Web Development Basics

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Agenda

1. **Code Editing**

2. **HTML**

3. **CSS**

4. **Version control**

Code Editing

What ?

A code editor is a text editing program designed for specifically editing source code of computer programs.

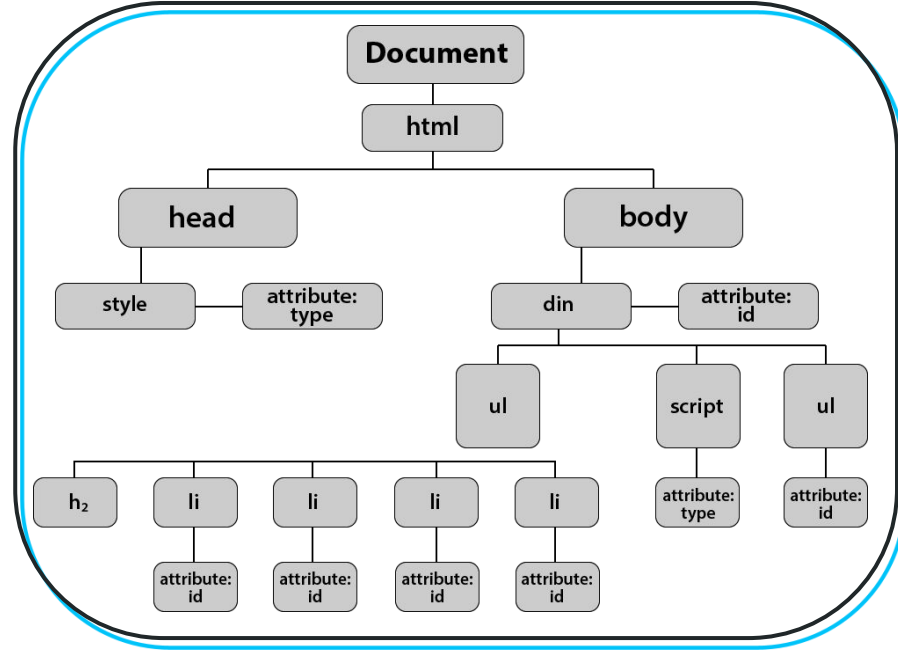Download Visual Studio Code.

HTML

What ?

HyperText Markup Language (HTML) is a language for creating web pages and web applications.

HTML files that produce web pages are simple text files. Text is a universal way of representing data for computers; any HTML you create on a Windows PC could work on a Mac, Linux/Unix, or any other OS.

HTML uses tags to decide how to display, order and style the content on the page.

DOM Tree

Every HTML Document can be represented as a tree using the Document Object Model (DOM), which contains all the elements of the HTML document, their format and the browser state at a specific moment.

Block Vs Inline

Block-level elements begin a new line on the webpage and, if no width is set, extend the full width of the available horizontal space of its parent element.

Inline elements flow like text. They don't start a new line and they are shown right next to the previous element without clearing previous content.

CSS

What ?

Cascading Style Sheets (CSS) is a style sheet language used to describe the "rules" that will define the look of your webpage. Without CSS, all the pages would look as plain text and images.

HTML, CSS and JavaScript are the only languages the browser can understand, so it is really important to understand the basic rules of these stylesheets (CSS files) if we want to work efficiently with our web pages.

Where ?

The styles can be applied from different positions:

- In a separate file
- In the head of the HTML file
- Inline, directly on the element

Also, the styles are applied in that order in what would be an importance of position, with a cascading effect.

Selectors

You can apply styles to specific elements by using the correct selector:

- **Type**: div, span, a, p, …
- **Class**: .className
- **Id**: #idName
- **All**: *
- **Pseudo-class**: :hover, :checked, …
- **Pseudo-element**: ::before, ::first-letter, …

VCS

What ?

A version control system is a software that helps developers to track changes and distribute their code.

Git is an example of a DVCS (Distributed Version Control System). This means that rather than having one single place for the full version history of the software, every developer gets to have his own working copy of the code. This copy is also a repository with the complete history of all changes ever done to that version of the code.

GitHub is a code-hosting platform. It lets you and others work together on projects from anywhere.

GitHub is NOT Git.

Git runs on your local machine, while GitHub runs on the Internet.

It's your turn now.