACKSLASH ESCAPE

Backslash Escape prevents Markdown from interpreting a character as an instruction, rather than as the character itself.

Markdown Syntax

\# Not a header

Equivalent HTML Syntax

Not a header

Rendered Output

\# Not a header

PARAGRAPHS

A paragraph is simply one or more consecutive lines of text, separated by one or more blank lines.

Markdown Syntax











We are learning Markdown.

Equivalent HTML Syntax

```
Hello World!
We are learning Markdown.
```

LINE BREAK

A line break is the termination of the previous line and the beginning of a new line.

Markdown Syntax

To force a line return, place two or more empty spaces at the end of a line and press the Enter key.

```
Some text
Some more text
```

Equivalent HTML Syntax

The line break tag starts with
br> tag with no closing tag which breaks the line, and the remaining contents begin with a new line.

```
Some text <br>
Some more text
```

Rendered Output







28.03.2022, 15:01



BLOCKQUOTES

Blockquotes can hold the large chunk of text and are generally indented.

Markdown Syntax

> This is a blockquote

Equivalent HTML Syntax

<blockquote>This is a blockquote

Rendered Output

> This is a blockquote

NESTED BLOCK QUOTING

Markdown Syntax

- > some text
- >> and then some more text
- >>> and then some more

Equivalent HTML Syntax







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Rendered Output

```
> some text
>> and then some more text
>>> and then some more
```

HORIZONTAL LINE

Markdown Syntax

Equivalent HTML Syntax

<hr>>

Rendered Output





Markdown Syntax

- 1. Cheese
- 2. Carrot
- 3. Coconut

Note: Numbering is irrelevant

Equivalent HTML Syntax

```
  Cheese
  Carrot
  Coconut
```

Rendered Output

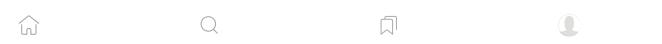
```
1. Cheese
2. Carrot
3. Coconut
```

UNORDERED LIST

The Unordered list is a bullet list.

Markdown Syntax

- Cheese
- Carrot





```
Cheese
Carrot
Coconut
```

Rendered Output



GRAPHICS

You can attach graphics (such as images) to a notebook in Markdown cells.

Note1: You can also Drag and Drop your images to the Markdown cell to attach it to the notebook.

Note2: Below I have used links to images on the web but you can very well use an offline image by adding the complete filename (plus the file path if it is in a different directory other then the Jupyter Notebook).

Markdown Syntax

One simple way of adding an image to a Markdown cell is through the following syntax:

```
![](https://www.python.org/static/community_logos/python-logo-master-
v3-TM.png)
```

If you want to add a hover title to the image then you can simply modify the syntax like below:





You can also use the reference-style format for the images:

```
![][some-id]
[some-id]: https://www.python.org/static/community_logos/python-logo-
master-v3-TM.png "Python Logo"
```

Equivalent HTML Syntax

```
<img src="https://www.python.org/static/community_logos/python-logo-
master-v3-TM.png" title="Python Logo"/>
```

Rendered Output



HYPERLINKS

AUTOMATIC LINKS

Markdown Syntax

https://en.wikipedia.org





https://en.wikipedia.org

STANDARD LINKS

Markdown Syntax

[click me] (https://en.wikipedia.org)

Equivalent HTML Syntax

click me

STANDARD LINKS (WITH MOUSE-OVER TITLES)

Markdown Syntax

[click me] (https://en.wikipedia.org "Wikipedia")

Equivalent HTML Syntax

click me

REFERENCE-STYLE LINKS

Markdown Syntax





Note: Link IDs are not case-sensitive.

You don't really have to give your link an ID. If you use the words in the first set of brackets to later define the link, Markdown will understand it. This works as follows:

```
This is [a reference][]
[a reference]: https://en.wikipedia.org "Wikipedia"
```

Equivalent HTML Syntax

```
This is <a href="https://en.wikipedia.org" title="Wikipedia">a reference</a>
```

Rendered Output

```
This is [a reference][]

[a reference]: https://en.wikipedia.org "Wikipedia"

In []:
```

ANCHOR LINKS

An anchor link is a link on a page that brings you to a specific place on that page. In a Jupyter Notebook, it can be used to link to any section of the notebook for easy navigation.

Note: The ID used for the linking should be unique to avoid misdirection.

