

(HTML Lecture.1)

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Web Engineering  
(HTML Lecture.1)

### Introduction to HTML

- HTML Stands for Hyper Text Markup Language. <sup>text with a link.</sup> <sup>used to make text more interactive and dynamic.</sup>
- Used to develop web pages.
- Created by Berners-Lee in late 1991. <sup>paragraph</sup>

< > — </ >

Platform independent  
Add multimedia  
Graphics Video Audio.

defines document type

First HTML Example

```
<!DOCTYPE> a.html  
<html> → web document  
<body> → content of web page.  
<h1> EEC classes </h1>  
<p> HTML Tutorial </p>  
</body>  
</html>
```

heading

Easy and Simple lang.  
markup lang. it gives flexibility in designing web pages.  
add link on pages

Features of HTML

(HTML Lecture-2)

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### Web Engineering - HTML Lecture. 2

#### HTML Tags

Contains three main parts  
<p>  
</p>

#### Basic Syntax:

<tag> Content </tag>  
opening closing

<html>  
=  
=  
=  
</html>

opening tag  
Content  
closing tag

Imp (SEO) k.w  
meta < descr.

Tag	Description
<!DOCTYPE>	document type and html version.
<HTML>	contains html document
<Head>	document's header <title>, <link>
<title>	document title
<body>	Content of the Web Page. <h1...>, <b> <p> - - -
<h1...h6>	Heading
<p>.....	paragraph.

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## Web Engineering- HTML Lecture.3 [HTML Lists]

Lists are used to display list of information.

## Features

$$\begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix} \text{ lists.}$$

### Ordered/Numbered list

### Unordered/Bulleted List

### Description/Definition List

, - 

<미>

<li> HTML </li>

```
<li>css</li>
```

<101>

o/p: 1. HTML a. HTML  
2. CSS b. CSS



$\langle 01 \text{ type} = "a" \rangle$

<ol type="I" start="5">

6. HTML  
CSS

`<ul>`, `<li>`

 $\langle u \rangle$ 

< Li > HTML < / Li >

<li> CSS </li>

 $\langle 1 \text{ all} \rangle$ 

O/p:-

- HTML
- CSS
- ↳ marker

```
<ul type="square">
```

5

"disc"

"circle"

$\langle dl \rangle, \langle dt \rangle, \langle dd \rangle$

 $\langle d \rangle$ 

<dt> HTML </dt>

<dd> Web Prog. Lang </dd>

<dt>css</dt>

`<dd>` styling lang `<idd>`

 $\langle 122 \rangle$ 

012:

o/p:-

- HTML
  - Web Prog. lang
- terms
  - CSS
    - Styling lang

terms

CSS

- styling lang

(HTML Lecture. 4)

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Web Engineering- HTML Lecture. 4 [HTML Tables]  
display data in tabular form

Table Example

`<table>`, `<tr>`, `<td>`

`<body>`

`<table border="1">`

`<tr>`

`<td> HTML </td>`

`<td> CSS </td>`

`<td> JavaScript </td>`

`</tr>`

`<tr><td>... </td> </tr>`

`</table>`

`</body>`

table  
headers

Col1	2	3
Html	CSS	Javascript

`<tr>`

`<th> Col2 </th>`

`<th> Col2 </th>`

`<th> Col3 </th>`

`</tr>`

`<th>` Cellpadding and  
Cellspacing. → dis blw  
width of the  
border and Content  
of cell.

cellpadding.

row1 `<table cellpadding="5">`

row2 `cellspacing="4">`

Colspan, Rowspan

merges the merge  
columns the rows.

