

HTML (Hyper Text Markup Language)

The most commonly used markup language for creating and organizing web information is HTML (Hyper Text Markup Language). It serves as the foundation of almost all websites, offering a means of structuring multimedia components, embedding images, organizing text, and creating links. HTML annotates text so that internet browsers understand how to present it; it is a language for formatting rather than a programming language. Developers may define headings, paragraphs, lists, tables, forms, and more with HTML. HTML tags, which are surrounded in angle brackets and frequently come in pairings (tag opening and ending tags), are used to mark up every single element of a webpage.

Roles Of HTML:

The structure and layout of website content is primarily determined by HTML. HTML consists of the component like text, image, video, links, etc. Developers can create web pages in HTML that are understood and rendered by browser. HTML gives things meaning, context, making easier to read, and more user friendly. I combine with CSS to give style in framework and with JavaScript for real-time output.

Structure:

A screenshot of a code editor with a dark theme. The editor has two tabs at the top: 'Welcome' and 'Example.html'. The 'Example.html' tab is active, showing a basic HTML document structure. The code is as follows:

```
1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>Document</title>
7   </head>
8   <body>
9
10  </body>
11 </html>
```

Tags of HTML:

HTML tags are used to mark the beginning and end of HTML elements. The tags are always enclosed in angular brackets. For example, tags for paragraph is `<p>`. Many tags in HTML comes with the pair, like `<p>...</p>`, `<div>...</div>`. Some tags like `
` and `` are self-opening and self-closing tag. It is the useful component in developing the structure of content in HTML webpage.

Tag	Meaning
<code><html></code>	Main root of document
<code><head></code>	Carry metadata like title, scripts
<code><title></code>	Save as title for page
<code><body></code>	Contain all user facing contents
<code><h1></code> to <code><h6></code>	Heading text
<code><p></code>	Paragraph text
<code><a></code>	Create a hyperlink
<code></code>	Attach a image
<code><div></code>	Make division abd layout content
<code></code>	Style inline text
<code></code>	Create a bullet
<code></code>	Create ordered list
<code></code>	List item
<code><form></code>	Define form for interaction
<code><input></code>	Provide space to user to input

Elements in HTML:

An HTML elements are the pair form of HTML tags which have opening tags and closing tags, Like (`...`, `<div>...</div>`, `<section>...</section>`). Elements can be mixed up with other elements to make big blocks level structure. Like `<div>`, `<section>` are mixed up with ``to make big block of code. The importance is on how the elements are mixed up to make a clean code.

Elements	Description
<code><html>...</html></code>	Main root of document
<code><head>...</head></code>	Carry metadata like title, scripts
<code><title>...</title></code>	Save as title for page
<code><body>...</body></code>	Contain all user facing contents
<code><h1>...</h6></code>	Heading text
<code><p>...</p></code>	Paragraph text

<a>...	Create a hyperlink
<div>...</div>	Make division abd layout content
...	Style inline text
...	Create a bullet
...	Create ordered list
...	List item
<form>...</form>	Define form for interaction
<input>...</input>	Provide space to user to input

Example of HTML Code:

```

Welcome  Example.html X
Example.html > html > head
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <title>MyShop - Home</title>
6  </head>
7  <body>
8      <header>
9          <h1>Welcome to MyShop</h1>
10         <nav>
11             <ul>
12                 <li><a href="index.html">Home</a></li>
13                 <li><a href="products.html">Products</a></li>
14                 <li><a href="about.html">About Us</a></li>
15                 <li><a href="contact.html">Contact</a></li>
16                 <li><a href="cart.html">Cart</a></li>
17             </ul>
18         </nav>
19     </header>
20
21     <main>
22         <section>
23             <h2>Featured Products</h2>
24             <article>
25                 <h3>Product 1</h3>
26                 
27                 <p>Description of product 1.</p>
28                 <p>Price: $20</p>
29                 <button>Add to Cart</button>
30             </article>
31             <article>
32                 <h3>Product 2</h3>
33                 
34                 <p>Description of product 2.</p>
35                 <p>Price: $35</p>
36                 <button>Add to Cart</button>
37             </article>
38         </section>
39     </main>
40
41     <footer>
42         <p>&copy; 2025 MyShop. All rights reserved.</p>
43     </footer>
44 </body>
45 </html>
46

```

Output of code:

127.0.0.1:5500/Example.html

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Incognito

Welcome to MyShop

• [Home](#)

• [Products](#)


• [About Us](#)

• [Contact](#)

• [Cart](#)

Featured Products

Product 1



UMBRELLA SQUARE

Description of product 1.

Price: \$20

Add to Cart

127.0.0.1:5500/Example.html

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UMBRELLA SQUARE

Description of product 1.

Price: \$20

Add to Cart

Product 2



Description of product 2.

Price: \$35

Add to Cart

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