HTML

CSS

JS
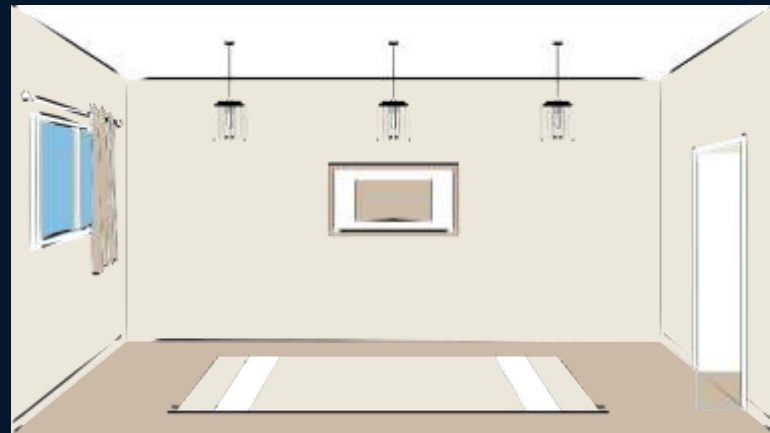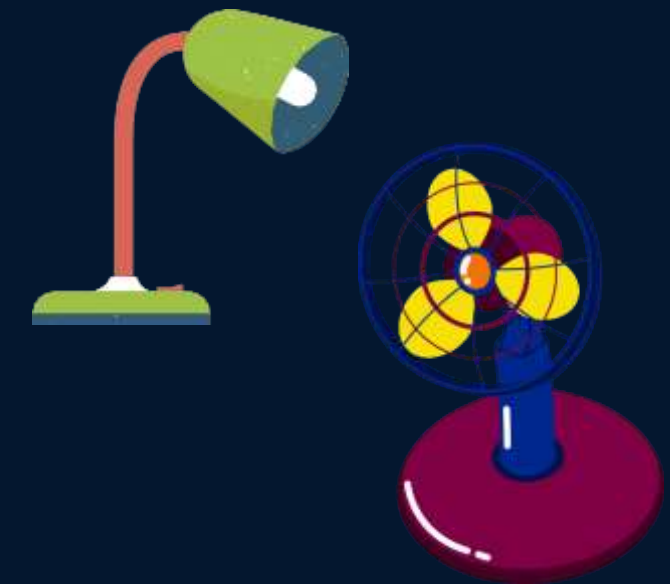
Structure/layout

