HTML

# HTML (HyperText Markup Language)

HTML is the basic language used to design and structure websites. It tells the browser what to show and how.

HTML is the standard language used to create and design the structure of web pages. It uses a system of tags to define elements such as headings, paragraphs, links, images, tables, and more.

* HyperText means text that contains links to other web pages or sections.
* Markup Language means it uses tags to "mark" parts of content and describe their purpose or format.

HTML does not control the look (style) of a webpage — that is done with CSS (Cascading Style Sheets). HTML just builds the framework of the page.

# What is a Tag in HTML?

Tags are the building blocks of an HTML document. They tell the browser how to display content like text, images, links, etc.

Tags are special codes inside < > that help arrange content on a webpage.

**Types of Tags:**

1. **Paired Tags**

* Come in two parts — opening <tag> and closing </tag>
* Example:

<h1>Welcome</h1>

<p>This is a paragraph.</p>

1. **Unpaired (Self-Closing) Tags**

* Don't need a closing part
* Example:

<br> <!-- line break -->

<hr> <!-- horizontal line -->

<img src="image.jpg" alt="Image"> <!-- image -->

# Common Tags and Their Uses

|  |  |
| --- | --- |
| **Tag** | **Purpose** |
| <html> | Wraps the whole HTML document |
| <head> | Holds page info like title, scripts |
| <body> | Shows all visible content |
| <h1> | Adds a heading |
| <p> | Adds a paragraph |
| <br> | Adds a line break |
| <hr> | Adds a horizontal line |

# HTML Structure

An HTML document starts with <!DOCTYPE html> and includes:

* <html>, <head>, <title>, <body>

**Example Structure**

<!DOCTYPE html>

<html>

<head>

<title>Page Title</title>

</head>

<body>

<h1>Heading</h1>

<p>Text here</p>

</body>

</html>

# Explanation of Structure

- <!DOCTYPE html> – Says it’s an HTML5 document

- <html> – The root of the page

- <head> – Contains extra information (like title)

- <title> – Shows the name on the browser tab

- <body> – Contains everything that appears on the screen