

LEARN WEB

ale66

MARKDOWN

MARK-UP, A RECAP

Enrich the text with annotations that may describe

- its structure: `<body>`, `<header>`, `<p>` ...
- how it should be rendered: `<h1>`, `` ...
- the meaning of its parts: `<title>`, `<quote>` `<article>` ...

Residual cases:

- tags inside `<head>` for indexing etc., in particular `<meta>`
- tags inside `<body>`: `<div>` and ``

CURRENTLY

- we are editing HTML documents to provide a bit of all this
- the text is irremediably mixed with the mark-up
- the mark-up is not very readable and often repetitive

THE MARKDOWN VISION

1. prepare a text file with all the content but only minimal annotations: the Markdown file `my_contents.md`
2. feed it to a *parser* software, e.g., *pandoc* that *renders* it:
 - HTML tags are *injected* into the file, and
 - CSS styles are linked and assigned to tags
3. the thus-created `my_page.html` can be manually refined/tweaked, if need be
4. publish it

MARKDOWN RENDERING

MD code is *rendered* into HTML equivalent annotations
platforms with web page generation support MD contents
and render them automatically:

- MyAriel
- GitHub

MD IS USEFUL:

in the `my_page.html` version:

TWO MEANINGS FOR [] ()

[linked text](https://www.unimi.it) ->

linked text

![](./imgs/image.png) ->

MD files are essentially parsed and rendered row by row
it is possible to put HTML tags into a MD file and to see them
in the rendering.

```
1  ### this is an h3 title in MD
2
3  <img src='./imgs/image.png' width="50%" alt='Merry Xmas'>
4
5  __this is a boldface caption to the image__
```

MD INTERPRETERS

- download the MD extension for VS Code
- use online interpreters from GitHub

to-markdown[Source on GitHub](#)

☐ GitHub Flavored Markdown

HTML

```
<h1>This is Hello World in
HTML</h1>



<p>Hello World!</p>
<p>A.K.A:</p>
<ul>
  <li>Earth</li>
  <li>Terra</li>
  <li>Gaia</li>
  <li>Globe</li>
</ul>
```

Markdown

```
# This is Hello World in HTML

![A small picture of the Earth.]
(images/earth-small.png)

Hello World!

A.K.A:

*   Earth
*   Terra
*   Gaia
*   Globe
```

github.com/ale66/learn-web

THE LIMITS OF MD

There is no international/industrial standard:
ambiguity ensues

`![My text](./imgs/image.png) ->`

```
1 <img src='./imgs/image.png' alt="My text" />
```

```
1 <img src='./imgs/image.png'>
```

```
2
```

```
3 <h6>My text</h6>
```

Use Pandoc/Quarto Markdown

LEARN MD

GET STARTED

Study the simplified language on [GitHub](#) where interpretation is automated

GitHub interprets Markdown automatically


Example: [collapsed sections](#)

MARDOWN IN VS CODE

VS code supplies a preview of the rendering of `.md` files
install the [Markdown-all-in-one](#) extension by Yu Zhang
The page explains how to code MD quickly

VisualStudio | Marketplace

Visual Studio Code > Programming Languages > Markdown All in One



Markdown All in One

Yu Zhang | 9,740,159 installs | ★★★★★ (155) | Free

All you need to write Markdown (keyboard shortcuts, table of contents, auto preview and more)

[Install](#) [Trouble Installing?](#)

[Overview](#) [Version History](#) [Q & A](#) [Rating & Review](#)

Markdown Support for Visual Studio Code

vscode marketplace	v3.6.2	downloads	28M	build	passing	github stars	2.9k	contributors	64
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SUMMARY OF THE METHOD

- Markdown is the simplest, lightest form of text annotation
- the pandoc software takes our MD text and generates an equiv. HTML page
 - fragments for inclusion into an existing page, or
 - standalone pages
- VS Code+Markdown-all-in-one supports MD with highlighting & preview
- pandoc.org/try/ generates pages from MD texts
- install Pandoc on your computer to render pages
- other output formats are available: DOCX, PPTX, PDF, EPUB etc.

SELF-ASSESSMENT

- what is mark-up?
- what is rendering? Who/what does it?
- what is HTML injection? Who/what does it?
- why do README.md files look good on GitHub?
- what is pandoc?

CODA: THE HTML INJECTION ATTACK

Malicious HTML generation could embed invisible parts that in fact communicate, using HTTP Post() methods!