Style

Logic

Level 1

HTML

Hyper Text Markup Language

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

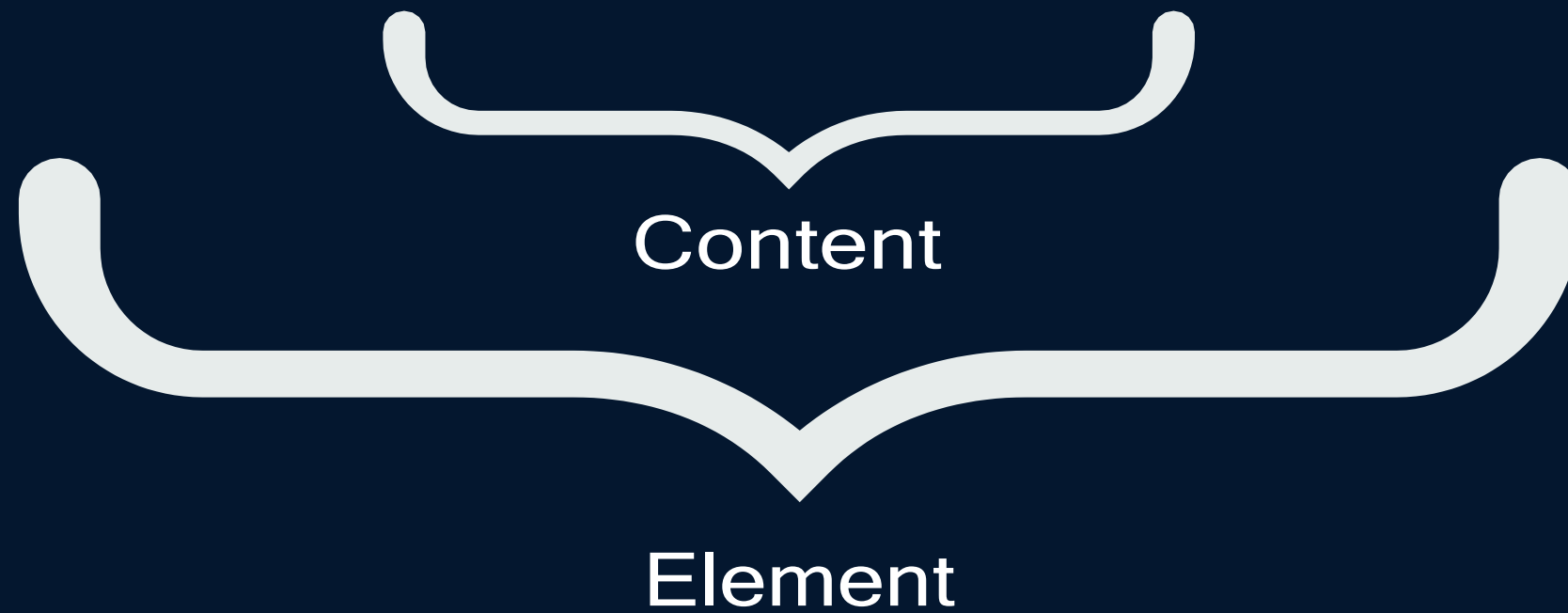The component used to design the structure of websites are called HTML tags.

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>

Content

Element

Basic HTML Page

```html
<!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 -

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\>
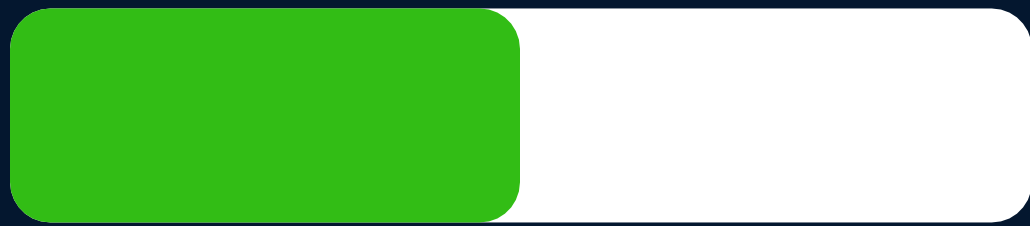
\<body\> = \<BODY\>

Level 2

Basic HTML Tags

HTML Attributes

Attributes are used to add more information to the tag

```html
<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

```html
<a href="https://google.com"> Google </a>
```

Image Tag

Used to add images to your page

<img src="/image.png" alt="Random Image">

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

 Bold

<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

_{subscript}

$$H_2O$$

^{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\>

Level 3

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

<main>

<address>

<article>

<aside>

<blockquote>

<canvas>

<dd>

<div>

<dl>

<dt>

<fieldset>

<figcaption>

<figure>

<footer>

<form>

<h1>-<h6>

<header>

<hr>

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>
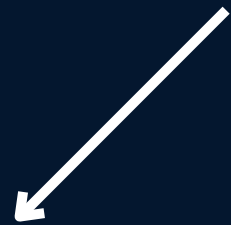
<bdo>

<big>

<button>

<cite>

<code>

<dfn>

<em>

<i>

<input>

<kbd>

<label>

<map>

<object>

<tt>

<var>

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

`<th>`   used to display table header

Tables in HTML

Name	Roll No
Purva	1664

```html
<table>

    <tr>

        <th> Name </th>

        <th> Roll No </th>
    </tr>

    <tr>

        <td> Purva </th>

        <th> 1664 </th>
    </tr>

</table>
```

Caption in Tables

<caption> Student Data </caption>

Student Data

Name	Roll No
Purva	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	
Purva	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

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

Label

```html
<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

```html
<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="Banglore">  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

Thank you