Markdown Guide

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Introduction

Welcome to a markdown guide. The aim to provide the general quirks of markdown; intended to be revisited as often as needed.

I tend to forget some specific markdown syntax; by which this guide provides a nice reference for. Also, writing this markdown guide in markdown is just wonderful.

What is markdown?

Markdown is a markup language with plain text formatting syntax (basically better text). It converts plain text to HTML.

Why use markdown?

- Markdown is incredibly lightweight compared to rich text formats; such as .rtf or .docx.
- It is arguably the simplest markup language there is.
- Can be converted to a plethora of formats seamlessly; such as .html, .pdf, .docx, etc. (which implies that .md files are essentially future-proof).

Where is markdown used?

- Repositories such as GitHub (README.md files) for software documentation.
- Forums and blog posts within applications or websites.
- Static websites.
- Documents and notes.
- Email formatting.
- This markdown guide.

Headings and Sub-headings

Prepending a # before some text promotes it to a heading. Prepending additional #'s demotes it to a sub-heading, sub-sub-heading and so on.

Adding one (or multiple) = below the text also promotes it to a heading. Use - for a sub-heading.

Raw

```
# Heading
### Sub-heading
#### Sub-sub-heading
##### Sub-sub-sub-heading
##### Sub-sub-sub-heading
Also Heading
===
Also sub-heading
```

Formatted

Heading

Sub-heading

Sub-sub-heading

Sub-sub-heading

Sub-sub-sub-heading

Also Heading

Also sub-heading

Generic Formatting

Raw

Paragraphs are separated by a blank line.

Two spaces at the end of a line produce a line break.

Text attributes: _italic_, *also italic*, **bold**, __also bold__, `mono-space`, ~~strike-through~~.

Formatted

Paragraphs are separated by a blank line.

Two spaces at the end of a line produce a line break.

Text attributes: *italic*, *also italic*, **bold**, **also bold**, mono-space, strike-through.

Lists

A blank line between list elements (sometimes) produces a larger space between the elements.

Raw

Unordered list:

- * Fruits
 - Apples
 - Oranges
 - + Orange
 - Green
- + Meat

Subsequent indented paragraphs belong to the list element.

Ordered list:

- 1. Uno
- 2) Dos
- 3) Tres
- 4. Cuatro

Formatted

Unordered list:

- Fruits
 - Apples
 - Oranges
 - * Orange
 - * Green
- Meat

Subsequent indented paragraphs belong to the list element.

• Dairy

```
if(height<10cm){shortPerson.drinkMilk()}</pre>
```

• Vegetables

Ordered list:

- 1. Uno
- 2) Dos
- 3) Tres

4. Cuatro

Links

Raw

```
A [Wikipedia](https://www.wikipedia.org "Wikipedia Home") and [Google][identifier] hyper-link.
```

A <https://directlink.tv> and <directlink@email.org>.

[identifier]: https://www.google.com "Google Home"

Formatted

A Wikipedia and Google hyper-link.

A https://directlink.tv and directlink@email.org.

Horizontal Rule

Horizontal rules are not used that often.

Raw

Horizontal rule:
Also horizontal rule:
Also also horizontal rule:

Formatted
Horizontal rule:

Also horizontal rule:		
Also also horizontal rule:		

Images

Text within the quotes after the image directory is the text displayed when the image directory is not found.

Raw

![Markdown Icon](../images/markdown-icon.png "Markdown Icon"){ height=100% }

Formatted

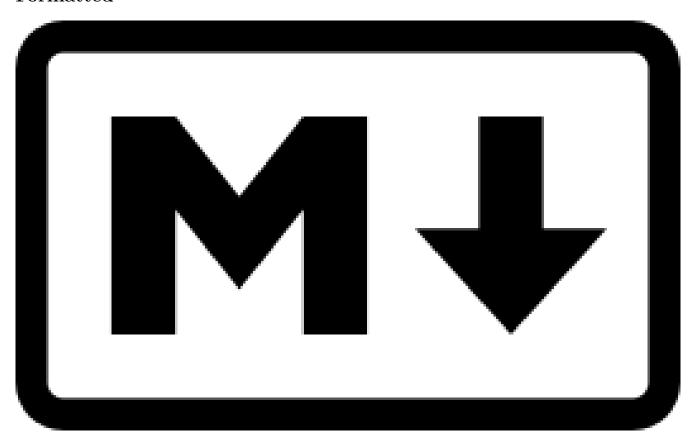


Figure 1: Markdown Icon

Block-quotes

Prepend a > in every line of the block for a block-quote.

