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HTML

• Short for *Hyper Text Markup Language*, the language used to create documents on the World Wide Web.

 HTML was invented by Tim Berners-Lee while at CERN, the European Laboratory for Particle Physics in Geneva.

HTML Versions

Version	Year
HTML	1991
HTML+	1993
HTML 2.0	1995
HTML 3.2	1997
HTML 4.01	1999
XHTML	2000
HTML5	2012

HTML

- Hyper Text Markup Language
 - Hypertext Dealing with links
 - Markup Designing documents with some tags, styles or lay outs

Tags

- A tag is a unit of markup, start with a less-than sign (<) followed by a keyword and concluded or ended with a greate-then sign (>).
- The symbol great-than and less-than are called angle brackets.

HTML Creation: What do you need?

- Editor (Notepad)
- Type contents and save with a .htm or .html extension
 - Eg. MyPage.html
- Browser to view results
- Deployment: Place to put your web site on the internet (store the files that contain the HTML code, images, video, music, etc.)
- URL for your website

HTML Elements

An HTML element usually consists of a **start** tag and **end** tag, with the content inserted in between:

<tagname>Content</tagname>

The HTML document begins with <html> and ends with </html>.

HTML Tags

- Paired Tags
- Unpaired Tags

Paired Tags

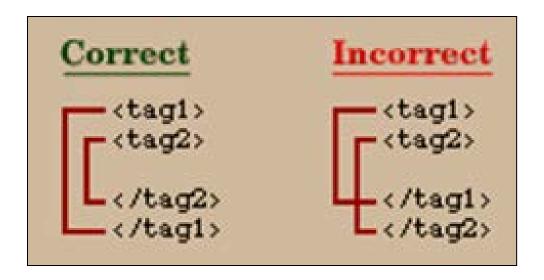
- A tag is said to be a paired tag if the text is placed between a tag and its companion tag.
- In paired tags, the first tag is referred to as Opening Tag and the second tag is referred to as Closing Tag.
- Example of Paired Tags in HTML:
- Paragraph

Unpaired Tags

- An unpaired tag does not have a companion tag. Unpaired tags are also known as Singular tags or Stand-Alone Tags.
- Example of Unpaired Tags in HTML:
-

HTML tags

- Case insensitive
- Unrecognised tags are simply ignored by browser!!
- Container tags must be nested!!



Structure of HTML document

• Basic structure:

```
Document Title
```

Structure of the web page

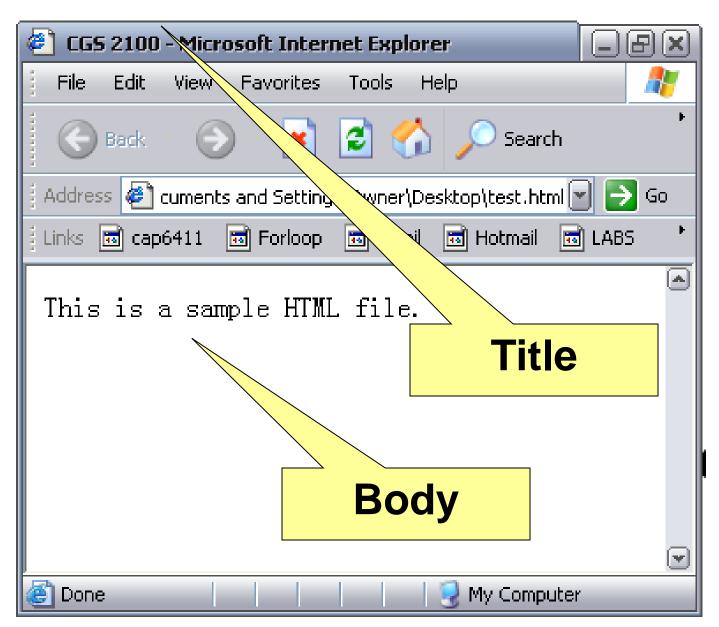
Inside the <html></html> tag

</html>

Each web page has a **body** part described in <body></body> tag:

```
<!-- This is a comment -->
 <!DOCTYPE html>
                          Declares the document as HTML5
<html>
  <head>
    <title> CGS 2100 </title>
  </head>
   <body>
       This is a sample HTML file.
   </body>
```

The content of the whole web page should be put here



HTML <!--Type your comment-->

 <!--This is a comment. Comments are not displayed in the browser-->

<!-- Do not view the picture at this moment -->

Body Tag - Attributes

Attribute	Value	Description
background	URL	Specifies a background image for a document
bgcolor	color	Specifies the background color of a document
<u>text</u>	color	Specifies the color of the text in a document
link	color	Specifies the color of unvisited links in a document
<u>vlink</u>	color	Specifies the color of visited links in a document
<u>alink</u>	color	Specifies the color of an active link in a document

Obsolete in HTML5, use CSS instead

	Body tag attributes - events
onafterprint	Function to call user has printed document
onbeforeprint	Function to call when user requests document to be printed
onbeforeunload	Funtion to call when document is to be unloaded
onblur	Function to call when document has lost focus
onerror	Function to call when document fails
onfocus	Function to call when document has focus
onhaschange	Function to call when fragment identifier portion of document's address has changed
onload	Function to call when document has loaded
onmessage	Function to call when the document received a message
onoffline	Function to call when Network communication fails
ononline	Function to call when Network communication is restored
onpopstate	Function to call when user navigated session history
onredo	Function to call when user moved forward in undo history
onresize	Function to call when document was resized
onstorage	Function to call when storage area changed
onundo	Function to call when user moved backward in undo history
onunload	Function to call when document is being unloaded

Coding Conventions

- Declare Document Type
 - Start with the <!DOCTYPE html> declaration to specify the HTML document
- Include the required elements: httml>, head, and <b dots.

 - Omitting <body> can produce errors in older browsers.
- Never Skip the <title> Element
- Use Lowercase Element Names
 - Mixing uppercase and lowercase names looks bad
 - Developers normally use lowercase as it looks cleaner
- Close All HTML Elements even you do not have to close
- Add comments to explain sections or complex logic.

Coding Conventions

- Always Quote Attribute/Property values
 - Visit our HTML
 tutorial
- Always Specify alt, width, and height for Images
 - This reduces flickering, because the browser can reserve space for the image before loading.
 - <img src="apple.gif" alt="APPLE" style="width:128px;h
 eight:128px">
- Do not add blank lines, spaces, or indentations without a reason.
- Use semantic tags where applicable (<header>, <footer>, <article>,
 <section>, etc
 - Use semantic tags to convey the meaning of content.
 - Avoid using non-semantic tags like <div> or unless necessary

HTML

- Text Elements
- Block Elements
- Code-Related Elements
- Character References

Text Elements

- Inline elements do not start on a new line and they typically affect text or content styling and structure.
 - : Generic container for inline styling.
 - (a): Anchor or hyperlink.
 - , : Make text bold (semantic emphasis with).
 - , <i>: Italicize text (semantic emphasis with).
 -
: Line break.
 - : Embeds an image.
 - <mark> : Highlights text.
 - <small> : Makes text smaller.
 - (sub) and (sup): Subscript and superscript text.
 - <code> , <kbd> , <samp> : Inline text elements for code or keyboard inputs.

Text Formatting Tags

Tag	Description
<u></u>	Defines bold text This text is bold.
<u> big></u>	Defines big text
	Defines emphasized text This text is emphasized.
<u><i></i></u>	Defines italic text This text is italic.
<mark></mark>	displayed as marked with yellow ink This text is italic. marked
<small></small>	Defines small text
	Defines strong text This text is strong.

Tag	Description
	Defines subscripted text
	This is subscripted text.
	Defines superscripted text
	This is superscripted text.
<ins></ins>	Defines inserted text
	<u>text</u>
	Defines deleted text
	blue
<strike></strike>	Deprecated. Use instead
<u><u></u></u>	Deprecated. Use <ins> instead</ins>

Block Elements

Block elements occupy the full width of their parent container by default and typically start on a new line.

- <div>: Generic container for grouping other elements.
- : Represents a paragraph.
- <h1> to <h6>: Headings, with <h1> being the most important.
- •
- : List item.
- , <thead>, , , , , : Table elements.
- <blockquote> : Represents a block of quoted text.

Code-Related Elements

- These elements are designed to display code snippets, keyboard inputs, or output in a readable format.
- <code> : Represents inline code.

```
html

Value the <code for for iteration f
```

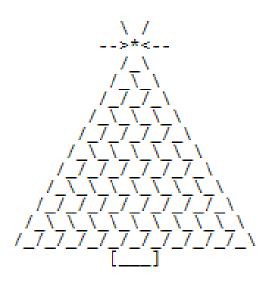
• : Displays preformatted text with preserved whitespace.

```
html

for (let i = 0; i < 10; i++) {
    console.log(i);
}
</pre>
```

PRE tag

- The tag defines preformatted text.
- Text in a element is displayed in a fixedwidth font (usually Courier), and it preserves both spaces and line breaks.



