

①

 $\mathcal{H}TM(L)$

HTML \Rightarrow HyperText Markup language

\downarrow \downarrow

one web page Annotations / tags
is linked to other used to markup
content.

HTML \rightarrow structure, skeleton

CSS -> styling, appearance

JS \rightarrow Brain

What is HTML?

- * What is HTML?
- * Basic building block
- * Describes the structure of web pg.
- * Tells browser how to render the content
- * Not case sensitive

<!DOCTYPE html>

<html>

< head >

<title> . . . </title>

</head>

<body>

$$\langle h | \dots \langle |h| \rangle$$
 $\langle p \rangle$ $\langle \frac{1}{p} \rangle$

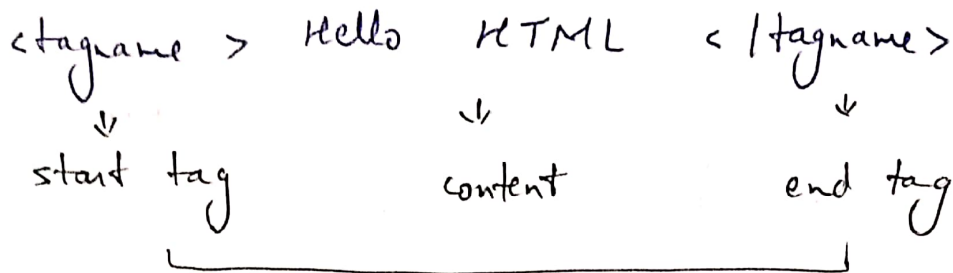
$\langle \text{body} \rangle$

 $\langle \text{H}^{\text{H}} \rangle$

② What is an HTML Element?

- Defined by start tag, some content and an end tag

$\langle \text{tagname} \rangle$ Hello HTML $\langle / \text{tagname} \rangle$
↓ ↓ ↓
start tag content end tag



Element.

- HTML element is everything from start tag to end tag

Note: Some elements have no content

Ex $\Rightarrow \langle \text{br} \rangle$, these are called empty ~~tags~~ elements

Web Browsers

Reads the document and display them correctly

Tags in HTML ~~tags~~ $\langle \rangle$

HTML tags are keywords which defines how the web browser will format & display the content.

③ HTML Attributes

- Provides additional info about HTML elements
- specified in start tag

Ex name = "value"

href attribute \Rightarrow URL of pg. the link goes to

src attribute:- specifies the path

HTML styles

Used to add styles to an element.

HTML Headings

Titles or subtitles that you want to display on webpage.

<hr> Horizontal Rule

 Line Break

<pre> preformatted text

HTML Favicon

Favicon is a small image displayed next to the page title in the browser tab.

⇒ In order to display favicon, we need to add a <link> element, after the <title>

HTML Tables

Arranged data in rows & columns

<table>

<tr>

<td>

</td>

<caption>

<thead>

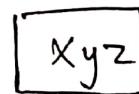
<tbody>

</tbody>

Padding & Spacing

cell Padding

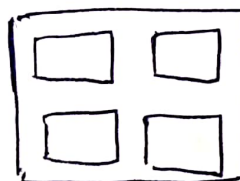
- space btw. the cell edge and cell content.
- By default padding is 0



cell spacing

Space btw each cell.

By default it is 2px



5) Colspan & Rowspan

To Colspan a cell span over multiple columns,
we colspan.

| | | |
|--|--|--|
| | | |
| | | |
| | | |

Rowspan

Reverse

| | | |
|--|--|--|
| | | |
| | | |
| | | |
| | | |

HTML Lists

- ↳ Unordered list
- ↳ Ordered list
- ↳ Description List <dl> <dt> <dd>
 ↓ term each term
 description
 list
 list item

Block-level elements [<div>]

always starts on a new line
takes full width.

Ex <p>, <div>

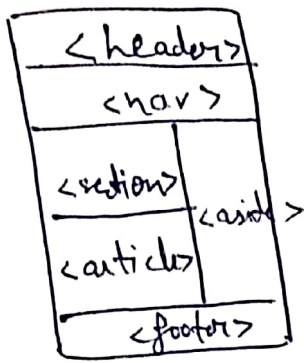
Inline Elements []

Eg:-

doesn't start on new line

only takes up as much width as necessary

⑥ HTML layout Elements



<header> header section.

<nav> => set of navigation links.

<section> section in ~~doc~~ doc.

<article> independent, self contained content

<footer>

<details>

<summary>

<aside> defines content aside from content

(like sidebars)

HTML Responsive

Responsive Web Design is about using HTML & CSS to automatically resizes, hide, shrink on enlarge, a website, to make it look good on all devices.

HTML Forms

<form>

<input type = "text">

<label>

<button>

<select> => defines a drop-down list, <option>

<text area> => multiline input field.

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HTML Video `<video>`

Used to show video on web pg

`<audio>` used to play audio

HTML Responsive Web Design

Creating web pages that look good on all devices

A responsive web design will automatically adjust for different screen sizes & viewpoints.

Ex `<meta name="viewport" content="width=device-width, initial-scale=1.0">`