Raw

```
> Append two space in first line
> for a line-break in block-quote.
>
> Second paragraph in block-quote.
>
>> Deeper block-quote with additional `>`.
>>
>>> Even deeper block-quote.
>>>
```

Formatted

Append two space in first line for a line-break in blockquote.

Second paragraph in blockquote.

Deeper blockquote with additional >.

Even deeper blockquote.

Code-blocks

Surround the block with three 's or three 's (above and below the block).

Optionally append the first line with the name of the defined language for syntax highlighting.

A code-block can also be formed with a prepended tab (four spaces) in each line.

Raw

```
```Python
A code-block
import numpy as np
def func(x):
 """Returns sin squared of a number."""
 assert type(x) in (int,float)
 return np.sin(x)**2
if __name__ == '__main__':
```

```
pass
~~~C++
// Another code-block
for(int i=0;i++;i<42){
  Serial.println(i);
}
    free(malloc(69))
    malloc(free(42))
Formatted
# A code-block
import numpy as np
def func(x):
    """Returns sin squared of a number."""
    assert type(x) in (int,float)
   return np.sin(x)**2
if __name__ == '__main__':
    pass
// Another code-block
for(int i=0;i++;i<42){</pre>
  Serial.println(i);
free(malloc(69))
malloc(free(42))
Comments
Raw
<Comment>
<!--
Comment
-->
[//]: # (This is the most platform independent syntax.)
```

[///]: # (This will not be included in the output file.)

### **Formatted**

## **Footnotes**

#### Raw

Text[^footnote-identifier] with a footnote[^long-footnote]
and inline^[You do not have to create an identifier.].

[^footnote-identifier]: Footnote information.

[^long-footnote]: Footnote with multiple blocks.

Subsequent indented paragraphs belong to the footnote.

### **Formatted**

Text<sup>1</sup> with a footnote<sup>2</sup> and inline<sup>3</sup>.

### LaTeX

Surround LaTeX code with double \$.

#### Raw

 $\frac{69}\cdot \frac{420}{LaTeX}$ 

### **Formatted**

$$\frac{some}{69} \cdot \frac{420}{LaTeX}$$

Subsequent indented paragraphs belong to the footnote.

<sup>&</sup>lt;sup>1</sup>Footnote information.

<sup>&</sup>lt;sup>2</sup>Footnote with multiple blocks.

<sup>&</sup>lt;sup>3</sup>You do not have to create an identifier.

## **Tables**

Generally and unfortunately, for some table styles, you cannot directly set the column width; unless you perform some wonky stuff with its behaviour.

### Raw

|Left|Centre|Right|

|:--|:-:|

|1,1|1,2|1,3|

|2,1|2,2|2,3|

|3,1|3,2|3,3|

|4,1|4,2|4,3|

Table: Pipe Table

### **Formatted**

Table 1: Pipe Table

Left	Centre	Right
1,1	1,2	1,3
2,1	$^{2,2}$	2,3
3,1	3,2	3,3
4,1	4,2	4,3

## **Pandoc Tables**

### Raw

Left	Centre	Right
1,1	1,2	1,3
2,1	2,2	2,3
3,1	3,2	3,3
4,1	4,2	4,3

: Simple Table

1,1	1,2	1,3
2,1	2,2	2,3

3,1	3,2	3,3
4,1	4,2	4,3

: Header-less Simple Table

Left	Centre	Right
Aligned	Aligned	Aligned
This sentence spans two lines	1,2	1,3

2,1 2,2 Note the the blank line between rows.

\_\_\_\_\_

: Multi-line Table

: Grid Table

+----+

	Default	•
-	0.33,1   0.67,1	1,2   
	1.33,1   1.67,1	2,2

: Piped Grid Table

+---+---+ |Left|Centre|Right| +:===+:====:+ |1,1 | 1,2 | 1,3| +---+----+ |2,1 | 2,2 | 2,3| +---+----+

: Header-less Grid Table

+:	-+:	:+-	:+
	1,2 -+		
	1 2,2		
+	-+	-+-	+
3,1	3,2		3,3
+	-+	-+-	+
14,1	1 4,2		4,3
+	-+	-+-	+

## Formatted

Table 2: Simple Table

Left	Centre	Right
1,1	1,2	1,3
2,1	$^{2,2}$	$^{2,3}$
3,1	3,2	3,3
4,1	4,2	4,3

Table 3: Header-less Simple Table

1,1	1,2	1,3
2,1	$^{2,2}$	2,3
3,1	3,2	3,3
4,1	4,2	4,3

Table 4: Multi-line Table

Left Aligned	Centre Aligned	Right Aligned
This sentence spans	1,2	1,3
two lines		

Left Aligned	Centre Aligned	Right Aligned
2,1	2,2	Note the the blank line between rows.