Code-Related Elements

<samp>: Represents sample output.

```
html
<samp>Error: File not found.</samp>
```

• <kbd>: Represents keyboard input.

```
html

<kbd>Ctrl</kbd> + <kbd>S</kbd> to save.
```

 Represents a variable in code.

```
html
<var>x</var> = <var>y</var> + 2;
```

<h1>-<h6>

The six different HTML headings:

<h1>This is heading 1</h1> largest

<h2>This is heading 2</h2>

<h3>This is heading 3</h3>

<h4>This is heading 4</h4>

<h5>This is heading 5</h5>

<h6>This is heading 6</h6> smallest

This is heading 1

This is heading 2

This is heading 3

This is heading 4

This is heading 5

This is heading 6

Attributes:

Attribute	Value	Description
<u>align</u>	left center right justify	Specifies the alignment of a heading

 tag

Attribute	Value	Description
<u>src</u>	URL	Specifies the URL of an image
<u>alt</u>	text	Specifies an alternate text for an image
<u>align</u>	top bottom middle left right	Specifies the alignment of an image according to surrounding elements
<u>border</u>	pixels	Specifies the width of the border around an image
<u>height</u>	pixels	Specifies the height of an image
<u>width</u>	pixels	Specifies the width of an image
ismap	ismap	Specifies an image as a server-side image-map
usemap	#mapname	Specifies an image as a client-side image-map

Hr tag

Attribute	Value	Description
<u>align</u>	left center right	Specifies the alignment of a <hr/> element
<u>noshade</u>	noshade	Specifies that a <hr/> element should render in one solid color (noshaded), instead of a shaded color
size	pixels	Specifies the height of a <hr/> > element
width	pixels%	Specifies the width of a <hr/> > element

Obsolete in HTML5, use CSS instead

P tag

This is some text in a paragraph.

Attribute	Value	Description
<u>align</u>	left right center justify	Specifies the alignment of the text within a paragraph

Font tag

Attribute	Value	Description
<u>face</u>	font_family	Specifies the font of text
size	number	Specifies the size of text
color	rgb(x,x,x) #xxxxxx colorname	Specifies the color of text

```
<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>
```

Obsolete in HTML5, use CSS instead

address

- The <address> tag defines the contact information
- The text in the <address> element usually renders in *italic*.
- Most browsers will add a line break before and after the address element.

```
<address>
Visit us at:<br>
Example.com<br>
Box 564, Disneyland<br>
USA
</address>
```

```
<address>
Email: <a href="mailto:support@example.com">
support@example.com</a><br>
Phone: +1 (555) 123-4567
</address>
```

Center tag

 You can use <center> tag to put any content in the center of the page.

Revision

Tag	Description
<html></html>	Defines an HTML document
<body></body>	Defines the document's body
<h1> to <h6></h6></h1>	Defines header 1 to header 6
	Defines a paragraph
 	Inserts a single line break
<hr/>	Defines a horizontal rule
	Defines a comment

```
Example HTML code:
           <HTML>
           <head>
           <title>Hello World</title>
           </head>
           <br/>
<br/>
dy bgcolor = "#000000">
           <font color = "#ffffff">
           <H1>Hello World</H1>
           </font>
           </body>
           </HTML>
```



HTML Exercise

- 1. Create a Personal homepage
- 2. Design an E-Greeting page which has properly aligned paragraphs with images

COMMONLY USED CHARACTERS

Result	Description	Entity Name
	non-breaking space	
<	less than	<
>	greater than	>
&	ampersand	&
¢	cent	¢

Result	Description	Entity Name
£	pound	£
¥	yen	¥
€	euro	€
§	section	§
©	copyright	©
®	registered trademark	®
₹	Rupees	₹ ;

Q tag

- The <q> tag defines a **short quotation**.
- Browsers normally insert quotation marks around the text.
- WWF's goal is to:
 <q>Build a future where people live in harmony with nature.

We hope they succeed.

WWF's goal is to: "Build a future where people live in harmony with nature." We hope they succeed.

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Character(s)	Literal(s)	Unicode value(s)
Single quotes ^{9, 10}	***	& #8216; & #8217;
Single low quote ¹¹	,	& #8218;
Double quotes ⁹	41 77	% #8220; % #8221;
Double low quote 11	n	& #8222;

Attribute	Value	Description Marquee tag
behavior	scroll slide alternate	Defines the type of scrolling.
bgcolor	rgb(x,x,x) #xxxxxx colorname	Deprecated
direction	up down left right	Defines the direction of scrolling the content.
height	pixels or %	Defines the height of marquee.
hspace	pixels	Specifies horizontal space around the marquee.
Гоор	number	Specifies how many times to loop. The default value is INFINITE, which means that the marquee loops endlessly.
scrolldelay	seconds	Defines how long to delay between each jump.
scrollamount	number	Defines how how far to jump.
width	pixels or %	Defines the width of marquee.
vspace	pixels	Specifies vertical space around the marquee.

Div tag

- The <div> tag defines a division or a section in an HTML document
- <div style="color:#0000FF"></di>
 <h3>This is a heading</h3>
 This is a paragraph.
 </div>
- <div id = "menu" align = "middle" >...</div>
- <div id = "content" align = "left" bgcolor = "white"></div>

blockquote

- The <blockquote> tag specifies a section that is quoted from another source.
- Browsers usually indent <blockquote> elements.
- <html> <body>
- <h1>About WWF</h1>
- Here is a quote from WWF's website:
- <blockquote cite="http://www.worldwildlife.org/who/index.html">
- For 50 years, WWF has been protecting the future of nature. The world's leading conservation organization, WWF works in 100 countries and is supported by 1.2 million members in the United States and close to 5 million globally.
 About WWF
- </blockquote> </body> </html>

Here is a quote from WWF's website:

For 50 years, WWF has been protecting the future of nature. The world's leading conservation organization, WWF works in 100 countries and is supported by 1.2 million members in the United States and close to 5 million globally.

acronym

- The <acronym> tag defines an acronym.
- An acronym can be spoken as if it were a word, example NATO, NASA, ASAP, GUI.
- Specify a full description of the term when hovered over using the title attribute.
- Can I get this <acronym title="As Soon As Possible">ASAP</acronym>?

Can I get this ASAP?

As Soon As Possible

anchor tag

- The <a> tag defines a hyperlink, which is used to link from one page to another.
- The most important attribute of the <a> element is the href attribute, which indicates the link's destination.
- By **default**, links will appear as follows in all browsers:
 - An unvisited link is underlined and blue
 - A visited link is underlined and purple
 - An active link is underlined and red
- Visit W3Schools.com!

<a> tag attributes

href	URL	Specifies the URL of the page the link goes to
target	_blank _parent _self _top framename	Specifies where to open the linked document

An Image as a Link

```
<!DOCTYPE html>
<html>
<body>

An image as a link: <a href="http://www.w3schools.com">
<img border="0" alt="W3Schools" src="logo_w3s.gif" width="100" height="100">
</a>

</body>
</html>
```

anchor tag

Text as Hyper reference

CLICK HERE

Button as Hyper reference

<button>Click me</button>

Image as Hyper reference

Create Link at the Same Page

```
<!DOCTYPE html>
<html>
<body>
<h2><a id="top">There is a link at the bottom of the page!</a></h2>
In my younger and more vulnerable years my father gave me some advice that I've
   been turning over in my mind ever since.
"Whenever you feel like criticizing any one," he told me, "just remember that all
   the people in this world haven't had the advantages that you've had."
<a href="#top">Go to top</a>
</body>
</html>
```

....

A simple link

CREATE A MAILTO LINK

```
Open outlook mail with filled value
    <html>
<body>
>
This is a mail link:
<a href="mailto:someone@microsoft.com?subject=Hello%20again">
                                  Inbox - Gmail
Send Mail</a>
                                                                               III Discard ➤ Send
                                      Format
                                                          Options
</body>
                                    From: jenilenleni@gmail.com
</html>
                                    To: someone@microsoft.com;
                                                                                     A Cc & Bcc
                                    Hello again
                                    Sent from Mail for Windows 10
```

"%20" represents a space in an encoded URL

"%OA" represents a blank line in an encoded URL

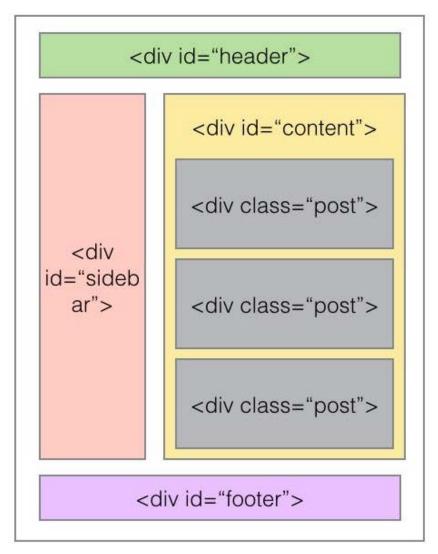
Send Mail

```
<h5>Fifth-level headline
<abbr>Abbreviation
                                                                <h6>Sixth-level headline
                                      <sup>Superscript
<acronym>Acronym
                               <h4>Fourth-level headline
<br/>
<br/>
<br/>
diockquote>Long quotation
<dfn>Definition
                                       <sub>Subscript
                                                               <ins>Inserted text
                                                                   <em>Emphasis
                                                        <q>Short inline quotation
<address>Address for author(s) of the document
<cite>Citation
                    <var>Variable or user defined text
                                                                   <hr> Thematic break
                                                     <kbd>Text to be entered by the user
<code>Code reference
                                                                 <samp>Sample output
<tt>Teletype text
                                      <strong>Strong emphasis
<div>Logical division
<span>Generic inline style container
                                      <h1>First-level headline
<del>Deleted text
                                      <h2>Second-level headline
                                      <h3>Third-level headline
```

