

CHAPTER-1

Introduction to HTML

STATIC VS. DYNAMIC WEB PAGE

- WHAT IS **STATIC WEB PAGE DEVELOPMENT**?
 - STATIC means **“CONSTANT”**
 - WEB PAGE which remains unchanged
- WHAT IS **DYNAMIC WEB PAGE DEVELOPMENT**?
 - DYNAMIC means **“CHANGING”**
 - WEBPAGE WHICH CHANGES

WHAT IS HTML??

- Hyper Text Markup Language
- Used to create web pages
- Standard html-static web pages
- Contains Hyper Text (text, image or link)
- Markup language (tags) defines how web page will be displayed

STRUCTURE OF HTML

`<html>` **Define start & end of document**

`<head>` **Header section of HTML page (javascript, styles, meta etc.)**

`<title>give any title</title>` **Title of HTML document**

`</head>`

`<body>` **Main part which defines what should be displayed on the browser**

 web page code

`</body>`

`</html>`

BASIC TAGS OF HTML

- Paragraph Tag: `<p>..</p>`
- Header Tags: `<h1>..</h1> to <h6>..</h6>`
- Bold Text: ``
- Italic Text: `<i></i>`
- Underlined Text: `<u></u>`
- Horizontal Rule: `<hr/>`
- Align text to center: `<center></center>`
- Scroll text horizontally or vertically: `<marquee></marquee>`
- Display link (Anchor Tag): `name of link`
- Embed audio and video on web page: `<embed src="path"/>`

There are many more tags which we will be seen as and when needed in the program.

IMAGE IN HTML

- `` tag is used to display image on web page.
- Example:

```

```

LIST IN HTML

- **2 types of lists are available in HTML:**
 - ORDERED LIST
 - UNORDERED LIST
- **ORDERED LIST:**
 - Tag used: ``
 - ``: used to display list item
 - Type: 1,i,l,A,a
 - Reversed: descending list
 - Start: specifies initial number of list

LIST IN HTML

- **ORDERED LIST:**

- Example:

```
<ol type="1" reversed start=5>
```

```
<li>vadodara</li>
```

```
<li>surat</li>
```

```
<li>rajkot</li>
```

```
</ol>
```


LIST IN HTML

- **UNORDERED LIST:**

- Tag used:
- : used to display list item
- Type: disc, square, circle
- Example:

```
<ul type="square" >  
    <li>vadodara</li>  
    <li>surat</li>  
    <li>rajkot</li>  
</ul>
```

TABLE IN HTML

- **<table>** : used to display table on web page.
- **<tr>**: table row
- **<th>** : table header
- **<td>** : table data
- Main Attributes:
 - **Width**: width of the table
 - **Border**: border of the table
 - **Bgcolor**: background color of the table
 - **Rowspan**: merge rows
 - **Colspan**: merge columns

DIVISION IN HTML

- **<div>**: used to create division or section on web page
- Example:

```
<div>
```

```
    <p>division 1</p>
```

```
</div>
```

```
<div>
```

```
    <p>division 2</p>
```

```
</div>
```

SPECIAL CHARACTERS

Sr. No.	Result	Description	Entity Name
1		non-breaking space	
2	<	less than	<
3	>	greater than	>
4	&	ampersand	&
5	¢	cent	¢
6	£	pound	£
7	¥	yen	¥
8	€	euro	€
9	©	copyright	©
10	®	registered trademark	®

HTML 4.0 VS. HTML 5.0

HTML 4.0

- Common structure
- flash player is used to embed audio-video
- inaccurate syntax cannot handled
- works with all browsers

