

## HTML LEVEL 1

### 1. HTML (HyperText Markup Language)

HTML is the standard language for creating web pages. It defines the structure of a webpage using elements enclosed in tags.

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### 2. Normal Text in HTML

Normal text in HTML is written inside elements like `<p>`, `<h1>`, `<span>`, etc.

`<p>This is normal text inside a paragraph.</p>`

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### 3. HTML Elements

An HTML element consists of a start tag, content, and an end tag.

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

- ◆ Some elements are self-closing, like `<br>` and `<img>`.
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### 4. HTML Tags

Tags are enclosed in angle brackets (`<>`) and define elements.

`<b>Bold Text</b>`

- ◆ Most tags have an opening (`<tag>`) and closing (`</tag>`).
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### 5. Paragraph Element (`<p>`)

Defines a block of text.

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

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### 6. Heading Elements (`<h1>` to `<h6>`)

Used for headings; `<h1>` is the largest, `<h6>` is the smallest.

`<h1>Main Heading</h1>`

`<h2>Subheading</h2>`

## 7. HTML Boilerplate (Basic Structure of an HTML Page)

```
<!DOCTYPE html>
<html>
<head>
    <title>My Web Page</title>
</head>
<body>
    <h1>Hello, World!</h1>
</body>
</html>
```

---

## 8. List Elements in HTML

- Unordered List (`<ul>`): Bullet points.
- Ordered List (`<ol>`): Numbered list.

```
<ul>
    <li>Apple</li>
    <li>Banana</li>
</ul>
```

```
<ol>
    <li>Step 1</li>
    <li>Step 2</li>
</ol>
```

## 9. Ordered List (`<ol>`)

Ordered lists use numbers.

```
<ol>
    <li>First item</li>
    <li>Second item</li>
</ol>
```

## 10. HTML Attributes

Attributes provide additional information about an element.

`<a href="https://www.google.com">Visit Google</a>`

- ◆ Here, href is an attribute.
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## 11. Anchor Element (`<a>`)

Creates hyperlinks or used to add links to your page.

`<a href="https://www.example.com">Click Here</a>`

- ◆ The href attribute defines the URL.
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## 12. Image Element (`<img>`)

Embeds an image or used to add image to your page.

``

- ◆ src specifies the image file, alt provides alternative text.
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## 13. `<br>` Tag (Line Break)

Creates a line break (moves text to the next line).

`<p>First line<br>Second line</p>`

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## 14. Comments in HTML (`<!-- Comment -->`)

Used to add notes that won't be displayed.

`<!-- This is a comment -->`

`<p>Visible content</p>`

```
<!DOCTYPE html> <!-- Tells the browser this is an HTML5 document -->
<html lang="en"> <!-- The main container of the webpage -->
<head>
  <meta charset="UTF-8"> <!-- Supports different characters (like ₹, €, 😊) -->
  <meta name="viewport" content="width=device-width, initial-scale=1.0"> <!-- Makes
the page adjust to different screen sizes -->
  <title>My Web Page</title> <!-- The title shown on the browser tab -->
</head>
<body>
  <h1>Welcome to My Website</h1> <!-- A big heading -->
  <p>This is a simple webpage.</p> <!-- A paragraph -->
</body>
</html>
```

- **<!DOCTYPE html>** → Tells the browser we are using **HTML5**.
- **<html>** → The **main box** that holds everything on the webpage.
- **<head>** → The **hidden part** that contains information about the webpage.
- **<meta charset="UTF-8">** → Makes sure special characters (₹, €, emojis) work.
- **<meta name="viewport" content="width=device-width, initial-scale=1.0">** → Helps the page look good on phones, tablets, and computers.
- **<title>** → Sets the **name of the page** seen on the browser tab.
- **<body>** → The **visible part** of the webpage where text, images, and buttons go.
- **<h1>** → A **big title** on the page.
- **<p>** → A **paragraph** for normal text.

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## **HTML hr Tag and Entities:**

`<hr>` Tag → Adds a horizontal line to separate sections in a webpage.

Think of it as a divider.

**Example:** "Content above `<hr>` Content below"

**HTML Entities** → Used to show special characters that HTML normally treats as code. Think of them as shortcodes for symbols.

**Example:** `&lt;` (displays `<` instead of running code)

`&lt;` <!-- Less than symbol -->

`&gt;` <!-- Greater than symbol -->

`&amp;` <!-- Ampersand symbol -->

`&copy;` <!-- Copyright symbol -->