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Basic Structure

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>

</body>
</html>
```

Elements and attributes

* Elements and Attributes :-

Element :- Paragraph, link, image, video, etc

Attribute :- Additional info about attribute

< Tag Name attribute1="value" attribute2="value"

> content </ Tag Name >

```
<body>
  <!-- Example -->
  <p style="color: red;">This is Paragraph Tag</p>
</body>
```

Indentation

* Indentation :-

- Format of writing tags
- We can easily visualised Parent child tag.

- easy to understand source code.
- Parent, child, siblings
- Professional coder

Comments

```
<body>  
  <!-- write comments -->  
</body>
```

Headings

```
<body>  
  <h1>Heading 1</h1>  
  <h2>Heading 2</h2>  
  <h3>Heading 3</h3>  
  <h4>Heading 4</h4>  
  <h5>Heading 5</h5>  
  <h6>Heading 6</h6>  
  <!-- hr tag for making horizontal line on the page -->  
  <hr/>  
</body>
```

Paragraph

```
<body>
  <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit. Iure autem
  quibusdam quisquam laboriosam adipisci, hic atque accusantium doloribus dolore
  totam.</p>
  <!-- br tag for line break -->
  <!-- pre tag is used same as written in the code -->
  <pre>
    Lorem ipsum dolor sit amet consectetur
    adipisicing elit. Illum eveniet accus
    antium totam architecto delectus opt
    io eaque, deleniti iusto laborio
    sam perspiciatis.
  </pre>
</body>
```

HTML formatting

```
<body>
  <!-- b ---- bolt tag -->
  <!-- strong tag is bolt,also hold strong value among other words -->
  <!-- i tag ---- italic -->
  <!-- em tag --- same as italic also emphasis -->
  <!-- small tag --- make small in font size -->
  <!-- mark --- highlighter -->
  <!-- del -- cut mark in words/sentence -->
  <!-- ins tag show underlined -->
  <!-- sup tag --- power eg x^2-->
  <!-- sub tag --- power in down eg CO2 ko likna-->
  <b>Hello</b><br>
  <strong>hello</strong><br/><br>
  <i>hello</i><br>
  <em>hello</em><br>
  <small>hello</small><br>
  <mark>hello</mark><br>
  <del>hello</del><br>
  <ins>hello</ins><br>
  <p>X<sup>2</sup></p><br>
  <p>CO<sub>2</sub></p><br>
</body>
```

Quotation and Citation

```
<body>
  <!-- q tag --- " " -->
  <!-- blockquote tag --- other paragraph -->
  <!-- abbr tag --- bring cursor on it , it will show tittle written -->
  <!-- address tag --- to give address-->
  <!-- cite tag --- for reference of book or website -->
  <q>Hello World</q>
  <blockquote>Quora was co-founded by former Facebook employees Adam D'Angelo
and Charlie Cheever in June 2009.</blockquote>
  <abbr title="World Health Organisation">WHO</abbr>
  <address>India</address>
  <cite>The lost kid</cite>
</body>
```

HTML Links

