

# Introduction to HTML

## Topics covered:

- What is HTML?
- What is HyperText?
- What is Markup?
- What are the benefits of using HTML5?
- What is the basic structure of HTML?
- How to save an HTML file?
- What is the importance of learning HTML?

1. **HTML:** → *Combination of Hypertext & Markup Language* *standardised* *↳ World wide use due to norms*
- HTML stands for **HyperText Markup Language**.
  - HTML is the **standard markup language** used for **designing web pages**.
  - HTML elements are represented by tags < >.
  - HTML can be **assisted by** CSS style sheets (**CSS**) and scripting languages like JavaScript (**JS**).

- Connection b/w HTML & Browser*
- HTML was created to document pages that are displayed on the web pages. The HTML **helps the browser to display** text, load images, and other elements.
  - HTML was created in **1993** by **Tim Berners-Lee**. Since then, we have had different versions of HTML that are upgraded and now the most widely used version is **HTML5**.
  - HTML is used for creating pages that are displayed on the web pages. **All the pages** that we see on **World Wide Web (www)** are written on different versions of HTML.

## 2. HyperText:

- The **word or words** that **contain a link** to a website is HyperText.
- The term Hypertext was **coined** in **1963** by **Ted Nelson**.
- Example:



## 3. Markup:

- A markup language uses **tags </>** to define elements within a document.
- The readable files contain standard words, rather than using typical programming syntax called Markup language. *not using complex lang. — understandable words*
- **Example** markup languages: **HTML, SGML, and XML.**

- Example: *Paragraph*

`<p>Hello. Welcome to <b>Full Stack Development Course </b></p>`

*close paragraph*

*Bold*

Hello. Welcome to **Full Stack Development Course**

Markup language

#### ★ 4. Benefits of HTML5 over other versions of HTML: *(Ques for Interview)*

- Cleaner markup,
- consistency,
- support multimedia with new tags,
- Offline application cache.

*Direct*

*Create*

*Boiler Plate*

#### 5. Structure of HTML:

Code:

*{ Standardized HTML Document structure }*  
*{ Visual Studio Code → ! ⊕ Enter / Tab }*

`<!DOCTYPE html>`

`<html>` — *open*

`<head>`

`<!-- title of the web page -->`

`<title>HTML</title>`

`</head>`

`<body>`

`<!-- paragraph -->`

`<p>Structure of HTML</p>`

`</body>`

`</html>` — *close*

*write & ctrl ⊕ / to change into comment*

*— shows comment which is ignored used only for our convinence*

*{ ctrl ⊕ / }*

*/ ← slash ctrl ⊕ / close tag*

\* Metadata → A set of data that describes another data.  
 (used to empower browser through SEO (Search Engine Optimization))

Where,

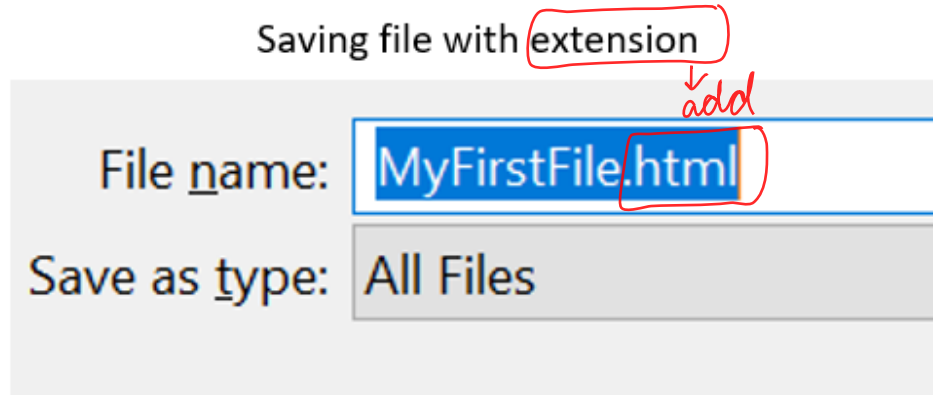
Tags	Purpose
<code>&lt;!DOCTYPE html&gt;</code>	Defines the document as an HTML5 document. <i>Browser recognized → HTML Doc</i>
<code>&lt;html&gt; &lt;/html&gt;</code>	<b>Root element</b> of the HTML document.
<code>&lt;head&gt; &lt;/head&gt;</code>	Contains the <b>information</b> about the document
<code>&lt;title&gt;&lt;/title&gt;</code>	Specify the title that has to be shown in the <b>browser's title bar/tab</b> .
<code>&lt;body&gt; &lt;/body&gt;</code>	Defines the document body, it's the <b>container for all contents</b> like headings, images, paragraphs, tables, lists, etc...
<code>&lt;p&gt;&lt;/p&gt;</code>	Defines a <b>paragraph</b> .

Output:



## 6. HTML file extension:

- To be recognized by the web browsers all the HTML files must have a special file extension.
- The extension is .html



Appearance of file after saving



## 7. Importance of HTML:

- HTML is the foundation of all web pages.
- HTML is the beginning and basic level to start with web development.
- HTML is far easier to understand and learn.
- Almost every browser supports HTML. So it is bound to show up in all browsers regardless of where it is accessed through.

## 8. Challenge:

*Assignments*

With your new gained knowledge on HTML conduct further research about HTML and get familiar with the following:

- What is the relationship between browser and HTML?
- What are the advantages of HTML5 over other versions? ✓
- Which language is used to decorate/ style HTML elements?

→ helps browser to show text  
pic and other elements.

→ Standard Markup  
language