

# Important HTML Tags

**BASIC STRUCTURE TAGS:** These appear in almost every HTML file.

**Code:**

```
<!DOCTYPE html>    <!-- Defines HTML5 document -->
<html lang="en">    <!-- Root of the webpage -->
<head>              <!-- Metadata (not visible) -->
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>    <!-- Page title -->
</head>
<body>              <!-- Visible content -->
</body>
</html>
```

**<!DOCTYPE>:** Defines HTML5 document

**<html>:** Root of the webpage

**<head>:** Metadata (not visible)

**<title>:** Page title

**<body>:** Visible content

**TEXT & CONTENT TAGS:** These tags are used to **display text, structure content, and format text** on a webpage.

- **<h1> to <h6> — Heading Tags:** Heading tags define titles and subtitles.  
<h1> is the most important heading, <h6> is the least.  
Example: `<h1>Main Website Title</h1>`
- **<p> — Paragraph Tag:** Used to define a **paragraph of text**.  
Example: `<p>This is a paragraph explaining our services. </p>`
- **<br> — Line Break Tag:** Creates a **new line** without starting a new paragraph.  
Example: `<p>Hello<br>Welcome to my website</p>`
- **<hr> — Horizontal Rule:** Creates a **horizontal line** to separate content.  
Example: `<hr>`
- **<div> — Division Tag:** A **block-level container** used to group elements.  
Example: `<div class="card">`  
`<h2>Product</h2>`  
`<p>Description</p>`  
`</div>`
- **<span> — Inline Container:** An **inline container** used for styling small parts of text.  
Example: `<p>Price: <span class="price">$100</span></p>`
- **<strong> — Important Text:** Indicates **important text** (semantic meaning).  
Example: `<p><strong>Warning:</strong> Do not share your password.</p>`
- **<b> — Bold Text:** Makes text **bold**, without semantic importance.  
Example: `<p>This is <b>bold</b> text.</p>`
- **<em> — Emphasized Text:** Adds **emphasis** to text (semantic).  
Example: `<p>This is <em>very important</em>.</p>`
- **<i> — Italic Text:** Displays text in **italic style** (no importance).  
Example: `<p>This is <i>italic</i> text.</p>`
- **<mark> — Highlight Text:** Highlights text with a **yellow background**.  
Example: `<p>Please read the <mark>important notice</mark>.</p>`
- **<small> — Smaller Text:** Displays text in **smaller size**.  
Example: `<p>Copyright <small>© 2026</small></p>`

- **<sub> — Subscript:** Displays text **below normal line**.

Example: `<p>H<sub>2</sub>O</p>`

- **<sup> — Superscript:** Displays text **above normal line**.

Example: `<p>10<sup>2</sup></p>`

## LINKS & MEDIA TAGS: Essential for navigation and visuals.

- **<a> — Anchor Tag (Link):** The <a> tag is used to **create hyperlinks** that navigate to another page, website, file, or section.

**Example:** <a href="https://www.google.com">Go to Google</a>

### Common attributes:

- <a href="about.html">About</a>
- <a href="about.html" target="\_blank">New Tab</a>
- <a href="path/to/your/file.pdf" download>Download PDF</a>
- <a href="#section1">Jump to section</a>
- <a href="mailto:test@gmail.com">Send Email</a>
- <a href="tel:+911234567890">Call</a>

- **<img> — Image Tag:** The <img> tag is used to **display images** on a webpage.

**Example:** 

### Common attributes:

- Src: Image path
- Alt: Text if Image Fails
- Width/Height: Image Size

- **<audio> — Audio Tag:** Used to **embed audio files** (music, voice, sounds)

**Example:** <audio controls>

<source src="song.mp3" type="audio/mpeg">

</audio>

### Common attributes:

- controls
- autoplay
- loop
- muted

- **<video> — Video Tag:** Used to **embed videos** on a webpage.

