

HTML

• Web Components

1. Website
2. Web page
3. Web browser

HTML INTRODUCTION

- Html is a markup language for describing web documents.
- Html stands for hyper text markup language.
- A markup language is a set of markup tags.
- Each html tags describe different documents content.

Version

Year

Html	1991
Html 2.0	1995
Html 3.0	1997
Html4.1	1999
Xhtml	2000
xhtml5	2014

Editors

1. Notepad
2. Notepad ++
3. Dreamweaver
4. Netbean
5. Ms front page

6. Sublime

STRUCTURE

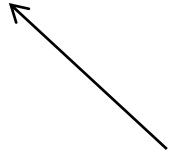
<html>

<head>

<title>Google</title>



Opening tag



closing tag

</head>

<body>

Content

</body>

</html>

Tags

Heading tag

1. <h1>36px</h1>
2. <h2>26px</h2>
3. <h3>24px</h3>
4. <h4>16px</h4>
5. <h5>12px</h5>
6. <h6>10px</h6>

FORMATING TAG

1. bold
2. <u>underline</u>
3. <i>italic</i>
4. _{subscript}

5. ^{superscript}
6. <strike>strikethrough</strike>
7. <p>paragraph</p>
8. <mark>mark</mark>
9. <small>small</small>
10. delete
11. <ins>insert</ins>
12. <hr> horizontal rule
13.
 line break
14. For Spacing

Image tag

Html images are defined with the tag. The source file (src), alternative text (alt), and size (height and width) are properties or attributes.

Example:-

```

```

Attributes (properties)

- Src (source)
- Width
- Height
- Alt

Body Attributes

1. Background color=bgcolor
2. Image=Background
3. Text color=text

Example:-

```
<body bgcolor="color name"  
      Background="image path"  
      Text="color name">
```

Font tag

Syntax:-

``

Attributes:-

- I. Size
- II. Color
- III. Face

`this is font tag`

Link Tag

Link are found in nearly all web page .links allow users to click their way from page to page.

Syntax:-

`link text`

Attributes:-

- Href(page path)
- Target(new or blank)

List tag

Ordered list:-

1. Html
2. Css
3. Js

Unordered list:-

1. Html
2. Css

3. Js

Two types of list:-

1.unordered list:-An unordered list starts with the tag.

Example:-

```
<ul>
```

```
<li>coffee</li>
```

```
<li>tea</li>
```

```
<li>milk</li>
```

```
</ul>
```

2. Ordered list:- An ordered list start with the tag. Each list item starts with thetag.

Example:-

```
<ol>
```

```
<li>coffee</li>
```

```
<li>tea</li>
```

```
<li>milk</li>
```

```
</ol>
```

Attribute:-

I. Type

II. Start

Syntax:-

```
<ol type="A">
```

```
<ul type="circle /square/disc">
```

Multilevel List

```
<ol>
```

```
</li>html</li>
<ol type="o">
  <li>formatting</li>
  <li>image</li>
  <li>link</li>
</ol>
<ul>
  <li>href</li>
  <ol>
  <li>css</li>
</ol>
</ul>
```

Description Lists

A description list is a list of terms, with a description of each term.

The `<dl>` tag defines the description list, the `<dt>` tag defines the term (name), and the `<dd>` tag describes each term:

Example:-

```
<dl>
  <dt>Coffee</dt>
  <dd>- black hot drink</dd>
  <dt>Milk</dt>
  <dd>- white cold drink</dd>
</dl>
```

Tables

The `<table>` tag defines an HTML table.

Each table row is defined with a `<tr>` tag. Each table header is defined with a `<th>` tag. Each table data/cell is defined with a `<td>` tag.

- By default, the text in `<th>` elements are bold and centered.
- By default, the text in `<td>` elements are regular and left-aligned.

Example:-

```
<table width= "100%" border="3px">
  <tr>
    <th>Firstname</th>
    <th>Lastname</th>
    <th>Age</th>
  </tr>
  <tr>
    <td>Jill</td>
    <td>Smith</td>
    <td>50</td>
  </tr>
  <tr>
    <td>Eve</td>
```

```
        <td>Jackson</td>
        <td>94</td>
    </tr>
</table>
```

Attributes:-

- Border
- Width
- Colspan (To make a cell span more than one column, use the **colspan** attribute:)

Ex :-

```
<table border="3px">
<tr>
    <th>Name</th>
    <th colspan="2">Telephone</th>
</tr>
<tr>
    <td>Bill Gates</td>
    <td>55577854</td>
    <td>55577855</td>
</tr>
</table>
```

- Rowspan (To make a cell span more than one row, use the **rowspan** attribute:)

Ex :-

```
<table border="3px">
<tr>
    <th>Name:</th>
    <td>Bill Gates</td>
</tr>
<tr>
    <th rowspan="2">Telephone:</th>
    <td>55577854</td>
</tr>
<tr>
```



```
<td>55577855</td>
</tr>
</table>
```

- **Caption**

the HTML `<caption>` element to define a table caption

- **Cellspacing** (Cell spacing specifies the space outside the cell and its borders.

