

Web Technology

 The methods by which computers communicate with each other through the use of markup languages and multimedia packages is known as web technology.

The Internet

- INTERconnected NETwork
- The Internet is a giant network of networks
- A network may include PCs, and other devices like servers or printers
- A network is connected through a communication channel
- •The first long distance communication took place in 1965 between a computer in MIT and California.
- •In 1969, four computers clients were connected together via ARPAnet(Advanced Research Projects Agency Network).

How do we use the Internet?

- Email
- WWW, hypertext, browsers
- RSS
- FTP, P2P file distribution
- Mobile Internet
- IM, IRC, Skype
- Blogging, microblogging
- Gaming
- Learning

- Learning
- Video Conferencing
- Remote Backup
- Streaming video and audio
- Collaboration-Participation (Wiki)
- Collaborative tagging
- Software over the web
- Rich User Experiences
- Social networks
- Business and finance

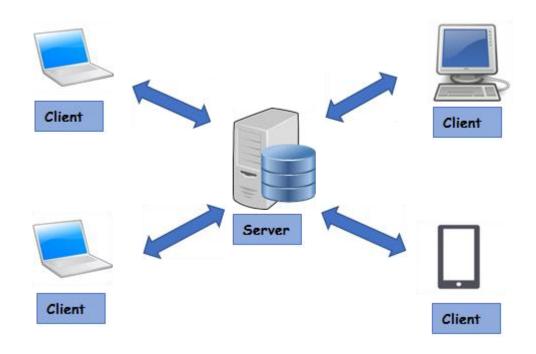
WWW

- World Wide Web (www.)
- The World Wide Web (WWW or Web) is often confused with the Internet
- It is the service used over the network.'It is the way of accessing information over the internet
- It uses HTTP protocol
- It uses different browsers to access web pages.
- The Web didn't exist until the 1980s
- In 1989 Tim Berners-Lee created a set of technologies that allowed information on the Internet to be linked together through the use of links, or connections in documents -
- The language used to write these documents with links is HTML

The Web

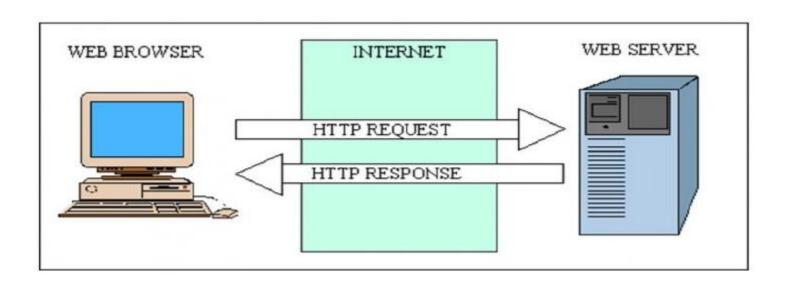
- The Web was mostly text based until Marc Andreessen created the Mosaic browser in 1992
- Accredited for popularizing the WWW
- People started thinking about adding videos, sound, and graphics on the Web.
- Now many people think of the Web as the graphical or illustrated part of the Internet

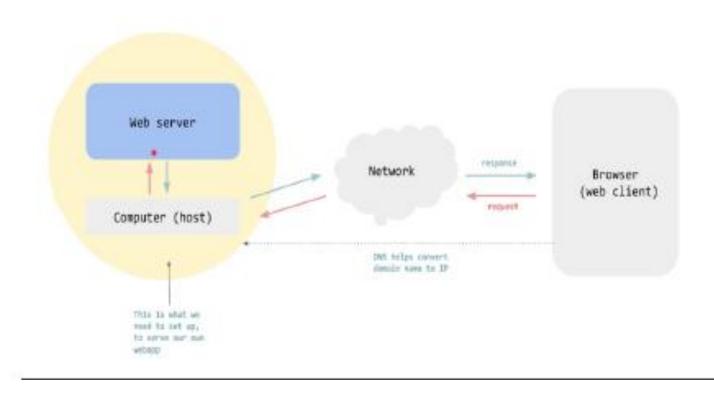
Client-server architecture



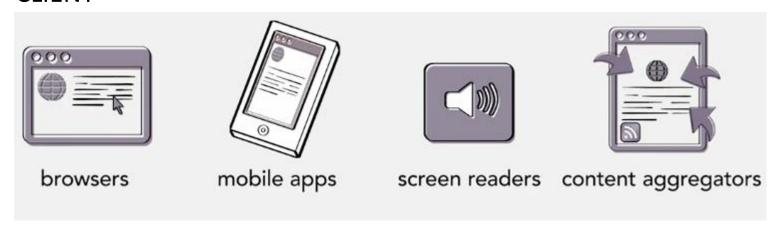
Client-server architecture

- Example of Weather forecasting
- Client
- Server
- HTTP protocol-stateless request/reply protocol





• CLIENT



• SERVER



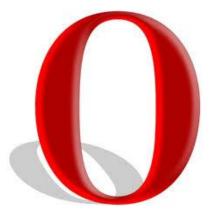
Browsers

- An application that provides a way to look at and interact with the information on the World Wide Web
- It retrieves, presents, and traverses information resources
- These include web pages, images, video, and other multimedia content









Design issues

- Browser & OS
- Bandwidth
- Display resolution
- Look and feel
- Page layout and linking
- User centric design
- Planning a website:
- Planning plays an important role in the successful completion of any work. Creation of website takes time and resources, so plan must proceeds sequentially and properly. This plan contain the following things
 - Defining the purpose of website
 - Knowing the audience of website
 - Organizing contents of website
 - Publishing of website-Domain registration and hosting, Upload website on server Viewing website

- Good design involves:
 - Using understandable language on the web pages.
 - Making the site interesting
 - Making the site easy to use.
 - using a uniform look and feel

WWW

- The Web, or World Wide Web, is basically a system of Internet servers that support specially formatted documents. The documents are formatted in a markup language called HTML (*Hyper Text Markup Language*) that supports links to other documents, as well as graphics, audio, animations and video files.
- This means you can jump from one document to another simply by clicking on hot spots. Not all Internet servers are part of the World Wide Web.
- There are several applications called Web browsers that make it easy to access the World Wide Web; Two of the most popular being Firefox and Microsoft's Internet Explorer.

W3C

- ➤W3C(Word Wide Web consortium) is an international communit where Member organizations, a full-time staff, and the public wor together to develop Web standards.
- ➤ led by Tim Berners-Lee, inventor of the World Wide Web and Director and Dr. Jeffrey Jaffe, W3C CEO.
- ➤W3C decided to developing nor proprietary, interoperable technologies for the world wide web.
- ➤The primary goal is to make the web universally accessible regardless of ability, language or culture.
 - ➤ Web for all- enables human communication, commerce, and opportunities to share knowledge
 - ➤ Web on Everything- Mobile phones, smart phones, personal digital assistants, interactive television systems, voice response systems, kiosks
- ➤ 3C's vision for the Web involves participation, sharing knowledge, and thereby building trust on a global scale.



