

# Important HTML Tags

**Semantic HTML Tags:** Semantic HTML tags clearly describe their meaning to the browser, search engines, and screen readers.

**Non-semantic:** <div>, <span>

**Semantic:** <header>, <nav>, <main>, <article>, etc.

- **<header> — Header Tag:** Represents the **top section** of a page or section.

**Example:** <header>

```
<h1>My Website</h1>
<p>Welcome to my site</p>
</header>
```

- **<nav> — Navigation Tag:** Contains **navigation links**.

**Example:** <nav>

```
<a href="#">Home</a>
<a href="#">About</a>
</nav>
```

- **<main> — Main Content Tag:** Holds the **main content** of the webpage.

**Example:** <main>

```
<h2>Blog Posts</h2>
</main>
```

- **<section> — Section Tag:** Groups **related content** together.

**Example:** <section>

```
<h2>Services</h2>
<p>We provide webdesign.</p>
</section>
```

- **<article> — Article Tag:** Represents **independent, reusable content**.

**Example:** <article>

```
<h2>Blog Post</h2>
<p>This is a blog article. </p>
</article>
```

- **<aside> — Aside Tag:** Contains **side content** related to main content.

**Example:** <aside>

```
<h3>Related Posts</h3>
```

- ```
</aside>
```
- **<footer> — Footer Tag:** Represents the **bottom section** of a page or section.  
**Example:** <footer>

```
<p>© 2026 My Website</p>
</footer>
```
  - **<figure> — Figure Tag:** Used to wrap **media content** (image, chart, code).  
**Example:** <figure>

```

<figcaption>Profile Photo</figcaption>
</figure>
```
  - **<figcaption> — Figure Caption:** Provides a **caption for <figure>**  
**Example:** <figcaption>This is an image caption</figcaption>
  - **<address> — Address Tag:** Contains **author or contact information**.  
**Example:** <address>

```
Written by John<br>
Email: john@email.com
</address>
```

**META & RESOURCE TAGS:** These tags live inside the **<head>** section and are **CRITICAL for SEO, performance, and browser behavior**.

- **<meta> — Metadata Tag:** The <meta> tag provides **information about the webpage** to browsers and search engines.
- Common & IMPORTANT <meta> Types:**
- **Charset Meta:** <meta charset="UTF-8">
  - **Viewport Meta:** <meta name="viewport" content="width=device-width, initial-scale=1.0">
  - **Description Meta:** <meta name="description" content="Best web development course">
  - **Author Meta:** <meta name="author" content="Sarfarosh Alam">
- **<title> — Page Title Tag:** Defines the **title of the webpage** shown in the browser tab and search results.

- <title>My Portfolio</title>
- <link> — **External Resource Link:** Used to **connect external files** like CSS, icons, font
  - **Example (CSS):** <link rel="stylesheet" href="style.css">
  - **Other Uses:** <link rel="icon" href="favicon.ico">  
                   <link rel="preconnect" href="https://fonts.googleapis.com">
- <style> — **Internal CSS:** Used to write **CSS directly inside HTML.**
  - <style>
 

```
body {
    background-color: lightblue;
}
```

</style>
- <script> — **JavaScript Tag:** Used to **add JavaScript** to a webpage
  - **External JS:** <script src="app.js"></script>
  - **Internal JS:**    <script>
 

```
alert("Hello");
```

</script>
- <base> — **Base URL Tag:** Defines a **base URL** for all relative links on a page.
  - <base href="https://example.com/">

#### **Complete HEAD Example:**

```
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-
    scale=1.0">
    <meta name="description" content="Learning HTML">
    <title>HTML Basics</title>

    <link rel="stylesheet" href="style.css">
    <link rel="icon" href="favicon.ico">

    <style>
        body { font-family: Arial; }
    </style>

    <script src="app.js" defer></script>
</head>
```

## **HTML INTERACTIVE & MISC TAGS:**

These tags are used to **add interaction, user feedback, and UI behavior** to modern websites.

- **<details> — Expandable Content Container:** The `<details>` tag creates a **collapsible section** that users can open or close.
  - `<details>`  
    `<summary>More Info</summary>`  
    `<p>This content is hidden by default.</p>`  
    `</details>`
- **<summary> — Title for <details>:** The `<summary>` tag provides the **clickable heading** for `<details>`.
  - `<summary>Read More</summary>`
- **<dialog> — Dialog / Modal Box:** The `<dialog>` tag is used to create **popup dialogs or modal windows**.
  - `<dialog id="box">`  
    `<p>Are you sure?</p>`  
    `<button onclick="box.close()">Close</button>`  
    `</dialog>`  
    `<button onclick="box.showModal()">Open Dialog</button>`
- **<progress> — Progress Bar:** The `<progress>` tag shows **task completion progress**.
  - `<progress value="60" max="100"></progress>`
- **<meter> — Measurement Indicator:** The `<meter>` tag represents a **scalar measurement within a known range**.
  - `<meter value="7" min="0" max="10"></meter>`
- **<template> — Hidden Reusable Content:** The `<template>` tag holds **HTML content that is not rendered** until used via JavaScript.
  - `<template id="card">`  
    `<div class="card">`  
    `<h3>Title</h3>`  
    `<p>Description</p>`  
    `</div>`  
    `</template>`

- **<noscript> — JavaScript Disabled Message:** The <noscript> tag displays content **only if JavaScript is disabled.**
  - <noscript>
  - Please enable JavaScript to view this site.
  - </noscript>
- **<output> — Calculation Result:** The <output> tag displays the **result of a calculation.**
  - <form oninput="result.value = Number(a.value) + Number(b.value)">
   
    <input type="number" id="a">
   
    +
   
    <input type="number" id="b">
   
    =
   
    <output name="result"></output>
   
  </form>

## **GLOBAL ATTRIBUTES:** Global attributes are attributes that work on **all HTML elements**

- **id — Unique Identifier:** The id attribute gives an element a **unique name.**  
No two elements should have the **same id.**
  - <h1 id="mainTitle">Welcome</h1>
- **class — Group Identifier:** The class attribute groups **multiple elements** under the same name.
  - <div class="card">Product 1</div>
   
        <div class="card">Product 2</div>
- **style — Inline CSS:** The style attribute applies **CSS directly** to an element.
  - <p style="color:red; font-size:18px;">Hello</p>
- **title — Tooltip Text:** The title attribute shows **extra information** when the user hovers.
  - <button title="Click to submit">Submit</button>
- **hidden — Hide Element:** The hidden attribute **hides an element** from the page.
  - <p hidden>This text is hidden</p>
- **contenteditable — Editable Content:** Allows the user to **edit content directly on the page.**
  - <p contenteditable="true">Edit me</p>

- **draggable — Drag & Drop:** Makes an element **draggable**.
  - 
- **spellcheck — Spell Checking:** Enables or disables **spell checking**.
  - <textarea spellcheck="true"></textarea>
- **lang — Language Declaration:** Specifies the **language of the content**.
  - <html lang="en">  
    <p lang="hi">নমস্তে</p>
- **tabindex — Keyboard Navigation:** Controls **keyboard tab order**.
  - <input tabindex="1">  
    <input tabindex="2">
- **data-\* — Custom Data Attributes:** Stores **custom data** inside HTML elements
  - <button data-id="101">Buy</button>