Software

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Chapter 1

Markdown

1.1 Learn X in Y Minutes/Markdown

"Get the code: markdown.md. Markdown was created by JOHN GRUBER in 2004. It's meant to be an easy to read & write syntax which converts easily to HTML (& now many other formats as well). Markdown also varies in implementation from 1 parser to a next. This guide will attempt to clarify when features are universal or when they are specific to a certain parser."

1.1.1 HTML Elements

"Markdown is a superset of HTML, so any HTML file is valid Markdown.

<!--This means we can use HTML elements in Markdown, such as the comment element, & they won't be affected by a markdown parser. However, if you create an HTML element in your markdown file, you cannot use markdown syntax within that element's contents.-->''

1.1.2 Headings

"You can create HTML elements <h1> through <h6> easily by pretending the text you want to be in that element by a number of hashes (#).

```
# This is an <h1>
## This is an <h2>
### This is an <h3>
#### This is an <h4>
##### This is an <h6>
###### This is an <h6>
```

Markdown also provides us with 2 alternative ways of indicating h1 & h2.

1.1.3 Simple Text Styles

"Text can be easily styled as italic or bold using markdown.

```
*This text is in italics.*
_And so is this text._

**This text is in bold.**
_And so is this text._

***This text is in both.***

**_As is this!_**

*__And this!__*
```

In GitHub Flavored Markdown, which is used to render markdown files on GitHub, we also have strikethrough:

~~This text is rendered with strikethrough.~~,,

1.1.4 Paragraphs

"Paragraphs are a one or multiple adjacent lines of text separated by one or multiple blank lines.

This is a paragraph. I'm typing in a paragraph isn't this fun?

```
Now I'm in paragraph 2.

I'm still in paragraph 2 too!
```

I'm in paragraph three!

Should you ever want to insert an HTML
 /> tag, you can end a paragraph with 2 or more spaces & then begin a new paragraph.

I end with two spaces (highlight me to see them).

There's a
 above me!

Block quotes are easy & done with the > character.

- > This is a block quote. You can either
- > manually wrap your lines \& put a '>' before every line or you can let your lines get really long & wrap on
- > their own.
- > It doesn't make a difference so long as they start with a '>'.
- > You can also use more than one level
- >> of indentation?
- > How neat is that?"

1.1.5 Lists

"Unordered lists can be made using asterisks, pluses, or hyphens.

- * Item
- * Item
- * Another item

or

- + Item
- + Item
- + One more item

or

- Item
- Item
- One last item

Ordered lists are done with a number followed by a period.

- 1. Item 1
- 2. Item 2
- 3. Item 3

You don't even have to label the items correctly & Markdown will still render the numbers in order, but this may not be a good idea.

```
1. Item 1
1. Item 2
```

1. Item 3

(This renders the same as the above example)

You can also use sublists

- 1. Item one
- 2. Item two
- 3. Item three
 - * Sub-item
 - * Sub-item
- 4. Item four

There are even task lists. This creates HTML checkboxes.

Boxes below without the 'x' are unchecked HTML checkboxes.
- [] 1st task to complete.
- [] 2nd task that needs done
This checkbox below will be a checked HTML checkbox.

1.1.6 Code Blocks

"You can indicate a code block (which uses the <code> element) by indenting a line with 4 spaces or a tab.

```
This is code
So is this
```

You can also re-tab (or add an additional 4 spaces) for indentation inside your code

```
my_array.each do |item|
   puts item
end
```

- [x] This task has been completed'

Inline code can be created using the backtick character '

```
John didn't even know what the 'go_to()' function did!
```

In GitHub Flavored Markdown, you can use a special syntax for code

```
'''ruby
def foobar
    puts "Hello world!"
end
'''
```

The above text doesn't require indenting, plus GitHub will use syntax highlighting of the language you specify after the ""."

1.1.7 Horizontal Rule

"Horizontal rules (<hr/>) are easily added with 3 or more asterisks or hyphens, with or without spaces.

1.1.8 Links

"1 of the best things about markdown is how easy it is to make links. Put the text to display in hard brackets [] followed by the URL in parentheses ()

```
[Click me!](http://test.com/)
```

You can also add a link title using quotes inside the parentheses.

```
[Click me!](http://test.com/ "Link to Test.com")
```

Relative paths work too.

```
[Go to music] (/music/).
```

Markdown also supports reference style links.

```
[Click this link] [link1] for more info about it! [Also check out this link] [foobar] if you want to.
```

```
[link1]: http://test.com/ "Cool!"
[foobar]: http://foobar.biz/ "Alright!"
```

The title can also be in single quotes or in parentheses, or omitted entirely. The references can be anywhere in your document & the reference IDs can be anything so long as they are unique.

There is also "implicit naming" which lets you use the link text as the id.

```
[This][] is a link.
```

```
[this]: http://thisisalink.com/
```

But it's not that commonly used."

Table of contents

"Some Markdown flavors even make use of the combination of lists, links & headings in order to create table of contents. In this case, heading titles in lowercase are prepended with hash (#) & are used as link ids. Should the heading have multiple words, they will be connected with a hyphen (-), that also replaces some special characters. (Some other special characters are omitted though.)

- [Heading] (#heading)
- [Another heading] (#another-heading)
- [Chapter] (#chapter)
 - [Subchapter <h3 />] (#subchapter-h3-)

Nonetheless, this is a feature that might not be working in all Markdown implementations the same way."

1.1.9 **Images**

"Images are done the same way as links but with an exclamation point in front!

```
![This is the alt-attribute for my image](http://imgur.com/myimage.jpg "An optional title")
```

And reference style works as expected.

```
![This is the alt-attribute.][myimage]
```

```
[myimage]: relative/urls/cool/image.jpg "if you need a title, it's here"''
```

1.1.10 Miscellany

Auto-links

```
<http://testwebsite.com/> is equivalent to
[http://testwebsite.com/](http://testwebsite.com/)
```

Auto-links for emails

<foo@bar.com>

Escaping characters

I want to type *this text surrounded by asterisks* but I don't want it to be in italics, so I do this: *this text surrounded by asterisks*.

Keyboard keys

"In GitHub Flavored Markdown, you can use a jkbdj tag to represent keyboard keys."

```
Your computer crashed? Try sending a <kbd>Ctrl</kbd>+<kbd>Alt</kbd>+<kbd>Del</kbd>''
```

Tables

"Tables are only available in GitHub Flavored Markdown & are slightly cumbersome, but if you really want it:

or, for the same results

```
Col 1 | Col2 | Col3
:-- | :-: | --:
Ugh this is so ugly | make it | stop
```

1.1.11 Markdownlint

"In order to simplify work with Markdown & to unify its coding style, Markdownlint has been created. This tool is available also as a plugin for some IDEs & can be used as an utility to ensure validity & readability of Markdown."

1.1.12 Further Reading

"For more info, check out John Gruber's official post of syntax & Adam Pritchard's great cheatsheet. If you want to learn more on some major Markdown flavors' features, see:

- GitHub flavored Markdown
- GitLab flavored Markdown

Originally contributed by DAN TURKEL, & updated by 13 contributor(s)."

Bibliography

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