➤ For example

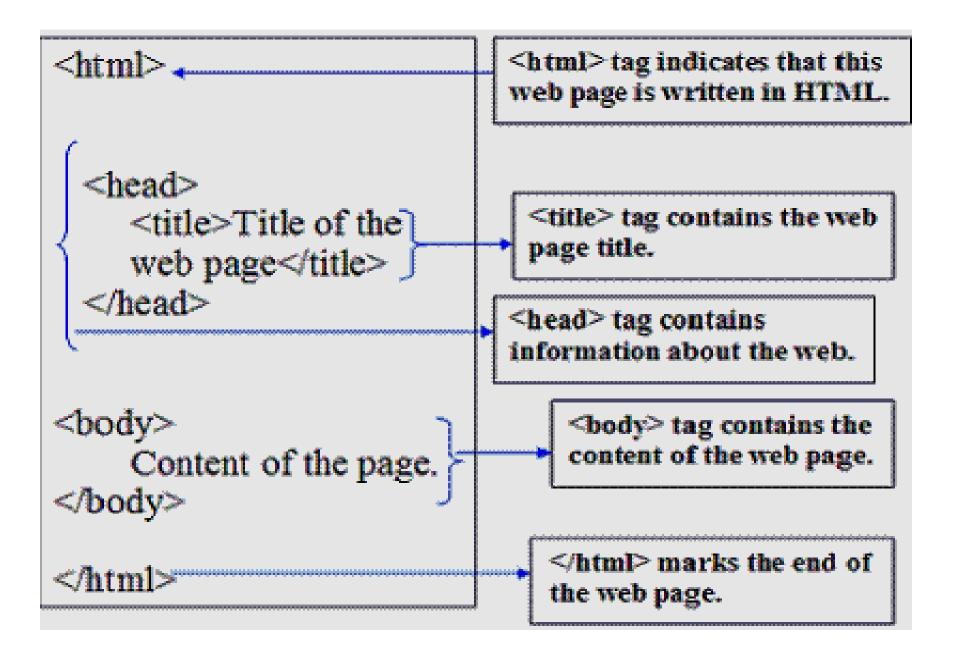
• If a writer wants to publish a business website promoting her professional writing services, she must acquire web publishing software in order for her to insert text, images and videos into an easily readable format suitable for the Internet. Then, she must locate a free or paid web server to deliver her content onto the Internet. Web servers are usually extremely high-powered computers that "store" websites and release the website content every time a user types in or clicks on the web address of the website. The writer must also have an Internet connection to upload, maintain and make changes to her website.

- What is the difference between programming language and markup language?
- Ans:- A programming language is an artificial language designed to communicate instruction to a machine, particularly a computer, where as markup language is a language that is used to format the text inside the HTML document, so that the look and feel of a web page will increase. Programming languages can be used to create programs that control the behavior of a machine and/or to express algorithm precisely. The term Markup means the only particular text will change that is specified within the opening and closing tag. For instance, the tag instructs a browser to display the text that comes after it in bold text. To end the bold text, the tag is inserted.

What is HTML?

- HTML is a markup language for describing web documents (web pages).
- HTML stands for Hyper Text Markup Language.
- HTML was created by Berners-Lee in late 1991.
- Currently we are having HTML-5 published in 2012.
- A markup language is a set of markup tags.
- HTML documents are described by HTML tags.
- Each HTML tag describes different document content.
- Markup refers to the sequence of characters or other symbols that you insert at certain places in a text or word processing file to indicate how the file should look when it is printed or displayed or to describe the document's logical structure. The markup indicators are often called "tags."

HTML WEB PAGE STRUCTURE



HTML Element Syntax

- •An HTML element starts with a **start tag <> opening tag**
- •An HTML element ends with an end tag </> closing tag
- •The **element content** is everything between the start and the end tag
- •Some HTML elements have **empty content**
- •Empty elements are closed in the start tag
- •Most HTML elements can have **attributes**

Nested HTML Elements

- Most HTML elements can be nested (can contain other HTML elements).
- HTML documents consist of nested HTML elements.
- HTML Document Example

```
A small HTML document:
```

```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>
<h1>My First Heading</h1>
My first paragraph.
</body>
</html>
```

How to create and run html file

- 1. Write some html code in notepad/notepad++
- 2. Save the file with extension .html or .htm
- 3. Open the file in browser



My First Heading

My first paragraph.

Example Explained

- The **DOCTYPE** declaration defines the document type to be HTML
- The text between <html> and </html> describes an HTML document
- The text between <head> and </head> provides information about the document
- The text between <title> and </title> provides a title for the document
- The text between <body> and </body> describes the visible page content
- The text between <h1> and </h1> describes a heading
- The text between and describes a paragraph
- Using this description, a web browser can display a document with a heading and a paragraph.

The HTML <head> Element

- The HTML <head> element contains meta data. Meta data are not displayed.
- The HTML <head> element is placed between the <html> tag and the <body> tag:
- The title will not be displayed in the document, but might be displayed in the browser tab.

The following elements can go inside the <head> element:

- <u><title></u> (required in every HTML document)
- <style>
- •<base>
- •link>
- •<meta>
- <script>
- <noscript</p>

NOTE: Meta data means data **about** data. HTML meta data is data **about** the HTML document.

HTML TAGS

- An HTML element is defined by a starting tag.
- So here is an HTML element
- There are some HTML elements which don't need to be closed, such as <img.../>, <hr /> and
 elements. These are known as void elements/emtry tags

HTML – ATTRIBUTES

- An attribute is used to define the characteristics of an HTML element and is placed inside the element's opening tag. All attributes are made up of two parts: a name and a value:
 - This is left aligned
 - This is center aligned
 - This is right aligned
- Core Attributes
 - <h3 title="Hello HTML!">Titled Heading Tag Example</h3>
- The style Attribute
 - Some text...
- The dir Attribute
 - <html dir="rtl">

HTML - FORMATTING

Text formatting tags			
HTML Code	Sample		
< B >bold< /B >	bold		
<u>underline</u>	<u>underline</u>		
<i>italic</i>	italic		

Alignment tags			
HTML Code		Sample	
<p align="Left">your text</p>	your text		
<p align="Center">your text</p>		your text	
<p align="Right">your text</p>			your text

Break tags

HTML Code	Description
< P >	Paragraph break
 	Forced line break

• Character Tags

- A tag that you apply to an individual character is referred to as a character tag.
- There are two types of character tags: physical and logical.

Physical Tags

 Physical tags are used to indicate exactly how specific characters are to be formatted.

The syntax or format for using a PHYSICAL TAG is as follows:

<Tag Name> Characters to be formatted. </Tag Name>

•

	Indicates that the text should be bold.	
<l></l>	Indicates that the text should be italic.	
<tt></tt>	Indicates that the text should be used with a font such as Courier that allots the same width to each character.	
<big></big>	Indicates that the text should be displayed in a big font. Available in HTML 3.0 or higher.	
<small></small>	Indicates that the text should be displayed in a small font. Available in HTML 3.0 or higher.	
	Indicates that the text should be displayed as a _{subscript} , in a smaller font if possible. Available in HTML 3.0 or higher.	
	Indicates that the text should be displayed as a ^{superscript} , in a smaller font if possible. Available in HTML 3.0 or higher.	
<u></u>	Indicates that the text should be displayed underlined. Not all browsers support this tag.	
	Indicates that the text should be bold.	

Logical Tags

 Logical tags are used to indicate to the visually impaired that there is some emphasizes on the text. Each browser has its own technique as to how to indicate to its viewer that the text between the tags are different. The syntax or format for using a LOGICAL TAG is as follows:

<Tag Name> Character/s to be formatted. </Tag Name>

- A physical character tag controls how to format the text, a logical character tag describes how the text is being used, without regard to how it should be formatted.
- Thus a logical style would be used to convey some meaning while a physical style would not.

<cite></cite>	citation	emphasizes the text in italics.
<code></code>	code sample	Displays some characters as code usually in Courier font (i.e., fixed-width font)
	deleted text	displays text with a line through it; renders differently in Netscape and Internet Explorer
<dfn></dfn>	definition	italics; renders differently in Netscape and Internet Explorer
	emphasis	emphasizes the text in some way usually as italic.
<ins></ins>	inserted text	underlined; renders differently in Netscape and Internet Explorer
<kbd></kbd>	code sample	fixed-width font
<samp></samp>	code sample	fixed-width font
	strong	Text is emphasized more strongly than usually as bold.
<var></var>	program variable	italics

PHRASE TAGS

- The phrase tags have been designed for specific purposes, though they are displayed in a similar way as other basic tags like , <i>,
 , and <tt>,
- Emphasized Text Anything that appears within ... element is displayed as emphasized text.
 - The following word uses a emphasized typeface.
- Marked Text : Anything that appears with-in <mark>...</mark> element, is displayed as marked with yellow ink
 - The following word has been <mark>marked</mark> with yellow
- Strong Text Anything that appears within ... element is displayed as important text.
 - The following word uses a strong typeface.

