

HTML Basics - I

Hypertext Markup Language

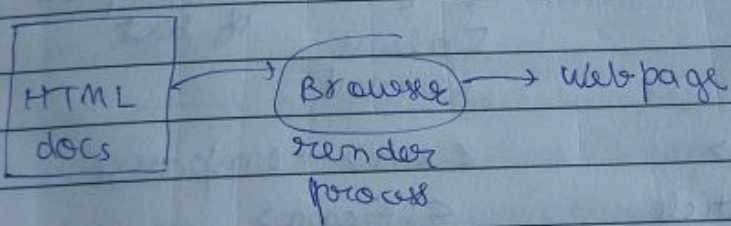
Web pages are linked in a website with hyperlink

We will use annotations or tags to show our content

- define the structure of web pages
- HTML provide description of web pages to web browser
- Basic Building block of webpage
- skeleton of webpage

CSS → formatting (appearance)
 JS → functionality

HTML + CSS + JS → Full stack application



render :- Machine language convert human readable (load/show) formatting

Tag :- Tell browser, How to render different elements

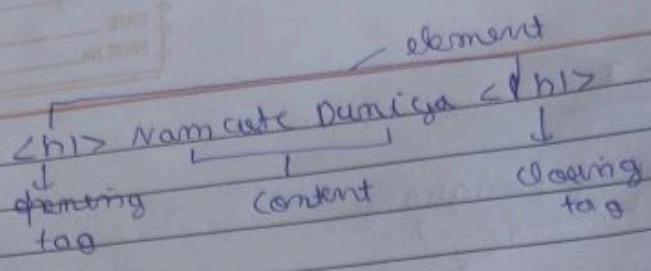
<p>	<h1>		<a>
↓	↓	↓	↓
paragraph	heading	image	link

100+ html tags exists

Tag

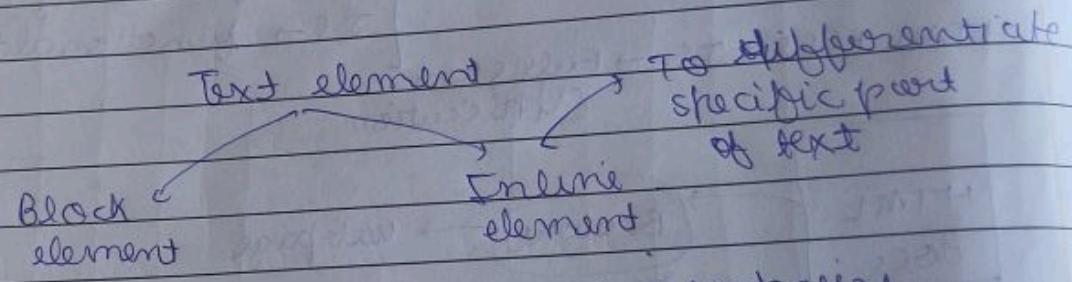
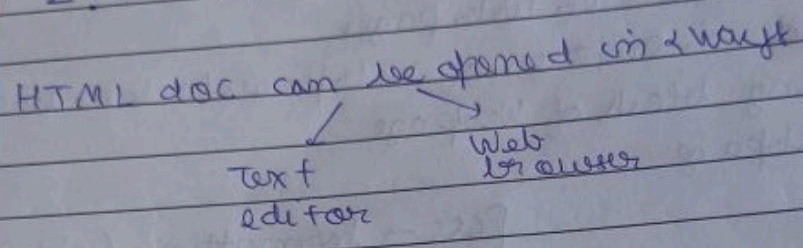
- opening tag
- closing tag
- content

(Tag are not case sensitive)



Comment in HTML

`<!-- This is comment -->`



- `<p>`, `<h1>` - `<h6>`
- `` / ``, article
- `` → emphasize
- ``
- `<a>`

`<div>` tag → division / generic container tag

- container in which we can add tags
- can customize this tag

Line break tag

`
`
→ adds new empty line

This tag does not have closing tag
So, it is called empty / self closing tag

Eg `br`, `img`, `input`

List

- ordered list ` `
- unordered list ` `
- description list Eg `<dl>`
`<dt> Cobble </dt>`
`<dd> Black hot drink </dd>`
`</dl>`

Attributes → all HTML elements can have attributes
 → property of a tag
 → additional information of HTML element