Technique 1

Create a new cell above the section you want to link to and add the following line of code:











To create an anchor link that links to the above section, simply add the following line of code:

```
[Section title] (#id)
```

Technique 2

If you have a section with the heading — My Great Heading then to add an anchor link to this section, simply add a hyphen in place of the blank space like below:

```
[Section title](#My-Great-Heading)
```

Rendered Output



TASK LISTS

Markdown Syntax

- [x] Some task
- [] Some more task





<input type="checkbox" disabled> Some more task

Rendered Output

```
- [x] Some task
- [] Some more task
```

CODE SECTION

Markdown Syntax

Inline Code:

```
`some piece of inline code`
...
some piece of block code
...
```

You can also perform syntax highlighting like below:

```
```javascript
var s = "JavaScript syntax highlighting";
alert(s);
...
```python
s = "Python syntax highlighting"
```

Û



Equivalent HTML Syntax

You can use the <code> tags in HTML to get similar results. For syntax highlighting, appropriate classes have to be utilized for the different elements.

Rendered Output

```
some piece of inline code`

some piece of block code

'''javascript
var s = "JavaScript syntax highlighting";
alert(s);
'''python
s = "Python syntax highlighting"
print s
```

TABLE

A table can be constructed using | (pipe symbol) and - (dash) to mark columns and rows.

Markdown Syntax

Note: It is not important to add spaces after each text, roughly aligning with the columns will do just fine. Also, the number of dashes is irrelevant and is just cosmetical.

The text in each header and cell of a table will by default justify to the right.

For manually changing the justification, you can use:











Use :- for left centered

Equivalent HTML Syntax

```
<thead>
HeaderHeaderHeader
```

Rendered Output



INLINE HTML

TEXT COLOR

Text

 $Where \ color = \ {\tt blue|red|green|pink|yellow}$











Rendered Output

```
<span style="color:red">Text</span>
```

TEXT FONT FAMILY

```
<span style="font-family:Comic Sans MS">This is a text</span>
```

For a list of some commonly used fonts, checkout CSS Font Family List.

Rendered Output

```
<span style="font-family:Comic Sans MS">This is a text</span>
```

COLORED NOTE BOXES

Use one of the following <div> tags to display text in a colored box. The color of the box is determined by the alert type that is specified.

Blue boxes (alert-info)

```
<div class="alert alert-block alert-info">
<b>Tip:</b> Use blue boxes (alert-info) for tips and notes.</div>
```

Yellow boxes (alert-warning)

```
<div class="alert alert-block alert-warning">
<b>Example:</b> Use yellow boxes for examples that are not inside code
```



Green boxes (alert-success)

```
<div class="alert alert-block alert-success">
<b>Success:</b> This alert box indicates a successful or positive action.
</div>
```

Red boxes (alert-danger)

```
<div class="alert alert-block alert-danger">
<b>Danger:</b> This alert box indicates a dangerous or potentially negative action.
</div>
```

Rendered Output

CELL BACKGROUND COLOR





Rendered Output

```
<code style="background:yellow;color:black">Useful for highlighting to grab the attention of the
reader towards certain points.</code>
```

I also tend to use the following color style when adding a piece of terminal code to a Markdown cell:

```
<code style="background:black;color:white">C:\Users\YOUR_USERNAME> pip3
install roughviz
</code>
```

By the way, roughviz is a Python visualization library that I have created for creating sketchy/hand-drawn styled charts. Do check it out on <u>Github</u> and <u>PyPI</u>.

Rendered Output

```
  <code style="background:black;color:white">C:\Users\YOUR_USERNAME> pip3 install roughviz
  </code>
```

HTML MARK TAG

Highlight parts of a text:

```
Do not forget to buy <mark>milk</mark> today.
```

Rendered Output





DEFINITION LISTS

```
<dl>
<dt>First Term</dt>
<dd>This is the definition of the first term.</dd>
<dd>This is the definition of the first term.</dd>
<dd>Erm</dd>
<dd>Erm</dd>
</dd>
```

Rendered Output

```
<dl>
<dt>First Term</dt>
<dt>First Term</dt>
<dd>This is the definition of the first term.</dd>
<dd>Term</dd>
<dd>Term</d>
<dd>Term</dd>
<dd>Term</d>
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<dd>Term</dd>
```

NAVIGATION MENU

It defines a set of navigation links.

```
<nav>
<a href="https://www.google.com">LinkedIn</a> |
<a href="/css/">Github</a> |
<a href="/js/">Medium</a> |
</nav>
```

Rendered Output







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LaTeX MATH

Jupyter Notebooks' Markdown cells support LateX for formatting mathematical equations. To tell Markdown to interpret your text as LaTex, surround your input with dollar signs like this:

\$\sqrt{k}\$

Rendered Output

\$\sqrt{k}\$

GEOMETRIC SHAPES

Use this code with a decimal or hex reference number from here: UTF-8 Geometric shapes

&#reference_number;

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