

- Introduction -

HTML : Structure / layout

CGG : Style

JS : Logic

HTML : Hyper Text Markup Language

HTML is the code that is used to structure a web page and its 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 :

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

content

Element

Basic HTML Page

Ⓐ

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title> My First Page </p> </title>
```

```
</head>
```

```
<body>
```

```
<p> hello world </p>
```

```
</body>
```

```
</html>
```

```
<!DOCTYPE html>
```

tells browser you are using HTML

```
<html>
```

root of an html document

```
<head>
```

container of metadata

```
<title> My First Page </title>
```

page title

```
</head>
```

```
<body>
```

containing all data rendered by the browser

```
<p> hello world </p>
```

paragraph tag

```
</body>
```

```
</html>
```


- HTML tag is parent of head and body tag.
- Most of HTML elements have opening and closing tags with content in between.
- Some tags have no content in between, eg - `
`
- We can use inspect element / view page source to edit HTML.

Comments in HTML

This is part of code that should not be parsed.

```
<!-- This is an HTML Comment -->
```

HTML is NOT case sensitive

```
<html> = <HTML>
```

```
<p> = <P>
```

```
<head> = <HEAD>
```

```
<body> = <BODY>
```

* Basic HTML tags

HTML Attributes

Attributes are used to add more more information to the tag

```
<html lang="en">
```

Heading tag

used to display headings in HTML

h1 (most important)

h2

h3

h4

h5

h6 (less 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

```

```

↑
relative url

- 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 and Small Tags:

Used to display big & small text on your page.

```
<big> Big </big>
```

```
<small> Small </small>
```


- Hr Tag:

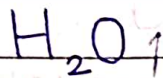
Used to display a horizontal ruler, used to separate content

`<hr>`

- Subscript & Superscript Tag:

Used to display a horizontal ruler, used to separate content

`_{subscript}`



`^{superscript}`

$$A^n + B$$

- 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

`<section>`

For a section on your page

Article Tag

`<article>`

For an article on your page

Aside Tag

`<aside>`

For Content aside main content (ads)

- Revisiting Anchor Tag:

`Google`

↑
for new tab

``

↑
clickable pic

- Revisiting Image Tag:

``

↑
set height

``

↑
set width

- Div Tag:

Div is a container used for other HTML elements.
Block Element (takes full width)

List: Div Tags:

<address>	<fieldset>	<nav>
<article>	<figcaption>	<noscript>
<aside>	<figure>	
<blockquote>	<footer>	<p>
<canvas>	<form>	<pre>
<dd>	<h1>-<h6>	<section>
<div>	<header>	<table>
<dl>	<hr>	<tfoot>
<dt>		
	<main>	<video>

- Span Tag:

Span is also a container used for other HTML elements

Inline Element (takes width as per size)

- List: Span Tags:

<a>	<i>	<script>
<abb>		<select>
<acronym>	<input>	<small>
	<kbd>	
<bdo>	<label>	
<big>	<map>	<sub>
 	<object>	<textarea>
<button>	<tt>	<sup>
<cite>	<var>	<time>
<code>	<output>	
<dfn>	<q>	
	<samp>	

* List in HTML:

Lists are used to represent real life list data.

Unordered

 Apple

 Mango

ordered

 Apple

 Mango

* 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:

<table>

<tr>

<th> Name </th>

<th> Roll No </th>

</tr>

<tr>

<td> Priyanka </td>

<td> 6117 </td>

</tr>

</table>

Name	Roll No
Priyanka	6117

- Caption in Tables:

<caption> Student Data </caption>

Student Data

Name	Roll No
Priyanka	6117

- ~~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

Data	
Priyanka	6117
Aman	1890

- 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 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:

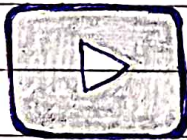
```
<textarea name="feedback" id="feedback" placeholder="Please add Feedback">
</textarea>
```

- Select:

```
<select name="city" id="city">
  <option value="Delhi"> Delhi </option>
  <option value="Mumbai"> Delhi </option>
  <option value="Bangalore"> Delhi </option>
</select>
```

- IFrame Tag:

Website inside website



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

- Video Tag:

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

Attributes

- controls
- height
- width
- loop
- autoplay