A webpage is like a mount with 3 layers

- 1. HTML = structure and content
- 2. CSS = design or look and feel
- 3. JavaScript = interaction and behaviour

Each technology has its responsibility.

HTML

HTML is a markup language. It's not a programming language because it doesn't understand logic. It simply contains information about the structure and display of a document.

- · The bottom layer.
- This layer is all about structure, semantics, meaning.
- Used to tell people and machines how the page is structured.

Examples:

- <h1> = this is the most important title
- <h2> = this is a subtitle
- = just a paragraph
- · HTML is very important for machines (software, computers).
- If HTML is used properly, a search engine (like Google) can understand the structure of the document. For example, if the search engine sees <h1> tags, it know that this text is important.

You can easily abuse HTML and use it for design. A classic bad example is using HTML tables to make columns in the page.

A good web designer never uses HTML for design.

CSS

CSS, or Cascading Style Sheets, is used to apply visual design to HTML elements. Cascading refers to the parent-child structure of CSS. A style set on a parent element will also apply to its child elements, unless a child has style rules that override that of the parent.

- CSS = aka 'stylesheets'.
- · CSS determines what the page looks like.

CSS is not required to make a webpage. If you don't add a stylesheet yourself, the browser's default stylesheet will be used.

JavaScript

- JS: used for interaction
- For example: animations, popups, form validation, ...