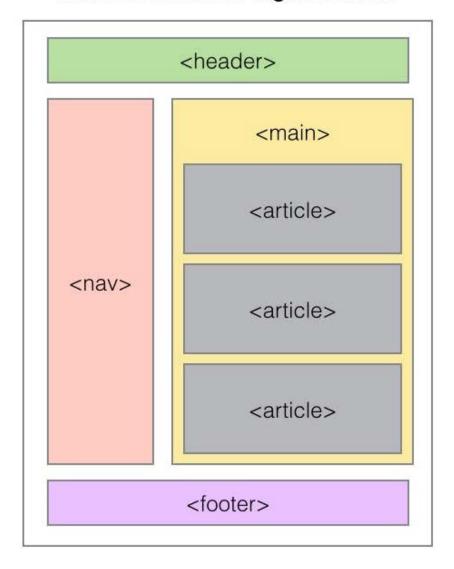
Source: https://www.lambdatest.com/blog/importance-of-semantic-html-in-modern-web-development/

HTML4 vs HTML5 Page Structure

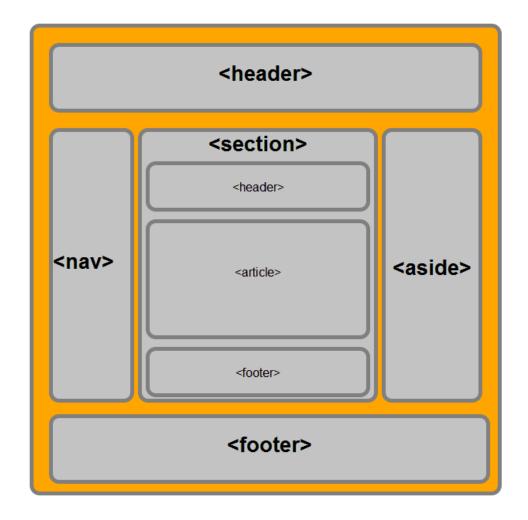
HTML4: Lots of Classes/IDs



HTML5: Semantic Tags/Sections



Semantic tags



Source: https://www.c-sharpcorner.com/UploadFile/b5be7f/working-with-semantic-elements-in-html5-with-layout-examples//

Non-Semantic Vs Semantic

Semantic Non-Semantic <header></header> <div id="header"></div> <section> <div class="section"> <article> <div class="article"> <figure> <div class="figure"> <figcaption></figcaption> <div class="figcaption"></div> </figure> </div> </article> </div> </section> </div> <footer></footer> <div id="footer"></div>

Source: https://www.freecodecamp.org/news/semantic-html5-elements/

Semantic Tags

- Multiple sections inside sections
- The <section> and
 <article> elements are
 conceptually similar
 and interchangeable.

```
<section>
 Top Stories
 <section>
   News
   <article>Story 1</article>
   <article>Story 2</article>
   <article>Story 3</article>
 </section>
 <section>
   Sport
   <article>Story 1</article>
   <article>Story 2</article>
   <article>Story 3</article>
 </section>
</section>
```

<nav>

```
<nav> defines a set of navigation links
Example:
<nav>
 <a href="/html/">HTML</a> |
 <a href="/css/">CSS</a> |
 <a href="/js/">JavaScript</a> |
 <a href="/jquery/">jQuery</a>
</nav>
```

Semantic Tags

<article> - article in the element

https://www.w3schools.com/tags/tag_article.asp

<header> - header for the section or article

<footer> - footer for the section or article

<section> - section in the document

<aside> - content aside from the page content

<main> - only one main tag in your document

Semantic Tags

<dialog> defines a dialog box or window

https://www.w3schools.com/tags/tag_dialog.asp

<figure> - self contained content like diagram

<figcaption> defines the caption for a <figure>

https://www.w3schools.com/tags/tag figure.asp

<hgroup> main heading with one or more

subheadings

```
<hgroup>
<h1>Heading 1</h1>
<h2>Subheading 1</h2>
<h2>Subheading 2</h2>
<hgroup>
```

Other Semantic Tags

cprogress - progress of a task

Progress in life goals (70%)

<meter> - scalar measurement with in a known range

Life goals achieved (50%) <meter min=0 max=100 value=50></meter>

Life goals achieved (50%)

Meter Vs Progress

Feature	<meter></meter>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>
Purpose	Represents a scalar measurement within a known range (e.g., disk usage).	Represents the progress of a task (e.g., file download or upload).
Use Case	For measurements where the value is within a bounded range.	For indicating the completion of a task over time.
Attributes	min, max, value, low, high, optimum.	max, value.
Default Range	Default min is 0, and default max is 1 if not specified.	Default max is 1 if not specified.
Visual Display	Often rendered as a bar showing the value on a range with thresholds.	Typically rendered as a continuous progress bar filling up over time.
Semantic Meaning	Represents a current value in a bounded range, often related to performance or capacity.	Represents task progress, focusing on how much is completed.
Example	<pre><meter max="100" min="0" value="70"></meter></pre>	<pre><pre><pre><pre><pre></pre></pre></pre></pre></pre>

Other Semantic Tags

Details with Summary

<details> defines additional details that people
can view or hide (like a tooltip)

<summary> defines a visible heading for a

<details> element <details>

<summary>Summary:</summar

y>

XYZ...

</details>

► Summary: ▼ Summary:

XYZ...

Exercise

Write a program (Biodata) which will perform the following tasks:

- 1. Use of <HTML><HEAD><TITLE><BODY> Tags
- 2. Use of <H1> to <H6> Tags
- 3. Use of Tag
- Use of
,<hr>,,<div>,<blockquote>,<q><CENTER>,
 Tags
- 5. Use of All Text Formatting Tags like ,,<i>,<u>,<sem>,<big>,<small>,<sub>,<sup>, <code>, <address>,,<ins>, <acronym>, ,<q>
- 6. Use Of Hyperlink i.e. <a> Tag.
- 7. Use Semantic tags

Thank You

HTML Lists and Tables

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VIT Chennai



Leni's Home Page

St.Michael's Academy

SMA Adyar, Chennai leni@gmail

My Favorite Stories:

- · Harry Potter
- · Ruskin Bond Stories
- · Panchatantra Stories
- Barbie Story Collection
- Peppa Pig

My Favorite Places:

Favorite Places

LANDMARK	CITY	COUNTRY
TAJ MAHAL	AGRA	INDIA
LEANING TOWER	PISA	ITALY
EIFFEL TOWER	PARIS	FRANCE

List



Leni's Home Page

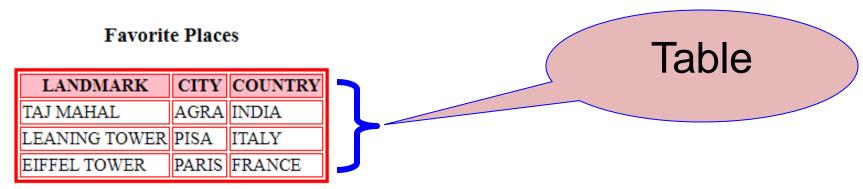
St.Michael's Academy

SMA Adyar, Chennai leni@gmail

My Favorite Stories:

- Harry Potter
- Ruskin Bond Stories
- · Panchatantra Stories
- · Barbie Story Collection
- Peppa Pig

My Favorite Places:



```
<HTMTI>
<HEAD>
<TITLE>Leni's Page</TITLE>
</HEAD>
<BODY>
<H1>Leni's Home Page</H1>
<P><B>St.Michael's Academy</B><BR>
<A HREF="http://www.sma.edu.in/">SMA</A><BR>
Adyar, Chennai<BR>
<A HREF="mailto:leni@gmail.com">leni@gmail</A><BR></P></P>
<h2>My Favorite Stories:</h2>
<UI.>
                                                Code for
   <LI>Harry Potter</LI>
   <LI>Ruskin Bond Stories</LI>
                                                 the list
   <LI>Panchatantra Stories</LI>
   <LI>Barbie Story Collection</LI>
   <LI>Peppa Pig</LI>
  UL>
```

```
<h2>My Favorite Places:</h2>
```

</HTML>

```
<TABLE BORDER=3 BORDERCOLOR="red">
<CAPTION><h3>Favorite Places</h3></CAPTION>
<TR BGCOLOR="PINK">
    <TH>LANDMARK</TH>
    <TH>CITY</TH>
    <TH>COUNTRY</TH>
</TR>
<TR>
    <TD>TAJ MAHAL</TD>
    <TD>AGRA</TD>
    <TD>INDIA</TD>
</TR>
< TR >
    <TD>LEANING TOWER</TD>
    <TD>PISA</TD>
    <TD>ITALY</TD>
</TR>
<TR>
    <TD>EIFFEL TOWER</TD>
    <TD>PARIS</TD>
    <TD>FRANCE</TD>
</TR>
< /TABLE>
</BODY>
```

Code for the Table

HTML Lists & Tables

 Lists are one way to present the data in an ordered or structured manner on Web pages

 Tables provide another - more customizable way of displaying ordered information

Types of Lists

- 1. Unordered Lists
- 2. Ordered Lists
- 3. Definition List

Types of Lists

- 1. Unordered Lists: Displays items without any specific order (typically bullet points).
- 2. Ordered Lists: Displays items in a sequential or ranked order (numbers, letters, etc.).
- **3. Definition List:** Used for definition terms and their descriptions.