```
<body>
  <!-- href --- path -->
  <!-- target="_blank" -- web opens in new tab-->
  <!-- tittle --- when hover it show what written -->
  <a href="https://www.cit.ac.in/">CITK</a>
  <a href="https://www.cit.ac.in/" target="_blank" title="Go to citk
website">CITK</a>
  <!-- when so many lines you can make link to go to it directly by clicking -->
  <a href="#local" title="Go to second paragraph">Click</a>
  <p>lorem1000</p>
  <p id="local">lorem500</p>
</body>
```

Email Links

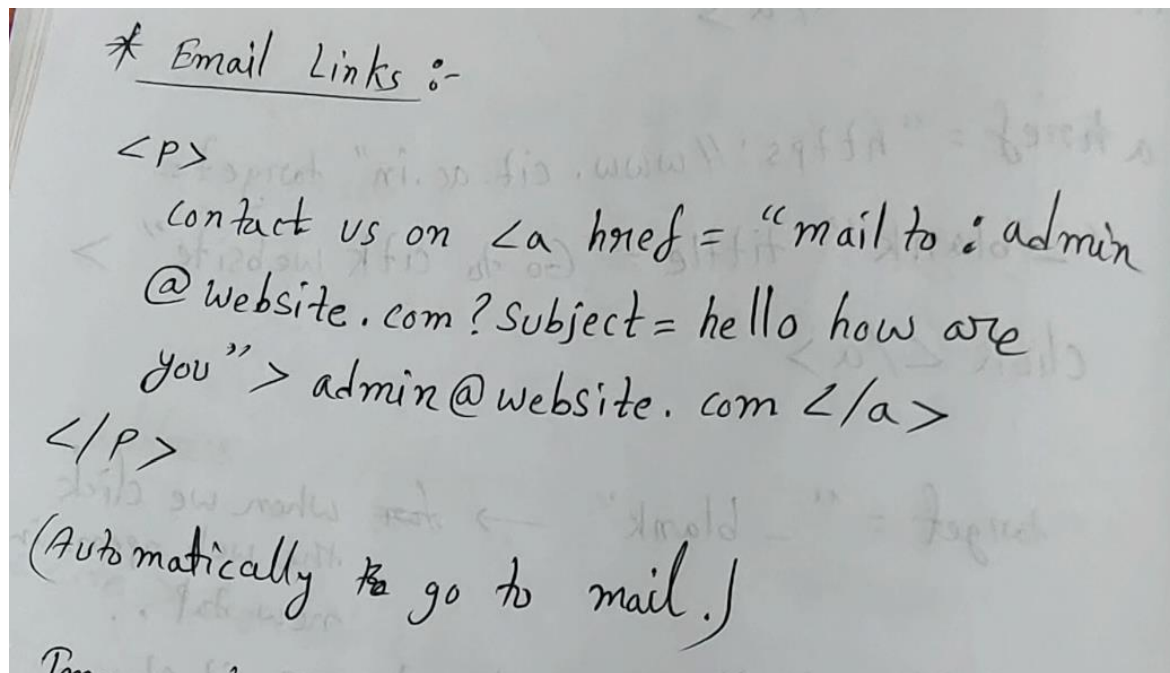


Image in HTML

```
<body>  
  <!-- src --- path , alt -- when image doesnt shows it shows up -->  
    
</body>
```

Marquee

```
<body>  
  <!-- It can move -->  
  <!-- direction -- left/right/up/down -->  
  <!-- we can add text/image/anything possible -->  
  <marquee behavior="" direction="right">I am Moving</marquee>  
</body>
```

Ordered List

```
<body>  
  <!-- start -- from where u want to start -->
```

```

<!-- type -- 1,a,A,I,i -->
<ol start="5" type="1">
  <li>Cofee</li>
  <li>Milk</li>
  <li>Bear</li>
</ol>
<!-- nested -->
<ol type="I">
  <li>Coffee
    <ol type="i">
      <li>Black</li>
      <li>White</li>
    </ol>
  </li>
</ol>
</body>

```

Unordered List

```

<body>
  <!-- list-style-type ---- circle,disc,square,etc -->
  <!-- you can mixed ul and ol also together -->
  <ul style="list-style-type: circle;">
    <li>Football</li>
    <li>Cricket</li>
  </ul>
  <!-- nested -->
  <ul>
    <li>Balls
      <ul>
        <li>Football</li>
        <li>Cricket</li>
        <li>Volleyball</li>
      </ul>
    </li>
  </ul>
</body>

```

Description List

```

<body>

```



```

<!-- dt --- topic -->
<!-- dd -- > description-->
<dl>
  <dt>Coffee</dt>
  <dd>Black Hot Drink</dd>
  <dt>Milk</dt>
  <dd>White Drink</dd>
</dl>
</body>

```

HTML Table

```

<body>
  <!-- row --- horizontal -->
  <!-- column --- vertical -->
  <!-- th -- heading tag-->
  <!-- tr -- row tag -->
  <!-- td -- column tag -->
  <!-- caption -- attached with table -->
  <!-- example 1 -->
  <table border="1">
    <caption>Table Example</caption>
    <tr>
      <th>Sl No.</th>
      <td>1</td>
      <td>2</td>
      <td>3</td>
      <td>4</td>
    </tr>
    <tr>
      <th>Name</th>
      <td>Elon</td>
      <td>Bill</td>
      <td>Ambani</td>
      <td>Mark</td>
    </tr>
  </table>
  <!-- colspan --- for joining number of columns/increase column size -->
  <!-- rowspan --- for joining number of rows/increase row size -->
  <!-- thead --- for heading -->
  <!-- tbody --- for content -->
  <!-- tfoot --- for footer -->
  <!-- example 2 -->

```

