

3 Markdown

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SPC Git/GitHub Workshop
Nouméa, 12 November 2025



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

Formatting Text (cont.)

> quoted
> text

line\
break

Inline `code`

code block

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

Formatting Other Elements

Formatting Other Elements

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

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

```

```

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

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