



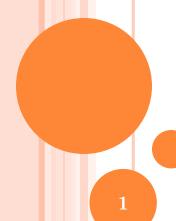
1. ADVANCED WEB DESIGN

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- Introduction to HTML5
- Forms in HTML5
- Cascading Style sheets
- Lists in HTML5
- Inserting video, audio
- Image map in HTML5
- Inline Frame
- Website Hosting

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WEB COMPONENTS

- Webpage: A simple text file created using HTML.
- Website: A collection of interlinked web pages containing text, images, audio and videos. For Example, <u>www.</u> ebalbharati.in
- Web Browser: A web browser is a software used to view web pages or websites available on the internet For Example Internet Explorer, Google chrome.
- Web Server: A Web server is an application or a computer that sends webpages over the internet using the HTTP protocol. For Example Apache, nginx, IIS, etc..
- URL(Uniform Resource Locator): It is an address of a web page on the internet.
- HTTP: HTTP (HyperText Transfer Protocol) is a protocol used by WWW for client server communication.
- HTML: Hyper Text Markup language





Introduction to HTML5

- HTML5 is the latest and most enhanced version of HTML
- It makes your website layout clearer to both website designers and users
- Browsers support 's features of HTML5 : Google Chrome, Mozilla Firefox, Microsoft Edge, Safari, Opera and Apple.





BASIC STRUCTURE OF HTML5

- <html> and </html> : indicates that the document is an html file.
- <head> and </head>: It includes <Title> within it, the text within <head> is not displayed on the webpage. This is used for search engine optimization.
- <title> and </title> : The content within this displayed on the title bar.
- <body> and </body> : This tag includes all content which is to be developed in the web browser. Most of the tags are included in this tag.





BASIC STRUCTURE OF HTML5

□An attribute: An attribute defines a property for an element, consists of an attribute/value, and appears within the element's start tag.

Execute Here





<header>

Defines a header for a document section.

<nav>

Defines a container for navigation links.

<section>

Defines a section in a document

<article>

Defines an independent self-contained article.

<aside>

Defines content apart from the content (like a sidebar).

<footer>

Defines a footer for a document or a section.

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FORMS IN HTML5

- Forms in HTML is used to accept user input.
- Form controls are used to collect different kinds of user inputs, such as contact details like name, address, single or multiple options from group of options, as well as clearing and submitting data etc.

Attributes used with form element and Input element.

- Name: It specifies a name to a form.
- Action: The action attribute specifies the path where the form is to be submitted.
- Method: The method attribute specifies get or post method to be used when submitting the form data. Method of form are GET or POST.
- i) GET method: GET method will pass the values via URL, Passed values will be seen in Address bar.
- ii) POST Method: POST method will pass the values via HTTP request.

Passed values not seen in Address bar. So it is a secure method to submit sensitive





FORMS IN HTML5

Input type	Description
<input type="color"/>	Defines a color picker
<input type="number"/>	Defines a field for entering a number
<input type="url"/>	Defines a field for entering a URL.
<input type="image"/>	Defines an image as a submit button.
<input type="date"/>	Defines a date picker with the year, month and day
<input type="email"/>	Defines a field for an e-mail address

Click to execute





```
<form >
 <h1>Some form elements</h1>
         Select your favorite color <input type="color" >
      <br>
      Enter your phone Number <input type="Number" >
      <hr>
      <label for="homepage">Add your homepage:</label>
        <input type="url" id="homepage" name="homepage">
      <br>
        <input type="image" src="happy.jpg" alt="Submit" width="100" height="100">
      <hr>
      <label for="birthday">Birthday:</label>
        <input type="date" id="birthday" name="birthday">
      <br>
      <label for="email">Enter your email:</label>
        <input type="email" id="email" name="email">
           <hr>
       <input type="submit" value="submit">
</form>
```

Some form elements

Select your favorite color
Enter your phone Number 6909090909

Add your homepage: http://www.gmail.comx

Birthday: 06/17/2020
Enter your email: spk@gmail.com



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Input type	Description
<input type="month"/>	Defines a month and year control in format is "YYYY-MM"
<input type="range"/>	Define a range control. Default range is 0 to 100.
<input type="datetime-local"/>	Defines a date picker that includes the year, month, day and time.
<input type="time"/>	Defines a control for entering a time.
<input type="week"/>	Defines a week and year control.
<input type="search"/>	Defines a text field for entering a search string like a site search or Google search.
<input type="file"/>	Defines a file-select field and a "Browse" button for file uploads.
<input type="tel"/>	Used to define input fields that should contain a telephone number.





Input Restrictions

A list of some common input restrictions is given below, few of which can be used for validation purpose.

