HTML

HTML stands for **H**yper **T**ext **M**arkup **L**anguage

HTML is the **standard markup** language for Web pages

HTML **elements** are the building blocks of HTML pages

HTML elements are represented by **<> tags**

**HTML Elements**

An HTML element is a **start** tag and an **end** tag with content in between:

<h1>This is a Heading</h1>

|  |  |  |
| --- | --- | --- |
| **Start tag** | **Element content** | **End tag** |
| <h1> | This is a Heading | </h1> |
| <p> | This is paragraph. | </p> |

**HTML Attributes**

* HTML elements can have **attributes**
* Attributes provide **additional information** about the element
* Attributes come in name/value pairs like **charset="utf-8"**

**A Simple HTML Document**

<!DOCTYPE html>  
<html lang="en">  
  
<meta charset="utf-8">  
<title>Page Title</title>  
  
<body>  
   <h1>This is a Heading</h1>  
   <p>This is a paragraph.</p>  
   <p>This is another paragraph.</p>  
</body>  
  
</html>

**Example Explained**

HTML elements are the building blocks of HTML pages.

* The <!DOCTYPE html> declaration defines this document to be HTML5
* The <html> element is the root element of an HTML page
* The lang attribute  defines the language of the document
* The <meta> element contains meta information about the document
* The charset attribute defines the character set used in the document
* The <title> element specifies a title for the document
* The <body> element contains the visible page content
* The <h1> element defines a large heading
* The <p> element defines a paragraph

**HTML Documents**

All HTML documents must start with a document type declaration: <!DOCTYPE html>.

The HTML document itself begins with <html> and ends with </html>.

The visible part of the HTML document is between <body> and </body>.

**HTML Document Structure**

Below is a visualization of an HTML document (an HTML Page):

<html>

<head>

<title>Page title</title>

</head>

<body>

<h1>This is a heading</h1>

<p>This is a paragraph.</p>

<p>This is another paragraph.</p>

</body>

</html>

**Note:** Only the content inside the <body> section (the white area above) is displayed in a browser.

**HTML Headings**

HTML headings are defined with <h1> to <h6> tags.

<h1> defines the most important heading. <h6> defines the least important heading:

**Example**

<h1>This is heading 1</h1>  
<h2>This is heading 2</h2>  
<h3>This is heading 3</h3>

**HTML Paragraphs**

HTML paragraphs are defined with <p> tags:

**Example**

<p>This is a paragraph.</p>  
<p>This is another paragraph.</p>

**HTML Links**

HTML links are defined with <a> tags:

**Example**

<a href="https://www.w3schools.com">This is a link</a>

The link's destination is specified in the href attribute.

**HTML Images**

HTML images are defined with <img> tags.

The source file (src), alternative text (alt), width, and height are provided as attributes:

**Example**

<img src="img\_w3schools.jpg" alt="W3Schools" style="width:120px;height:150px"

**HTML Buttons**

HTML buttons are defined with <button> tags:

**Example**

<button>Click me</button>

**HTML Lists**

HTML lists are defined with <ul> (unordered/bullet list) or <ol> (ordered/numbered list) tags, followed by <li> tags (list items):

**Example**

<ul>  
  <li>Coffee</li>  
  <li>Tea</li>  
  <li>Milk</li>  
</ul>

**HTML Tables**

An HTML table is defined with a <table> tag.

Table rows are defined with <tr> tags.

Table headers are defined with <th> tags. (bold and centered by default).

Table cells (data) are defined with <td> tags.

**Example**

<table>  
  <tr>  
    <th>Firstname</th>  
    <th>Lastname</th>   
    <th>Age</th>  
  </tr>  
  <tr>  
    <td>Jill</td>  
    <td>Smith</td>   
    <td>50</td>  
  </tr>  
  <tr>  
    <td>Eve</td>  
    <td>Jackson</td>   
    <td>94</td>  
  </tr>  
</table>

**Programming HTML**

Every HTML element can have **attributes**.

For web development and programming, the most important attributes are **id** and **class.** These attributes are often used to address program based web page manipulations.

|  |  |
| --- | --- |
| **Attribute** | **Example** |
| id | <table **id**="table01" |
| class | <p **class**="normal"> |
| style | <p **style**="font-size:16px"> |
| data- | <div **data**-id="500"> |
| onclick | <input **onclick**="myFunction()"> |
| onmouseover | <a **onmouseover**="this.setAttribute('style','color:red')"> |

**Full HTML Tutorial**

This has been a short description of HTML.

For a full HTML tutorial go to [W3Schools HTML Tutorial](https://www.w3schools.com/html/default.asp).

For a full HTML tag reference go to [W3Schools Tag Reference](https://www.w3schools.com/tags/default.asp).

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