

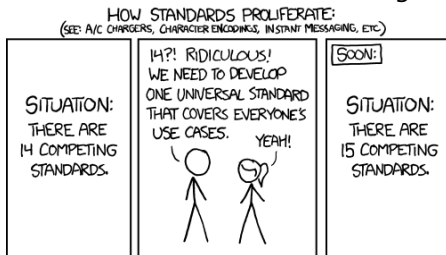
Markdown

Markdown Notes 2025

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- ▶ **Markdown** is a lightweight markup language for creating formatted text using a text editor
- ▶ Invented by John Gruber in 2004 — there are now lots of alternative Markdown extensions (see the references section)
- ▶ You do not need to read all of the references — you only need a small number of markup constructs to do most things — listed on the notes below
- ▶ It is the curse of the IT world that we have proliferating and competing standards — you have to read enough of the documentation to work out what is going on



Markdown

Summary (1)

Text	Other	Comment
<code>*Italic*</code>	<code>_Italic_</code>	
<code>**Bold**</code>	<code>__Bold__</code>	
<code>*_itemA</code> <code>*_itemB</code>	<code>~_itemA</code> <code>~_itemB</code>	Unordered list
<code>1._itemA</code> <code>2._itemB</code>	<code>1)_itemA</code> <code>2)_itemB</code>	Ordered list
<code>---</code>	<code>***</code>	Horizontal rule
<code>#_Heading 1</code>	<code>Heading 1</code> <code>=====</code>	
<code>##_Heading 2</code>	<code>Heading 2</code> <code>-----</code>	
<code>\</code>		Escape character
Inline <code>'code'</code>		Inline code
<code>![Image](url)</code>		

- **Notes** The symbol `_` Unicode U+2423 (Open Box) indicates a required space (the color is Teal #008080)
- Beware spaces `**_Bold_*` gets `**_Bold_*` not **Bold**

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Summary (2)

- ▶ **Maths** uses \LaTeX notation
- ▶ See **Word settings** > **AutoCorrect** > **Maths AutoCorrect**
- ▶ `Θ` gets Θ but `θ` gets θ
- ▶ See [MultiMarkdown: Maths Guide](#)

Text	Other	Comment
<code>\$\Theta(n^2)\$</code>		$\Theta(n^2)$
<code>\$\Theta(n \log n)\$</code>		$\Theta(n \log n)$
<code>$e^{i\pi} + 1 = 0$</code>		$e^{i\pi} + 1 = 0$

- ▶ **Line Breaks, Paragraphs and Special Characters**
- ▶ `\` is the *escape character*
- ▶ `\` followed by a new line gets a line break
- ▶ A *blank line* is a paragraph break
- ▶ `\&` gets `&`
- ▶ `\\` gets `\`
- ▶ Beware trailing spaces — `_` may not get a line break

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Summary (3)

- ▶ **Code** should be in a monospaced font and preserve some syntax highlighting
- ▶ **Inline Code**
- ▶ Inline code: ‘def inOrderBT(t) :’ example
gets: Inline code `def inOrderBT(t) :` example
- ▶ Note that the syntax highlighting will depend on the local configuration
- ▶ The symbol that denotes the range of the inline code is (‘) Grave Accent, Unicode U+0060

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Summary (4)

► Code Block

```
1  '''python
2  def inOrderBT(t) :
3      if isEmptyBT(t) :
4          return []
5      else :
6          return (inOrderBT(getLeftBT(t)) + [getDataBT(t)]
7                  + inOrderBT(getRightBT(t)))
8  '''
```

```
def inOrderBT(t) :
    if isEmptyBT(t) :
        return []
    else :
        return (inOrderBT(getLeftBT(t)) + [getDataBT(t)]
                + inOrderBT(getRightBT(t)))
```

- The three characters denoting the range of the code block (``) are three Grave Accents, Unicode U+0060
- The language specifier python is optional (and Python is probably the default)
- The syntax highlighting will depend on local configuration

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Summary (5)

► Tables

- The example below is based on the example in [MultiMarkdown: Tables](#)
- Some parts in the original example do not appear to work: (a) Spanning cells; (b) Caption; (c) Empty lines
- Colons are used to indicate left and right alignment, with a colon at either end to indicate centering
- See also [GFM: 4.10 Tables \(extension\)](#)

```
1 | First Header | Second Header | Third Header |
2 | -----: | :-----: | -----: |
3 Content |                *Long Cell* | |
4 Content |      **Cell** |                Cell |
5 New section |      More |                Data |
6 And more | With an escaped '\|' | |
```

First Header	Second Header	Third Header
Content	<i>Long Cell</i>	
Content	Cell	Cell
New section	More	Data
And more	With an escaped '\ '	

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Summary (6)

- ▶ **Links and Images**

- ▶ **GFM: 6.6 Links**

- ▶ `[LinkText](url "title ")`

- ▶ `LinkText` is the Link text; `title` is optional

- ▶ **GFM: 6.7 Images**

- ▶ `![ImageDesc](url "title")`

- ▶ `ImageDesc` is image description; `title` is optional

- ▶ `url` should be a local file name in the same folder as the Notebook

- ▶ See [Jupyter: Markdown Cells](#) see the section *Security of local files*

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Web Links & References

- ▶ **Wikipedia:** [Markdown](#) a good overview and history
- ▶ **Markdown** daringfireball.net/projects/markdown/ John Gruber *Daring Fireball* from 2004
- ▶ **MultiMarkdown** fletcherpenney.net/multimarkdown/ Fletcher Penney extension of *Markdown* from 2007
- ▶ **GitHub Flavored Markdown (GFM)**
github.github.com/gfm/ extends the previous two and is a superset of *CommonMark*
- ▶ **CommonMark** spec.commonmark.org/ from 2014 one spec to rule them all (almost)
- ▶ **Jupyter Markdown** [Jupyter Documentstion: Markdown Cells](#) follows GFM (mainly)
- ▶ **HTML** developer.mozilla.org/en-US/docs/Web/HTML
- ▶ **CSS** developer.mozilla.org/en-US/docs/Web/CSS
- ▶ **JavaScript**
developer.mozilla.org/en-US/docs/Web/JavaScript

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Additional Markdown

- ▶ **Nested Lists**

- ▶ See

commonmark.org/help/tutorial/10-nestedLists.html