Unordered List

	Un-ordered List			
	Line Item			

Unordered List

HTML Code

```
<UL><LI>Harry Potter</LI><LI>Ruskin Bond Stories</LI><LI>Panchatantra Stories</LI><LI>Barbie Story Collection</LI><LI>Peppa Pig</LI></UL></UL>
```

- Harry Potter
- Ruskin Bond Stories
- Panchatantra Stories
- Barbie Story Collection
- Peppa Pig

Unordered List Types type attribute

type	Result		
"disc"	disc (default)		
"circle"	o circle		
"square"	☐ square		
"none"	Items will not be marked		

UL Types

The default "bullet" for these lists is a "disc" (filled circle)

That, however, can be changed to a "circle" (open circle) or a "square" with the help of the type attribute

UL Square Type

HTML Code

```
    <UL type = "square">
    <LI>Harry Potter</LI>
    <LI>Ruskin Bond Stories</LI>
    <LI>Panchatantra Stories</LI>
    <LI>Barbie Story Collection</LI>
    <LI>Peppa Pig</LI>
    </UL>
```

- Harry Potter
- Ruskin Bond Stories
- Panchatantra Stories
- Barbie Story Collection
- Peppa Pig

Nested List

```
< UL>
  <LI>Harry Potter</LI>
  <LI>Ruskin Bond Stories</LI>
       UL type="circle">
          <LI>Crazy Times With Uncle Ken</LI>
          <LI>The Day Grandfather Tickled a Tiger</LI>
          <LI>The Blue Umbrella</LI>
          <LI>The Cherry Tree</LI>
       </UL>
  <LI>Panchatantra Stories</LI>
  <LI>Barbie Story Collection</LI>
  <LI>Peppa Pig</LI>
</UL>
```

Nested List

- 1. Different bullets
- 2. Additional tab

Another list starts before the first list is finished, are called **Nested Lists**

- Harry Potter
- Ruskin Bond Stories
 - Crazy Times With Uncle Ken
 - Rusty, the Boy from the Hills
 - The Day Grandfather Tickled a Tiger
 - The Room On The Roof
 - The Blue Umbrella
 - The Cherry Tree
- Panchatantra Stories
- Barbie Story Collection
- Peppa Pig

Ordered List

	Ordered List			
	Line Item			

Ordered List



Browser Display

- Harry Potter
- Ruskin Bond Stories
- Panchatantra Stories
- Barbie Story Collection
- Peppa Pig

Numbers instead of discs, circles or squares

Ordered List Types type attribute

type	Result
"1"	1, 2, 3, (default)
"A"	A, B, C,
"a"	a, b, c,
"["	I, II, III, IV,
";"	i, ii, iii, iv,

OL type="A"

HTML Code

```
<OL type= "A" >
    <LI>Harry Potter</LI>
    <LI>Ruskin Bond Stories</LI>
    <LI>Panchatantra Stories</LI>
    <LI>Barbie Story Collection</LI>
    <LI>Peppa Pig</LI>
</OL>
```

- A. Harry Potter
- B. Ruskin Bond Stories
- C. Panchatantra Stories
- D. Barbie Story Collection
- E. Peppa Pig

OL-Nested List

```
<01>
  <LI>Harry Potter</LI>
  <LI>Ruskin Bond Stories</LI>
       <OL type="i">
           <LI>Crazy Times With Uncle Ken</LI>
           <LI>The Day Grandfather Tickled a Tiger</LI>
           <LI>The Room On The Roof</LI>
           <LI>The Blue Umbrella</LI>
           <LI>The Cherry Tree</LI>
       </OL>
  <LI>Panchatantra Stories</LI>
  <LI>Barbie Story Collection</LI>
  <LI>Peppa Pig</LI>
</01>
```

OL-Nested List

- Harry Potter
- Ruskin Bond Stories
 - i. Crazy Times With Uncle Ken
 - ii. Rusty, the Boy from the Hills
 - iii. The Day Grandfather Tickled a Tiger
 - iv. The Room On The Roof
 - v. The Blue Umbrella
 - vi. The Cherry Tree
- Panchatantra Stories
- Barbie Story Collection
- Peppa Pig

Q: How would one start an ordered list with something other than 1

- Harry Potter
- Ruskin Bond Stories
- Panchatantra Stories
- Barbie Story Collection
- Peppa Pig

OL start="5"

HTML Code

```
<OL start= "5" >
  <LI>Harry Potter</LI>
  <LI>Ruskin Bond Stories</LI>
  <LI>Panchatantra Stories</LI>
  <LI>Barbie Story Collection</LI>
  <LI>Peppa Pig</LI>
  </OL>
```

- Harry Potter
- Ruskin Bond Stories
- Panchatantra Stories
- Barbie Story Collection
- Peppa Pig

OL start

```
<!DOCTYPE html>
<html>
<body>
<h1>The ol start attribute</h1>
Coffee
 Tea
 Milk
Coffee
 Tea
 Milk
</body>
</html>
```

The ol start attribute

```
m. Coffee
n. Tea
o. Milk
L. Coffee
LI. Tea
LII. Milk
```

reversed Attribute

 Reverses the order of numbering, starting from the highest number.

```
  Last Item
  Middle Item
  First Item
```

- 3. Last Item
- 4. Middle Item
- 5. First Item

Definition List

<dl></dl>	Definition List				
<dt></dt>	Term				
<dd></dd>	Definition				

Definition List

<DL>

<DT>HTML</DT>

<DD>Hypertext Markup Language (HTML) is the standard markup language for documents designed to be displayed in a web browser. </DD>

<DT>WWW</DT>

<DD> The World Wide Web (WWW), commonly known as the Web, is an information system where documents and other web resources are identified by Uniform Resource Locators which may be interlinked by hypertext, and are accessible over the Internet.

Browser Display

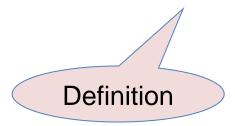
Term

HTMI

Hypertext Markup Language (HTML) is the standard markup language for documents designed to be displayed in a web browser.

WWW

The World Wide Web (WWW), commonly known as the Web, is an information system where documents and other web resources are identified by Uniform Resource Locators which may be interlinked by hypertext, and are accessible over the Internet.



</DL>

HTML tables

LANDMARK	CITY	COUNTRY
TAJ MAHAL	AGRA	INDIA
LEANING TOWER	PISA	ITALY
EIFFEL TOWER	PARIS	FRANCE

<table></table>	Table		
	(made up of rows)		
<tr></tr>	Row		
<1K>	(made up of data cells)		
	Heading Data Cell		
<th></th>		(Can contain paragraphs, images, lists, forms, tables)	
	Data Cell		
<td></td> <td>(Can contain paragraphs, images, lists, forms, tables)</td>		(Can contain paragraphs, images, lists, forms, tables)	

HTML Code

```
<TABLE BORDER=3>
<TR>
 <TH>LANDMARK</TH>
 <TH>CITY</TH>
 <TH>COUNTRY</TH>
</TR>
<TR>
 <TD>TAJ MAHAL</TD>
 <TD>AGRA</TD>
 <TD>INDIA</TD>
</TR>
<TR>
 <TD>LEANING TOWER</TD>
 <TD>PISA</TD>
 <TD>ITALY</TD>
</TR>
<TR>
 <TD>EIFFEL TOWER</TD>
 <TD>PARIS</TD>
 <TD>FRANCE</TD>
</TR>
</TABLE>
```

LANDMARK	CITY	COUNTRY
TAJ MAHAL	AGRA	INDIA
LEANING TOWER	PISA	ITALY
EIFFEL TOWER	PARIS	FRANCE

HTML Code

```
<TABLE>
<TR>
 <TH>LANDMARK</TH>
 <TH>CITY</TH>
 <TH>COUNTRY</TH>
</TR>
<TR>
 <TD>TAJ MAHAL</TD>
 <TD>AGRA</TD>
 <TD>INDIA</TD>
</TR>
<TR>
 <TD>LEANING TOWER</TD>
 <TD>PISA</TD>
 <TD>ITALY</TD>
</TR>
<TR>
 <TD>EIFFEL TOWER</TD>
 <TD>PARIS</TD>
 <TD>FRANCE</TD>
</TR>
</TABLE>
```

Browser Display

TAJ MAHAL AGRA INDIA
LEANING TOWER PISA ITALY
EIFFEL TOWER PARIS FRANCE

Table without
Border

<TABLE> Attributes

BORDER

- Determines the thickness of the table border
- Example: <TABLE BORDER = "2">

BORDERCOLOR

 The color of the table borders as a whole is set with the BORDERCOLOR attribute

<TABLE BORDER=10 BORDERCOLOR=RED>

Netscape maintains the 3-D appearance.

