

# HTML

Structure/layout



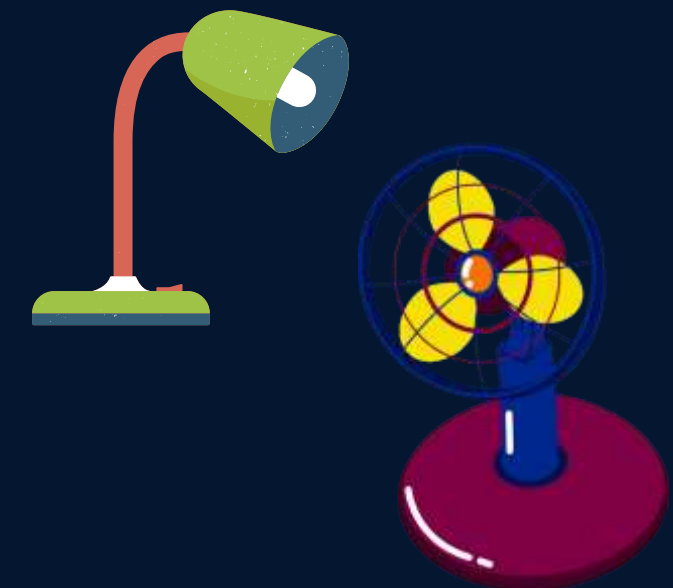
# CSS

Style



# JS

Logic





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# 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

A container for some content or other HTML tags

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



Element

## Basic HTML Page

`<!DOCTYPE html>`

tells browser you are using HTML5

```
<html>
```

root of an html document

```
<head>
```

container for metadata

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

page title

```
</head>
```

```
<body>
```

contains all data rendered by the browser

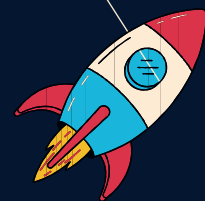
```
<p>hello world</p>
```

paragraph tag

```
</body>
```

```
</html>
```

## Quick Points



Html tag is parent of head & body tag

Most of html elements have opening & closing tags with content in between

Some tags have no content in between, eg - `<br>`

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>





# Level 2



# 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

```

```

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 & 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

`<sub> subscript </sub>`

H<sub>2</sub>O

`<sup> superscript </sup>`

n



A + B

## Pre Tag

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

```
<pre> This
```

```
    is a sample
```

```
text.
```

```
</pre>
```

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# 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">  </a>
```

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>

<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)



A

# List : Span Tags

<a>

<abbr>

<acronym>

<b>

<bdo>

<big>

<br>

<button>

<cite>

<code>

<dfn>

<em>

<i>

<img>

<input>

<kbd>

<label>

<map>

<object>

<tt>

<output>

<q>

<samp>

<script>

<select>

<small>

<span>

<strong>

<sub>

<sup>

<textarea>

<var>

<time>



# Level Pro



# List in HTML

Lists are used to represent real life list data.

## unordered

```
<ul>  
  <li> Apple </li>  
  <li> Mango </li>  
</ul>
```

## ordered

```
<ol>  
  <li> Apple </li>  
  <li> Mango </li>  
</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 used

`<th>` to display table header

## Tables in HTML

`<table>`

`<tr>`

`<th> Name </th>`

`<th> Roll No </th>`

`</tr>`

`<tr>`

`<td> Shradha </td>`

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

```
<th> 1664 </th>  
</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

| Data    |      |
|---------|------|
| Shradha | 1664 |
| 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 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

# 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