Attribute	Description
disabled	Specifies that an input field should be disabled.
max	Specifies the maximum value for an input field.
min	Specifies the minimum value for an input field.
pattern	Specifies a regular expression to check the input values.
read only	Specifies that an input field is read only (cannot be changed).
placeholder	This acts as a temporary label showing the purpose of a text field without requiring a label tag.
required	Specifies that an input field is required (must be filled out).
autocomplete	Specifies whether a form or input field should have autocomplete On or Off.
autofocus	Specifies that the input field should automatically get focus when the page loads.
height and width	Specifies the height and width of an <input type="image"/>
multiple	Specifies that the user is allowed to enter more than one value in the <input/> element. This works with input types like email and file.





- Some other useful attributes used with <input> are-
- id: This is used to identify the html element uniquely through the document object model.
- 2. class: It is used to apply CSS style to the individual input element.





1.3 <meta> tag

- The meta tag is a tag in html that describes some aspects of contents of a webpage.
- The HTML <meta> tag is used by search engines to search information that is provided with the webpage.
- This is empty tag (singular tag) which carries information within its attributes.
- The <meta> tag is placed between the <head>and </head> tags.
- Metadata will not be displayed on the webpage.



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Attribute	Values	Description
Name	The same and the s	Specifies the Name of the meta- data like the author, keywords or description.
Content		Here content of author is balbharati. Here the value for content attribute specifies name of the topic advance web designing. Here the values for content attribute are given as keywords like html5, learn html5 etc.
Charset	UTF-8, Big5 e.g <meta charset="utf-8"/> <meta charset="utf-8"/>	Specifies the character encoding used by the document, This is called a character encoding declaration. UTF-8 For Indian characters Big5 – for Chinese characters
http-equiv	refresh, set-cookie, content-type, expires, e.g. <meta content="5" http-equiv="refresh"/> <meta http-equiv="set-cookies"/> <meta charset="utf-8" content="text/html" http-equiv="content-type"/> <meta content="userid=pqr; expires=Wednesday, 8-feb-2018 23:59:59 GMT;" http-equiv="expires"/>	Used for http response message headers. Here the page will get refresh after every 5 seconds. The browser sends the cookies back to the server. Specifies the character encoding for the document Here page session will get expire at specified date and time.



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```
<!DOCTYPE html>
<html>
<head>
<title>meta tag examples</title>
<meta name = "authors" content = "Balbharti">
<meta name = "description" content = "Advance web designing">
<meta name = "keywords" content = "html5, learn html5, list in html5">
<meta name="copyright" content= " copyright Balbharti All right Reserve">
</head>
<body>
       Welcome to HTML5
        </body>
</html>
```



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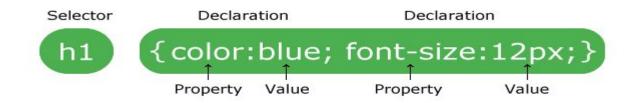
1.4 Cascading Style Sheets (CSS) in HTML5

- CSS stands for Cascading Style Sheets.
- CSS describes how HTML elements are to be displayed on screen, paper, or in other media.
- It can control the layout of multiple web pages all at once.
- CSS allows you to control the look and feel of several pages by changing a single source.
- A CSS rule set contains
 - a selector and
 - ☐ a declaration block.





CSS Syntax



- selector points to the HTML element you want to style.
- declaration block contains one or more declarations separated by semicolons.
 Declaration blocks are surrounded by curly braces.
- Declaration includes a CSS property name and a value, separated by a colon.

Property: is a type of attribute of HTML element. It could be color, border etc.

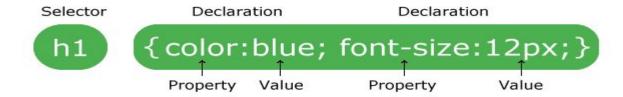
Value : Values are assigned to CSS properties. In the above example, value "blue" is assigned to color property.

Selector{Property1: value1; Property2: value2}





CSS Syntax



```
body {
   background-color: lightblue;
}

h1 {
   color: white;
   text-align: center;
}

p {
   font-family: verdana;
   font-size: 20px;
}
```





Property	Use	Value	Example
Color	Changes the color of the text	Color name	h1 {color: maroon}
Background-color	To set the background color in your webpage	Color name	body {background- color:yellow}
Font-weight	Used to bold text	bold or 100, 200900	p{font-weight:300}
Font-style	Used to italicize text	Italic, oblique or normal	p{font-style:italic}
Text-decoration	This property is used to add 1.strike-through marks 2.underline 3.overstrike 4.to remove underlines from links	1. line-through 2. underline 3. overline 4. none	p{text-decoration: underline} a{text-decoration: none}
Text-align	This property is use to control the horizontal alignment of any block-level text that are paragraphs, tables and other elements	left, right, center or justify	h1 {text- align:center}
Font-family	This is used to control the fonts	Font name	p{font- family:arial}





Property	Use	Value	Example
Font-size	This property allows you to control the size of the font	px, in, mm, cm, pt	p{font-size:10px}
Letter-spacing	This helps in controlling the horizontal spacing between characters of text		h1 {letter-spacing: 5pt}
Padding	This property is used when you want to add padding (blank spaces) around the content of an element.	Pixel	h1 {padding:30px}
Border	This property adds a border to a webpage element	Solid, double, groove, ridge, inset, outset, dotted or dashed	h1 {border:green}
Background-image	To set an image as the background of your webpage	url("X") where X is the path of image file	
Margin-Left	Sets margin area on the left side of the element.	px,pt,cm etc.	h1{margin- left;10px}



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Types of CSS

There are three methods of implementing styling

1. Inline CSS :- It uses the style attribute in the HTML start tag. Inline CSS is used to apply CSS on a single line or element.

For example : Hello CSS

- **2.Embedded stylesheet or internal CSS:** This is used to apply CSS on a single document or page. It can affect all the elements of the page. It is written inside the style tag within head section of html. For example: <style> h1{color: Red;}</style>
- 3. External CSS: The external style sheet is generally used when you want to make changes on multiple pages. It uses the link> tag on every page and the link> tag should be put inside the head section. The external css file should not contain any HTML tags ,open with any text editor it saved with .css extension.

For example: Style.css

h1{color:navy;margin-left:20px}
link rel="stylesheet" href="style.css">





1. Inline CSS :- It uses the style attribute in the HTML start tag. Inline CSS is used to apply CSS on a single line or element.

For example : Hello CSS