- Text Abbreviation You can abbreviate a text by putting it inside opening <abbr> and closing </abbr> tags. If present, the title attribute must contain this full description and nothing else.
 - My best fiend's name is <abbr title="Abhishek">Abhy</abbr>.
- Acronym Element The <acronym> element allows you to indicate that the text between <acronym> and </acronym> tags is an acronym.
 - This chapter covers marking up text in <acronym>XHTML</acronym>.
- Text Direction The <bdo>...</bdo> element stands for Bi-Directional Override and it is used to override the current text direction.
 - This text will go left to right.
 - <bdo dir="rtl">This text will go right to left.</bdo>
- Special Terms The <dfn>...</dfn> element (or HTML Definition Element) allows you to specify that you are introducing a special term. It's usage is similar to italic words in the midst of a paragraph.
 - The following word is a <dfn>special</dfn> term.

- Quoting Text When you want to quote a passage from another source, you should put it in between<blockquote>...</blockquote> tags.
 - <blockquote>XHTML 1.0 is the W3C's first Recommendation for XHTML, following on from earlier work on HTML 4.01, HTML 4.0, HTML 3.2 and HTML 2.0.</blockquote>
- Short Quotations The <q>...</q> element is used when you want to add a double quote within a sentence.
 - Amit is in Spain, <q>I think I am wrong</q>.
- Text Citations If you are quoting a text, you can indicate the source placing it between an opening <cite>tag and closing </cite> tag
 - This HTML tutorial is derived from <cite>W3 Standard for HTML</cite>.
- Computer Code Any programming code to appear on a Web page should be placed inside <code>...</code>tags. Usually the content of the <code> element is presented in a monospaced font, just like the code in most programming books.
 - Regular text. <code>This is code.</code> Regular text.

- Keyboard Text When you are talking about computers, if you want to tell a reader to enter some text, you can use the <kbd>...</kbd> element to indicate what should be typed in, as in this example.
 - Regular text. <kbd>This is inside kbd element</kbd> Regular text.
- Address Text The <address>...</address> element is used to contain any address.
 - <address>388A, Road No 22, Jubilee Hills Hyderabad</address>

HTML – META TAGS

- HTML lets you specify metadata additional important information about a document in a variety of ways. The META elements can be used to include name/value pairs describing properties of the HTML document, such as author, expiry date, a list of keywords, document author etc.
- The <meta> tag is used to provide such additional information. This tag is an empty element
- Specify Character Set You can use <meta> tag to specify character set used within the webpage
- <meta charset=UTF-8" />
- The HTML **<style>** element is used to define internal CSS style sheets.
- The HTML < link > element is used to define external CSS style sheets.

HTML Comments

- Comments are not displayed by the browser, but they can help document your HTML.
- With comments you can place notifications and reminders in your HTML.
- Comment tags <!-- and --> are used to insert comments in HTML.
 - <!-- This is valid comment -->
 - < !-- This is not a valid comment -->
- Because there is a space between the left angle bracket and the exclamation mark
- Multiline Comments
 - <!--
 - This is a multiline comment and it can
 - span through as many as lines you like.
 - --> `

HTML Line Breaks

- The HTML **<br**> element defines a **line break**.
- Use
br> if you want a line break (a new line) without starting a new paragraph:

Example:

```
This is<br/>para<br/>o/P:
```

This is a para graph with line breaks

• NOTE: The

- NOTE: The

- element is an empty HTML element. It has no end tag.

The HTML Element

```
<
  Twinkle, twinkle, little star,
   How I wonder what you are!
  Up above the world so high,
  Like a diamond in the sky.
O/P:
 Twinkle, twinkle, little star,
   How I wonder what you are!
  Up above the world so high,
  Like a diamond in the sky.
```

The pre tag preserves both spaces and line breaks

HTML Headings

- Headings Are Important
- Use HTML headings for headings only. Don't use headings to make text BIG or bold.
- Search engines use your headings to index the structure and content of your web pages.
- <h1> defines the most important heading. <h6> defines the least important heading.

Example:

- <h1>This is a heading</h1>
- <h2>This is a heading</h2>
- <h3>This is a heading</h3>
- <h4>This is a heading</h4>
- <h5>This is a heading</h5>
- <h6>This is a heading</h6>

This is a heading 1

This is a heading 2

This is a heading 3

This is a heading 4

This is a heading 5

This is a heading 6

HTML Horizontal Rules

- The <hr> tag creates a horizontal line in an HTML page.
- The hr element can be used to separate content:

Example:

- This is a paragraph.
- <hr>
- This is a paragraph.
- <hr>
- This is a paragraph.

O/P:

This is a paragraph.

This is a paragraph.

This is a paragraph.

Changing background color of page

The background-color property defines the background color for an element:

```
<!DOCTYPE html>
<html>
<body style="background-color:yellow;">
<h2 style="background-color:red;">This is a heading</h2>
This is a paragraph.
</body>
</html>
```

changing background color of page, text color

Background Color:

```
<body bgcolor="#E6E6FA">
```

NOTE: The <body> bgcolor attribute is not supported in HTML5. Use CSS instead.

Text Color:

```
<font size="3" color="red">This is some text!</font>
<font size="2" color="blue">This is some text!</font>
<font face="verdana" color="green">This is some text!</font>
```

Not Supported in HTML5.

HTML Tables

Student information:

Number	First Name	Last Name	Percentage
1.	Aman	Patel	87%
2.	Mala	Dhole	55%
3.	Sarita	Patil	90%

- For Table mainly used tags are , and
- Tables are defined with the tag.
- For table row (tables are divided into table rows)
- For table column (table rows are divided into table data
- For the table header

```
<!DOCTYPE html>
<html>
<head>
<title>HTML Table Header</title>
</head>
<body>
<caption>table</caption>
Name
Salary
Ramesh Raman
5000
Shabbir Hussein
7000
</body>
</html>
```

table

Name	Salary
Ramesh Raman	5000
Shabbir Hussein	7000

Cellpadding and Cellspacing Attributes:

- The cellspacing attribute defines the width of the border
- cellpadding represents the distance between cell borders and the content within a cell

```
<!DOCTYPE html>
<html>
                  Ramesh Raman
<head>
                  5000
<title>HTML Table
                  Cellpadding</title>
</head>
                  Shabbir Hussein
<body>
                  7000
<table border="1"
                  cellpadding="5"
                  cellspacing="5">
                                               Salary
                                     Name
                 </body>
</html>
Name
                                 Ramesh Raman
                                               5000
Salary
Shabbir Hussein
                                               7000
```

Colspan and Rowspan Attributes

 You will use colspan attribute if you want to merge two or more columns into a single column. Similar way you will use rowspan if you want to merge two or more rows

```
<!DOCTYPE html>
                       Row 1 Cell 1
<html>
                       Row 1 Cell 2
<head>
                       Row 1 Cell 3
<title>HTML Table Colspan/Rowspan</title>
                       </head>
                       Row 2 Cell 2
<body>
                       Row 2 Cell 3
Row 3 Cell 1
Column 1
                       Column 2
                       Column 3
                       </body>
</html
```

Column 1	Column 2	Column 3
IIR our 1 Call 11	Row 1 Cell 2	Row 1 Cell 3
	Row 2 Cell 2	Row 2 Cell 3
Row 3 Cell 1		