```

<table border="1">
  <thead style="color: red;">
    <tr>
      <th>column 1</th>
      <th>column 2</th>
      <th>column 3</th>
    </tr>
  </thead>
  <tbody style="color: green;">
    <tr>
      <td>data 1</td>
      <td>data 2</td>
      <td>data 3</td>
    </tr>
    <tr>
      <td>data 4</td>
      <td>data 5</td>
      <td>data 6</td>
    </tr>
    <tr>
      <td>data 7</td>
      <td>data 8</td>
      <td>data 9</td>
    </tr>
  </tbody>
</table>
<!-- nested -->
<!-- nested table -->
<!-- example 3 -->
<table border="1">
  <thead style="color: red;">
    <tr>
      <th>column 1</th>
      <th>column 2</th>
      <th>column 3</th>
    </tr>
  </thead>
  <tbody style="color: green;">
    <tr>
      <td>data 1</td>
      <td>data 2</td>
      <td>data 3</td>
    </tr>
    <tr>
      <td>data 4</td>

```

```

        <td>
            <table border="1">
                <tr>
                    <td>col1</td>
                    <td>col2</td>
                </tr>
                <tr>
                    <td>col3</td>
                    <td>col4</td>
                </tr>
            </table>
        </td>
        <td>data 6</td>
    </tr>
    <tr>
        <td>data 7</td>
        <td>data 8</td>
        <td>data 9</td>
    </tr>
</tbody>
</table>
</body>

```

Div and Span

```

<body>
    <!-- div --- block element -->
    <!-- A block level element always starts on a new line -->
    <!-- and takes up the full width available -->
    <!-- stretches out to left and right as far as possible -->
    <div></div>
</body>

```

Block level elements in HTML

```

<body>
    <!-- they are all block level elements -->
    <address></address>
    <article></article>
    <aside></aside>
    <blockquote></blockquote>

```

```

<canvas></canvas>
<dd></dd>
<div></div>
<dl></dl>
<dt></dt>
<fieldset></fieldset>
<figcaption></figcaption>
<figure></figure>
<footer></footer>
<form action=""></form>
<h1></h1>
<h2></h2>
<h3></h3>
<h4></h4>
<h5></h5>
<h6></h6>
<header></header>
<hr>
<li></li>
<main></main>
<nav></nav>
<noscript></noscript>
<ol></ol>
<p></p>
<pre></pre>
<section></section>
<table></table>
<tfoot></tfoot>
<ul></ul>
<video src=""></video>
</body>

```

Span- Inline Element

```

<body>
  <!-- An inline element does not start on a new line -->
  <!-- only takes up as much width as necessary -->
  <span></span>
</body>

```

Inline Elements in HTML

```

<body>

```

```

<!-- they are inline elements -->
<a href=""></a>
<abbr title=""></abbr>
<acronym title=""></acronym>
<b></b>
<bdo dir=""></bdo>
<big></big>
<br>
<button></button>
<cite></cite>
<code></code>
<dfn></dfn>
<em></em>
<i></i>
<img src="" alt="">
<input type="text">
<kbd></kbd>
<label for=""></label>
<map name=""></map>
<object data="" type=""></object>
<q></q>
<samp></samp>
<script></script>
<select name="" id=""></select>
<small></small>
<span></span>
<strong></strong>
<sub></sub>
<sup></sup>
<textarea name="" id="" cols="30" rows="10"></textarea>
<tt></tt>
<var></var>
</body>

```

• Eg:-
 <div> random text </div>
 <div> random text </div>
 random text
 random text
 result:-
 random text
 random text
 random text random text

Iframe

```
<body>
  <!-- Add others website to ur web page -->
  <iframe src="https://www.cit.ac.in/" frameborder="0" width="300"
height="300"></iframe>
</body>
```

HTML Audio

```
<body>
  <audio controls>
    <source src="town-10169.mp3" type="audio/mpeg">
    Your browser does not support the audio tag.
  </audio>
</body>
```

HTML Video