```
<!DOCTYPE html>
<html>
<body>
<h1 style="color:blue;
      border: 2px solid black;
        text-align:center;">
A Blue Heading
</h1>
A red paragraph.
</body>
</html>
```

OUTPUT

A Blue Heading

A red paragraph.



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Internal CSS

It is written inside the style tag within head section of html.

For example: <style> h1 {color: Red;} </style>

```
<!DOCTYPE html>
<html>
<Head>
<style> h1{color:blue;
       border: 2px solid black;
         text-align:center;}
       p{ color:red; }
</style>
</head>
<body>
<h1> A Blue Heading </h1>
A red paragraph.
</body>
</html>
```

OUTPUT

A Blue Heading

A red paragraph.





External Style Sheet

Example:

Create a html file save as, External.html

Create a CSS file save as, external.css

```
h1 {color:sienna;}
h2 {color:blue;}
p {color:red;}
```

OUTPUT:

LCCT

Hello..!!

Welcome to IEI...

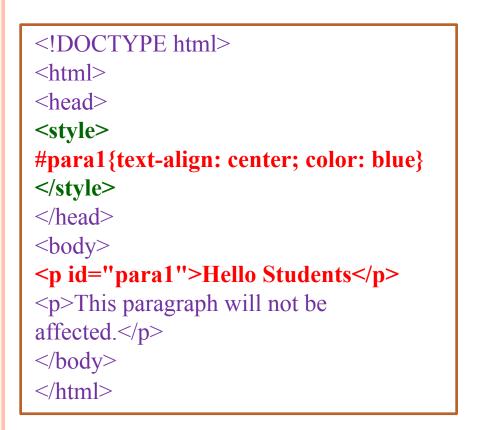
Lampang, Thailand...

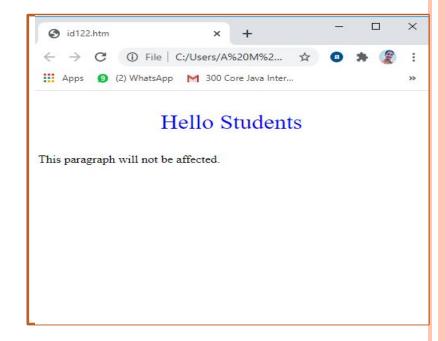




CSS Id Selector

- ☐ The Id selector selects the id attribute of an HTML element to select a specific element.
- An id is always unique within the page so it is unique element. It is written with the hash character(#), followed by the id name.





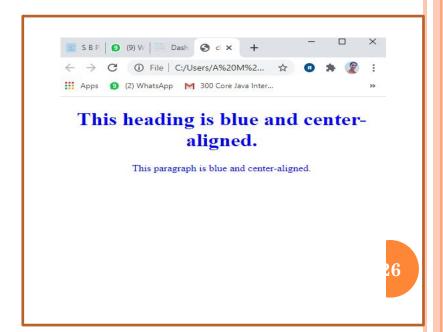




CSS Class Selector

- ☐ The class selector selects HTML elements with a specific class attribute.
- It is used with a period character '.' (full stop symbol) followed by the class name.
- ☐ The Class selector is used when you want to change a group of elements within your HTML page. The class name should not start with number.

```
<!DOCTYPE html>
<html>
<head>
<style>
.intro{text-align:center;color:blue}
</style></head>
<body>
<h1 class="intro">This heading is blue
and center-aligned.</h1>
This paragraphis blue
and center-aligned.
</body>
</html>
```



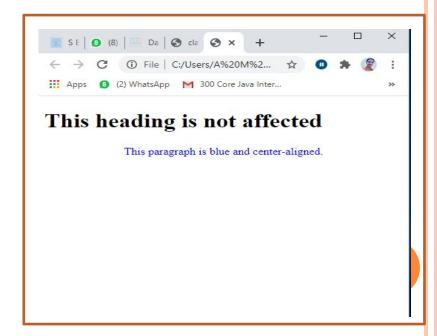




Class Selector for specific element

To specify only one specific HTML element should be affected then you should use the element name with class selector.