Tables Backgrounds

- You can set table background using one of the following two ways:
 - bgcolor attribute You can set background color for whole table or just for one cell.
 - background attribute You can set background image for whole table or just for one cell.

```
Column 1
Column 2
Column 3
Row 1 Cell 1Row 1 Cell 2Row 1 Cell 2
3
Row 2 Cell 2Row 2 Cell 3
Row 3 Cell 1
                 Column 1
                      Column 2
                           Column 3
```

Row 1 Cell 1

Row 3 Cell

Row 1 Cell 2 Row 1 Cell 3

Row 2 Cell 2 Row 2 Cell 3

```
Column 1
Column 2
Column 3
Row 1 Cell 1Row 1 Cell 2Row 1
Cell 3
Row 2 Cell 2Row 2 Cell 3
Row 3 Cell 1
```

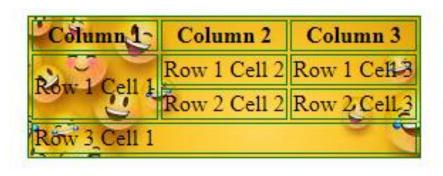


Table Height and Width

 You can set a table width and height using width and height attributes. You can specify table width or height in terms of pixels or in terms of percentage of available screen area.

```
Row 1, Column 1

Row 1, Column 2

2

<
```

Table Caption

• The caption tag will serve as a title or explanation for the table and it shows up at the top of the table.

```
<caption>This is the caption</caption>

row 1, column 1row 1, column 2

row 2, column 1row 2, column 2
```

Table Header, Body, and Footer

- Tables can be divided into three portions: a header, a body, and a foot.
- The three elements for separating the head, body, and foot of a table are:
- <thead> to create a separate table header.
- to indicate the main body of the table.
- <tfoot> to create a separate table footer.
- A table may contain several elements to indicate different pages or groups of data. But it is notable that <thead> and <tfoot> tags should appear before

```
<thead>
This is the head of the table
</thead>
<tfoot>
This is the foot of the table
</tfoot>
Cell 1
Cell 2
Cell 3
Cell 4
This is the head of the table
                                 Cell 3
            Cell 1
                       Cell 2
                                            Cell 4
This is the foot of the table
```

Nested Tables

 You can use one table inside another table. Not only tables you can use almost all the tags inside table data tag .

```
Name
Salary
Ramesh Raman
5000
Shabbir Hussein
7000
Name
                         Salary
Ramesh Raman
                       5000
      Shabbir Hussein
7000
```

Table Cells that Span Many Columns

To make a cell span more than one column, use the colspan attribute:

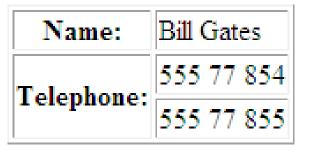
```
Name
 Telephone
Bill Gates
555 77 854
555 77 855
```

Name		7	[elep	hone	
Bill Gates	555	77	854	555 77	855

Table Cells that Span Many Rows

To make a cell span more than one row, use the rowspan attribute:

```
Name:
Bill Gates
Telephone:
555 77 854
555 77 855
```



```
Student information
                       3.
Sarita
                        Patil
<caption>Student Information
90%
 Number
                        First Name:
                       Last Name:
  Percentage
 1.
 Aman
                       Student Information
 Patel
                 Number First Name: Last Name: Percentage
   87%
                           Patel
                                 87%
                     Aman
Dhole
                     Mala
                                 55%
 2.
 Mala
                 3
                     Sarita
                           Patil
                                 90%
 Dhole
   55%
```

HTML Lists

• Unordered lists and ordered lists are commonly used in HTML

Unordered List	Ordered List	
The first itemThe second itemThe third itemThe fourth item	 The first item The second item The third item The fourth item 	

Unordered HTML Lists

- An unordered list starts with the
 tag.
- Each list item starts with the tag.
- The list items will be marked with bullets (small black circles):

Unordered List with Default Bullets

Example Coffee Tea Milk

O/P:

Unordered list

- Coffee
- Tea
- Milk

Unordered HTML Lists - The Style Attribute

Value	Description
disc	Sets the list item marker to a bullet (default)
circle	Sets the list item marker to a circle
square	Sets the list item marker to a square
none	The list items will not be marked
Value	Description

```
<!DOCTYPE html>
<html>
<head>
<title>HTML Unordered List</title>
</head>
<body>
 Beetroot
 Ginger
 Potato
 Radish
 </body>
</html>
```

- Beetroot
- Ginger
- Potato
- Radish

Ordered HTML Lists

An ordered list starts with the **tag.** Each list item starts with the **tag.**

```
Example:

Coffee
Tea
Milk
```

```
Ordered List
O/P:
Ordered list
1. Coffee
```

2. Tea

3. Milk

Ordered HTML Lists - The Type Attribute

A **type** attribute can be added to an **ordered list**, to define the type of the marker:

Туре	Description
type="1"	The list items will be numbered with numbers (default)
type="A"	The list items will be numbered with uppercase letters
type="a"	The list items will be numbered with lowercase letters
type="I"	The list items will be numbered with uppercase roman numbers
type="i"	The list items will be numbered with lowercase roman numbers

```
<!DOCTYPE html>
<html>
<head>
<title>HTML Ordered List</title>
</head>
<body>

    type="1">

 Beetroot
 Ginger
 Potato
 Radish
 </body>
</html>
```

- 1. Beetroot
- 2. Ginger
- 3. Potato
- 4. Radish

- The start Attribute You can use start attribute for
 tag to
 specify the starting point of numbering you need. Following are
 the possible options:
- Numerals starts with 4.
- Numerals starts with IV.
- Numerals starts with iv.
- Letters starts with d.
- Letters starts with D.

```
<!DOCTYPE html>
<html>
<head>
<title>HTML Ordered List</title>
</head>
<body>
 Beetroot
 Ginger
 Potato
                                    iv. Beetroot
 Radish
                                    v. Ginger
 vi. Potato
</body>
                                   vii. Radish
</html>
```

Nested HTML Lists

List can be nested (lists inside lists):

```
Example:
                       A Nested List:
ul>
                       O/P:
Coffee
                       Coffee
Tea
                       Tea
 ul>
                          ○Black tea
  Black tea
                          oGreen tea
  Green tea
                       •Milk
 Milk
```

HTML Definition Lists

- HTML and XHTML supports a list style which is called definition lists where entries are listed like in a dictionary or encyclopedia. The definition list is the ideal way to present a glossary, list of terms, or other name/value list.
- Definition List makes use of following three tags.
 - <dl> Defines the start of the list
 - <dt> A term
 - <dd>- Term definition
 - </dl> Defines the end of the list

```
<html>
<head>
<title>HTML Definition List</title>
</head>
<body>
<dl>
<dt><b>HTML</b></dt>
<dd>This stands for Hyper Text Markup Language</dd>
<dt><b>HTTP</b></dt>
<dd>This stands for Hyper Text Transfer Protocol</dd>
</dl>
</body>
</html>
```

HTML

This stands for Hyper Text Markup Language
HTTP

This stands for Hyper Text Transfer Protocol

Summary

- Use the HTML ul> element to define an unordered list
- Use the HTML **type** attribute to define the bullet style
- Use the HTML
 element to define an ordered list
- Use the HTML type attribute to define the numbering type
- Use the HTML <Ii> element to define a list item
- Use the HTML <dl> element to define a definition list
- Use the HTML <dt> element to define the definition term
- Use the HTML <dd> element to define the definition data

HTML Link

- A webpage can contain various links that take you directly to other pages and even specific parts of a given page. These links are known as hyperlinks
- Navigate between Web sites by clicking on words, phrases, and images.
- A link is specified using HTML tag <a>. This tag is called anchor tag.
- Anything between the opening <a> tag and the closing tag becomes
 part of the link and a user can click that part to reach to the linked document
 HTML link is a hyperlink.
- Syntax:

```
<a href="url">link text</a>
<a href=http://www.gmail.com/>Welcome to gmail</a>
```

The **href** attribute specifies the destination address

Local Links

- The example above used an absolute URL (A full web address).
- A local link (link to the same web site) is specified with a relative URL (without http://www....).

