# Markdown Plain-text formatting

**START HERE**

`# Title`
Heading, level 1

`**bold**  *italic*`
Emphasis

`- item`
Bullet list

`[text](<url>)`
Link

`![alt](<url>)`
Image

`` `code` ``
Inline code

`> quote`
Blockquote

`| a | b |`
Table (GFM)

**Plain text** .md file → `parser` → **Syntax tree** blocks, inlines → `renderer` → **HTML** or PDF, docs

## CONCEPTS

Markdown is plain text with light marks. A blank line separates blocks; indentation decides nesting.

CommonMark is the core spec (0.31.2 here). GitHub Flavored Markdown adds tables, task lists, strikethrough, autolinks, alerts and footnotes; other renderers may not.

Raw HTML is passed through by most renderers, but GitHub and similar sites strip scripts and unsafe tags.

## HEADINGS & TEXT

`# H1  ## H2  ### H3`
ATX headings, 1 to 6 hashes

`**bold**  __bold__`
Strong emphasis

`*italic*  _italic_`
Emphasis

`***both***`
Bold and italic

`~~text~~`
Strikethrough (GFM)

```
Title
=====
```
Setext heading, H1 (underline with ---: H2)

`snake\_case`
Backslash escapes a special character
*Escapable:* \ `` ` * _ { } [ ] ( ) # + - . ! |

`line  (two spaces)`
Hard line break at end of line
*A backslash at line end also breaks; a single newline is just a space.*

`---  ***  ___`
Thematic break (horizontal rule)

## HEADINGS & TEXT (cont.)

`<!-- note -->`
Comment, not rendered

`<br>`
Raw HTML line break

## LISTS

`- item  * item  + item`
Bullet list

`1. item`
Ordered list
*Only the first number matters: 1. 1. 1. renders as 1. 2. 3.*

`  - nested`
Nest by indenting under the item text

`- [ ]  - [x]`
Task list, open and done (GFM)

`5. item`
Ordered list starting at 5

`- a (blank line) - b`
Blank line between items makes a loose list

## LINKS & IMAGES

`[text](<url>)`
Inline link

`[text](<url> "title")`
Link with hover title

`<https://example.com>`
Autolink in angle brackets

`![alt](<path>)`
Image

`[![alt](<img>)](<url>)`
Image that links

`[text][id]`
Reference link

`[id]: <url> "title"`
Define a reference, anywhere in file

## LINKS & IMAGES (cont.)

`[text](#section-name)`
Link to a heading anchor (lowercase, hyphens)

`https://example.com`
Bare URL auto-linked (GFM)

## CODE & QUOTES

`` `code` ``
Inline code

`` ``a ` b`` ``
Inline code containing a backtick

```` ```<lang> ````
Fenced code block with language
*Close with a matching ``` line; use ~~~ or four backticks to wrap a block containing ```.*

`    code`
Indented code block, 4 spaces

`> quote`
Blockquote

`> > nested`
Quote inside a quote

`> [!NOTE]`
Alert: NOTE, TIP, IMPORTANT, WARNING, CAUTION (GitHub)

```` ```diff ````
Highlight +/- lines as a diff

## TABLES & EXTRAS

`| a | b |`
Table header row (GFM)

`| --- | --- |`
Delimiter row, required under the header

`| :--- | :---: | ---: |`
Align left, centre, right

`\|`
Literal pipe inside a cell

## TABLES & EXTRAS (cont.)

`text[^1]`
Footnote reference (GFM)

`[^1]: note`
Footnote text, anywhere in file

`<details><summary>`
Collapsible section, raw HTML

`$x^2$`
Inline math (GitHub, others)

```` ```mermaid ````
Diagram block (GitHub, others)

## RECIPES

**Minimal README**

````
# Project

One-line summary.

## Install

```sh
npm install project
```
````

**Table with alignment**

```
| Name | Qty | Price |
| :--- | --: | ----: |
| Tea  |   2 |  3.50 |
```

**Collapsible log**

````
<details>
<summary>Show log</summary>

```
output here
```

</details>
````

**Footnote and reference link**

```
See the spec[^1] or the [docs]
[d].

[^1]: CommonMark 0.31.2.
[d]: https://commonmark.org
"Docs"
```
```