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#Day 1

What is HTML?

HTML stands for HyperText Markup Language. It is the standard markup language used to create web pages. HTML consists of various elements and tags that define the structure and content of a webpage.

HTML (Hypertext Markup Language) is the standard markup language used for creating web pages. It defines the structure and layout of a webpage by using various tags and attributes.

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HTML: The Language of the Web

HTML, which stands for HyperText Markup Language, is the foundation of the World Wide Web. It's a markup language that web developers use to structure content on webpages. But what exactly is a markup language, and why is HTML crucial for web development?

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Markup Languages

Markup languages are a type of programming language used to annotate and format text. They provide a way to add special instructions or tags to plain text to give it structure and meaning. These tags are typically enclosed in angle brackets (< >), and they tell web browsers how to display content.

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HTML as a Markup Language

HTML is specifically designed for creating web pages. It uses a system of tags to define the structure and content of a webpage. Each tag serves a particular purpose. For example:

- `<h1>` tags are used to define headings.
- `<p>` tags are used for paragraphs.
- `<a>` tags create hyperlinks.
- `` tags embed images.
- `` and `` tags create unordered lists.

By using these tags and placing content between them, you can describe how elements on a webpage should be displayed. HTML acts as the skeleton of a webpage, determining what goes where and how it should look.

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Why HTML is Essential for Web Development

HTML is essential for several reasons:

- **Structure:** It provides a clear structure for your content, making it easy for both humans and web browsers to understand the layout of a webpage.
- **Accessibility:** Properly structured HTML enhances web accessibility. It allows screen readers and assistive technologies to interpret and convey the content to users with disabilities.
- **Search Engine Optimization (SEO):** HTML provides semantic elements that help search engines understand the content. This improves a webpage's visibility in search engine results.

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Why HTML is Essential for Web Development

HTML is essential for several reasons:

- **Compatibility:** HTML is supported by all major web browsers, ensuring that your content can be accessed by a wide audience.
- **Interactivity:** HTML can be combined with other technologies like CSS and JavaScript to create interactive and dynamic web experiences.
- **Cross-Platform Compatibility:** HTML works on various devices and screen sizes, making it crucial for responsive web design.

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http://info.cern.ch - home of the first website

From here you can:

- [Browse the first website](#)
- [Browse the first website using the line-mode browser simulator](#)
- [Learn about the birth of the web](#)
- [Learn about CERN, the physics laboratory where the web was born](#)

World Wide Web

The WorldWideWeb (W3) is a wide-area [hypermedia](#) information retrieval initiative aiming to give universal access to a large universe of documents.

Everything there is online about W3 is linked directly or indirectly to this document, including an [executive summary](#) of the project, [Mailing lists](#) , [Policy](#) , November's [W3 news](#) , [Frequently Asked Questions](#) .

[What's out there?](#)

Pointers to the world's online information, [subjects](#) , [W3 servers](#), etc.

[Help](#)

on the browser you are using

[Software Products](#)

A list of W3 project components and their current state. (e.g. [Line Mode](#) ,X11 [Viola](#) , [NeXTStep](#) , [Servers](#) , [Tools](#) , [Mail robot](#) , [Library](#))

[Technical](#)

Details of protocols, formats, program internals etc

[Bibliography](#)

Paper documentation on W3 and references.

[People](#)

A list of some people involved in the project.

[History](#)

A summary of the history of the project.

[How can I help ?](#)

If you would like to support the web..

[Getting code](#)

Getting the code by [anonymous FTP](#) , etc.

The first-ever website, often referred to as the "world's first website," was created by Tim Berners-Lee. Tim Berners-Lee is also credited with inventing the World Wide Web. The first website was made publicly available on August 6, 1991.

The address of the first website was
<http://info.cern.ch>.

Role and History of HTML:

HTML plays a crucial role in the World Wide Web as it allows web browsers to interpret and display the content of a webpage. It provides a standardized way to structure documents and include elements such as headings, paragraphs, images, links, tables, and forms.

HTML has evolved over time. The first version, HTML 1.0, was released in 1993. Subsequent versions like HTML 2.0, HTML 3.2, HTML 4.01, and XHTML brought new features and improvements. In recent years, HTML5 has become the latest version, offering enhanced multimedia support, semantic elements, and improved accessibility.

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In summary, HTML is the backbone of web development. It structures content, makes it accessible, and plays a significant role in optimizing webpages for search engines. Understanding HTML is fundamental for anyone looking to build and design webpages effectively.

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