* HTML : Hyper Text Markup Language
* HTML is the code that is used to structure a web page and it’s content.
* The component used to design the structure of websites are called HTML tags.

**First HTML File**

* Index.html :- It is the default name for a website’s homepage.

**HTML Tag**

* A container for some content or other HTML tag.

<p> This is a paragraph </p>

Where <p> and </p> are the elements and the text between elements is known as content.

**Basic HTML Page**

<!DOCTYPE html> tells browser you are using HTML5

<html> root of an HTML document

    <head> container for meta data

        <title>My First Page</title> PAGE TITLE

    </head>

    <body> contains all data rendered by the browser

        <p>Hello World!</p> paragraph tag

    </body>

</html>

**HTML Syntax with META data**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

<meta http-equiv="X-UA-Compatible" content="IE=edge" />

<meta name="viewport" content="width=device-width, initial-scale=1.0" />

<title>My First Page</title>

</head>

<body>

<header></header>

<main>

</main>

<footer>

</footer>

</body>

</html>

**Quick points**

* HTML tag is parent of head & body tag.
* Most of the HTML elements have opening and closing tags with content in between.
* Some tags have no content in between, eg- <br>
* Where <br> is the line break, it is used to spacing between the lines.
* Where <hr> is the horizontal line, it is used to make horizontal line between lines.
* HTMl is not case sensitive.
  + <html> = <HTML>
  + <p> =<P>
  + <head> = <HEAD>
  + <body> = <BODY>

**Comments in HTML**

* This is the part of the code that should not be parsed.

<!-- This is the HTML Comment -->

**Basic HTML Tags**

HTML Attributes

Attributes are used to add more information to the tag

<html lang=”en”>

**Heading Tag**

Used to display headings in HTML

* h1 (Most important)
* h2
* h3
* h4
* h5
* h6 (Least important)

**Paragraph Tag**

Used to add paragraphs in HTML

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

**Anchor Tag**

Used to add links to your page

<a href=”<https://google.com>”>Google </a>

**Image Tag**

Used to add images to your page

<img src=”image.png” alt=”Random Image”>

* We can use image urls in the image.png place.

**Br Tag**

Used to add next line(line breaks) to your page.

<br>

**Bold, Italic & Underline Tags**

Used to highlight text in your page.

<b> Bold </b>

<i> Italic </i>

<u> Underline </u>

**Big & Small Tag**

Used to display big & small text on your page

<big> Big </big>

<small> Small </small>

**Hr Tag**

Used to display a horizontal ruler, used to separate content

<hr>

**Subscript & Superscript tag**

Used to display a horizontal ruler, used to separate content

<sub> subscript </sub>

H2O

<sup> superscript </sup>

32=9

**Pre Tag**

Used to display text as it is (without ignoring spaces & next line)

<pre> This

Is a sample

Text.

</pre>

**Page Layout Techniques**

using Semantic tags for layout

using the Right Tags

<header>

<main>

<footer>

**Inside Main Tag**

Section Tag For a section on your page

<section>

Article Tag For an article on your page

<article>

Aside Tag For content aside main content(ads)

<aside>

**Revisiting Anchor Tag**

<a href="https://google.com" target="\_main"> Google </a>

for new tab

<a href="https://google.com"> <img src="link"> </a>

clickable pic

**Revisiting Image Tag**

<img src="link" height=50px >

set height

<img src="link" width=50px >

set width

**Div Tag**

Div is a container used for other HTML elements

Block Element (takes full width)

**List : Div Tags**

<address> <article> <aside>

<blockquote> <canvas> <dd>

<div> <dl> <dt>

<fieldset> <figcaption> <figure>

<footer> <form> <h1>-<h6>

<header> <hr> <li>

<main> <nav> <noscript>

<ol> <p> <pre>

<section> <table> <tfoot>

<ul> <video>

**Span Tag**

Span is also a container used for other HTML elements

Inline Element (takes width as per size)

**List : Span Tags**

<a> <abbr> <acronym>

<b> <bdo> <big>

<br> <button> <cite>

<code> <dfn> <em>

<i> <img> <input>

<kbd> <label> <map>

<object> <tt> <var>

<output> <q> <samp>

<script> <select> <small>

<span> <strong> <sub>

<sup> <textarea> <time>

**List in HTML**

Lists are used to represent real life list data.

unordered ordered

<ul> <ol>

<li> Apple </li> <li> Apple </li>

<li> Mango</li> <li> Mango </li>

</ul> </ol>

**Tables in HTML**

Tables are used to represent real life table data.

<tr> used to display table row

<td> used to display table data

<th> used to display table header

**Tables in HTML**

|  |  |
| --- | --- |
| Name | Roll No |
| Shradha | 1664 |

     <table>

            <tr>

                <th>Name</th>

                <th>Roll No</th>

            </tr>

            <tr>

                <td>Shradha</td>

                <td>1664</td>

            </tr>

        </table>

**Caption in Tables**

<caption> Student Data </caption>

Student Data

|  |  |
| --- | --- |
| Name | Roll No |
| Shradha | 1664 |

**thead & tbody in Tables**

<thead> to wrap table head

<tbody> to wrap table body

**colspan attribute**

colspan="n"

used to create cells which spans over multiple columns

**Form in HTML**

Forms are used to collect data from the user

Eg- sign up/login/help requests/contact me

<form>

form content

</form>

**Action in Form**

Action attribute is used to define what action needs to be performed when a form is submitted

<form action="/action.php" >

**Form Element : Input**

<input type="text" placeholder="Enter Name">

**Label**

<label for="id1">

<input type="radio" value="class X" name="class" id="id1">

</label>

<label for="id2">

<input type="radio" value="class X" name="class" id="id2">

</label>

**Class & Id**

<div id=”id1” class=”group1”>

</div>

<div id=”id2” class=”group1”>

</div>

**Checkbox**

<label for="id1">

<input type="checkbox" value="class X" name="class" id="id1">

</label>

<label for="id2">

<input type="checkbox" value="class X" name="class" id="id2">

</label>

**Textarea**

<textarea name="feedback" id="feedback" placeholder="Please add Feedback">

</textarea>

**Select**

<select name="city" id="city">

<option value="Delhi"> Delhi </option>

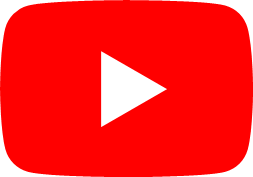
<option value="Mumbai"> Mumbai </option>

<option value="Banglore"> Banglore </option>

</select>

**iframe Tag**

website inside website

 <iframe src="link"> Link </option>

**Video Tag**

<video src="myVid.mp4"> My Video </video>

Attributes

- controls - loop

- height - autoplay

- width