

* HTML

HTML → Hyper Text Markup language.
Markup language use's Tag to identify content.

* **Structure** →
<html>

<head> ⇒ Non-visual element.
</head>

<body> ⇒ All visual structure
</body> element.

</html>

* **Headings** → Six levels of heading.
<h1>, <h2>, <h3>, <h4>, <h5>, <h6>.

To create horizontal line use <hr>.

Comments: <!-- -->

* **Paragraph** → <p> </p>

Single line break use

* **Formatting Elements**.

<p> Bold

<big> big

<i> italic

<small> small

 Strong

<sub> Subscripted

<sup> Superscripted

<ins> inserted

 deleted

★ **Attribute's** → (additional information)

Ex: `< p align = "center" > </p>`

Attribute measurement: `< h1 width = "50px" />`

★ ** Tag** →

`<img src = "img.jpg" />`

↳ image's URL (address)

Image location →

`<img src = "tree.jpg" alt = " " />`

Image Resizing →

`<img src = "tree.jpg" height = "150 px" width = "150 px" alt = " " />`

Image border →

`<img src = "tree.jpg" height = "150 px" width = "150 px" border = "1 px" alt = " " />`

★ **Table**

`<table>`

`<tr>`

`<td> </td>`

`</tr>`

`</table>`

i) Border: `<table border = " " >`

ii) Colspan: `<td> <br /> <td>`

`<td colspan = "2" > <br />`
↳ to span column

iii) Align: `<table align = "center" >`

iv) bgcolor: `<td bgcolor = "red" > </td>`

* List :->

1) ordered list :-> `<ol>`
`<li>`
`</ol>`

2) unordered list :-> `<ul>`
`<li>`
`</ul>`

* link's :-> `<a href = " " >` `</a>`

Ex; `<a href = "http://www.sololearn.com">` m `</a>`
 button on which ↑ link open ↙

* Types of Element :->

1) Block level element :-> start from new line
 Ex; `<h1>`, `<form>`, `<li>`, `<ol>`, `<ul>`, `<p>`,
`<div>`, `<table>`, etc.

2) Incline element :-> display without line break. Ex; `<b>`, `<a>`, `<strong>`, `<img>`,
`<em>`, `<span>`, etc.

Ex; `<html>`

`<body>`

`<h1>` Mahesh `</h1>`

`<div style = "background-color: green`
`; color: white; padding: 20px;">`

`</div>`

`</body>`

`</html>`

```

<html>
  <body>
    <h2> Some
      <span style = "color: red">
        Important </span>
      Message </h2>
    </body>
  </html>

```

★ **<Form> element:-** Collect information from user. (Action) = To point to a web page
 <Form action = "http://...com">

Method & Name =

<Form action = "url" method = "GET">

<Form action = "url" method = "Post">

Data visible in web page

→ include sensitive information (password)

i) Text

ii) Password

iii) Radio → one of number of choices.

iv) Checkbox → more than one option

v) Submit → Submit a form

All these attribution comes under the <input> element.

<form>

<input

</form>

★ **Colours:-** HTML Colours are expressed as hexadecimal value's.

0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F

Colour value's:-

FF0000 Red

00FF00 Green

0000FF Blue

000000 Black

777777 Grey

FFFFFFFF White

★ **<Frame>**

<Frame set cols = "100, 25%", *"> </Frame set>

<noresize> => To specify that user cannot
resize a (frame)

* All HTML TAG :->

*	<!--	Comment	✓
+	<a	anchor	✓ <a href="http://
X		bold	✓
X	<big>	big (Text)	✓
	<body>	body of html document	✓
	 	line break	✓
	<center>	Center	✓
	<dd>	definition description	
	<dl>	definition list	
	<dt>	definition term	
		emphasis	
	<embed>	embed object	
		font	
	<form>	form	
X	<h>	heading	✓
	<head>	head	✓
	<hr>	horizontal rule	✓
	<html>	HTML	✓
X	<i>	italic	✓
X		image	✓
X	<input>	input field	✓ <form <input>> </form>
X		list item	✓
X	<link>	link	
*	<marquee>	Scrolling text	✓
	<menu>	menu	
	<meta>		
X		ordered list	✓
	<option>	listbox option	✓

* All HTML TAG:→

	<!--	Comment	✓
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	<body>	body of html document	✓
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	<center>	Center	✓
	<dd>	definition description	
	<dl>	definition list	
	<dt>	definition term	
		emphasis	
	<embed>	embed object	
		font	
	<form>	form	
X	<h>	heading	✓
	<head>	head	✓
	<hr>	horizontal rule	✓
	<html>	HTML	✓
X	<i>	italic	✓
X		image	✓
X	<input>	input field	✓
X		list item	✓
X	<link>	links	✓
*	<marquee>	Scrolling text	✓
	<menu>	menu	
	<meta>		
X		ordered list	✓
	<option>	listbox option	✓

X	<p>	Paragraph	✓
X	<small>	Small (text)	✓
		deleted text	
X		Strong emphasis	✓
X	<table>	table	✓
X	<td>	table data	✓
	<th>	table header	
X	<tr>	table row	✓
	<title>	title	✓
	<tt>	teletype	
-	<u>	underline	✓
X		unordered list	✓

HTML-5

Page No.