**Example:** <video controls width="400">

<source src="video.mp4" type="video/mp4">

</video>

### Common attributes:

- controls
- autoplay
- loop
- poster
- muted

- **<source> — Media Source Tag:** Specifies **multiple media formats** for <audio> and <video>.

**Example:** <video controls>

```
<source src="video.mp4" type="video/mp4">
<source src="video.webm" type="video/webm">
</video>
```

- **<iframe> — Inline Frame:** Used to **embed another webpage** inside the current page.

**Example:** <iframe src="https://www.youtube.com/embed/VIDEO\_ID">  
</iframe>

- **<picture> — Responsive Images:** Allows **different images for different screen sizes**.

**Example:** <picture>

```
<source media="(max-width: 600px)" srcset="small.jpg">



</picture>
```

- **<track> — Subtitle / Caption:** Adds **subtitles or captions** to videos.

**Example:** <video controls>

```
<source src="movie.mp4">
<track src="subtitles.vtt" kind="subtitles" srclang="en">
</video>
```

**HTML LIST TAGS:** HTML lists are used to **group related items** together in an organized way.

There are **3 main types of lists**:

1. Unordered List
2. Ordered List
3. Description List

- **<ul> — Unordered List:** The <ul> tag creates a **list of items with bullets** (no specific order).

**Example:** <ul>

```
<li>Home</li>
<li>About</li>
<li>Contact</li>
</ul>
```

**Attributes:**

- <ul type="disc">...</ul>
- <ul type="square">...</ul>
- <ul type="circle">...</ul>

- **<ol> — Ordered List:** The <ol> tag creates a **numbered list** (order matters).

**Example:** <ol>

```
<li>Turn on computer</li>
<li>Open browser</li>
<li>Visit website</li>
</ol>
```

**Attributes:**

- <ol type="A"> <!-- A, B, C -->
- <ol type="i"> <!-- i, ii, iii -->
- <ol start="5"> <!-- starts from 5 -->

- **<dl> — Description List:** The <dl> tag creates a **list of terms with descriptions**.

- <dt> — Description Term
- <dd> — Description Details

**Example:** <dl>

```
<dt>HTML</dt>
```

```
<dd>Markup language for web pages</dd>
```

```
<dt>CSS</dt>
```

```
<dd>Styles the web pages</dd>
```

```
</dl>
```

**HTML TABLE TAGS:** HTML tables are used to **display data in rows and columns** (like Excel)

- **<table> — Table Tag:** The <table> tag is the **container** for the entire table.

Example: <table>  
          </table>

- **<tr> — Table Row:** The <tr> tag defines **one row** in a table.

Example: <tr>  
          <td>John</td>  
          <td>20</td>  
          </tr>

- **<th> — Table Header Cell:** The <th> tag defines a **header cell** (bold + centered by default).

Example: <tr>  
          <th>Name</th>  
          <th>Age</th>  
          </tr>

- **<td> — Table Data Cell:** The <td> tag defines a **normal data cell**.

Example: <tr>  
          <td>John</td>  
          <td>20</td>  
          </tr>

- **<thead> — Table Head:** The <thead> tag groups **header rows**.

Example: <thead>  
          <tr>  
              <th>Name</th>  
              <th>Age</th>  
          </tr>  
          </thead>

- **<tbody> — Table Body:** The <tbody> tag groups the **main content rows**.

Example: <tbody>  
          <tr>



```
<td>John</td>
<td>20</td>
</tr>
</tbody>
```

- **<tfoot> — Table Footer:** The <tfoot> tag groups **summary/footer** rows.

**Example:** <tfoot>

```
<tr>
    <td>Total Students: 50</td>
</tr>
</tfoot>
```

- **<caption> — Table Caption:** The <caption> tag gives a **title** to the table.

