

Technical AUK

Basic to Advance HTML

Introduction to HTML

HTML



HyperText Markup Language – HTML

Agenda

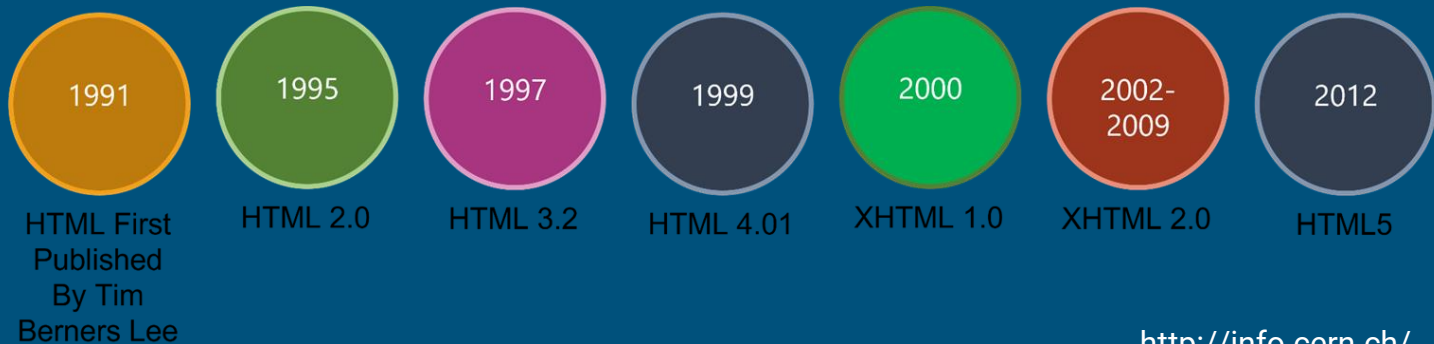
- What is HTML?
 - Structure of HTML
 - Tags vs Elements vs Attributes
 - Block Level Vs Inline Elements
 - Links (Absolute vs Relative Links)
 - Multimedia (Images, Audios, Video)
 - Lists (Ordered, Unordered, Description List)
 - Tables
 - Semantic Element vs Non-semantic Elements
-

HyperText Markup Language (HTML)

- HTML stands for Hypertext Markup Language.
- HTML forms the base of any website as HTML contains the information about the document and tells the browser what is the data on the page in terms of text, links, and also directs the browsers where to find images.
- The most common and popular versions of HTML are HTML4 and HTML5.
- The HyperText Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser.
- HTML5 is the fifth revision and newest version of the HTML standard.

History of HTML

- HTML was created by Sir Tim Berners-Lee in late 1991 but was not released officially, published in 1995 as HTML 2.0 HTML 4.01 was published in late 1999 and was a major version of HTML.

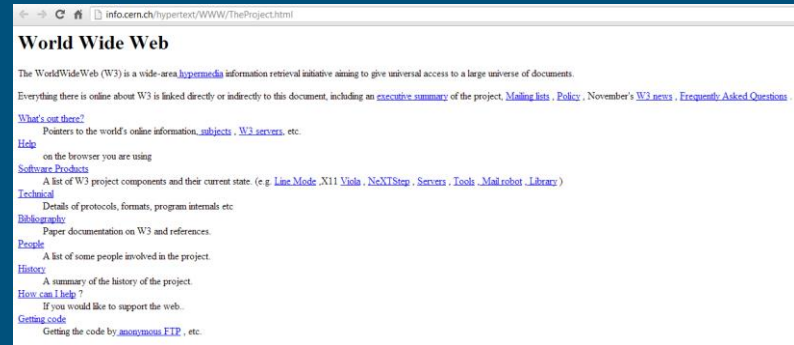


<http://info.cern.ch/>

The World First Website

- The first web page address was <http://info.cern.ch/hypertext/WWW/TheProject.html>
- It outlined how to create Web pages and explained more about hypertext.
- Here's what it looked like in 1992 (below). No screenshots were taken of the site before then.

<http://info.cern.ch/>



There are no screenshots of the original page, but this is the closest copy, taken in 1992.

Web Designing and Web Development

Web Designer

- A web designer is a person that makes the website looks good.
- The main responsibility of Web Designers is to focus on the style and overall feel of the website using different software like Adobe Photoshop, Adobe XD, Figma and Corel Draw, etc. to make the website more attractive.

There are different types of web designers as per their role:

- User Experience (UX) Designer:
- User interface (UI) designer:

Web Designing and Web Development

Web Developer

- Web developers are generally called programmers.
- They take the design created by the web designers and convert it into a fully functioning website.
- They use different software and tools like JavaScript, jQuery, Node.js, PHP, ASP.NET Python, etc.

Based on their role, web developers can also be divided into three types:

- Frontend Developer
- Backend Developer
- Full Stack Developer

What type of developers work on WebPages?

Front-end Developer

- Write client-side code to ...
- Create and Design webpages using HTML and CSS
- Give websites functionality using JavaScript
- Send requests to servers and handle their responses



What type of developers work on WebPages?

Back-end Developer

- Write *server-side* code to ...
- Receive requests from clients and send back responses.
- Connect to a database to store and look up data send as JSON
- Handle other logic such as transforming data or performing calculations.

Full-stack Developer

- Write *server-side* and *client-side* code !

Difference between HTML4 & HTML5

- The main difference between HTML4 and HTML5 is that HTML4 is the 4th and older version of HTML with fewer features and tags while HTML5 is the extension of HTML4 and the 5th version of HTML which has new and simple features and has multiple new tags.
- HTML4 does not support multimedia while HTML5 supports multimedia.
- HTML4 uses `<acronym>` tag to display abbreviations of the web browser while HTML5 uses `<abbr>` tag to display the abbreviations in the web browser.

Difference between HTML4 & HTML5

HTML 5	HTML 4
It is extension of HTML4. It is 5th version of HTML.	It is the 4th Version of HTML.
HTML 5 is very simple is compared to HTML4.	Is is older version of html5, so having less features compared to html5.
HTML provides consistency in malformed documents. it has better error handling.	It does not provides better error handling like html5.
It has many new tag which was not present in html4 like canvas, video, audio.	These tags not provided by html4 version.
Multimedia support provided by html5.	In html4 these supported provided by third party.