

HTML / CSS

★ HTML "Hyper text markup language"

- It uses tags to define elements
- It is used to create web pages

★ CSS "Cascading Style Sheets"

- It is used to style HTML

We use HTML to decide what to use, where to use, how to use i.e button, input, form, then CSS is used to give style to it

Text Editors :

- NotePad
- NotePad++
- Bracket
- Sublime
- Atom
- VSCode

HTML

HTML Structure :

⇒ In HTML we use tags:

- Heading
- Paragraph (Line / text)
- Image
- Links
- Tables
- forms

Structure:

`<openTag> Content </closeTag>`

`<html>`

html Coding

`</html>`

`<!DOCTYPE html>` → To tell browser that the type of document is HTML

`<html>`

→ Meta information

`<head> </head>` → Title → external CSS or JS file

`<body> </body>` → Page content.

`</html>`

Title tags → Title of website

`<title> Hello </title>`

Shortcut to have startup HTML Code

! (Tab or Enter)

TAGS: In body

For heading in Body,

`<h1> Heading 1 </h1>`

Mostly used

`<h2> Heading 2 </h2>`

`<h3> Heading 3 </h3>`

`<h6> Heading 6 </h6>`

⇒ How to add comment in html

- `<!-- Anything in it is comment -->`
- Control + / is used to comment "Lines"

Paragraph Tags :

`<P> This is paragraph </P>`

`<P> This is paragraph...
Now New line
</P>`

} on
Same
Line

∴ Now New line will not be in new line it
will be in same

`<P> First line </P>`

`<P> Second line </P>`

∴ Both will be in new line, but if
we need something of first line on
new line we will use another tag,
which is Brake.

* `
` its self closing tag used
to introduce new line

`<P> 150length
Lorem (center) → it will generate
dummy data`

Exercise # 1 :

Generate a simple website where you have following structure

Main Heading

=

Sub Heading

Random Paragraph of 150 words

Sub Heading

Random Paragraph of 10 words

Links Tags

- Links of any website
- links of our own any webpage

Name to click

e.g: Go to google

'

Ponder

It will open in the same tab,
so if I need to open it another tab we
will do.

 Name

solution

* Now if I want to link different webpages of my website

Suppose I have two html pages

1- page1.html 2- page2.html

and I want add link of Page2 in page1

so `` conversion `<a>`

is used
to show
current
folder

/ one folder
back

Exercise # 2

\Rightarrow It should show

Click here to go to Google

- After clicking google you should move to

* Google but on new tab.

- On putting pointer on google it should hover

"Google is best friend" : take help from Google

\Rightarrow To hover on pointer we can use

title in link tag

``

google ``

Inserting Images in html

using `src = "Source of image"` `alt = "description"`

self closing tag

Source of image

Any description for image

: A type of error shower

If source is wrong, or image isn't present

alt will show description there with

default image viewer

Sites for Free - Photos :

- Pexels
- Unsplash

Lists on Webpage :

Ordered list

Unordered list

Description List

Ordered list:

 item 1
 item 2

Default

1. item 1

2. item 2

if want to change the list numbers

<ol type='a'>

<ol type='A'>

<ol type='i'>

<ol type='I'>

Unorderd List:

 item 1
 item 2

Default:

.item 1

.item 2

<ul style='list-style-type: none
circle;'>

for changing shape

Description List:

<dl>

<dt> Guitar </dt>

<dd> Guitar is my love </dd>

</dl>

Text editing Tags:

 Bold Tag

 strong same as bold

<i> Italic Tag </i>

 same as Italic

 Line on word

_{subscript tag (on foot of word)}

e.g <p> H ₂ O </p>

^{for power}

<mark> highlight tag </mark>

Tables:

<Table> → Tag to create table

<thead> → for heading

<tr> → for creating row

<th> First Name </th> → heading columns

<th> Last Name </th>

</tr> </thead>

<tbody> → for body

<tr>

<td> Ali </td> → for data below Heading

<td> Ahmed </td>

</tr>

</tbody>

HTML Forms

1- Labels

2- Input

3- Buttons

<form action = " " → will discuss later

<label for = "username" > → For labeling something

Username :

</label>

→ To take input

<input type = "text" >

type =

To relate or uniquely identify we use "IDs"

<input type = "text" id = "username" >

Now on clicking on username our pointer
will go to the text box

For submit using input tag :

<input type = "submit" name = "sign in" >

Action . Method . Name

`<form action="New.html" method="GET">`

↓

To redirect
To new page

will show data
in URL

To send data
from URL

→ post →
Http to
Header

`<input type="Email" name="email">`

Place Holders :

`<input type="text" id="name" placeholder="Username">`

To show something
in input box before
type

Required

`<input type="text" required>`

It will make this
field compulsory
To input some data

Radio Button

`<label for="male"> Male </label>`

`<input type="radio" id="male">`

`<label for="female"> Female </label>`

`<input type="radio" id="female">`

Now all can be selected but we
need only one to be selected.

`<input type="radio" id="male" name="Gender">`

↓
set the name of

all the inputs same
so only one will be
selected at one time
i.e gender

Dropdown List

So, we need a range of something so we can select one, like age so will go with it

<label for="Age"> select your age </label>

<select name="age" id="Age"> ^{to save value in future} ^{for selecting}

<option value="5-10"> 5-10 ^{options to be displayed} </option>

<option value="10-20"> 10-20 </option>

</select>

More Form Tags:

<button id="Submit"> click </button> ^{for creating a button}

<textarea name="" id="" cols="30" rows="10"> </textarea>

<input type="color"> ^{for taking / selecting color}

<input type="date"> ^{for selecting date}

<input type="file"> ^{for taking input file}

Exercise # 4

Input → firstname, lastname, email, password → with names inside

Gender → multiple choice with one selection

Country → dropdown list

Textbox → for input yourself

Submit

IDS And Class

Both of these are necessary for working alongwith css

Suppose I have 2 heading tags and some data for both now I want to change the color of first heading tag, for this I can add

<style> </style> :: Used for css
inside this I can do

h1 {

color = red;

}

But it will make all h1 tags red but I only need first one to be red so I can add class or id to make it unique, to identify it uniquely.

<h1 class = "heading1" > Hello </h1>

<h1 class = "2" > Oye </h1>

<style>

.heading1 { color = red }

:: It will work

For id we use # instead of .

Developer Convention:

id remain same for one webpage
classes can repeat

HTML Entities

Copyright

©copy;

<>

< space

>>

>

&

&

And many more go with Google 😊

Meta Tags:

```
<meta name="viewport" content="width=device-width">
```

```
<meta name="author" content="Zacem">
```

```
<meta name="description" content="These are note">
```