

## Introduction to HTML

HTML (HyperText Markup Language) is the standard language used to create web pages. It consists of various elements (tags) that define the structure of a webpage, such as headings, paragraphs, links, images, and more.

### Basic HTML Tags Used Frequently

#### 1. `<!DOCTYPE html>`

- Declares the document type and version of HTML.
- Example: `<!DOCTYPE html>`

#### 2. `<html>`

- The root element of an HTML document.
- Example:

```
<html>
</html>
```

#### 3. `<head>`

- Contains metadata (like title, links to CSS, and scripts).
- Example:

```
<head>
  <title>My Web Page</title>
</head>
```

#### 4. `<title>`

- Defines the title of the webpage (shown in the browser tab).
- Example:

```
<title>Welcome to My Website</title>
```

#### 5. `<body>`

- Contains the main content of the webpage.
- Example:

```
<body>
  <p>Hello, World!</p>
</body>
```

6. **<h1> to <h6>**

- Defines headings, where **<h1>** is the largest and **<h6>** is the smallest.
- Example:

```
<h1>Main Heading</h1>  
<h2>Subheading</h2>
```

7. **<p>**

- Defines a paragraph.
- Example:

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

8. **<a>**

- Creates hyperlinks.
- Example:

```
<a href="https://www.example.com">Visit Example</a>
```

9. **<img>**

- Displays an image.
- Example:

```

```

10. **<ul> & <li>**

- Creates an unordered (bulleted) list.
- Example:

```
<ul>  
  <li>Item 1</li>  
  <li>Item 2</li>  
</ul>
```

11. **<ol> & <li>**

- Creates an ordered (numbered) list.

- Example:

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

## 12. **<table>** & related tags

- Defines a table with rows and columns.
- Example:

```
<table border="1">
  <tr>
    <th>Name</th>
    <th>Age</th>
  </tr>
  <tr>
    <td>John</td>
    <td>25</td>
  </tr>
</table>
```

## 13. **<div>**

- A container used for structuring and styling content.
- Example:

```
<div style="background-color: lightgray;">
  <p>This is inside a div.</p>
</div>
```

## 14. **<span>**

- Used for styling inline text.
- Example:

```
<p>This is <span style="color: red;">red text</span>.</p>
```