HTML Images

HTML Links - The target Attribute

The target Attribute: This attribute is used to specify the location where linked document is opened

Option	Description
_blank	Opens the linked document in a new window or tab.
_self	Opens the linked document in the same frame.
_parent	Opens the linked document in the parent frame.
_top	Opens the linked document in the full body of the window.
targetframe	Opens the linked document in a named targetframe.

VIT College VIT College

```
<!DOCTYPE html>
<html>
<head>
<title>Hyperlink Example</title>
</head>
<body>
Click any of the following links
Click any of the following links
<a href="/2018-19/web technology/list.html" target=" blank">Opens in New</a> <br/> <br/> <br/>
<a href="/2018-19/web technology/list.html" target=" top">Opens in Body</a>
</body>
</html>
```

Click any of the following links

Opens in New

Opens in Self

Opens in Parent

Opens in Body

Setting Link Colors:

- You can set colors of your links, active links and visited links using link, alink and vlink attributes of <body> tag.
 - By default, a link will appear like this (in all browsers):
 - An unvisited link is underlined and blue
 - A visited link is underlined and purple
 - An active link is underlined and red
- Example

```
<!DOCTYPE html>
<html>
<head>
<title>Hyperlink Example</title>
<base href="http://www.tutorialspoint.com/">
</head>
<body alink="#54A250" link="#040404" vlink="#F40633">
Click following link
<a href="/html/index.htm" target="_blank" >HTML Tutorial</a>
</body>
</html>

Click following link

HTML Tutorial
```

- Download Links : You can create text link to make your PDF, or DOC or ZIP files downloadable.
- Example:

```
!DOCTYPE html>
<html>
<head>
<title>Hyperlink Example</title>
</head>
<body>
<a href="http://www.tutorialspoint.com/page.pdf">Download PDF File</a>
</body>
</html>
```

Download PDF File

HTML – IMAGE LINKS

- The tag is empty, it contains attributes only, and does not have a closing tag.
- The src attribute specifies the URL (web address) of the image:

```
<img src="url" alt="some_text">
<img src=" smiley.gif " alt="Smiley">
<img src=" smiley.gif " alt="Smiley" style="width:128px;height:128px;" >
```

- Set Image Border By default, image will have a border around it, you can specify border thickness in terms of pixels using border attribute. A thickness of 0 means, no border around the picture.
 -
- Set Image Alignment By default, image will align at the left side of the page, but you can use align attribute to set it in the center or right.
 -

HTML Links - Image as Link

```
The image is a link. You can click on it.
<a href="http://www.yahoomail.com">
  <img src="smiley.gif" alt="Yahoomail">
  </a>
```

alt Attribute: The alt attribute specifies an alternate text for an image, if the image cannot be displayed.

The image is a link. You can click on it.



HTML – EMAIL LINKS

- HTML <a> tag provides you option to specify an email address to send an email.
- While using <a> tag as an email tag, you will use mailto: email address along with href attribute.
- Following is the syntax of using mailto instead of using http.
- Send Email

Send Email

HTML Links - Create a Bookmark

- HTML bookmarks are used to allow readers to jump to specific parts of a Web page.
- Useful if your webpage is very long.
- To make a bookmark, you must first create the bookmark, and then add a link to it.
- When the link is clicked, the page will scroll to the location with the bookmark.
- NOTE: only useful when no of links are more.

(Won't work in 2-3 links)

Example of Bookmark Link

This chapter explains ba bla bla

This chapter explains ba bla bla

Jump to Email Server2

Email Server1

This chapter explains ba bla bla

Email Server2

This chapter explains ba bla bla

Email Sever3

This chapter explains ba bla bla

Email Sever4

This chapter explains ba bla bla

Email Sever5

This chapter explains ba bla bla

Email Sever6

This chapter explains ba bla bla

Summery

- Use the HTML <a> element to define a link
- Use the HTML href attribute to define the link address
- Use the HTML target attribute to define where to open the linked document
- Use the HTML element (inside <a>) to use an image as a link
- Use the HTML **id** attribute (id="value") to define bookmarks in a page
- Use the HTML **href** attribute (href="#value") to link to the bookmark
- Use the alt attribute to show text while failure of image display

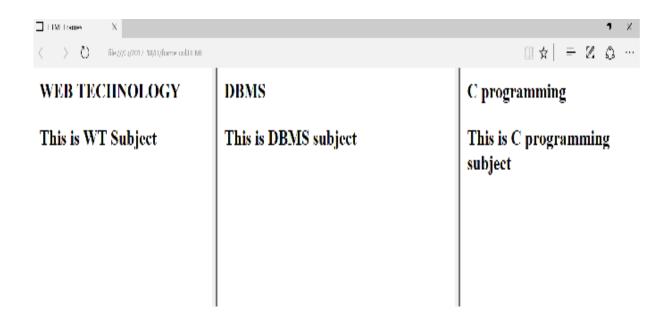
HTML – FRAMES

- HTML frames are used to divide your browser window into multiple sections where each section can load a separate HTML document.
- A collection of frames in the browser window is known as a frameset.
- The window is divided into frames in a similar way the tables are organized: into rows and columns.
- Disadvantages of Frames:
- Some smaller devices cannot cope with frames often because their screen is not big.
- 2. Page will be displayed differently on different computers due to different screen resolution.
- 3. The browser's back button might not work as the user hopes.
- 4. Few browsers that do not support frame technology.

Creating Frames

- Use <frameset> tag instead of <body> tag.
- It defines, how to divide the window into frames. The rows attribute of <frameset> tag defines horizontal frames and cols attribute defines vertical frames.
- Each frame is indicated by <frame> tag and it defines which HTML document shall open into the frame.

```
<!DOCTYPE html>
<html>
<head>
<title>HTML Frames</title>
</head>
<frameset cols="30%,40%,30%">
 <frame name="top" src="page1.html" />
 <frame name="main" src="page2.html" />
 <frame name="bottom" src="page3.html" />
 <noframes>
           Your browser does not support frames. </body>
 <body>
 </noframes>
</frameset>
</html
```



```
<!DOCTYPE html>
<html>
<head>
<title>HTML Frames</title>
</head>
<frameset rows="30%,40%,30%">
 <frame name="top" src="page1.html" >
 <frame name="main" src="page2.html">
 <frame name="bottom" src="page3.html" >
 <noframes>
         Your browser does not support frames.
 <body>
</body>
 </noframes>
</frameset>
</html
```