```
<body>
  <video width="320" height="240" controls>
    <source src="pexels-jill-burrow-6392282 (1080p).mp4" type="video/mp4">
    Your browser does not support the video tag.
  </video>
  <!-- autoplay -->
  <video width="320" height="240" autoplay>
    <source src="pexels-jill-burrow-6392282 (1080p).mp4" type="video/mp4">
    Your browser does not support the video tag.
  </video>
</body>
```

Embed pdf

```
<body>
  <embed src="My html notes.pdf" type="application/pdf" height="300"
width="500">
  <iframe src="My html notes.pdf" frameborder="0"></iframe>
  <object data="My html notes.pdf" type="application/pdf"></object>
```

```
</body>
```

Embed Youtube Videos

```
<body>
  <!-- go to yt video -- share -- embed -- paste the code -->
  <iframe width="560" height="315"
src="https://www.youtube.com/embed/Hc0c7P5BMi4" title="YouTube video player"
frameborder="0" allow="accelerometer; autoplay; clipboard-write; encrypted-media;
gyroscope; picture-in-picture; web-share" allowfullscreen></iframe>
</body>
```

Embed google map

```
<body>
  <!-- go to google map -- share -- embed a map -- copy and paste -->
  <iframe
src="https://www.google.com/maps/embed?pb=!1m18!1m12!1m3!1d3671158.5549388407!2d9
0.21616332471316!3d26.029767626286922!2m3!1f0!2f0!3f0!3m2!1i1024!2i768!4f13.1!3m3
!1m2!1s0x374516c94c312d63%3A0xd11a73bb736719fb!2sAssam!5e0!3m2!1sen!2sin!4v168798
0573092!5m2!1sen!2sin" width="600" height="450" style="border:0;"
allowfullscreen="" loading="lazy" referrerpolicy="no-referrer-when-
downgrade"></iframe>
</body>
```

HTML Entities

* HTML Entities :-
Print reserve character like <div>
We can Print by name & number
Eg:-
By name → <div> result → <div>
By number → <div> result → <div>
(for others search in online)

HTML Symbols

```
<body>
  <!-- search in online -->
  <!-- example -->
  <p>&copy; Bwn Bsty</p>
</body>
```

Emoji in HTML

```
<body>
  <!-- search in online -->
  <!-- example -->
  <p style="font-size:100px">&#129409;</p>
  <p>I will display &#129409;</p>
</body>
```

Semantic Elements

```
<body>
  <!-- Elements with a meaning -->
  <!-- A semantic element clearly describes its meaning to both -->
  <!-- the browser and the developers. -->
  <!-- Example of non-semantic elements are -->
  <div></div>
  <span></span>
  <!-- div and span tells nothing about its content -->
  <!-- Example of semantic elements are -->
  <form action=""></form>
  <table></table>
  <article></article>
  <!-- clearly defines its content -->
</body>
```

New semantic elements in HTML

```
<body>
  <article></article>
```



```

<aside></aside>
<details></details>
<figcaption></figcaption>
<figure></figure>
<footer></footer>
<header></header>
<main></main>
<nav></nav>
<section></section>
<summary></summary>
<!-- both semantic and non semantic elements works well -->
<!-- you can go with any side -->
</body>

```

HTML Image Maps

```

<body>
  <!-- go to image imagemap.org -- html image map genetor -->
  
  <map name="workmap">
    <area shape="rect" coords="34,44,270,350" alt="Laptop"
href="https://www.amazon.in/s?k=laptop&rh=n%3A1375424031&ref=nb_sb_noss">
    <area shape="rect" coords="290,172,333,250" alt="smartphone"
href="https://www.amazon.in/s?k=smartphone">
    <area shape="circle" coords="337,300,44" alt="Coffee"
href="https://en.wikipedia.org/wiki/Coffee">
  </map>
</body>

```

HTML form

```

<body>
  <!-- Example -->
  <form action="">
    <div>
      Name : <input type="text">
    </div>
    <br>
    <div>
      <input type="submit">
    </div>
  </form>

```

```
</form>  
</body>
```

Form Input type

```
<body>  
  <form action="">  
    <input type="number"><br>  
    <input type="password"><br>  
    <input type="reset"><br>  
    <input type="email"><br>  
    <input type="date"><br>  
    <input type="time"><br>  
    <input type="url"><br>  
    <input type="hidden"><br>  
    <!-- range meh max aur min hoga -->  
    <input type="range" max="5" min="1"><br>  
    <input type="color"><br>  
    <!-- search online for more ... -->  
  </form>  
</body>
```

Form File Upload