How it Looks

Internet Explorer

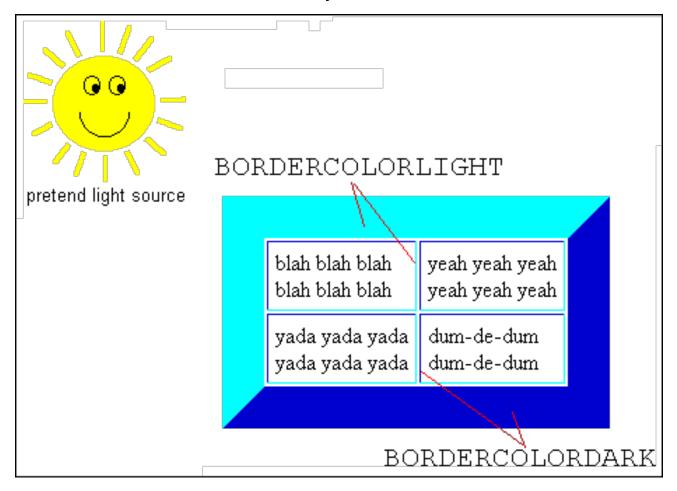
Looks

Internet Explorer

Looks

L

BORDERCOLORLIGHT, BORDERCOLORDARK





<TABLE BORDER=10 BORDERCOLORLIGHT=YELLOW BORDERCOLORDARK=BLUE>

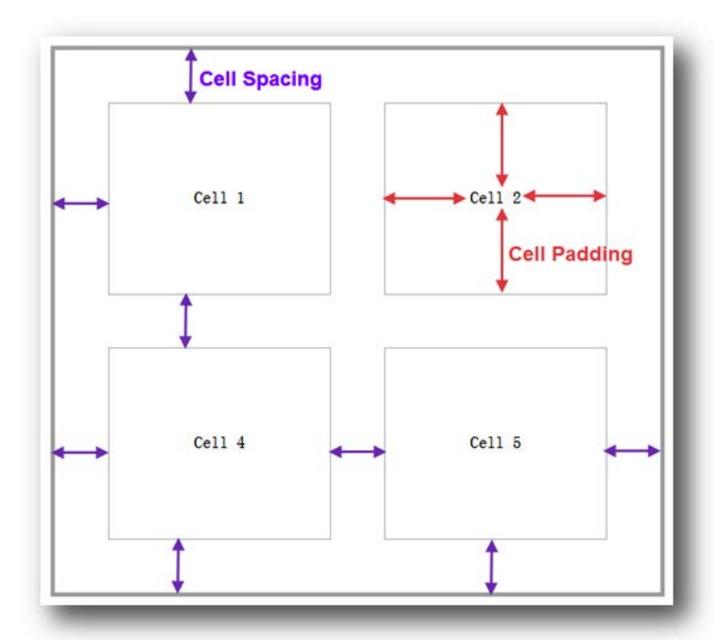
<TABLE> Attributes

CELLPADING

- Determines the distance between the border of a cell and the contents of the cell
- Example: <TABLE CELLPADDING = "3">

CELLSPACING

- Determines the empty spacing between the borders of two adjacent cells
- Example: <TABLE CELLSPACING = "1">



<TABLE>,<TR>,<TH>,<TD> Attributes

- ALIGN
 - Possible values: Center, Left, Right
 - Example: <TH ALIGN = "center">
- BGCOLOR
 - Example: <TH BGCOLOR = "green">
- BORDERCOLOR
 - Example: <TD BORDERCOLOR = "red">
- WIDTH
 - Example: <TR WIDTH = "40%">
- HEIGHT
 - Example: <TABLE HEIGHT = "200">

<TR> Attributes

VLAIGN

- Determines the vertical alignment of the contents of all of the cells in a particular row
- Possible values: Top, Middle, Bottom
- Example: <TR VALIGN = "bottom">

<TH> & <TD> Attributes

NOWRAP

- Extend the width of a cell, if necessary, to fit the contents of the cell in a single line
- Example: <TD NOWRAP>

COLSPAN

- No. of rows the current cell should extend itself downward
- Example: <TD COLSPAN = "2">

ROWSPAN

- The number of columns the current cell should extend itself
- Example: <TD ROWSPAN = "5">

VALIGN

— Same as that for <TR>

HTML Code

```
<TABLE BORDER=3>
<TR BGCOLOR="PINK">
 <TH COLSPAN=3>HOT PLACES</TH>
</TR>
<TR>
                        colspan
 <TH>LANDMARK</TH>
 <TH>CITY</TH>
 <TH>COUNTRY</TH>
</TR>
<TR>
 <TD>TAJ MAHAL</TD>
 <TD>AGRA</TD>
 <TD>INDIA</TD>
</TR>
<TR>
 <TD>LEANING TOWER</TD>
 <TD>PISA</TD>
 <TD>ITALY</TD>
</TR>
<TR>
 <TD>EIFFEL TOWER</TD>
 <TD>PARIS</TD>
 <TD>FRANCE</TD>
</TR>
</TABLE>
```

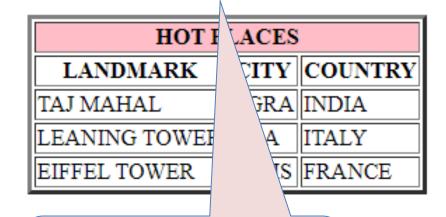
HOT PLACES				
LANDMARK	CITY	COUNTRY		
TAJ MAHAL	AGRA	INDIA		
LEANING TOWER	PISA	ITALY		
EIFFEL TOWER	PARIS	FRANCE		

HTML Code

```
<TABLE BORDER=3>
<CAPTION><h3>Favorite Places</h3>
</CAPTION>
<TR BGCOLOR="PINK"
 <TH COLSPAN=3>HOT PM
                        Caption
</TR>
<TR>
 <TH>LANDMARK</TH>
 <TH>CITY</TH>
 <TH>COUNTRY</TH>
</TR>
<TR>
 <TD>TAJ MAHAL</TD>
 <TD>AGRA</TD>
 <TD>INDIA</TD>
</TR>
<TR>
 <TD>LEANING TOWER</TD>
 <TD>PISA</TD>
 <TD>ITALY</TD>
</TR>
<TR>
 <TD>EIFFEL TOWER</TD>
 <TD>PARIS</TD>
 <TD>FRANCE</TD>
</TR>
</TABLE>
```

Browser Display

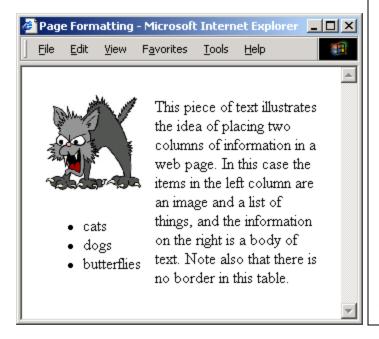
Favorite Places



Caption. Placed immediately after the<TABLE> tag

Page formatting

 Tables can be used to organise the layout of the web page itself



```
</body>
>
  <img src="cat.gif" alt="cat">
  <111>
   cats
   dogs
   butterflies
  >
  This piece of text illustrates
  the idea of placing two columns
  of information in a web page...
  Note also that there is no
  border in this table.
  </body>
```

Year	Quarter	Expenses		Income	
		Quetta	Dubai	Quetta	Dubai
	1	1,900	8,650	9,000	7,780
2021	2	2,230	8,650	8,500	8,670
2021	3	4,000	8,650	9,900	9,870
	4	2,200	8,650	9,800	9,900
	1	7,780	8,650	7,780	9,000
2022	2	8,670	8,650	8,670	8,500
2022	3	9,870	8,650	9,870	9,900
	4	9,900	8,650	9,900	9,800
2013			****		

Time Table						
Hours	Mon	Tue	Wed	Thu	Fri	
	Science	Maths	Science	Maths	Arts	
	Social	History	English	Social	Sports	
			Lunch			
	Science	Maths	Science	Maths	Droject	
	Social	History	English	Social	Project	