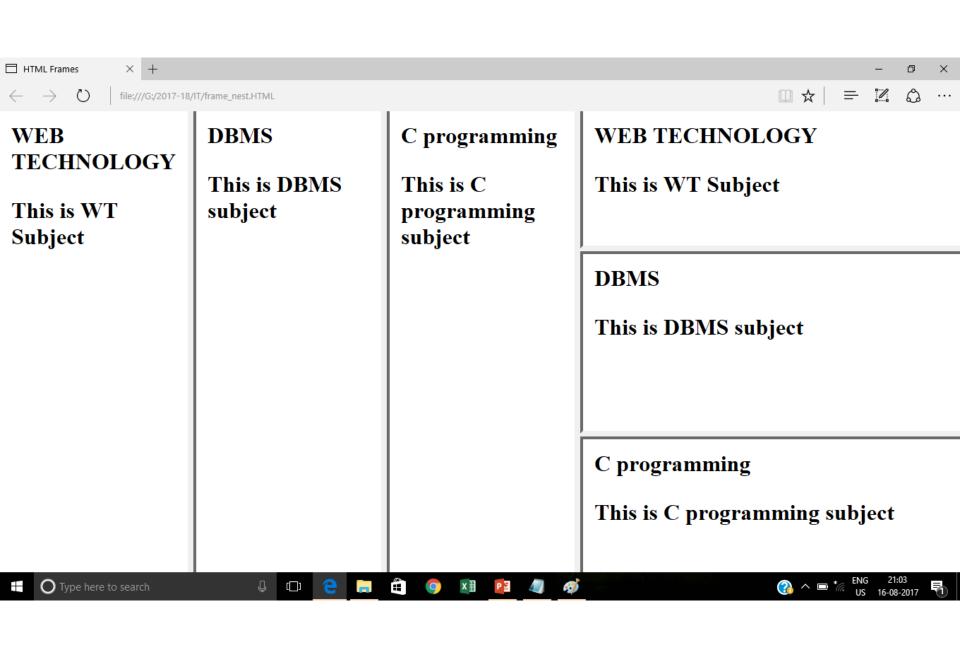
C programming

This is C programming subject



Nested frames

```
<!DOCTYPE html>
<html>
<head>
<title>HTML Frames</title>
</head>
<frameset cols="20%,20%,20%,*">
 <frame name="f1" src="page1.html" />
 <frame name="f2" src="page2.html" />
 <frame name="f3" src="page3.html" />
<frameset rows="30%,40%,30%">
 <frame name="top" src="page1.html" />
 <frame name="main" src="page2.html" />
 <frame name="bottom" src="page3.html" />
 <noframes>
           Your browser does not support frames. </body>
 <body>
 </noframes>
</frameset>
</html
```



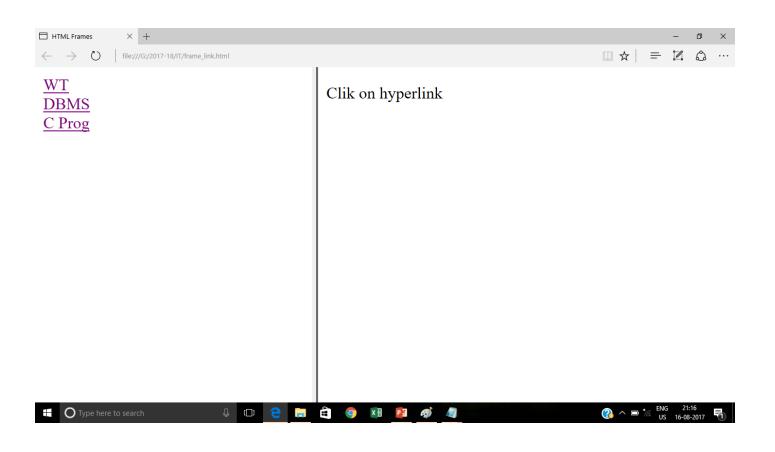
```
<!DOCTYPE html>
<html>
<head>
<title>HTML Frames</title>
</head>
<frameset cols="40%,60%">
 <frame name="menu" src="menu.html" />
 <frame name="main" src="main.html" />
 <noframes>
 <body>
          Your browser does not support frames. </body>
 </noframes>
</frameset>
</html
```

Example of frames

Menu.html

```
<!DOCTYPE html>
<!DOCTYPE html>
                                            <html>
<html>
                                            <head>
<head>
                                            <title>HTML Frames</title>
<title>HTML Frames</title>
                                            </head>
</head>
                                            <body>
<body>
                                             Click on hyperlink 
<a href="page1.html" target="main">WT</a>
                                            </body>
<br>
                                            </html>
<a href="page2.html"
target="main">DBMS</a><br>
<a href="page3.html" target="main">C
Prog</a><br>
</html>
```

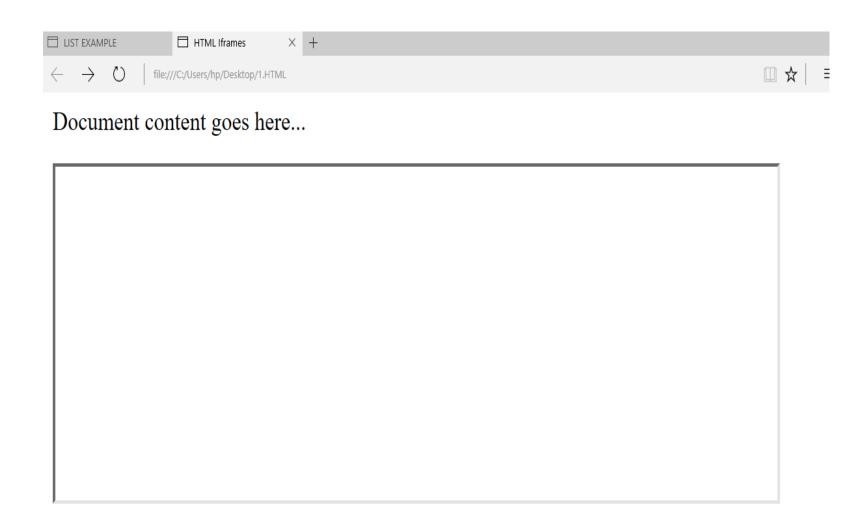
main.html



HTML – IFRAMES

- You can define an inline frame with HTML tag <iframe>.
- The <iframe> tag is not somehow related to <frameset> tag, instead, it can appear anywhere in your document.
- The <iframe> tag defines a rectangular region within the document in which the browser can display a separate document, including scrollbars and borders.

```
<html>
<head>
<title>HTML Iframes</title>
</head>
<body>
Document content goes here...
<iframe src="/html/menu.htm" width="555" height="200">
Sorry your browser does not support inline frames.
</iframe>
Document content also go here...
</body>
</html>
```



Document content also go here...

Attributes of Frameset and Frame

- Attributes of frameset:
 - Rows
 - Cols
 - Border
 - Frameborder
 - framespacing,
- Attributes of frame:
 - Src
 - Name
 - Frameborder "0" "1"
 - Scrolling "yes","no","auto"
 - Resize "noresize"
- Attributes of iframe:
 - Src
 - Name
 - Frameborder
 - Scrolling "yes","no","auto"
 - Resize "noresize"

Block Elements :

• Block elements appear on the screen as if they have a line break before and after them. For example, the , <h1>, <h2>, <h3>, <h4>, <h5>, <h6>, , , <dl>, , <hr />, <blockquote>, and <address> elements are all block level elements. They all start on their own new line, and anything that follows them appears on its own new line.

Inline Flements

 Inline elements, on the other hand, can appear within sentences and do not have to appear on a new line of their own. The , <i>, <u>,
 , , <sup>, <sub>, <big>, <small>, , <ins>, ,
 <code>, <cite>, <dfn>, <kbd>, and <var> elements are all inline elements.

Grouping HTML Elements

```
There are two important tags which we use very frequently to group various other HTML tags (i) <div> tag and (ii)
  <span> tag
<div style = "color:red">
    <h4>This is first group</h4>
    Following is a list of vegetables
    Beetroot
      Ginger
      Potato
      Radish
    </div>
                                                                       Following is a list of vegetables
<div style = "color:green">
    <h4>This is second group</h4>

    Beetroot

    Ginger

    Following is a list of fruits

    Potato

                                                                         · Radish
    ul>
                                                                       This is second group
      Apple
      Banana
                                                                       Following is a list of fruits
      Mango

    Apple

      Strawberry

    Banana

    Mango

    Strawberry

   </div>
```

This is red and this is green

HTML – BACKGROUNDS

- By default, your webpage background is white in color.
 - Html Background with Colors
 - Html Background with Images
- <tagname bgcolor="color_value"...>
- HTML Color Coding Methods
 - Color names You can specify color names directly like green, blue or red.
 - Hex codes A six-digit code representing the amount of red, green, and blue that makes up the color.
 - Color decimal or percentage values This value is specified using the rgb() property.