```
<body>  
  <!-- use multiple -- for uploading multiple files -->  
  <form enctype="multipart/form-data">  
    <input type="file" multiple>  
  </form>  
</body>
```

HTML Input Attributes

```
<body>  
  <!-- value -->  
  <input type="submit" value="GO">  
  <input type="text" value="Bwn">  
  <input type="text" value="Bwn" readonly>  
  <input type="text" value="Bwn" disabled>
```

```

<!-- size -- no. of character visible -->
<input type="text" size="50">
<!-- maxlength -- no. of character u can enter -->
<input type="text" maxlength="10">
<!-- min max -->
<input type="number" min="1" max="10">
<!-- placeholder -->
<input type="text" placeholder="Enter your Name">
<!-- required -- must fill the box -->
<input type="text" required>
<!-- step -- no. of steps -->
<input type="number" step="10">
<!-- autofocus -- when refresh cursor automatically goes to box -->
<input type="text" autofocus>
<!-- name -- for backend (recieve data by name) -->
<input type="text" name="">
</body>

```

HTML Textarea

```

<body>
  <!-- Example -->
  <textarea cols="30" rows="10">Hi Dear </textarea>
  <textarea cols="20" rows="10" placeholder="Write Your Comment"></textarea>
</body>

```

HTML Form select option

```

<body>
  <!-- size -- no. of options to show -->
  <!-- value -- for database to store -->
  <!-- multiple -- for multiple select -->
  <!-- selected -- will show in box by default -->
  <!-- eg -->
  <form>
    <select size="1">
      <option value="">HTML</option>
      <option value="">CSS</option>
      <option value="" selected>JS</option>
      <option value="">Bootstrap</option>
      <option value="">React</option>
    </select>
  </form>

```

```

        <option value="">Jquery</option>
    </select>
</form>
<!-- optgroup -- for grouping options -->
<!-- It can be seen to user but cant select -->
<!-- eg -->
<optgroup>
    <option value="">python</option>
    <option value="">C</option>
    <option value="">C++</option>
    <option value="">Java</option>
</optgroup>
</body>

```

HTML Radio Button

```

<body>
    <!-- name is for grouping -->
    <!-- give name same for each option -->
    <!-- checked -- default select -->
    <!-- ex -->
    <form action="">
        <input type="radio" name="gender" value="male" checked>Male
        <input type="radio" name="gender" value="female">Female
        <input type="radio" name="gender" value="others">Others
    </form>
</body>

```

HTML Checkbox

```

<body>
    <!-- for multiple selection -->
    <!-- ex -->
    <form action="">
        <input type="checkbox" name="cars">BMW <br>
        <input type="checkbox" name="cars">Hyundai <br>
        <input type="checkbox" name="cars">Ford <br>
        <input type="checkbox" name="cars">Tata <br>
        <input type="checkbox" name="cars">Mahindra <br>
        <input type="checkbox" name="cars">Toyota <br>
        <input type="checkbox" name="cars">Mercedes Benz <br>
    </form>

```

```

        <input type="checkbox" name="cars">Tesla <br>
    </form>
</body>

```

HTML Datalist

```

<body>
    <!-- pre-define option/suggestions -->
    <!-- ex -->
    <!-- when we type A the suggestion appears -->
    <form action="">
        Search : <input type="text" list="search">
        <datalist id="search">
            <option value="Apple"></option>
            <option value="App"></option>
            <option value="Ant"></option>
            <option value="Antman"></option>
            <option value="Aeroplane"></option>
            <option value="Aerospace"></option>
        </datalist>
        <input type="submit" value="search">
    </form>
</body>

```

Label, Fieldset and Legend

```

<body>
    <!-- should use label for better user experience -->
    <!-- ex -->
    <!-- when click on FirstName it automatically goes to the box -->
    <form action="">
        <div>
            <label for="fname">FirstName</label>
            <input type="text" name="first_name" id="fname"><br>
        </div>
        <div>
            <input type="submit">
        </div>
    </form>
    <!-- fieldset and legend -->

```