```
<!DOCTYPE html>
<html>
<head> <style>
p.intro {text-align: center;color: blue}
</style> </head>
<body>
<h1 class="intro">This heading is not
affected</h1>
This paragraphis blue
and center-aligned.
</body>
</html>
```





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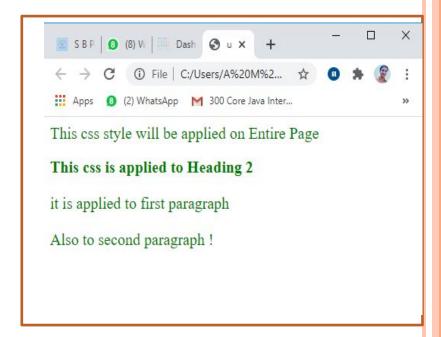
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Universal Selector

The universal selector is used as a wildcard character. It selects all the elements on the Webpages.

```
<!DOCTYPE html>
<html>
<head> <style>
* { color: green; font-size: 20px;}
</style> </head>
<body>
This css style will be applied on
Entire Page
<h2>This css is applied to Heading
2</h2>
it is applied to first
paragraph
Also to second paragraph !
</body>
</html>
```





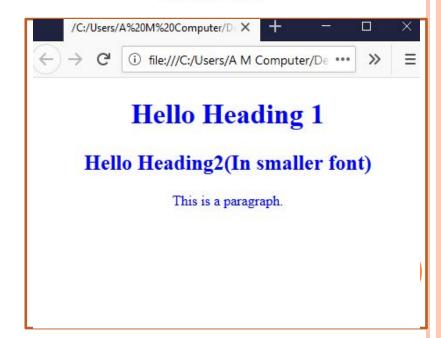


Group Selector

- The grouping selector is used to select all the elements with the same style definitions. It is used to minimize the code.
- Commas are used to separate each selector in grouping.

H1,h2,p{ text-align:center;color:blue}

```
<!DOCTYPE html>
<html>
<head>
<style>
h1,h2,p{text-align: center; color: blue}
</style>
</head>
<body>
<h1> Hello Heading 1</h1>
<h2> Hello Heading2(In smaller font)</h2>
 This is a paragraph.
</body>
</html>
```







Positioning in CSS

- CSS helps to position the HTML elements.
- The position property is used to set position for an element.
- The element can be positioned using the top, bottom, left and right properties

Syntax:

Selector{ position:value; top:value; left:value: bottom:value; right:value }

Where values in positions are static, fixed, absolute, relative and values of top, bottom, left, right are in pixels

There are four types of positioning in CSS:-

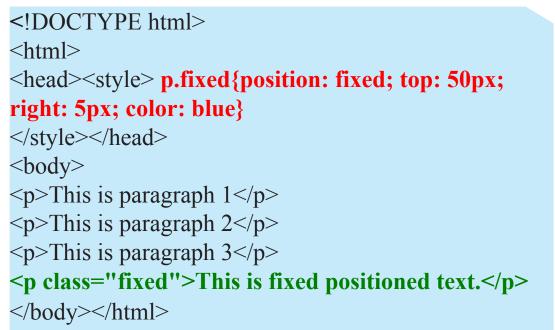
- 1. Static Positioning
- 2. Fixed Positioning
- 3. Relative Positioning
- 4. Absolute Positioning





Positioning in CSS

- Static Positioning This is a by-default position for HTML elements. It is not affected by the top, bottom, left and right properties.
- Fixed Positioning: This property helps to put the text fixed on the browser. The FIXED property forces an element into a fixed position relative to the browser window. The fixed element will not move, even when the page is scrolled.









Positioning in CSS

- 3. Relative Positioning: The relative positioning property is used to set the element relative to its normal position.
- 4. **Absolute Positioning:** This property **sets an element in a specific location** and it is not affected by the flow of the page. This property positions the element at the specified coordinates relative to your screen top-left corner.

```
<!DOCTYPE html>
<html>
<head>
<style>
     .first{position: relative;top:-10px; right:-10px;}
       h2{position: absolute; left:100px;top:150px}
</style>
<body>
<h1 class="first">This is heading 1</h1>
<h2>This is heading 2</h2>
</body>
</html>
```





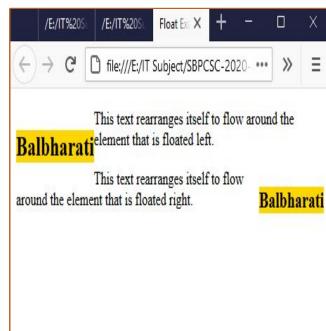
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Float Property in CSS

- Float is a CSS property written in CSS file or directly in the style of an element. The float property defines the flow of content.
- Following are the types of floating properties:
- float: left: This keeps the element float on left side of the container
- 2. **float:right:** This keeps the element float on right side of container
- 3. **float: none:** This is default property i.e. this shows the element as it is.