``
 ↑
 property of img tag

`<div id=" " >`
 ↑
 property of div tag

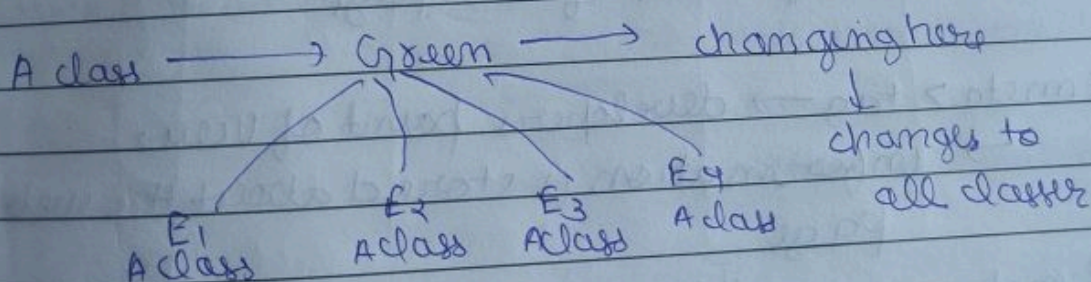
Attribute use

id → all element (unique)

class → all element (some / unique)

src → Only on img tag

href → a tag



H/W → what happens when use → shows some error
 close an empty tag! and tag not properly work

! → enter

For boilerplate code of
HTML in VS code

Boilerplate Explanation

(i) `<!DOCTYPE html>`

↳ tells browser about the version of html document i.e (HTML5)

(ii) `<html lang="en">`

↳ whole web page content is in english language

(iii) `<head> </head>`

↳ contains metadata of HTML doc

+ title

+ viewport

+ style

+ character set

metadata → Data about data

(iv) `<body> </body>`

↳ actual content is inside this tag

→ every data of web page

(v) `<meta>` tag → developers point of view

↳ information is stored about the web page

`<meta name="description" content="xyz">`

↓
description of website

Meta tag used in SEO

→ search engine optimization

Meta tag

used to specify
Not displayed to user

inside <head> tag

- character set
- description
- keyword
- author
- viewport

⑥ <meta charset = "UTF-8" >

→ type of character encoding 90% web page uses UTF-8
so, UTF-8 is standard

⑦ <meta name = "viewport" content = "width = device-width",
initial-scale = 1.0";

display area of your screen is viewport

controls the zoom level when page is first loaded

width of device using

⑧ <title> Document </title>

→ written on the top bar of the web browser.

⑨ <meta http-equiv = "X-UA-Compatible" content = "IE=edge">

line added by microsoft and
vscode it is just for compatibility
Nothing else

Day 2 → 29th Dec 2022

DATE
PAGE No.

Pranjal Notes

HTML Basics - II

HTML text formatting

→ Several elements for defining text with a special meaning

- Eg
- `` - Bold text
 - `` - Important text
 - `<i>` - Italic text
 - `` - Emphasized text
 - `<mark>` - Marked text
 - `<small>` - ^{smaller} ~~smaller~~ text
 - `` → deleted text
 - `<ins>` → inserted text

`<u>` → underline

`<sub>` → subscript

`<sup>` → superscript

Tables

→ `<table>`

table heading

`<thead>`

<code><th></code>	Sub	Sem 1	Sem 2
<code><tr></code>	Eng	2	5
↓ rows	Hum	6	9
	Mth	10	12
	Total	18	26

Actual content
`<tbody>`

table
body

`<tbody>`

(i) `<table>` → table tag

(ii) `<tr>` → table row

(iii) `<td>` → table data

(iv) `<th>` → table heading (bold)



To add Border :- (From CSS)

<style>

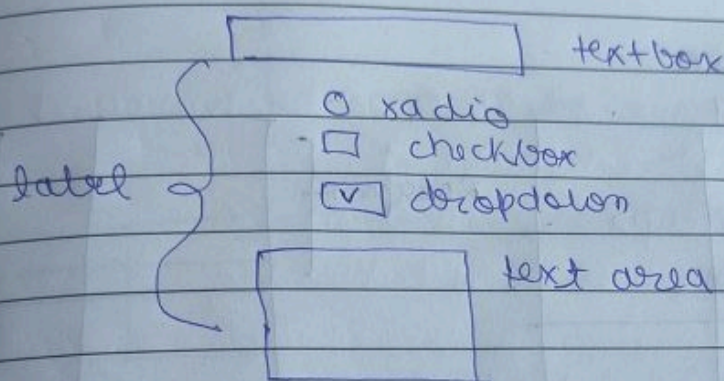
table, tr, td, th {

border: 1px solid black;

border-collapse: collapse;

</style>

Forms in HTML :-



<input type="text"> For text

<input type="radio"> For radio

<input type="checkbox"> For checkbox

<input type="password"> For password

<label for="user"> username: </label>

<input type="text" name="user">

username:

→ <label> is used for the text related to the type we are using for input.