```
<!-- Example -->
<form>
  <fieldset>
    <legend>Basic Info : </legend>
    <label for="f_name">FirstName</label>
    <input type="text" name="first_name" id="f_name">
    <label for="l_name">LastName</label>
    <input type="text" name="last_name" id="l_name">
  </fieldset>
  <fieldset>
    <legend>Other Info : </legend>
    <label for="adress">Address</label>
    <input type="text" id="adress">
    <label for="mobile">Mobile No.</label>
    <input type="text" id="mobile">
  </fieldset>
  <fieldset>
    <input type="submit">
  </fieldset>
</form>
</body>
```

SEO Tags

* SEO Tags :-

<head>
<title> Home Page </title>

^ (for title to show)

<meta name="description" content="This page is about car." />

→ (This is for description to show in front before user clicks it)

<meta name="Keywords" content=" " />

→ (To tell search engine the main main keywords of the Page.)

<link rel="canonical" href="car.html" />

→ (when you make two pages same, ~~googl~~ search engine doesn't accept that. To tell ^{search engine} googlen that this page & car.html are same)
 To ~~prevent duplicate p.~~

- meta name = "robots" content = "index, follow" />

↓ (To read Tell ~~search~~ browser to read this / or not / to put this in front page of search page / or not)

↓ (Tell search engine to read or not and ~~put~~ ^{save} in database)

↓ (to follow the links given in the page)

~~index~~ → there is also no index & no follow

</head>

logo
(along with HTML)

</head>

* Favicon : ^{/logo} (icon ~~are~~ along with title)

<head>

<link rel="icon" href=" " type=" " >

↓
location link of
image

</head>

To make icon perfect for all devices
go to favicon generator
and copy the link & paste in html
Also download the folder.

go to <https://realfavicongenerator.net>

* Favicon :- ~~is~~ ^{is} (icon ~~is~~ along with title)

<link rel="icon" href=" " type=" " >

</head>

To make icon perfect for all devices
go to favicon generator
and copy the link & paste in html
Also download the folder.

https://realfavicongenerator.net

Style in Head tag

* Style in Head Tag :-

```
<head>
  <style>
    body {
      background-color: blue;
    }
  </style>
</head>
```

OR

make new file style.css

```
<head>
  <link rel = "stylesheet" type = "text/css"
        href = "style.css" >
</head>
```

Script and no script

* Script and No script :-

we can write javascript in <script> </script>
or create a new file & add it