References

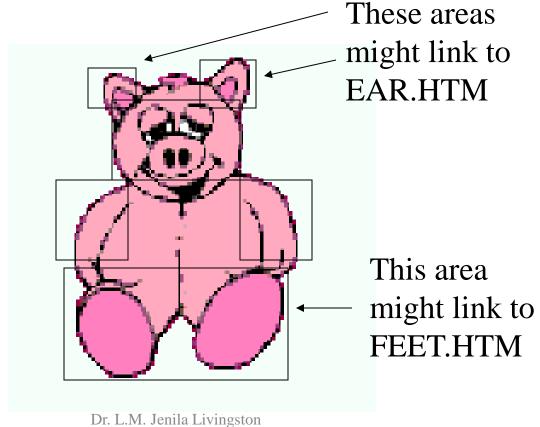
HTML Lists & Tables
www.altafkhan.com > html-lists-tables

Dr. L.M. Jenila Livingston
VIT Chennai

- An image that contains hyperlinked, clickable regions, sometimes called "hot spots"
- Each hot spot is defined by a set of coordinates (indicating its position on the image) and a URL reference
- Two types of image maps:
 - Client-side (commonly used)
 - Server-side (rarely used)

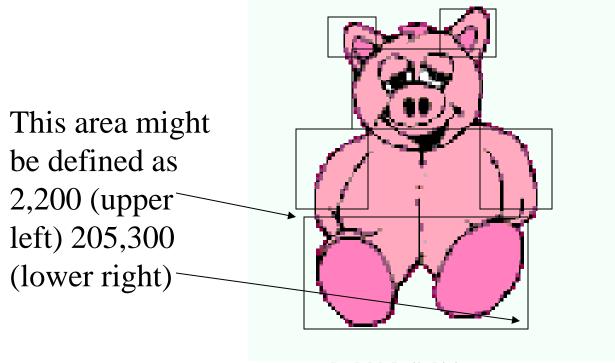
 If you could see an image with its map, it might look like this:

Each area could be a separate link.



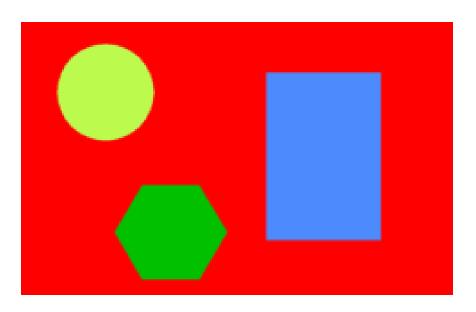
Each area is defined by coordinates in pixels.

 For rectangular areas, it is the upper left and lower right.



Defining Hot Spots

- Three shapes for hot spots:
 - Rectangle
 - Circle
 - Polygon



Rectangle Hot Spot

- Any two points can define a rectangle
- Each point is represented by a horizontal (x) coordinate and a vertical (y) coordinate
- Rectangles are defined by four coordinate values representing the upper-left and bottomright corners of the rectangle

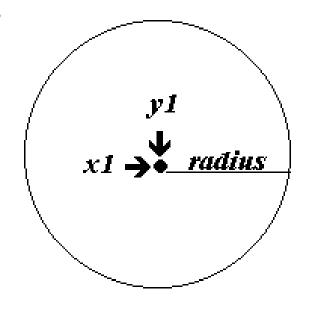
– Code:

Circle Hot Spot

- Circles are defined by two coordinates and a radius
 - Code:

<area shape="circle" coords="x1,y1,radius" href="url"/>

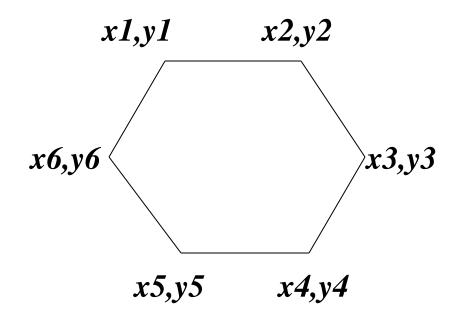
- The pair of coordinates speci the circle's center
- A third number specifies the desired radius

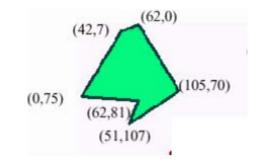


Polygon Hot Spot

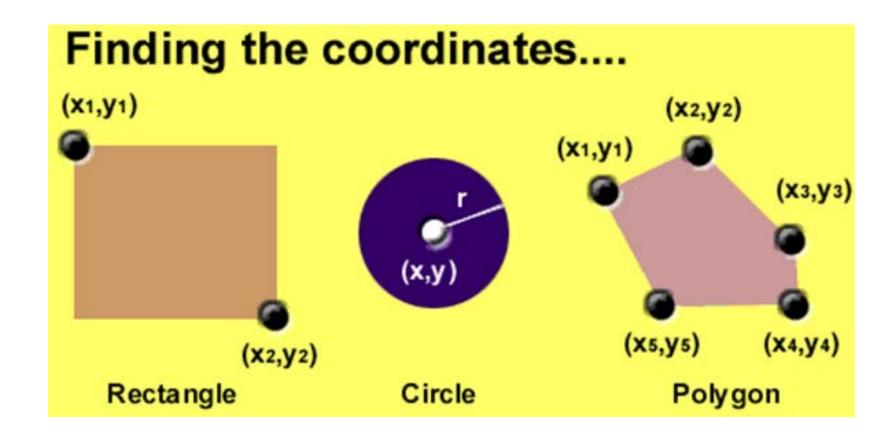
<AREA SHAPE="poly"

- Replace x1,y1 with two numbers: horizontal and vertical position of a point on the edge of the polygon
- Add more x,y pairs until you have traced around the desired shape





3 types of Hot Spot



Four Steps to Create a Client-Side Image Map

- 1. Select image to use
- 2. Define areas of image map
 - Three shapes: circle, rectangle, polygon
 - X and Y coordinates in pixels
 - Get coordinates from a graphics program such as Paint Shop Pro or Photoshop
 - <AREA> tags identify shapes in map
 - SHAPE attribute circle, rect, poly
 - HREF attribute URL to load
 - COORDS x and y coordinates of shape

Four Steps to Create a Client-Side Image Map

- 3. Include map information in HTML document:
 - <MAP></MAP> NAME attribute names the map
 - <MAP NAME="books">
- 4. Connect image with map information
 - USEMAP attribute in tag
 - USEMAP value is map name with a # symbol before it
 -

Creating Client-Side Image Maps

Can use target=window_name for frames

```
<map name="books">
<area shape="poly" coords="70,0, 0,37, 0,183, 27,192,
 27,48, 103, 9" href="file.html" alt="Books"
 title="Books">
</map>
<img src="image.gif" usemap="#books">
alt: Specifies an alternate text.
title: hover: display the text on hover
onClick=fun(): Include Script function
```

Example 1



Example 1

```
<img src="tmahal.jpeg" usemap = #imgmap
 border=0>
 <map name=imgmap>
 <area shape=Rect Coords=30,30,59,59
 Href="taj.jpg" Target=" blank">
 <area shape=Rect Coords=100,60,129,80
 Href="elephant.gif" Target=" blank" >
 </map>
```

Find Coordinates

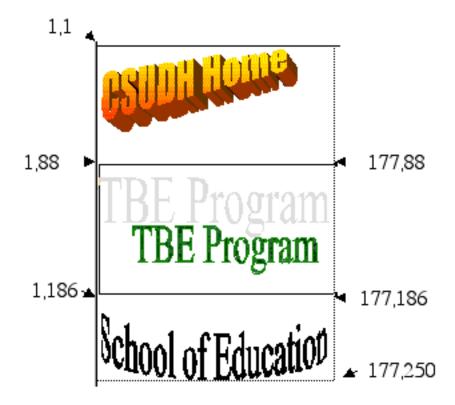
 use a graphics program, if it shows the position of the cursor with "pixels".

 Move the cursor over the picture and write down the appropriate coordinates.

- https://imagemap.org/
- https://www.image-map.net/

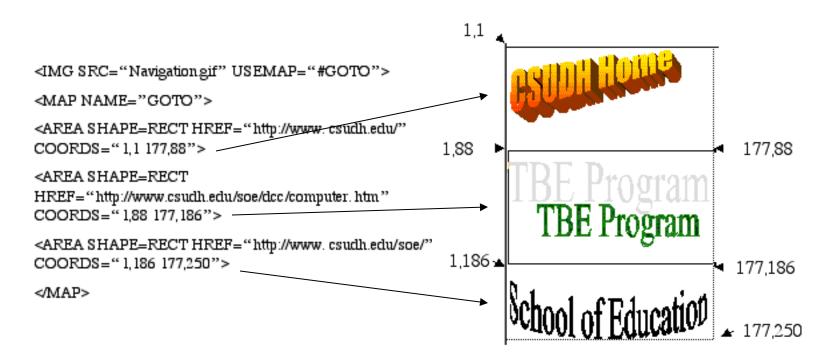
Example 2

Here is a simpler graphic with coordinates:



Example 2

 The accompanying HTML code for the image map:



HTML Media elements

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Professor

VIT Chennai

Multimedia Elements

- Video
- Audio
- Graphics
 - Canvas
 - SVG
- Google Map

Multimedia Elements

 Multimedia on the web is sound, music, videos, movies, and animations.

- Different formats:
- images, music, sound, videos, records, films, animations, and more.

HTML5: Video

Until now, there hasn't been a standard for showing video on a web page.