```
<!DOCTYPE html>
<html><head>
<title>Float Example</title>
<style>
      .float-left{float:left;font-size:20px;background-color:gold}
      .float-right{float: right;
                 font-size:20px;background-color:gold}
</style></head><body>
<h2 class="float-left">Balbharati</h2>
This text rearranges itself to flow around the element that is floated
left.
<h2 class="float-right">Balbharati</h2>
This text rearranges itself to flow around the element that is floated
right. 
</body>
</html>
```







Display property

- The Display property in CSS defines how the components (div, hyperlink, heading, etc) are going to be placed on the web page.
 - It **specifies how the element is displayed.** this property is used to define the display of different parts of a web page.

Syntax:

Display : value

Where values are:

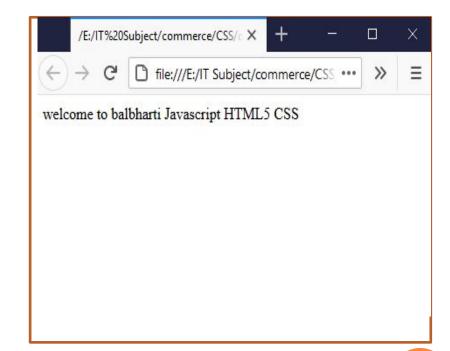
- Inline: It is used to display an element as an inline element.
- Block: It is used to display an element as an block element. It starts on a new line, and takes up the whole width of the browser window.
- **Block-inline**: This value is very similar to inline element but the difference is that you are able to set the width and height.
- **None:** The element is completely removed.





Display property

```
<!DOCTYPE html>
<html>
<head>
<style>
p {
display: inline;
</style>
</head>
<body>
welcome to balbharti
Javascript
HTML5
CSS</body></html>
```

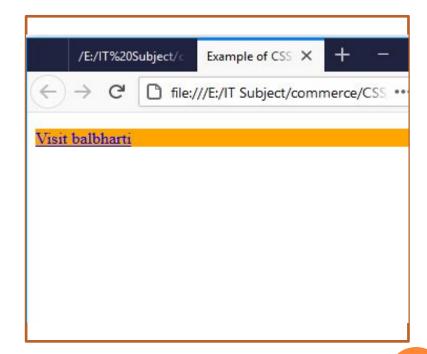






Display property

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Example of CSS display</title>
<style type="text/css">
display: block; background-color:orange;
</style>
</head>
<body>
>
<a <u>href="https://www.ebalbharti.in"</u>>
Visit balbharti</a>
<br>
</body>
</html>
```







Ordered list or numbered list

The tag defines an ordered list. An ordered list can be numerical or alphabetical.

Attribute	Values	Description
Туре	"1" /"a"/"I"/"i"	1 is default value and other values specify the numbering type for the used items.
Reversed	Reversed	This attribute specifies that the items of the list are specified in the reverse order.
Start	Number	Specifies the starting number of the first item in an ordered list.





Ordered list or numbered list

The tag defines an ordered list. An ordered list can be numerical or alphabetical.

<!DOCTYPE html> <html> <body> <h3>List of Topics in reverse sequence</h3> reversed> Basics of IT HTML 5 PostgreSQL </body> </html>

OUTPUT

List of Topics in reverse sequence

- 3. Basics of IT
- 2. HTML 5
- 1. PostgreSQL





Ordered list or numbered list

The tag defines an ordered list. An ordered list can be numerical or alphabetical.

```
<!DOCTYPE html>
<html><body>
<h3>List of Topics</h3>
< 0
Basics of IT
HTML 5 
PostgreSQL 
</0|>
<h3>List of Topics start with series 50</h3>

    start="50">

Basics of IT
HTML 5 
PostgreSQL 

</body></html>
```

OUTPUT

List of Topics

- 1. Basics of IT
- 2. HTML 5
- 3. PostgreSQL

List of Topics start with series 50

- 50. Basics of IT
- 51. HTML 5
- 52. PostgreSQL

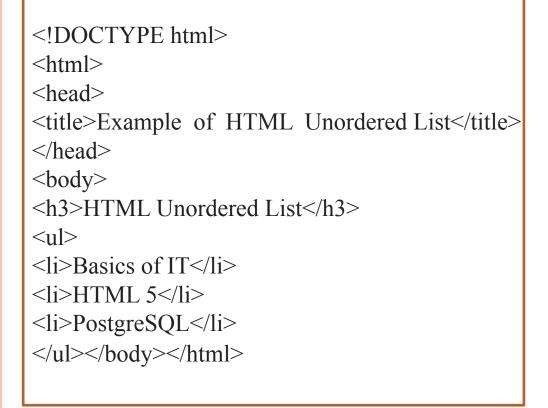


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1.6 Unordered list or bulleted list

- An unordered list created using the
- tag, and each list item starts with the tag. The list items in unordered lists are marked with bullets (small black circles), by default.