```
<head>
  <script src = " " > </script>
                        ↙
                        location
```

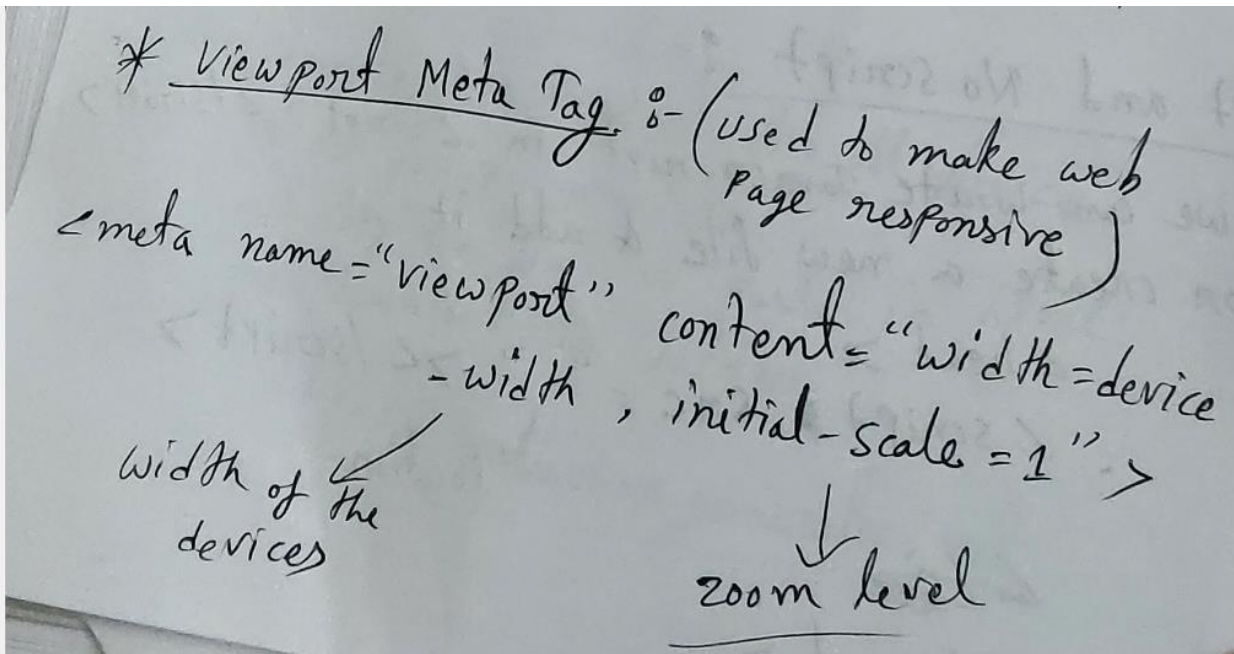
```
</script>
</head>
```

If ~~JavaScript~~ browser doesn't enable
JavaScript then
<noscript> please enable JavaScript!
</noscript>
↓
This message will show if for
any reason JS doesn't work in browser.

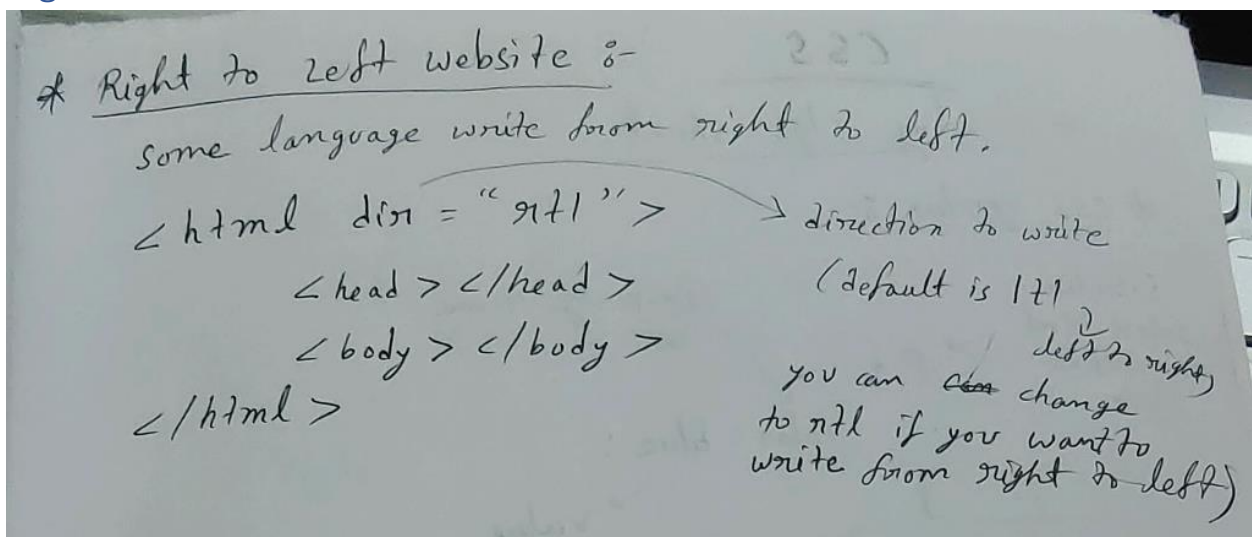
Open graph and twitter card tag

* open graph and Twitter card Tag :-
go to search open graph & Twitter card Tag
in google
and copy both ~~so~~ given codes
in ~~the~~ your html.
(It fetch as someone share in facebook,
instagram, twitter, etc)
you can changes contents as you wish to show
when shared.
open graph ~~for~~ for all & Twitter card for
only Twitter.

Viewport Meta tag



Right to left website



W3c html validation

* W3C HTML validation :-

W3C develop html & maintain^{it}, make rules,
provide tools.

<https://www.w3.org>

(To prevent error we check HTML validation)

go to ~~valida~~ W3C validation

→ Paste your code and check warnings & errors.

HTML language code

* HTML language code :-

Search ~~go to~~ html language & ~~see~~ copy the
lang code if you are writing in different language.
• Default is english.