

Important HTML Tags

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

Non-semantic: <div>,

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

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">नमस्ते</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>`