

day-2

Markdown: A Comprehensive Guide

Overview of Today

- ☐ Markdown: What is it? why will we learn it? and how it's used?
 - ☐ Markdown Syntax
 - ☐ README.md
 - ☐ Tutorial: Creating your own Readme Repository
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Resources that'll help you

- [Markdown interactive tutorial](#) You'll learn markdown in a short 10 mins interactive tutorial
 - [Markdown Cheatsheet](#) Markdown reference guide
 - [Online Markdown Editor](#)
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Introduction to Markdown

Markdown is a lightweight markup language created by John Gruber in 2004. It allows you to write using plain text formatting that converts to properly structured HTML. Think of it as a simplified way to write content for the web without needing to know HTML.

Why Learn Markdown?

Markdown has become essential in modern development for several reasons:

1. It's the standard format for documentation on GitHub, GitLab, and other platforms
2. Many technical blogs and CMS systems support Markdown
3. It's widely used for README files in software projects
4. It makes writing formatted content quick and efficient
5. Used by many scientists, mathematicians, and writers due to its simplicity.

Where You'll Use Markdown

- Documentation (README files, wikis)
- Technical blog posts
- Forums & social media posts (Reddit, Discord, and Telegram)
- Note-taking applications like Obsidian
- Static site generators
- Project management tools

Markdown Syntax Guide

Tip

Copy the content of the blocks below to a Markdown editor like [this](#) to see the results

Let's explore the fundamental syntax elements you'll use most often.

Basic Text Formatting

```
*This text will be italic*
_This will also be italic_

**This text will be bold**
__This will also be bold__

***This will be bold and italic***

~~This text will be strikethrough~~
```

Headers

Headers are created using the `#` symbol. The number of `#` symbols indicates the header level:

```
# Heading 1
## Heading 2
### Heading 3
#### Heading 4
```

```
##### Heading 5
##### Heading 6
```

Lists

Unordered Lists

```
* Item 1
* Item 2
  * Subitem 2.1
  * Subitem 2.2
```

Ordered Lists

```
6. First item
7. Second item
  1. Subitem 2.1
  2. Subitem 2.2
```

Links and Images

```
[Visit GitHub](https://github.com)

![Alt text for image](image-url.jpg)
```

Code Blocks

For inline code, use single backticks:

```
Use 'gcc main.c' to Compile your C code
```

For code blocks, use triple backticks with optional language specification:

```
```c
void hello(){
 printf("Hello!\n");
}
```
```

Tables

| Header 1 | Header 2 |
|----------|----------|
| Cell 1 | Cell 2 |
| Cell 3 | Cell 4 |

README.md

Each Repository might have a special markdown file called `README.md`, this file is used to showcase a project on your Github, it might contains details like:

- What is your project about
- A basic Documentation about your project
- Installation & usage steps
- Contribution Guidelines
- License
- And anything else necessary

Step-by-Step Guide Creating your first README.md on Github

8. Create a new repository on GitHub
9. Clone it to your local machine
10. Create a new file called `README.md`
11. Add the following template, feel free to modify to your liking:

```
# Project Name

## Description
Brief description of your project

## Usage/Installation
How to use your project

## Contribution guidelines
```

Optional

- ☐ Create your own Readme Repository

☐ Add a Readme to it that gives an introduction about you