**HTML**

HTML, or HyperText Markup Language, is the vernacular used to markup the structure of a webpage. It is the basis of all webpages by noting the structural areas, whether text, images, links or other content, and how it should be displayed in a browser. Although HTML is a standard language, it is not a programming language; rather, it is a markup language. Markup meaning to "markup" content by using a series of tags. Each and every website you see on the internet, although in the form of a computer file, lives on a webpage incorporating HTML.

Roles of HTML

HTML's primary role is to create the framework for webpages, so that the content (text, images, links, etc.) can be identified and structured in a meaningful way. HTML offers browsers the ability to know which (content) parts of the page mark up something, be it a heading, paragraph, image or link. HTML, through its many semantic tags, is also important to accessibility and SEO (Search Engine Optimization), as it gives meaning to the content within the structure. In a way, you could think of the HTML as the skeleton of a website.

Tags:

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| --- | --- |
| **Tag** | **Description** |
| <!DOCTYPE html> | Defines the HTML version being used. |
| <html> | Root of an HTML document. |
| <head> | Contains meta info, title, and links. |
| <title> | Defines the title of the page (appears in browser tab). |
| <body> | Holds all visible page content. |
| <h1> – <h6> | Defines headings from largest to smallest. |
| <p> | Defines a paragraph. |
| <a> | Creates a hyperlink. |
| <img> | Embeds an image. |
| <br> | Inserts a line break. |
| <ul> | Creates an unordered (bulleted) list. |
| <ol> | Creates an ordered (numbered) list. |
| <li> | Defines a list item. |
| <table> | Creates a table. |
| <form> | Defines a form for user input. |

Element:

|  |  |
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| **Element** | **Description** |
| <h1>Heading</h1> | A level 1 heading element. |
| <h2>Subheading</h2> | A level 2 heading element. |
| <p>This is a paragraph.</p> | A paragraph element. |
| <a href="https://example.com">Click here</a> | A link element. |
| <img src="image.jpg" alt="Example"> | An image element. |
| <br> | A line break element (empty). |
| <ul><li>Item</li></ul> | An unordered list with list items. |
| <ol><li>First</li></ol> | An ordered list with list items. |
| <table><tr><td>Data</td></tr></table> | A table with rows and cells. |
| <input type="text"> | A text input element. |
| <button>Submit</button> | A button element. |
| <textarea>Write here</textarea> | A multi-line text box element. |
| <select><option>Option 1</option></select> | A dropdown select element. |
| <header>Site Header</header> | A semantic header element. |
| <footer>Site Footer</footer> | A semantic footer element. |

Example:

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

Output:

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.