OUTPUT

HTML Unordered List

- Basics of IT
- HTML 5
- PostgreSQL

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1.6 Unordered list or bulleted list

Attribute	Values	Description
Type = disc/ circle/square (use style (css) instead of type attribute in HTML5. Type attribute is supported by previous versions of HTML)	style="list-style-type:disc" e.g <ul <ul="" e.g="" style="list-style-type:circle"> style="list-style-type:circle"> style="list-style-type:square" e.g <ul style="list-style-type:square"> style="list-style-type:square"> e.g <ul <="" <ul="" e.g="" style="list-style-type:none" td=""><td>Sets the list item marker to a bullet (default) Sets the list item marker to a circle Sets the list item marker to a square The list items will not be marked</td>	Sets the list item marker to a bullet (default) Sets the list item marker to a circle Sets the list item marker to a square The list items will not be marked

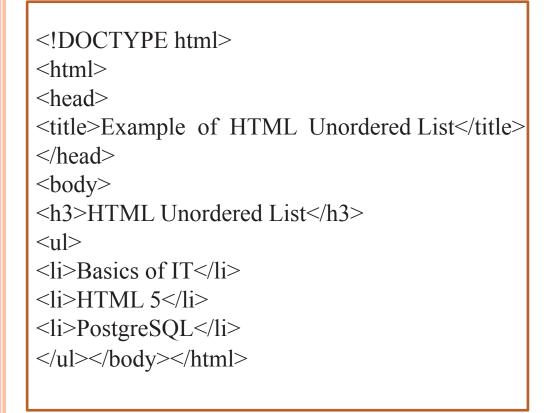
Note: HTML5 does not support bullets, circle and square value of type attribute instead you use CSS style.





1.6 Unordered list or bulleted list

- An unordered list created using the
- tag, and each list item starts with the tag. The list items in unordered lists are marked with bullets (small black circles), by default.



OUTPUT

HTML Unordered List

- Basics of IT
- HTML 5
- PostgreSQL

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1.7 Definition list

To define a definition list <dl> tag is used. You can create items in definition list with the <dt> and <dd> tags. The <dt> tag is used to define the term whereas the <dd>tag is used to define the term's definition.

```
<!DOCTYPE html>
<html>
<head>
<title>definition List</title>
</head>
<body>
<h3>Example of HTML definition List</h3>
< dl>
<dt><b>Web</b></dt>
           part of the Internet that contains websites and
<dd>The
web pages</dd>
<dt><b>HTMI </b></dt>
<dd>A markup language for creating web pages</dd>
<dt><b>CSS</b></dt>
<dd>A technology to make HTML look better</dd>
</d1>
</body>
</html>
```

OUTPUT

Example of HTML definition List

Web

The part of the Internet that contains websites and web pages HTML.

A markup language for creating web pages

CSS

A technology to make HTML look better





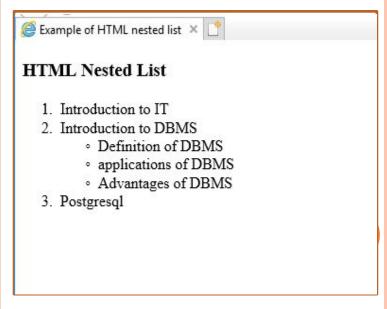
1.7 Nested list

List within another list either order list or unordered list is called nested list.

Examples: Single level nested list

```
<!DOCTYPE html>
<html>
<head>
<title>Example of HTML nested list</ title>
</head>
<body>
<h3>HTML Nested List</h3>
< 01 >
Introduction to IT
Introduction to DBMS
Definition of DBMS
applications of DBMS
Advantages of DBMS
Postgresql
<\!\!/0\!\!
</body>
</html>
```

OUTPUT







1.8 Inserting audio and video in HTML 5

HTML5 features include native audio and video support without the need for Flash. HTML5 includes special elements (tags) allowing to include video and audio and to define controls.

Common Audio Formats:

mp3 : An audio format from MPEG(Moving / Motion Pictures Experts Group).

aac: Advanced Audio Coding, standard format on Iphone, youtube etc.

ogg: An Open container and free audio format.





< Audio > tag

The <audio> element enables you to embed(or add) audio files on Webpages.

Syntax:

<audio src="sample.mp3" type="audio/ mpeg" controls> </audio>

Example: <!DOCTYPE html> <html> <body> Audio Sample <audio controls> <source src="test.mp3" type="audio/mp3"> </audio> </body> </html>

OUTPUT

to add audio controls such as play, pause, and volume.

to specify the audio files which the browser may use

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Attributes of < audio> tag.