**Example:** <table>

```
<caption>Student Details</caption>
</table>
```

## Complete Table Example

```
<table border="1">
    <caption>Student Marks</caption>
    <thead>
        <tr>
            <th>Name</th>
            <th>Marks</th>
        </tr>
    </thead>
    <tbody>
        <tr>
            <td>Alice</td>
            <td>85</td>
```

```

        </tr>

        <tr>

            <td>Bob</td>

            <td>90</td>

        </tr>

    </tbody>

    <tfoot>

        <tr>

            <td colspan="2">Total Students: 2</td>

        </tr>

    </tfoot>

</table>

```

**IMPORTANT HTML TABLE ATTRIBUTES:** These attributes are mainly used with `<table>`, `<th>`, and `<td>` tags to control layout and meaning.

- **border Attribute:** Adds a **border around the table and its cells**.

**Example:** `<table border="1">`

- **colspan Attribute:** Used to **merge multiple columns into one cell**.

**Example:** `<td colspan="2">Total Marks</td>`

**Full Example:** `<tr>`

```

        <td colspan="2">Total Students: 50</td>

```

```

    </tr>

```

- **rowspan Attribute:** Used to **merge multiple rows into one cell**.

**Example:** `<td rowspan="2">Frontend</td>`

**Full Example:** `<tr>`

```

        <td rowspan="2">Frontend</td>

```

```

        <td>HTML</td>

```

```

    </tr>

```

```

    <tr>

```

```

        <td>CSS</td>

```

</tr>

- **width & height (Basic Control):** Controls cell or table size.

**Example:** <table width="400">

    <td width="200">Data</td>

- **align Attribute:** Aligns text horizontally.

**Example:** <td align="center">50</td>

**HTML FORM & INPUT TAGS:** Forms are used to **collect user data** (login, signup, contact, search, payments).

- **<form> — Form Tag:** The <form> tag is a **container** used to collect and send user input to a server.

**Example:** `<form action="submit.php" method="post">`  
`<input type="text">`  
`</form>`

**Important Attributes:**

- **Action:** Where data is sent
- **Method:** GET or POST
- **Autocomplete:** Auto fill
- **Novalidate:** Disable validation

- **<input> — Input Tag:** The <input> tag is used to **take user data**.

**Example:** `<input type="">`

**COMMON INPUT TYPES**

- **type="text":** Single-line text input.
  - `<input type="text" placeholder="Enter name">`
- **type="email":** Accepts **email format only**.
  - `<input type="email">`
- **type="password":** Hides typed characters.
  - `<input type="password">`
- **type="number":** Accepts only numbers.
  - `<input type="number">`
- **type="checkbox":** Allows **multiple selections**.
  - `<input type="checkbox">` HTML
- **type="radio":** Allows **only one selection** (same name).
  - `<input type="radio" name="gender">` Male
  - `<input type="radio" name="gender">` Female
- **type="submit":** Submits the form.
  - `<input type="submit" value="Submit">`
- **type="reset":** Clears all input fields.
  - `<input type="reset">`

- **type="file":** Uploads files.
  - `<input type="file">`
- **<label> — Label Tag:** Connects **text description** to an input field.
 

**Example:** `<label for="username">Username</label>`  
`<input id="username" type="text">`
- **<textarea> — Multi-line Input:** Used for **long text input**.
 

**Example:** `<textarea rows="4" cols="30"></textarea>`
- **<button> — Button Tag:** Creates a **clickable button**.
 

**Example:** `<button type="submit">Send</button>`
- **<select> — Dropdown Menu:** Creates a **dropdown list**

**Example:** `<select>`  
`<option>Delhi</option>`  
`<option>Mumbai</option>`  
`</select>`
- **<option> — Dropdown Item:** Defines **items inside <select>**.
 

**Example:** `<option value="in">India</option>`
- **<fieldset> — Group Inputs:** Groups related form elements.
 

**Example:** `<fieldset>`  
`<legend>Personal Info</legend>`  
`</fieldset>`
- **<legend> — Fieldset Title:** Gives a **title** to `<fieldset>`.
 

**Example:** `<legend>Login</legend>`