Today, most videos are shown through a plugin (like Flash). However, not all browsers have the same plugins.

HTML5 specifies a standard way to include video with the video element.

HTML5: Video

Currently, there are 3 supported video formats for the video element:

Format	IE	Firefox	Opera	Chrome	Safari
Ogg	No	3.5+	10.5+	5.0+	No
MPEG 4	No	No	No	5.0+	3.0+
WebM	No	No	10.6+	6.0+	No

HTML5: Video

Note: To ensure that your video works across all browsers, it's a good idea to include multiple formats of the same video.

Video Attributes

- width and height: These attributes control the size of the video player.
- controls: This attribute adds play, pause, volume, and fullscreen options to the video player.
- autoplay: Starts playing the video as soon as it is ready.
- loop: Loops the video when it reaches the end.
- muted: Starts the video with the audio muted.
- poster: Specifies an image to be shown before the video starts
- **<source>**: Specifies the video file to be used.

```
<html>
<body>
<button onclick="playVid()" type="button">Play Video</button>
<button onclick="pauseVid()" type="button">Pause Video</button>
<video id="myVideo" width="320" height="176">
 <source src="mov bbb.mp4" type="video/mp4">
 <source src="mov bbb.ogg" type="video/ogg">
 Your browser does not support HTML5 video.
</video>
<script>
var vid = document.getElementById("myVideo");
function playVid() {
vid.play();
function pauseVid() {
vid.pause();
</script>
</body>
</html>
```

Until now, there has never been a standard for playing audio on a web page.

Today, most audio is played through a plugin (like Flash). However, not all browsers have the same plugins.

HTML5 specifies a standard way to include audio, with the audio element. The audio element can play sound files, or an audio stream.

Currently, there are 3 supported formats for the audio element:

Format	IE 8	Firefox 3.5	Opera 10.5	Chrome 3.0	Safari 3.0
Ogg Vorbis	No	Yes	Yes	Yes	No
MP3	No	No	No	Yes	Yes
Wav	No	Yes	Yes	No	Yes

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

Note: To ensure that your audio works across all browsers, it's a good idea to include multiple formats of the same audio.

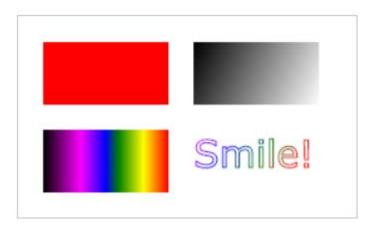
Attribute	Value	Description
autoplay	autoplay	Specifies that the audio will start playing as soon as it is ready.
controls	controls	Specifies that controls will be displayed, such as a play button.
loop	Гоор	Specifies that the audio will start playing again (looping) when it reaches the end
preload	preload	Specifies that the audio will be loaded at page load, and ready to run. Ignored if autoplay is present.
src	url	Specifies the URL of the audio to play

HTML5 Graphics

Tag Description

<canvas> Defines graphic drawing using JavaScript

<svg> Defines graphic drawing using SVG



Canvas

The HTML5 canvas element uses JavaScript to draw graphics on a web page.

A canvas is a rectangular area, and you control every pixel of it.

The canvas element has several methods for drawing paths, boxes, circles, characters, and adding images.

Canvas

Adding a canvas element to the HTML5 page.

- Specify the id, width, height of the element
- To add a border, use the style attribute.

```
<canvas id="myCanvas" width="200" height="100"
style="border:1px solid #000000;">
</canvas>
```

Draw a line

```
var c = document.getElementById("myCanvas");
var ctx = c.getContext("2d");
ctx.moveTo(0,0);
ctx.lineTo(200,100);
ctx.stroke();
```

Draw a Circle

```
var c = document.getElementById("myCanvas");
var ctx = c.getContext("2d");
ctx.beginPath();
ctx.arc(95,50,40,0,2*Math.PI);
ctx.stroke();
```

SVG

Scalable Vector Graphics

```
<!DOCTYPE html>
<html>
<body>
                                             SVG Circle
<svg width="100" height="100">
 <circle cx="50" cy="50" r="40" stroke="green"
stroke-width="4"fill="yellow" />
</svg>
</body>
</html>
```

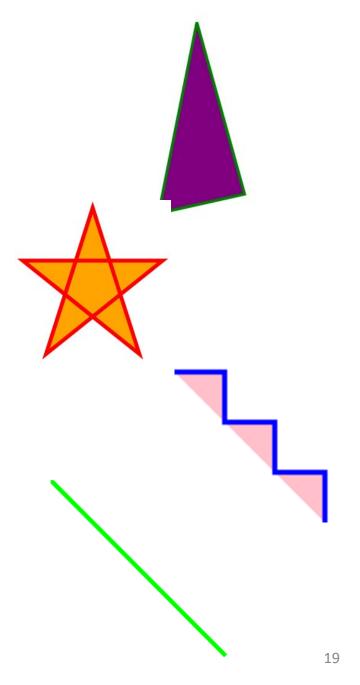
SVG

```
<svg width="400" height="110">
  <rect x="50" y="130" width="300" height="100"
 style="fill:green;stroke-width:5;stroke:yellow" />
 </svg>
 <svg width="400" height="180">
  <rect x="50" y="20" rx="20" ry="20" width="150"
 height="150" style="fill:yellow;stroke:black;stroke-
width:5;opacity:0.5" />
 </svg>
<svg height="200" width="500">
 <ellipse cx="200" cy="80" rx="100" ry="50"
style="fill:blue;stroke:red;stroke-width:4" />
</svg>
<svg height="150" width="500">
 <ellipse cx="240" cy="100" rx="220" ry="30" style="fill:red" />
 <ellipse cx="220" cy="70" rx="190" ry="20" style="fill:green" />
 <ellipse cx="210" cy="45" rx="170" ry="15" style="fill:blue" />
```

</svg>

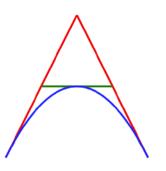
SVG

```
<svg height="250" width="500">
<polygon points="200,10 250,190 160,210"</pre>
style="fill:purple;stroke:green;stroke-width:3" />
</svg>
<svg height="250" width="500">
 <polygon points="100,10 40,198 190,78 10,78</pre>
160,198" style="fill:orange;stroke:red;stroke-
width:5;fill-rule:nonzero;"/>
</svg>
 <svg height="180" width="500">
  olyline points="0,40 40,40 40,80 80,80 80,120"
 120,120 120,160" style="fill:pink;stroke:blue;stroke-
 width:4" />
 </svg>
 <svg height="250" width="500">
  style="stroke:rgb(0,255,0);stroke-width:5" />
 </svg>
                                   Dr. L.M. Jenila Livingston
```



SVG

```
<SVG>
 <circle cx="95" cy="66" r="66" fill="yellow" />
 <text fill="#ff0000" x="50" y="84" font-size="45"</pre>
 font-family="Verdana">
 </text>
 </SVG>
<!-- Draw the paths -->
 <path id="lineAB" d="M 100 350 1 150 -300" stroke="red" stroke-width="4"/>
 <path id="lineBC" d="M 250 50 1 150 300" stroke="red" stroke-width="4"/>
 <path id="lineMID" d="M 175 200 l 150 0" stroke="green" stroke-width="4"/>
 <path id="lineAC" d="M 100 350 q 150 -300 300 0" stroke="blue" fill="none" stroke-width="4"/>
```



Coordinate points for SVG elements

Circle			
r	Required. The radius of the circle		
сх, су	center of the circle (x, y). Default is 0,0		
Ellipse			
rx	Required. The x radius of the ellipse		
ry	Required. The y radius of the ellipse		
сх, су	center of the ellipse (x, y). Default is 0,0		
Rectangle			
width	Required. The width of the rectangle		
height	Required. The height of the rectangle		
х, у	The x-y position for the top-left corner of the rectangle		
rx	The x radius of the corners of the rectangle (used to round the corners). Default is 0		
ry	The y radius of the corners of the rectangle (used to round the corners). Default is 0		

Coordinate points for SVG elements – contd..