(HTML Lecture.5)

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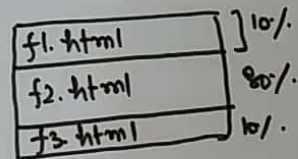
(Web Engineering-HTML Lecture.5) [HTML Frames]

- Frames are used to divide your browser window into multiple sections.
- Each section can load a separate HTML document.
- Collection of Frames = Frameset



Example to Create Frames

```
<html>
<head> ... </head>
<frameset cols="10%, 80%, 10%">
  <frame name="f1" src="f1.html" />
  <frame name="f2" src="f2.html" />
  ...
</frameset>
</html>
```



(HTML lecture 5)

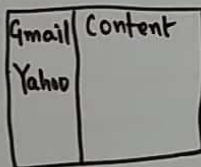
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### Creating Navigation Menu using HTML Frames.

A.html

```
<frameset cols="20%,80%">
<frame src="Menu.html"
  name="menu">
<frame src="Content.html"
  name="Content">
</frameset>
```



Menu.html

```
<body>
<a href="http://www.gmail.
com" target="Content">
  Gmail </a>
<a href="http://www.yahoo.
com" target="Content">
  Yahoo </a>
</body>
```

Content.html

```
<body>
<h1> Content
  Area </h1>
</body>
```





(HTML Lecture. 6)

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### Web Engineering- HTML Lecture. 6 [HTML Forms] HTML Form Tags

Section of document which contains various controls such as — text fields  
password fields  
checkbox  
Button ... etc.

HTML Form Syntax:

```
<form action = "server page url"  
method = "get/post">
```

```
//input form control  
text field,  
textarea.  
</form>
```

Tag	Description
<form>	defines HTML form to enter i/p
<input>	defines input control
<textarea>	defines multi-line i/p control.
<label>	Passive Element.
<fieldset>	Group relative elements
<legend>	Caption of fieldset
<select>	Drop-down list
<optgroup>	related options in drop-down list
<option>	option in dropdown list
<button>	clickable button.

(HTML Form.6)

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Example of Creating HTML Forms and fieldset.

```
<form>
<fieldset><legend>Personal Information</legend>
<br>First Name: <input type="text"
name="fname"><br>
<input type="email" name="email">
<input type="radio" name="gender"
value="Male" checked> Male
<input type="radio" name="gender"
value="female"> Female
</fieldset>
<fieldset><legend>Address Data</legend>
<select name="Country"><option Value="India">
India </option>
```

Personal Information

First Name:

Last Name:

Email:

Gender: ☒ Male ☐ Female

Address Data

Complete Postal Address.

Select Country

Submit



(HTML Lecture.7)

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(Web Engineering - HTML Lecture.7) [XHTML]

### XHTML

- ↳ Stands for Extensible Hyper Text Markup Language.
- Similar to HTML
- More strict than HTML

### Major Differences from HTML

- i) DOCTYPE is mandatory.
- ii) `<html>`, `<head>`, `<title>` and `<body>` are mandatory.
- iii) Elements must be properly nested and always be closed. `<title> _____ </title>`  
`<body> _____ </body>`
- iv) lowercase, one root element.

### Steps to Convert from HTML to XHTML

- i) Add XHTML `<!DOCTYPE>` to the first line of every page.
- ii) Add `xmlns` attribute to `html` element
- iii) Change all element name to lowercase.
- iv) Close all elements
- v) Change all attribute names to lowercase.

(Html Lecture. 8)

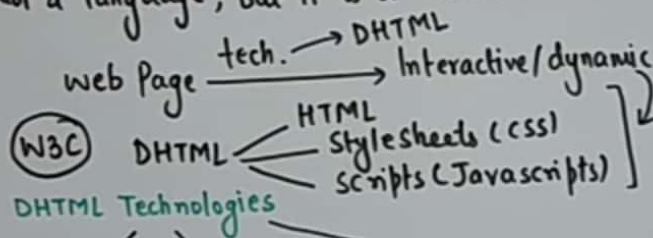
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(Web Engineering- Html Lecture.8)[DHTML]

DHTML stands for Dynamic HTML.

Not a language, but it is a Web Standard.



W3C DHTML Technologies

HTML Javascript CSS

→ HTML DOM ] document object model

→ HTML Events