Table 5: Grid Table

Default	Default	
• 0.33,1	1,2	
<ul><li>0.67,1</li><li>1.33,1</li></ul>	2,2	
• 1.67,1	,	

Table 6: Piped Grid Table

Left	Centre	Right
$\overline{1,1}$	1,2	1,3
$^{2,1}$	2,2	2,3
3,1	3,2	3,3
4,1	4,2	4,3

Table 7: Header-less Grid Table

1,1	1,2	1,3
$^{2,1}$	$^{2,2}$	2,3
3,1	3,2	3,3
4,1	4,2	4,3

## Line-block

Prepend a | in each line of the line-block.

This allows new lines without an empty line between each line, which is useful for verses and addresses.

### Raw

```
| An iconic lullaby:
| Twinkle twinkle little star,
| how I wonder what you are.
```

Up above the world so high, like a diamond in the sky.
Twinkle twinkle little star, how I wonder what you are.

### **Formatted**

An iconic lullaby:

Twinkle twinkle little star, how I wonder what you are. Up above the world so high, like a diamond in the sky. Twinkle twinkle little star, how I wonder what you are.

### Task-list

#### Raw

- [x] Done.[] Not done.
- **Formatted** 
  - ☑ Done.
  - $\square$  Not done.

## Superscripts and Subscripts

Surround literals between  $\sim$  for a subscript. Very useful in chemical formulae.

Conversely, surround literals between ^ for a superscript.

#### Raw

 $H^2^0$  is one of the main reasons to why life exists.

 $f(x) = Ae^-bx^-$  describes exponential decay.

#### Formatted

H<sub>2</sub>O is one of the main reasons to why life exists.

 $f(x) = Ae^{-bx}$  describes exponential decay.

### Line-break

Raw

\

#### **Formatted**

### **Definition-list**

### Raw

Term

: This is a definition.

: This is an alternate definition.

#### **Formatted**

**Term** This is a definition.

This is an alternate definition.

## Compiling

I mainly use ghostwriter and pandoc.

### ghostwriter

- Can choose Markdown Flavor and Style Sheet for HTML preview.
- Can see Outline HUD and Documents Statistics HUD; and can use ctrl + shift + h to remove or show them.
- Can Insert Image by dragging in an image.
- Can Copy HTML with ctrl + shift + c.
- Can Export directly.
- Can use Distraction Free Mode with no HUD and no HTML preview.

#### Pandoc

- To HTML example snippet: pandoc markdown-guide.md -o markdown-guide.html -s --mathjax.
- To PDF example snippet: pandoc markdown-guide.md -o markdown-guide.pdf --pdf-engine=pdflatex.
- To Beamer example snippet: pandoc markdown-guide.md -o markdown-slide.pdf -t beamer -V theme:Luebeck. Note: Beamer does not like footnotes that take more than the available space (hence make sure that this is satisfied before converting to beamer); also it is best remove any geometry tags and decrease the font size as well.
- -s means standalone and not a fragment; e.g. an HTML file with head and body.
- -f and -t specifies input and output format respectively (markdown, latex, html), otherwise format is interpreted from file type.
- --toc for table of contents; useful with -c style.css.
- Make modifications to latex-template.tex from pandoc -D latex >> latex-template.tex, and then use --template=latex-template.tex.
- Can concatenate multiple input files.

## Adding References

- 1. Add a .bib file into a directory, and optionally a .csl file.
  - Here is a link in formating the .bib file.
  - Here is a link for .csl files for citation standards.
- 2. Within your markdown document, append @ with the unique citation-key declared in the .bib file, to add references.
- 3. Add the -C or --cite-proc argument when compiling, to process the citations.
- 4. Add the --bibliography=<file-name>.bib argument to specify the path to the file (replace <file-name>).
- 5. Optionally add the --csl=<file-name>.csl argument to specify a certain citation style.

#### Raw

This is a self reference. [@puth-mdg]

#### **Formatted**

This is a self reference. [1]

## Explore

- Labels
- Images

- Citations
- Citation Syntax

# References

[1] P. Aim, "Markdown guide," 2022. [Online]. Available: https://github.com/puth2314/markdown-guide