3   Markdown

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Overview

Markup languages   *LaTeX, HTML, Markdown*

Markdown flavors   *GitHub, R Markdown, Quarto*

Formatting text   *heading, bold, italic, list,
quote, linebreak, horizontal line, code, link*

Other elements   *table, figure, GitHub user/issue/commit*

Markup Languages

Markup Languages

LaTeX

Introduced: 1978/1985

Original purpose: books, articles, reports, slides

Today: can be used directly or as an engine to produce PDF

HTML

Introduced: 1991

Original purpose: webpages

Today: paperless format, less restrictive than the 'paper metaphor' PDF format

Markdown

Introduced: 2004

Original purpose: easy-to-write, easy-to-read, optionally convert to HTML

Today: can produce HTML or PDF (via LaTeX), can run R code

Markup Languages

LaTeX: file.tex

```
\documentclass{article}
\begin{document}
Hello world
\end{document}
```

HTML: file.html

```
<!DOCTYPE html>
<title></title>
<body>
<p>Hello world
```

Markdown: file.md

```
Hello world
```

Markdown Flavors

Markdown Flavors

GitHub Flavored Markdown

Features: table, autolink, user/issue/commit

Usefulness at SPC: README.md, GitHub discussions

R Markdown

Features: run R code

Usefulness as SPC: R analyses, HTML/PDF documents

Quarto

Features: run R and Python code

Usefulness as SPC: R analyses, HTML/PDF documents

Formatting Text

Formatting Text

```
# Heading level 1
## Heading level 2
### Heading level 3

**bold**
*italic*

* unordered
* list

- alternative
- style

1. ordered
2. list
```

```
> quoted
> text

line\
break


---


Inline `code`


```
code block
```


https://example.com
[click here](https://example.com)
```

Other Elements

Other Elements

```
| Table | Header |
| ----- | ------ |
| Data  | Values |
| Data  | Values |
```

```
![](figure.png)
```

```
<img src="figure.png" alt="">
```

```
@user        -  github username
#1           -  github issue number
e15ccce      -  github commit sha code
```

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