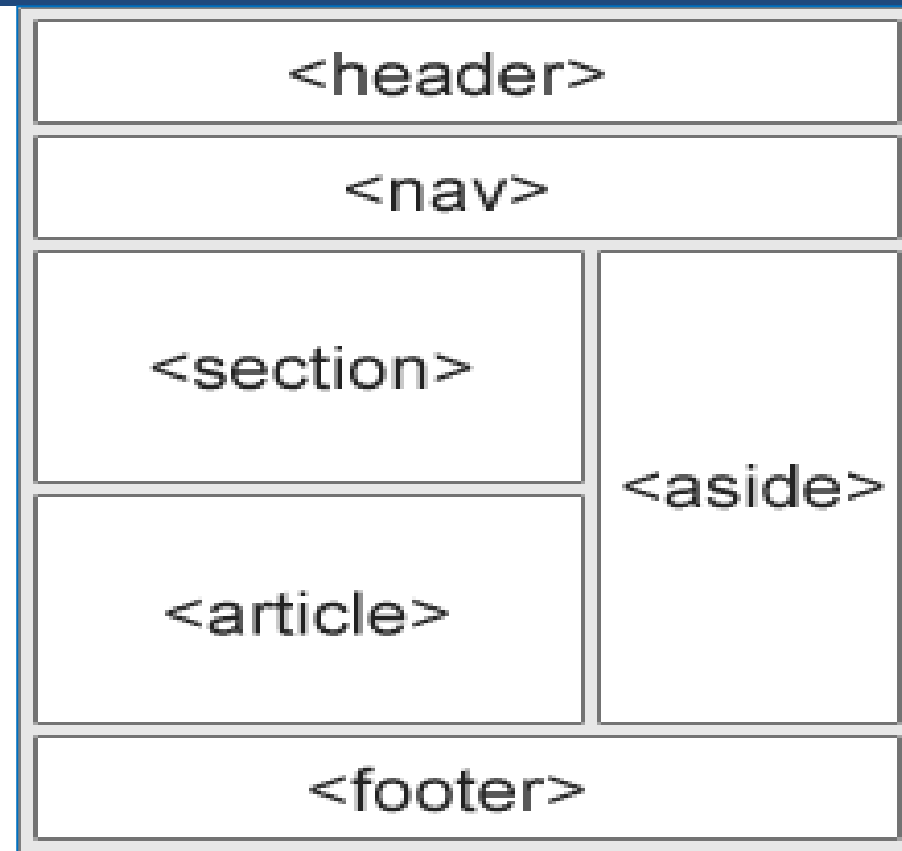
VS

HTML 5.0

- New structure
- <audio>, <video> tag is used to embed audio-video
- inaccurate syntax can handled
- works with few browsers

HTML 5.0

- Structure of HTML 5.0
- Header
 - Generally used for Headings
- Nav
 - Used for Navigation Links
- Section
 - Main content of webpage
- Aside
 - Used to show extra information
- Article
 - New entry or news related information
- Footer
 - Contact us, copyright information



AUDIO AND VIDEO IN HTML5

- **<audio>**: used to embed audio on web page
- **<video>**: used to embed video on web page
- Main Attributes:
 - Src: source of audio or video
 - Autoplay: used to auto play video or audio
 - Type: specifies type
 - Controls: specifies the related content should be displayed

AUDIO AND VIDEO IN HTML5

- **<audio> example:**

```
<audio controls autoplay>
```

```
<source src="horse.ogg" type="audio/ogg">
```

Your browser does not support the audio tag.

```
</audio>
```

- **<video> example:**

```
<video controls autoplay>
```

```
<source src="hello.mp4" type="audio/mp4">
```

Your browser does not support the video tag.

```
</video>
```


FORMS IN HTML

- **<form>** tag is used to get inputs from user.
- It contains input elements like text, radio button, textarea, submit buttons etc.
- **Attributes:**
 - Name
 - Method
 - Action
- **<input>** tag is used to display different input type elements on web page.
- **Example:** `<form name="f" method="post" action="#"><input type="text"/></form>`

HTML5 FORM INPUT TYPES

- **Number:** `<input type="number" name="quantity" min="1" max="5">`
- **Date:** `<input type="date" name="bday">`
- **Color:** `<input type="color" name="favcolor">`
- **Range:** `<input type="range" name="points" min="0" max="10">`
- **Month:** `<input type="month" name="bdaymonth">`
- **Week:** `<input type="week" name="week_year">`
- **Time:** `<input type="time" name="usr_time">`

HTML5 FORM INPUT TYPES

- **Datetime:** `<input type="datetime" name="bdaytime">`
- **Datetime-local:** `<input type="datetime-local" name="bdaytime">`
- **Email:** `<input type="email" name="email">`
- **Search:** `<input type="search" name="googlesearch">`
- **Tel:** `<input type="tel" name="usrtel">`
- **url:** `<input type="url" name="homepage">`

DATALIST

- **<datalist>** tag is used to display dropdown list of already defined options.
- **Example:**

```
<input list="cars" name="cars">  
<datalist id="cars">  
  <option value="Baleno">  
  <option value="Duster">  
  <option value="i10">  
  <option value="i20">  
</datalist>
```

KEYGEN

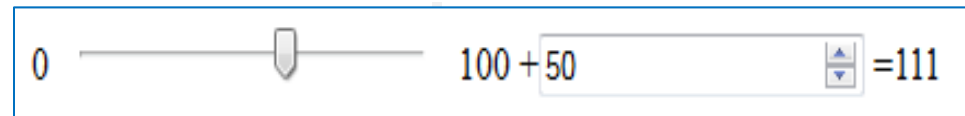
- **<keygen>**: used for authentication purpose
- It generates **encryption key** public and private.
- **Private key** is stored in user's storage locally.
- **Public key** is sent to the server which will be used to authenticate user.
- **Syntax**: `<keygen name="encrypt">`

OUTPUT

- **<output>** tag is used for calculation.
- For example: sum, sub etc.

```
<form oninput="x.value=parseInt(a.value)+parseInt(b.value)">  
  0  
  <input type="range" id="a" value="50">  
  100+  
  <input type="number" id="b" value="50">  
  =  
  <output name="x" for="a b"></output>
```

- **Name:** name of output element
- **For:** id of element used for calculation



0 100+ =111