HTML – COLORS

- The <body> tag has following attributes which can be used to set different colors:
 - bgcolor sets a color for the background of the page.
 - text sets a color for the body text.
 - alink sets a color for active links or selected links.
 - link sets a color for linked text.
 - vlink sets a color for visited links that is, for linked text that you have already clicked on.

HTML Colors - Color Names

W3C Standard 16 Colors

Here is the list of W3C Standard 16 Colors names and it is recommended to use them.



HTML Colors - Hex Codes

Each hexadecimal code will be preceded by a pound or hash sign #. Following is a list of few colors using hexadecimal notation.

Color	Color HEX
	#000000
	#FF0000
	#00FF00
	#0000FF
	#FFFF00
	#00FFFF
	#FF00FF
	#C0C0C0
	#FFFFFF

HTML Colors - RGB Values

Color	Color RGB
	rgb(0,0,0)
	rgb(255,0,0)
	rgb(0,255,0)
	rgb(0,0,255)
	rgb(255,255,0)
	rgb(0,255,255)
	rgb(255,0,255)
	rgb(192,192,192)
	rgb(255,255,255)

```
<!DOCTYPE html>
<html>
<head>
<title>HTML Background Colors</title>
</head>
<body>
<!-- Format 1 - Use color name -->
 This background is yellow 
<!-- Format 2 - Use hex value -->
 This background is red 
<!-- Format 3 - Use color value in RGB terms -->
 This background is cyan 
</body>
                       This background is yellow
                       This background is red
</html>
</html>
```

Html Background with Images

<tagname background="Image URL"...>

```
<!DOCTYPE html>
<html>
<head>
<title>HTML Background Images</title>
</head>
<body>
<!-- Set table background -->
This background is filled up with HTML image.
× ☐ HTML Background Imag × +
</body>
</html>
```

HTML – FONTS

- The font tag is having three attributes called size, color, and face.
- **Set Font Size:** You can set content font size using size attribute. The range of accepted values is from 1(smallest) to 7(largest). The default size of a font is 3
 - Font size="1"

Setting Font Face :

- Times New Roman

>
- Verdana

- hello

Setting Font Color :

- This text is in pink

- This text is red
- This text is red

The <basefont> Element:

- The <basefont> element is supposed to set a default font size, color, and typeface for any parts of the document that are not otherwise contained within a tag.
- You can use the elements to override the <basefont> settings.

```
<!DOCTYPE html>
<html>
<head>
<title>Setting Basefont Color</title>
</head>
<body>
<basefont face="arial, verdana, sans-serif" size="2" color="#ff0000"> This is the
page's default font.
<h2>Example of the &lt;basefont&gt; Element</h2>
<font size="+2" color="darkgray">
This is darkgray text with two sizes larger
</font>
<font face="courier" size="-1" color="#000000"> It is a courier font, a size smaller
and black in color.
</font>
</body>
```

The <base>basefont> Element:



This is the page's default font.

Example of the <baseline > Element

This is darkgray text with two sizes larger

It is a courier font, a size smaller and black in color.

HTML Forms

- Primary element of a web page
- HTML Forms are required, when you want to collect some data from the site visitor.
- For example, during user registration you would like to collect information such as name, email address, credit card etc
- HTML forms contain form elements.
 - Text Input Controls
 - Checkboxes Controls
 - Radio Box Controls
 - Select Box Controls
 - File Select boxes
 - Hidden Controls
 - Clickable Buttons
 - Submit and Reset Button

Form Attributes

The HTML <form> tag is used to create an HTML form and it has following syntax:

```
<form action="Script URL" method="GET|POST">
form elements like input, textarea etc.
</form>
```

Attribute	Description
action	Backend script ready to process your passed data.
method	Method to be used to upload data. The most frequently used are GET and POST methods.
target	Specify the target window or frame where the result of the script will be displayed. It takes values like _blank, _self, _parent etc.

HTML Forms - The Input Element

- •The most important form element is the <input> element.
- •The <input> element is used to select user information.
- •An <input> element can vary in many ways, depending on the type attribute. An <input> element can be of type text field, checkbox, password, radio button, submit button, and more.
- The most common input types are described below.

Text Fields

<input type="text"> defines a one-line input field that a user can enter
text into:

<form>

First name: <input type="text" name="firstname">

Last name: <input type="text" name="lastname">

</form>

First name:	
Last name:	

Attributes

Following is the list of attributes for <input> tag for creating text field.

Attribute	Description
type	Indicates the type of input control and for text input control it will be set totext.
name	Used to give a name to the control which is sent to the server to be recognized and get the value.
value	This can be used to provide an initial value inside the control.
size	Allows to specify the width of the text-input control in terms of characters.
maxlength	Allows to specify the maximum number of characters a user can enter into the text box.

Password Field

<input type="password"> defines a password field:

```
<form>
Password: <input type="password" name="pwd">
</form>
```

Password:

Note: The characters in a password field are masked (shown as asterisks or circles).

Multiple-Line Text Input Controls-textarea

```
<!DOCTYPE html>
<html>
<head>
<title>Multiple-Line Input Control</title>
</head>
<body>
<form>
Description: <br />
<textarea rows="5" cols="50" name="description">
Enter description here...
</textarea>
                          Description
</form>
</body>
</html>
```

Radio Buttons

<input type="radio"> defines a radio button. Radio buttons let a
user select ONLY ONE of a limited number of choices:

Example:

```
<form>
  <input type="radio" name="gender" value="male">Male <br>
  <input type="radio" name="gender" value="female">Female
```

</form>

Male

Female

Radio Buttons Attributes

Attribute	Description
type	Indicates the type of input control and for checkbox input control it will be set to radio.
name	Used to give a name to the control which is sent to the server to be recognized and get the value.
value	The value that will be used if the radio box is selected.
checked	Set to checked if you want to select it by default.

Checkboxes

<input type="checkbox"> defines a checkbox. Checkboxes let a user select ZERO or MORE options of a limited number of choices.

Example:

- 🔲 I have a bike
- I have a car

Checkboxes Attributes

Attribute	Description
type	Indicates the type of input control and for checkbox input control it will be set to checkbox.
name	Used to give a name to the control which is sent to the server to be recognized and get the value.
value	The value that will be used if the checkbox is selected.
checked	Set to checked if you want to select it by default.

The <select> Element

Also called drop down box which provides option to list down various options

Attribute	Description	
name	Used to give a name to the control which is sent to the server to be recognized and get the value.	
size	This can be used to present a scrolling list box.	
multiple	If set to "multiple" then allows a user to select multiple items from the menu.	
value	The value that will be used if an option in the select box box is selected.	
selected	Specifies that this option should be the initially selected value when the page loads.	
label	An alternative way of labeling options	

The <select> Element

```
<html>
<head>
<title>Select Box Control</title>
</head>
<body>
<form>
                                                Maths
<select name="dropdown" size=3 multiple>
                                                Physics
<option value="Maths" selected>Maths
                                                Chemistry
<option value="Physics">Physics</option>
<option value="Chemistry">Chemistry</option>
<option value="Biology" label="xyz">Biology</option>
</select>
</form>
</body>
</html>
```

File upload control

- •If you want to allow a user to upload a file to your web site, you will need to use a file upload box, also known as a file select box.
- Example <!DOCTYPE html> <html> <head> <title>File Upload Box</title> </head> <body> <form> <input type="file" name="fileupload" accept="image/*" /> </form> Browse... </body> </html>

Submit Button

<input type="submit"> defines a submit button.

A submit button is used to send form data to a server. The data is sent to the page specified in the form's action attribute. The file defined in the action attribute usually does something with the received input:

```
<form name="input" action="html_form_action.asp" method="get">
Username: <input type="text" name="user">
<input type="submit" value="Submit">
</form>
```

Username:		Submit
-----------	--	--------

If you type some characters in the text field above, and click the "Submit" button, the browser will send your input to a page called "html_form_action.asp". The page will show you the received input.