Attribute	Values	Description
Autoplay		The audio will start playing as soon as it is ready
Controls	_	The audio controls should be displayed (i.e. play/pause button etc.)
loop	Value	The audio will start over again, every time it is finished
muted	_	This Specifies that the audio output should be muted
src	URL	Specifies the URL of the audio file





Adding audio with multiple sources:

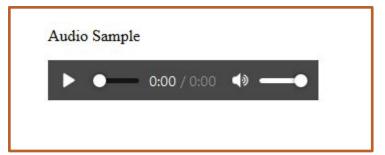
Multiple sources of audios are specified so that if the browser is unable to play the first source then it will automatically jump to the second source.

<source> tag

The <source> tag is used to specify multiple media resources for media elements.

```
<!DOCTYPE html>
<html>
<body>
Audio Sample
<audio controls autoplay>
<source src="test.mp3" type="audio/mp3">
<source src="test.ogg" type="audio/ogg">
<source src="test.opus" type="audio/ogg">
</audio>
</body>
</html>
```

OUTPUT







<video>Tag

The HTML <video> tag is used to embed video into your web page, it has several video sources.

There are three different formats that are commonly supported by web browsers:- .mp4, .Ogg and .WebM.

Syntax: <video src="URL" controls></video>

Example:

</body> </html>

OUTPUT







Attributes of <video> tag:

Attribute	Values	Description
Src	URL	Defines link to video file
autoplay		Specifies that the video will start playing as soon as it is ready
controls	- 9	Specifies that video controls should be displayed (such as a play/pause button etc).
height	Pixels	Sets the height of the video player
loop	Value	Specifies that the video will start over again, every time it is finished
muted	-	Specifies that the audio output of the video should be muted

Attribute	Values	Description
poster	URL	Specifies an image to be shown while the video is downloading, or until the user hits the play button
preload	1. auto 2. metadata 3. none	Specifies if and how the author thinks the video should be loaded when the webpage loads
width	Pixels	Sets the width of the video player

The <source> tag is used to specify multiple media resources for video as well as audio media elements.





1.9 Image map in HTML 5

An image with multiple hyperlinks is called an image map.

Image map is used to connect links to different regions on the webpage. An Image map is created by marking certain regions on an image clickable. These clickable regions are called as **hotspots**.

Image Maps are of two types; Client Side and Server Side.

The tags used to define client side image map are :-

- 1. < Img>: It is used to insert an image on a web page. To create a client side image map usemap attribute of is used with value which is preceded with a # symbol. The usemap attribute acts as a pointer which indicates that the image is a client side image map.
- **2.** <map>: specifies name of the image used for client side image map. The value of the name attribute is the value specified in usemap attribute of . is used to create the map of clickable areas.
- 3) <area> It defines specific clickable regions. A given <map> element can contain multiple <area> element within it.<area> is singular tag and <map> is paired. 51



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	Attribute	Description
(x1,y1)	Href	Defines the URL to which the clickable region within the image-map navigates.
(x2,y2)	Shape	It can value rect, circle or poly.
Rectangle	coords	Specifies co-ordinates of the clickable regions on the image-map.
		Rect- specifies rectangular area with four co-ordinates.
Circle		Circle-Defines a circular region. It requires three co-ordinates. Poly-Defines a polygon
		region with co-ordinates specifying each point on the polygon. It requires
(x ₂ ,y ₂) (x ₁ ,y ₁) (x ₃ ,y ₃)		four co-ordinates. Default-Region covers the entire image. No co-ordinates are required
	alt	Specifies extra information about clickable area. It is the
(x5,y5) (x4,y4)		alternative text to the
Polygon		clickable region.



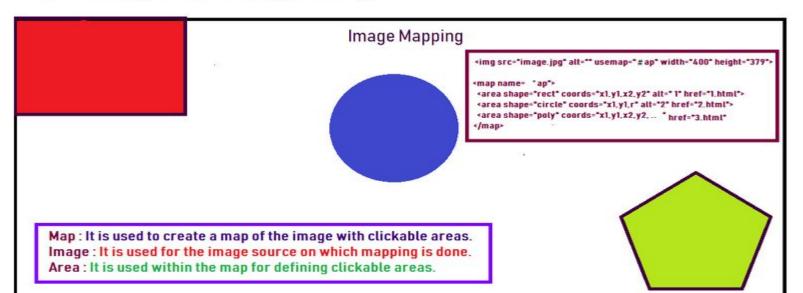


Example of Image Mapping

```
<!DOCTYPE HTML>
<html>
<head><title>image map</title></head>
<body> <h1>An example of Image Map</h1>
<img src="image.png" usemap="#imagemap" alt="Image">
<map name="imagemap">
<area href="http://www.google.com" shape="rect" coords="0,0,233,156" alt="google site"/>
<area href="welcome.html" shape="circle" coords="518,182,82" alt="Welcome page"/>
<area href="http://www,facebook.con." shape="poly"coords="825,319,931,246,1030,319,864,436,993,436" alt="Facebook site"/>
</map></body></html>

(In this program welcome.html is a local file created on the machine.)
```

An example of Image Map







1.10 INLINE FRAME IN HTML5

The <iframe> element creates an inline frame. Inline frames are often used in online advertising, where the contents of the <iframe> is an advertisement from an external party. HTML5 allows the incorporation to be seamless (no scrollbars, borders, margins etc).