<form action="https://...">

↑
when button is clicked this action is performed

<input type="submit" value="submit">

submit Button Creation

value / text inside button

Day 3 → 3rd Jan 2023

Promptal Notes:

HTML BASICS - III

Table tag continue

<table> tag to create

<tr> row

<td> table description

<th> table heading

new colspan

Colspan:- when table is spanning in the column direction.

Rowspan:- when table is spanning in the row direction

Colspan is an attribute which helps to stretch table to multiple columns.

Rowspan is an attribute which helps to stretch table to multiple rows.

→ colspan

--	--

→ Rowspan

--	--

→ Both colspan & Rowspan

--	--	--

→ If we want colspan = "2"

this cell should be removed

For text in center in table

<style>

table, td, tr {

text-align: center;

}

→ css property

<caption> tag is used to add caption to your table

<caption> My first table </caption>

Use css property :- (shifting to bottom)

table {

caption-side: bottom;

}

colgroup tag

If we want to style a specific column (col) we use colgroup property.

colgroup tag

↳ col tag

↳ style attribute

<colgroup>

<col span="3" style="background-color: red">

↳ default = 1

</colgroup>

add this tag inside <table> tag

Hide columns in table

<colgroup>

<col style="visibility: collapse;">

</colgroup>

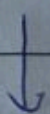
To add quote in document:-

<blockquote>

<p> "This is quote" </p>

<cite> -- Time Magazine </cite>

</blockquote>



"This is quote"

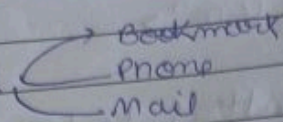
-- Time Magazine

`<blockquote cite="www.quote.com">`
`xyz quote`
`</blockquote>`

↑ cite attribute for the resource
link from where i have
taken the quote from.

Adding caption to your image:-

`<figure>`
``
`<figcaption> This is a picture </figcaption>`
`</figure>`

→ Link 

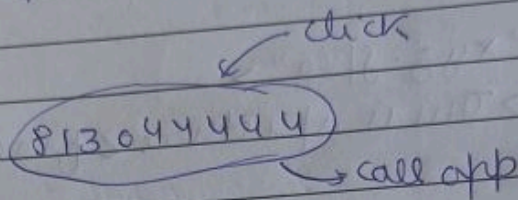
→ Div vs span

→ Semantic tag

Hyperlink → anchor tag `<a>`

URL → `click here `

(ii) call

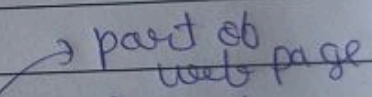


`call me `
→ opens call app

(ii) mail

`mail `
→ redirects to mail app

③ Bookmark

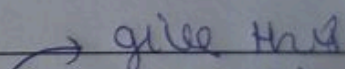
In a web page with multiple sections & we have to scroll to go to another section 

Bookmark is the hyperlink where we click to reach section without scrolling

"Easily Accessible"

→ add id to href

`Go to resources `

`<p id="resources">Resources </p>` 

To Scroll Smooth in Bookmark :-

<style>

html

~~Scroll~~ Scroll-behavior: "Smooth";

}

</style>

- Give id to the element where you want to scroll to, then on the top of the web page add anchor tag & in href add the id with #

Destination → id

href → href = "#id"

transition

Smooth → html

Scroll-behavior: smooth;

}

<Div> tag → Differentiate b/w sections in web page

- also called Division tag
- generic tag (No specific use)
- text, image, link
- can use anywhere, used to create division

→ Div tag is a big container in which we add different tags. add styling accordingly.

→ Div tag is a block element → display: block;
(takes horizontal space)

→ Div tag in your code comes in the second line

span tag

- Same as div, but it's an inline element
- CSS prop → display: inline;
- span tag in single line

Span → Inline element → same line
Div → Block element → different line

Semantic tags

→ meaningful ✓

table, form, section
etc
are semantic tags

div, span → non semantic tag

Semantic tag

- <article>	- <main>
- <aside>	- <row>
- <figure>	
- <figcaption>	
- <header>	
- <footer>	

- ① <section> :- Define section in your Document
 <script type = "file" > → to add audio & video
 important audio/video
- ② Article → independent text
 We can add Section in Article
 We can add Article in Section

(3) Header :- Introductory part of Web Document

- Brand Name
- Logo
- Heading

(4) Footer :- Below / Bottom of Web page

- Contact us
- Address
- Reviews

(5) Nav :- Navigation links

- New page
- Same page scrolls
- Always having `<a>` tags

favicon :-

`<link rel="icon" type="image/x-icon" href="image-file" type="media-type which media you are using">`

DOM → Document Object Model is a hierarchy of you tags in html document