HTML <button> Tag

Definition and Usage

The <button> tag defines a clickable button.

Inside a <button> element you can put content, like text or images. This is the difference between this element and buttons created with the <input> element.

Tip: Always specify the type attribute for a <button> element. Different browsers use different default types for the <button> element.

```
<!DOCTYPE html>
<html>
<body>
<button type="button" onclick="alert('Hello world!')">Click Me!</button>
</body>
</html>
```

button

```
<!DOCTYPE html>
<html>
<head>
<title>File Upload Box</title>
</head>
<body>
<form>
<input type="submit" name="submit" value="Submit" />
<input type="reset" name="reset" value="Reset" />
<input type="button" name="ok" value="OK" />
<input type="image" name="imagebutton" src="g://smiley.gif" />
</form>
</body>
</html>
```



Label Tag

- It is considered better to have label in form. As it makes the code parser/browser/user friendly.
- If you click on the label tag, it will focus on the text control.
 To do so, you need to have for attribute in label tag that must be same as id attribute of input tag.
- It is more worthy with touchscreens.

```
<form>
<label for="firstname">First Name: </label> <br/>
<input type="text" id="firstname" name="firstname"
"/> <br/>
<label for="lastname">Last Name: </label>
<input type="text" id="lastname" name="lastname"
"/> <br/>
</form>
```

HTML 5 Email Field Control

• The email field in new in HTML 5. It validates the text for correct email address. You must use @ and . in this field.

```
<form>
<label for="email">Email: </label>
<input type="email" id="email" name="email"/>
<br/></form>
```

```
<!DOCTYPE html>
<html>
<body>
<form action="demo_form.asp" method="get">
First name: <input type="text" name="fname"><br>
Last name: <input type="text" name="lname"><br>
<button type="submit" value="Submit">Submit</button>
<button type="reset" value="Reset">Reset</button>
</form>
</body>
</html>
```

First name	::	
Last name	:	
Submit	Reset	

<fieldset>

• Group related elements in a form: <html> <body> <form> <fieldset> <legend>Personal:</legend> Name: <input type="text">
 Email: <input type="text">
 Date of birth: <input type="text"> </fieldset> <fieldset> <legend>Official:</legend> Empno: <input type="text">
 Post: <input type="text">
 salary: <input type="text"> </fieldset> </form> </body> </html>

Name:		
Email:		
Date of birth		
Official:		
Empno:		
_		
Post:		

different input types used in HTML:

- <input type="button">
- <input type="checkbox">
- <input type="color">
- <input type="date">
- <input type="email">
- <input type="file">
- <input type="hidden">
- <input type="image">
- <input type="month">
- <input type="number">
- <input type="password">
- <input type="radio">
- <input type="range">
- <input type="reset">
- <input type="search">
- <input type="submit">
- <input type="tel">
- <input type="text">
- <input type="time">
- <input type="url">
- /input typo="wook">

- Attribute Description
- Disabled Specifies that an input field should be disabled
- Max Specifies the maximum value for an input field
- Maxlength Specifies the maximum number of character for an input field
- Min Specifies the minimum value for an input field
- Required Specifies that an input field is required (must be filled out)
- Size Specifies the width (in characters) of an input field
- Step Specifies the legal number intervals for an input field
- Value Specifies the default value for an input field

Tag	Description
<datalist></datalist>	It specifies a list of pre-defined options for input control.
<keygen/>	It defines a key-pair generator field for forms.
<output></output>	It defines the result of a calculation.

Html4 Structure

div id = "header"

div id = "menu" div class = "post"

div class = "post"

VS

nav

div id= "footer"

Html5 Structure

header

article

article

footer

HTML	HTML5
It didn't support audio and video without the use of flash player support.	It supports audio and video controls with the use of <audio> and <video> tags.</video></audio>
It uses cookies to store temporary data.	It uses SQL databases and application cache to store offline data.
Does not allow JavaScript to run in browser.	Allows JavaScript to run in background. This is possible due to JS Web worker API in HTML5.
It does not allow drag and drop effects.	It allows drag and drop effects.
Not possible to draw shapes like circle, rectangle, triangle etc.	HTML5 allows to draw shapes like circle, rectangle, triangle etc.
It works with all old browsers.	It supported by all new browser like Firefox, Mozilla, Chrome, Safari, etc.
Older version of HTML are less mobile-friendly.	HTML5 language is more mobile-friendly.
Elements like nav, header were not present.	New element for web structure like nav, header, footer etc.
Vector graphics is possible in HTML with the help of various technologies such as VML, Silver-light, Flash, etc.	Vector graphics is additionally an integral a part of HTML5 like SVG and canvas.

HTML – MARQUEES

- An HTML marquee is a scrolling piece of text displayed either horizontally across or vertically down your webpage depending on the settings.
- This is created by using HTML <marquees> tag.

```
    Ex:
    !DOCTYPE html></html></head></head></title>HTML marquee Tag</title></head></body></marquee>This is basic example of marquee</marquee></body></html>
```

Attribute	Description
width	This specifies the width of the marquee. This can be a value like 10 or 20% etc.
height	This specifies the height of the marquee. This can be a value like 10 or 20% etc.
direction	This specifies the direction in which marquee should scroll. This can be a value like up, down, left or right.
bgcolor	This specifies background color in terms of color name or color hex value.
hspace	This specifies horizontal space around the marquee. This can be a value like 10 or 20% etc
vspace	This specifies vertical space around the marquee. This can be a value like 10 or 20% etc.

HTML – MARQUEES

```
<!DOCTYPE html>
<html>
<head>
<title>HTML marquee Tag</title>
</head>
<body>
<marquee direction="right">This text will scroll from left to right</marquee>
</body>
</html>
```

HTML – MARQUEES

```
<!DOCTYPE html>
<html>
<head>
<title>HTML marquee Tag</title>
</head>
<body>
<marquee direction="up">This text will scroll from bottom to
up</marquee>
</body>
</html>
```

HTML – EMBED MULTIMEDIA

- Sometimes you need to add music or video into your web page.
- The easiest way to add video or sound to your web site is to include the special HTML tag called <embed>.
- You can also include a <noembed> tag for the browsers which don't recognize the <embed> tag.
- <noembed> to display a single JPG image if browser does not support <embed> tag.
- Supported Video Types :
- .swf files are the file types created by Macromedia's Flash program.
- .wmv files are Microsoft's Window's Media Video file types.
- .mov files are Apple's Quick Time Movie format.
- .mpeg files are movie files created by the Moving Pictures Expert Group.

HTML – EMBED MULTIMEDIA

```
<!DOCTYPE html>
<html>
<head>
<title>HTML embed Tag</title>
</head>
<body>
<embed src="/html/yourfile.mid" width="100%" height="60" >
 <noembed><img src="yourimage.gif" alt="Alternative Media" >
</noembed>
</embed>
</body>
</html>
```

Background Audio

- You can use HTML
bgsound> tag to play a soundtrack in the background of your webpage.
- This tag is supported by Internet Explorer only and most of the other browsers ignore this tag.

Background Audio

```
<!DOCTYPE html>
<html>
<head>
<title>HTML embed Tag</title>
</head>
<body>
<bgsound src="/html/yourfile.mid">
 <noembed><img src="yourimage.gif" ></noembed>
</bgsound>
</body>
</html>
```

<video> Element

```
<html>
<body>
<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>
</body>
</html>
```

```
<audio> Element
<body>
<audio controls>
 <source src="horse.ogg" type="audio/ogg">
 <source src="horse.mp3" type="audio/mpeg">
Your browser does not support the audio element.
</audio>
</body>
</html>
```

Absolute classes registration

Name:	*
E-mail:	*
Time:	
Classes:	
Gender: ○ Female ○ Male *	
Android 🔺	
Java	
C#	
Select: Data Base ▼	
Agree: 🔲 *	
Submit	