# **Complete HTML**



**HTML (HyperText Markup Language)** is the standard language for creating web pages.

- It provides the **structure** of a webpage.
- Everything on the internet (websites, blogs, etc.) starts with HTML.
- Other famous Markup languages are LateX, XML etc.

## **Basic Structure:**

```
<!DOCTYPE html>
<html lang="en">
```

# **Basic HTML Tags**

Tag	Purpose
<h1> to <h6></h6></h1>	Headings (largest to smallest)
<	Paragraph
<a></a>	Anchor (links)
<img/>	Insert images
<ul> <li><ul> <li><li><li><li><li></li> </li></li></li></li></ul> </li></ul>	Lists (unordered, ordered)
<div></div>	Block container
<span></span>	Inline container
  < , <hr/>	Line break, horizontal line
<i>, <u>, <em>, <strong>, <b></b></strong></em></u></i>	Formatting tags

```
<h1>Hello, World!</h1>
This is my first web page.
<a href="https://www.google.com">Visit Google</a>
<img src="image.jpg" alt="Image" />
```

# Setup VS code

### Steps:

1. Download and install Visual Studio Code.

- 2. Install important extensions on VS Code:
  - Live Server: To see the updates using local host.
  - **Prettier**: It will format the code in better way.
- 3. Create a new folder for your project.
- 4. Open the folder in VS Code.
- 5. Create a file named index.html and let's start coding!

# Advanced HTML Tags: Forms, Tables, Semantic Elements

#### **Forms**

Used to collect user input.

```
<form action="/submit" method="POST">
  <label>Name:</label>
  <input type="text" name="username" />
  <input type="submit" value="Submit" />
  </form>
```

#### Common Form Elements:

- <input> for text, email, password, etc.
- <textarea> for multi-line text.
- <select> and <option> dropdown lists.

For more detail about Form input methods visit official mdn documentation.

#### **Tables**

Used to display tabular data.

```
Name
Age

Alice
```

## **Semantic Elements**

HTML5 introduced elements that clearly describe their meaning:

Tag	Purpose
<header></header>	Top section of a page
<footer></footer>	Bottom section of a page
<nav></nav>	Navigation links
<section></section>	Defines sections in a page
<article></article>	Independent, self-contained content
<aside></aside>	Content aside from the main content

## For Example:

```
<header>
<h1>My Website</h1>
</header>
<nav>
<a href="#home">Home</a>|
<a href="#about">About</a>
</nav>
<section id="home">
<h2>About Me</h2>
This is my story.
</section>
<footer id="about">
```

```
Copyright © 2025</footer>
```

# **Introduction to HTML5 Tags**

HTML5 brought many **new tags** for richer content and better structure.

New Tag	Purpose
<video></video>	Embeds video content
<audio></audio>	Embeds sound content
<canvas></canvas>	Draw graphics on the fly using JavaScript
<section> , <article> , <header> , <footer> , <aside></aside></footer></header></article></section>	Structure content semantically
<figure> and <figcaption></figcaption></figure>	For images with captions
<main></main>	Main content of the document

### **Video Tag Syntax:**

```
<video controls>
  <source src="video.mp4" type="video/mp4" />
    You can write anything
  </videAudio Tag Syntax:

<audio controls>
    <source src="audio.mp3" type="audio/mp3" />
    you can write anything
  </audio>
```

## **Image Tag Syntax:**

```
<img src="path/to/image.jpg" alt="Alternative Text">
```

# **Quick Tip:**

When working with **MERN Stack**, HTML is still very important because **React components** often generate HTML-like code (JSX).

Now, next step? —- CSS