**HTML**

* HTML stands for **Hyper Text Markup Language**. which is used for creating web pages and web applications.
* **Hyper Text:** HyperText simply means "Text within Text." A text has a link within it, is a hypertext.
* **Markup language:** A markup language is a computer language that is used to apply layout and formatting conventions to a text document.
* It is a very **easy and simple language**. It can be easily understood and modified.
* It facilitates programmers to add a **link** on the web pages (by html anchor tag), so it enhances the interest of browsing of the user.
* It facilitates the programmer to add **Graphics, Videos, and Sound** to the web pages which makes it more attractive and interactive.
* HTML is a case-insensitive language, which means we can use tags either in lower-case or upper-case.

**Example of HTML.**

<!DOCTYPE**>**

**<html>**

**<head>**

**<title>**Web page title**</title>**

**</head>**

**<body>**

**<h1>**Write Your First Heading**</h1>**

**<p>**Write Your First Paragraph.**</p>**

**</body>**

**</html>**

Output:

Graphical user interface, application, Word

Description automatically generated

## Description of HTML Example

## ****<!DOCTYPE>:**** It defines the document type or it instruct the browser about the version of HTML.

## ****<html >**** :This tag informs the browser that it is an HTML document. It is a container for all other elements of HTML except <!DOCTYPE>

## ****<head>:**** It should be the first element inside the <html> element.

## ****<title>:**** As its name suggested, it is used to add title of that HTML page which appears at the top of the browser window.

**<body>**: Text between body tag describes the body content of the page that is visible to the end user. This tag contains the main content of the HTML document.

**<h1>** : Text between <h1> tag describes the first level heading of the webpage.

**<p>**: Text between <p> tag describes the paragraph of the webpage.

**Basic html tags**

* Heading tag : HTML headings are defined with the <h1> to <h6> tags.

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

Example:

<h1>This is heading 1</h1>

* Paragraphs: HTML paragraphs are defined with the <p> tag.

Example:

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

* Links : HTML links are defined with the <a> tag.

Example:

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

* Images : HTML images are defined with the <img> tag.

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

Example:<img src="w3schools.jpg" alt="W3Schools.com" width="104" height="142">

**LIST, FORMS AND TABLES**

* **Lists**

1)Unordered list

An unordered list starts with the <ul> tag. Each list item starts with the <li> tag.

2)ordered list

An ordered list starts with the <ol> tag. Each list item starts with the <li> tag.

* **Forms**

An HTML form is used to collect user input. The user input is most often sent to a server for processing.

<form>  
.  
*form elements*  
.  
</form>

The <form> element is a container for different types of input elements, such as: text fields, checkboxes, radio buttons, submit buttons, etc.

FORM ELEMENTS :

The <input> element :

|  |  |
| --- | --- |
| **Type** | **Description** |
| <input type="text"> | Displays a single-line text input field |
| <input type="radio"> | Displays a radio button (for selecting one of many choices) |
| <input type="checkbox"> | Displays a checkbox (for selecting zero or more of many choices) |
| <input type="submit"> | Displays a submit button (for submitting the form) |
| <input type="button"> | Displays a clickable button |
|  |  |

Text field area :

The <input type="text"> defines a single-line input field for text input.

Radio button : The <input type="radio"> defines a radio button.

Radio buttons let a user select ONE of a limited number of choices.

Checkboxes : The <input type="checkbox"> defines a **checkbox**.

Checkboxes let a user select ZERO or MORE options of a limited number of choices.

The submit button : The <input type="submit"> defines a button for submitting the form data to a form-handler.

* **Tables :** A table in HTML consists of table cells inside rows and columns.

Each table cell is defined by a <td> and a </td> tag.

( td=table data )

Each table row starts with a <tr> and ends with a </tr> tag.

(tr=table row )

Sometimes you want your cells to be table header cells. In those cases use the <th> tag instead of the <td> tag.

(th= table header)

Example of a list, form and tables :

Code:

Graphical user interface, text, application, Word

Description automatically generated Text

Description automatically generated

Text, application

Description automatically generated

Output:

Graphical user interface, text, application, Word, email

Description automatically generated