

Effective Programming Practices for Economists

Texts, Typesetting, and Text Data

Markup languages

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What are markup languages?

A markup language is a text-encoding system consisting of a set of symbols inserted in a text document to control its structure, formatting, or the relationship between its parts.

(Wikipedia)

In short: Markup languages let us write pretty documents in plain text files!

Hypertext Markup Language (HTML)

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h1>My First Heading</h1>
```

```
<p>My first paragraph.</p>
```

```
</body>
```

```
</html>
```

My First Heading

My first paragraph.

The workhorse of academia: LaTeX

```
\documentclass[11pt,a4paper]{article}  
\usepackage[utf8]{inputenc}  
  
\begin{document}  
  
\section*{My First Heading}  
My first paragraph.  
  
\end{document}
```

My First Heading

My first paragraph.

It doesn't have to be hard: Markdown

```
## My First Heading
```

```
My first paragraph.
```

My First Heading

My first paragraph.

Why use Markup Languages?

Markup languages can create pretty documents in plain text files

- Better version control
- Powerful editors like VS Code (getting close to WYSIWYG)
- Easy automation
- Focus on structure and content, not on formatting