To set the spacing, use the CSS `spacing` property:

`spacing= "15px")`

- **Cellpadding** (Cell padding specifies the space between the cell content and its borders.

To set the padding, use the CSS `padding` property:

`Padding= "15px")`

Forms

An HTML form is used to collect user input. The user input is most often sent to a server for processing.

- **<form>**

The HTML `<form>` element is used to create an HTML form for user input

● <input>

- ❖ The HTML <input> element is the most used form element.
- ❖ An <input> element can be displayed in many ways, depending on the type attribute.

Here are the different input types :

- 1) <input type="button">
- 2) <input type="checkbox">
- 3) <input type="color">
- 4) <input type="date">
- 5) <input type="email">
- 6) <input type="file">
- 7) <input type="month">
- 8) <input type="number">
- 9) <input type="password">
- 10) <input type="radio">
- 11) <input type="range">
- 12) <input type="reset">
- 13) <input type="submit">
- 14) <input type="text">
- 15) <input type="time">

● Attribute :-

- ✓ Readonly
- ✓ Disabled
- ✓ Required
- ✓ Value
- ✓ Max
- ✓ Min
- ✓ Maxlength

- ✓ Minlength
- ✓ Placeholder

● <select>

The **<select>** element defines a drop-down list:

```
<select multiple >
  <option value="volvo">Volvo</option>
  <option value="saab">Saab</option>
  <option value="fiat">Fiat</option>
  <option value="audi">Audi</option>
</select>
```

Use the **multiple** attribute to allow the user to select more than one value:

● <textarea>

The **<textarea>** element defines a multi-line input field (a text area):

```
<textarea rows="10" cols="30"></textarea>
```

The **rows** attribute specifies the visible number of lines in a text area.

The **cols** attribute specifies the visible width of a text area.

● <fieldset> and <legend>

- The **<fieldset>** element is used to group related data in a form.
- The **<legend>** element defines a caption for the **<fieldset>** element.

```
<form>
  <fieldset>
    <legend>Personalia:</legend>
    <input type="text" placeholder="fname" >
    <input type="text" placeholder="lname" >
    <input type="submit" value="Submit">
  </fieldset>
</form>
```

● <datalist>

- The <datalist> element specifies a list of pre-defined options for an <input> element.
- Users will see a drop-down list of the pre-defined options as they input data.
- The list attribute of the <input> element, must refer to the id attribute of the <datalist> element.

Example:-

```
<input list="browsers">  
  <datalist id="browsers">  
    <option value="Internet Explorer">  
    <option value="Firefox">  
    <option value="Chrome">  
    <option value="Opera">  
    <option value="Safari">  
  </datalist>
```

➤ <audio>

To play an audio file in HTML, use the <audio> element:

1. `<audio src="horse.mp3" controls>`
Your browser does not support the audio element.
`</audio>`

- II. `<audio controls>`
 `<source src="horse.mp3">`
Your browser does not support the audio element.
`</audio>`

➤ Video

The HTML `<video>` element is used to show a video on a web page.

- I. `<video width="320" height="240" controls>`
 `<source src="movie.mp4" type="video/mp4">`
 `<source src="movie.ogg" type="video/ogg">`
Your browser does not support the video tag.
`</video>`
- II. `<video src="movie.mp4" width="320" height="240" controls>`
Your browser does not support the video tag.
`</video>`

➤ Marquee

The `<marquee>` tag is a container tag of HTML is implemented for creating scrollable text or images within a web page from either left to right or vice versa, or top to bottom.

```
<marquee width="60%" direction="up" height="100px">
```

This is a sample scrolling text that has scrolls in the upper direction.

```
</marquee>
```

• Attributes

✓ Direction (up , down , right , left)

- ✓ Height
- ✓ Width
- ✓ Behaviour (alternate , scroll)
- ✓ Scrollamount (speed)

➤ <iframe>

The <iframe> tag specifies an inline frame.

An inline frame is used to embed another document within the current HTML document.

```
<iframe src="https://www.dusol.com" height="150px"
width="150px"></iframe>
```

➤ Icon In Title Bar

```
<head>
<link rel = "icon" type = "image/x-icon" href= "image path">
<title> Instagram </title>
</head>
```

BE SAFE AND KEEP PRACTICING

Yogesh Kumar Taneja

-Web Designer

Yogesh