Date: | |

* New element's in HTML5:->

<article>, <aside>, <audio>, <canvas>, <datalist>, <video> and more.

* <Form> are updated.

* List of Content model

1] Metadata -> Content that set up behaviour of rest of the setup. (head of the document)
Ex, <base>, <link>, <meta>, <style>, <title>.

2] Embedded -> Content that import other resource into the document.

Ex, <audio>, <video>, <canvas>, , <math>.

3] Interactive -> Content specifically intended for user interaction.

Ex, <a>, <audio>, <canvas>, <video>, <button>.

4] Heading :-> <h1> <h6>

5] Phrasing :-> , ,
, <small>

6] Flow :-> Contain all the element

7] Sectioning :-> the scope of heading, content navigation and footer.

* Page Structure in HTML 5

<Header>

<nav>

<article>

<aside>

<section>

<footer>

1) <Header> element

<div id="header"> in HTML 4

<header> in HTML 5

2) <Footer> element => at the bottom of web page to show the given information
Contact info, Privacy policy, Social media links, Copyright, etc.

3) <nav> element => link's to other page.

<nav>

M

</nav>

4) <article> element

<article>

<h2> M </h2>

</article>

5) <section> element

<article>

<Section>

<h1> ... </h1>

</section>

</article>

6) <aside> element → side bar

★ Audio →

1) <audio src="audio.mp3" controls>

</audio>

2) <audio controls>

<source src="audio.mp3" type="audio/mpeg">

</audio>

Attributes:

Control: display's play/pause button

autoplay: audio play without permission

loop: repeat

★ Video →

<video controls>

<source src="video.mp4" type="video/mp4">

</video>

★ Progress Bar →

Status: <progress min="0" max="100" value="35"> </progress>

output: Status: 

Date: | |)

* SVG :- Scalable Vector Graphics
used to draw shapes with HTML markup

1) Image: ``

2) Drawing a circle:

```
<svg width="1000" height="1000" <del>/svg</del>
  <circle cx="80" cy="80" r="50"
    fill="green" /> </svg>
```

3) Drawing a rectangle:

```
<svg width="2000" height="1000"
  <rect width="300" height="100"
    x="20" y="20" fill="red" />
</svg>
```

4) Drawing a line:

```
<svg width="400" height="420" >
  <line x1=" " y1=" " x2=" " y2=" "
    style="stroke:#000000; stroke-linecap:round;
    stroke-width=20" />
</svg>
```

5) ellipse: `<ellipse cx=" " cy=" " rx=" " ry=" " />`

* Shape Animation

<svg> <animate>

```
<animate attribute name="x or y"
  from="0" to="300" dur="3s"
  fill="freeze" repeatcount="2" />
</svg>
```

★ Canvas ★ { Learn about Javascript }

```
<Canvas id="Canvas1" width="200"
height="100"></Canvas>
```

★ Form's ★

```
<Form>
```

```
<label> - - - </label>
```

```
<input id=" " name=" " type=" " />
```

```
</form>
```

placeholder:

```
<form>
```

```
<label for="email">Your e-mail</label>
```

```
<input type="text" name="email"
```

```
placeholder="email@example.com" />
```

```
</form>
```

autofocus: makes desired input focus.

Required: make input element required.

```
<form>
```

```
<label for="e-mail">Email address</label>
```

```
<input name="email" type="text" required />
```

```
<input type="Submit" value="Submit" />
```

```
</form>
```

★ HTML 5 added new input types!

⇒ color, date, datetime, datetime-local, email, month, number, range, search, tel, time, url, week.

* New input attribute's in HTML-5:
autofocus, form, formaction, formenctype,
formmethod, formnovalidate, formtarget,
height & width, list, min & max,
multiple, pattern, placeholder, required,
step.

> * All Html-5 tag's *

<abbr> abbreviated

<address> Contact information

<area> specific area within image map.

<article>

<aside>

<audio>

<base> the base URL for all relative URLs

<bdi> text that is isolated from its surround

<bdo> override current text direction.

<blockquote> quoted from another source.

<button>

<canvas>

<caption> title of the table

<cite> reference to another source.

<code> text as computer code.

<col> defines attribute value for column in table

<colgroup> specifies attribute for multiple column.

<data> link's a piece of content with machine readable translation.

<datalist> Represent a set of pre-defined option for <input> element.