

Applied \LaTeX and Markdown for Researchers

Daniel Sánchez Pazmiño, MA

Laboratorio de Investigación para el Desarrollo del Ecuador

February 2025

Markdown

Markdown

- Markdown is a *lightweight markup language*
 - Means that, unlike \LaTeX or html it is not a programming language
 - Overall, known for its simplicity and readability, both in its raw form and rendered form
- Markdown is widely used in coding-related applications, such as:
 - GitHub
 - Jupyter Notebooks/Google Colab
 - R Markdown/Quarto
 - Stack Overflow
 - Slack
 - Notion/Obsidian
 - Reddit!

Markdown Syntax

- We've already talked about some basic Markdown syntax:
 - Headers use #
 - Lists use - or 1.
 - Emphasis uses * or _
 - Links use [text] (url)
- There are many more elements in Markdown, such as:
 - Images
 - Tables
 - Blockquotes
 - Code blocks
 - Footnotes
 - And more!
- You can consult the Markdown Guide for more information

Markdown flavours

- Markdown has “flavours” or “dialects” that add extra functionality
 - GitHub Flavored Markdown (GFM)
 - CommonMark
 - Pandoc Markdown
 - Markdown Extra
 - And more!
- These flavours add extra functionality, such as:
 - Tables
 - Footnotes
 - Strikethrough
 - Task lists
 - And more!
- The most common is GFM, which is what we’ll be using today
 - See the GitHub Markdown Cheatsheet for more info

Compilation of Markdown

- In RMarkdown and Quarto, Markdown text is compiled through Pandoc
 - Pandoc is a universal document converter
- We do not need to understand much about the internal workings of Pandoc
- But know that Markdown can be used and compiled without any major software
 - Use VS Code (with the Markdown Preview Enhanced and Markdown All in One extensions)