Attribute	Values	Description
Src	URL	Specifies the
		address of the
		document to
		embed in the
		<iframe></iframe>
Height	Pixel	Specifies the
		height of an
		<iframe></iframe>
Width	Pixels	Specifies the
		width of an
		<iframe></iframe>
Name	Text	Specifies name of
		an <iframe></iframe>
srcdoc	HTML_	Specifies the
	code	HTML content of
		the page to show
		in the <iframe></iframe>





<Iframe> tag Example

```
<!DOCTYPE html>
<html>
<body>
<h2>HTML Iframes</h2>
This is the example of
iframes.
<iframe src="welcome.html"
height="200"
width="300"></iframe>
</body>
</html>
```

HTML Iframes

This is the example of iframes.

Welcome page





1.11 Website Hosting

What is web hosting?

Web hosting is the service of providing storage space. The website is made available on the Internet with the help of web hosting.

What is Web Host?

The companies that provides web hosting services are called web hosts. Web hosts own and manage web servers. These web servers offer uninterrupted Internet connectivity.

Types of Web hosting:

Types of web hosting are

- **1.Shared hosting:** It is cost effective. It gives domain name to your website.
- 2.Free hosting: There are some hosting websites which provide you free hosting of the website for limited period of time.
- 3.Dedicated hosting: These are paid hosting servers for large websites.





Prerequisites for Free Web Hosting

- 1. Three to Four pages website having first or Home Page named as index. html.
- 2. Computer with internet connection.
- 3.Gmail id with password.
- 4.Need to toggle between two websites https://www.000webhost.com/ and https://www.000webhost.com/
- 5. Have to acquire free web space from web server named 000webhost.com.
- 6. Have to acquire domain name for your website from my.freenom.com.
- 7.Park the website domain address with free server website i.e. with 000web-host.com. Redirect the domain free server name to the domain website i.e. with my. freenom.com.





Steps to Acquire free webspace:

- 1.Open the website https:// www.000webhost.com/
- 2. Click on free signup Login with your email id and password
- 3.verification email will be send to your email
- 4.open your email and click on "verify email"
- 5.Click on "Get Started"
- 6.From My Website page click on "+Create New site" button
- 7. Type your website name and any password
- 8.e.g. website name as :- it-xi-textbook

From File Manager box select "Up-load" option to upload your web pag- es. Home page of the website must be named as "index.html" (Select all webpages including image, audio files etc) and click on "Logout"

10. Your website is ready with the sub domain as 000webhostapp.com e.g.it-xi-textbook.000webhostapp.com



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Steps to Acquire free webspace:

- 1.Open the website https:// www.000webhost.com/
- 2. Click on free signup Login with your email id and password
- 3.verification email will be send to your email
- 4.open your email and click on "verify email"
- 5 Click on "Get Started"
- 6.From My Website page click on "+Create New site" button
- 7. Type your website name and any password
- 8.e.g. website name as :- it-xi-textbook

From File Manager box select "Up-load" option to upload your web pag- es. Home page of the website must be named as "index.html" (Select all webpages including image, audio files etc) and click on "Logout"

10. Your website is ready with the sub domain as 000webhostapp.com e.g.it-xi-textbook.000webhostapp.com





Acquire Domain Name

- 1. Open the website https://my.freenom.com
- 2.From Use social sign in Click on "sign in" Login with your gmail id and give password
- 3.Click on "Services" --> Register a New Domain
- 4. Type your website name and click on "check availability" button
- 5.Choose any domain(e.g. .tk,.ml.cg etc) and click on "Get it now" if avail- able click on "CheckOut" button
- 6.Set the free period to host the website, click on "Continue" button
- 7.From Review & Checkout page if the Total Due is \$0.00 then only select terms and conditions
- 8. Click on "Complete Order" button e.g. it-xi-textbook.tk
- 9.From Order Confirmation Screen click on "Click here to go to Client Area" button





Summary

- •Html5 has introduced new types in <Input> like number, date, Tel, email, search, URL, range, month, week, color.
- •Few attributes of <Input> can be used for validation purpose.
- •<meta> is used by search engines to search information that is provided with the webpage. It is inserted in the <head>
- •CSS- Cascading Style Sheet describes how HTML elements are to be displayed on screen, paper, or in other media.
- CSS syntax Selector{Property1: value1; Property2: value2}
- •The tag defines an ordered list. An ordered list can be numerical or alphabetical.
- •An unordered list created using the tag, and each list item starts with the tag. The list items in unordered lists are marked with bullets (small black circles), by default.
- •To insert Audio and Video in a web page, <audio> and <video> are used which specifies the source with the file location.
- •An image with multiple hyperlinks is called an image map. The usemap attribute acts as a pointer which indicates that the image is a client side image map.
- The <iframe> element creates an inline frame.





Thank You