Line				
x1,y1	The starting point of the line			
x2,y2	The ending point of the line			
Polyline				
The <polyline> element is used to create any shape that consists of only straight lines.</polyline>				
points	Required. xn,yn coordinates of different points to be given			
Polygon				
The <polygon> element is used to create a graphic that contains at least three sides</polygon>				
points	Required. xn,yn coordinates of different points to be given			
	Text			
х,у	The (x,y) position of the start of the text			
rotate	The rotation (in degrees) applied to each letter of text			
rotate	The rotation (in degrees) applied to each letter of text Path			
rotate M: M50 50				
	Path			
M: M50 50	Path Move the "pen" to the point (50, 50).			
M: M50 50 L: L150 150	Path Move the "pen" to the point (50, 50). Draw a line from the current position to the point (150, 150).			

```
Embedding Google map
<body>
<h1>My First Google Map</h1>
<div id="map" style="width:400px;height:400px;"></div>
<script>
function myMap() {
                        LatLng(20.5937, 78.9629), // Latitude and Longitude for India
var mapOptions = {
center: new google.maps.LatLng(51.5, -0.12), // Latitude and Longitude for UK
zoom: 10,
mapTypeId: google.maps.MapTypeId.HYBRID
var map = new google.maps.Map(document.getElementById("map"), mapOptions);
</script>
<!-- Add the Google Maps API script with your API key -->
<script
src="https://maps.googleapis.com/maps/api/js?key=YOUR API KEY&callback=myMap">
</script>
</body>
```

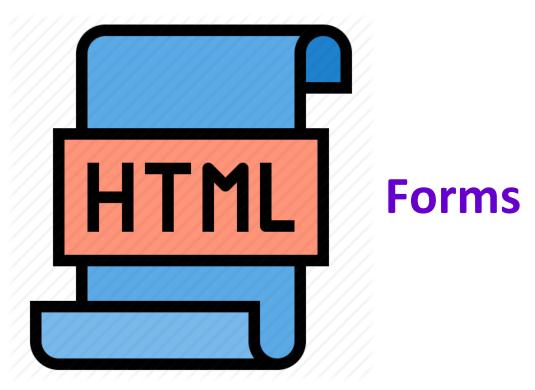
Details

- The myMap() function:
 - This function initializes the Google Map when called.
- mapOptions:
 - center: new google.maps.LatLng(51.5, -0.12): This sets the center of the map to the coordinates (51.5, -0.12), which corresponds to a location in London, UK (Latitude: 51.5, Longitude: -0.12).
 - zoom: 10: This sets the zoom level of the map. A zoom level of 10 means a moderate zoom level, showing a portion of a city or small region.
 - mapTypeId: google.maps.MapTypeId.HYBRID: This specifies the map type. The HYBRID type displays a combination of satellite imagery and a street map.

Creating the Map Object:

var map = new google.maps.Map(document.getElementById("map"), mapOptions); : This line creates a new Google Map and attaches it to the <div> element with the ID map . The mapOptions object (which contains the settings like center, zoom, and map type) is passed to configure the map.





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An Example of a Form

First Name: Address #1: Address #2: City: Country:	Last Name:
Product: Date Purchased	
Used for:	O Home O Business O Government O Education O Other
System (check all that apply):	☐ Windows ☐ Macintosh ☐ UNIX ☐ Other
Comments?:	
	Send Registration Cancel

Registration Form

	Quality Networking Hardware & Software		
	Product Registration		
contact information	First Name Address #1 Address #2 Cay State United States		
product information —	Item Purchased LanPass 115 Purchase Date		
usage information —	Used For (check one) Network Operating System (check, all that apply) Network Network Religious or Charable Institution Government Educational Institution FONES		
comments	Congnents?		
buttons	Send Registration Concel Landwall Mrs 414 William Way Falley, 50 65212 - 1 (800) 555 2077		

The <form> Tag

- A single web page contains multiple forms, but you cannot nest one form inside another.
- Syntax:

```
<form attributes>
  form elements and layout tags
</form>
```

- <form> tag includes the name attribute. It identifies each form on the page.
- The name attribute is also needed for programs that retrieve values from the form.

The <form> Tag

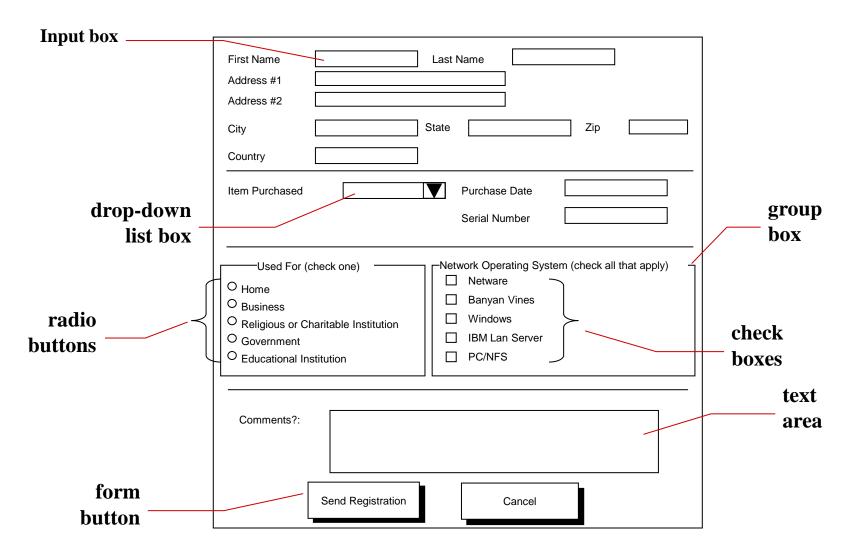
The <form> tag includes information on what Common Gateway Interface (CGI) script to use, how the data is to be transferred to the script, and so forth.

This figure shows the form name "reg."

```
<html>
<head>
<title>LanGear Registration Form</title>
</head>
<body text="#850000">
<form name="reg">

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

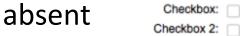
Basic Form Elements



Form Elements

- Form elements:
 - text boxes for text and numerical entries
 - radio buttons, also called option buttons, to select a single option from a predefined list of Male Female
 - check boxes to specify an item as either present or

 Exclusive Radio Buttons
 Non-Exclusive Checkboxes



- groups boxes to organize form elements
- combo box- selection lists for long lists of options,
 usually appearing in a drop-down list box
- text areas for extended entries that can include several lines of text
- buttons that can be clicked to start processing the form

 Buttons: Submit (reset)
- Each element in which the user can enter information is called a **field**.

Checkbox 1

✓ Checkbox 2

Input Type

<input type="type">

Туре	Description		
type="button"	Display a button which can be clicked to perform an action from a script		
type="checkbox"	Display a check box		
type="file"	Display a browse button to locate and select a file Browse		
type="hidden"	Create a hidden field, not viewable on the form		
type="image"	Display an inline image which can be clicked to perform an action from a script	1	
type="password"	Display a text box in which hides text entered by the user		
type="radio"	Display a radio (option) button		
type="reset"	Display a button which resets the form when clicked		
type="submit"	Display a button which submits the form when clicked		
type="text"	Display a text box in which displays text entered by the user		

Input Type

- Input fields are created using the <input> tag.
- Syntax:
 - <input type="type" name="name" id="id">
 - type specifies the type of input field
 - name and id attributes identifies the input field for the CGI script
- To create a text box, you would enter the tag:
 - <input type="text">

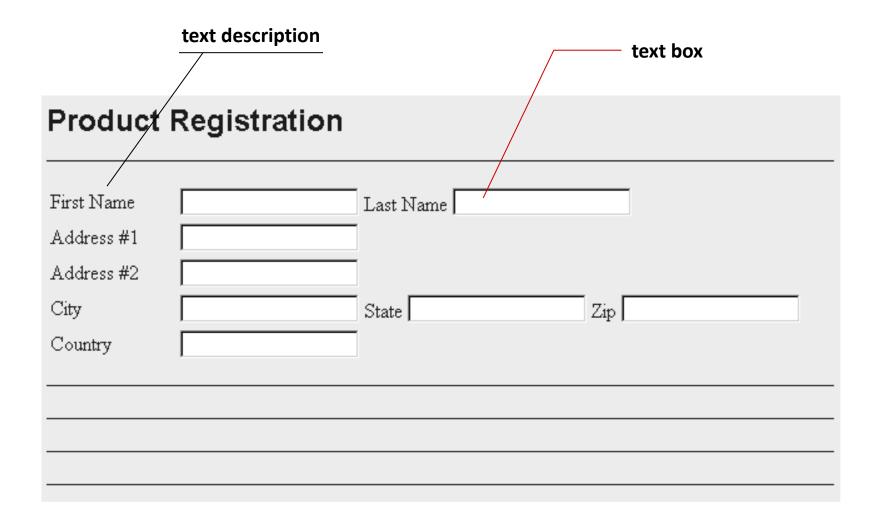
The <INPUT> tag attributes

- TYPE: Defines the type of data used in the field.
- **NAME**: The name of the particular element.
- *ID*: The identifier of the particular element.
- **MAXLENGTH**: The maximum number of characters that can be entered by users in a text field.
- **SIZE**: Specifies the size of the field and depends on its type.
- **SRC**: Denote URL for an image.
- **VALUE**: Contain the initial value displayed to users.
- **CHECKED**: Indicates that a checkbox or radio button is selected.
- **DISABLED:** Prevents the field from receiving focus.
- ALIGN: Alignment if image is used. (left, right, middle, top, bottom)
- READONLY: Prevents modification of the contents of the field.
- PATTERN: specifies a regular expression that the <input> element's value is checked against on form submission (regular expression, validation)
- **PLACEHOLDER** attribute specifies a short hint that describes the expected value of an input field (e.g. a sample value or a short description of the expected format).

1. Text box

- <input type="text" id="id" value="value" size="value"
 maxlength="value">
- name and id attributes identify the field
- value a default value to the text box
- size the width of the text box in number of characters
- maxlength the maximum number of characters allowed in the field

Text Boxes on the Form

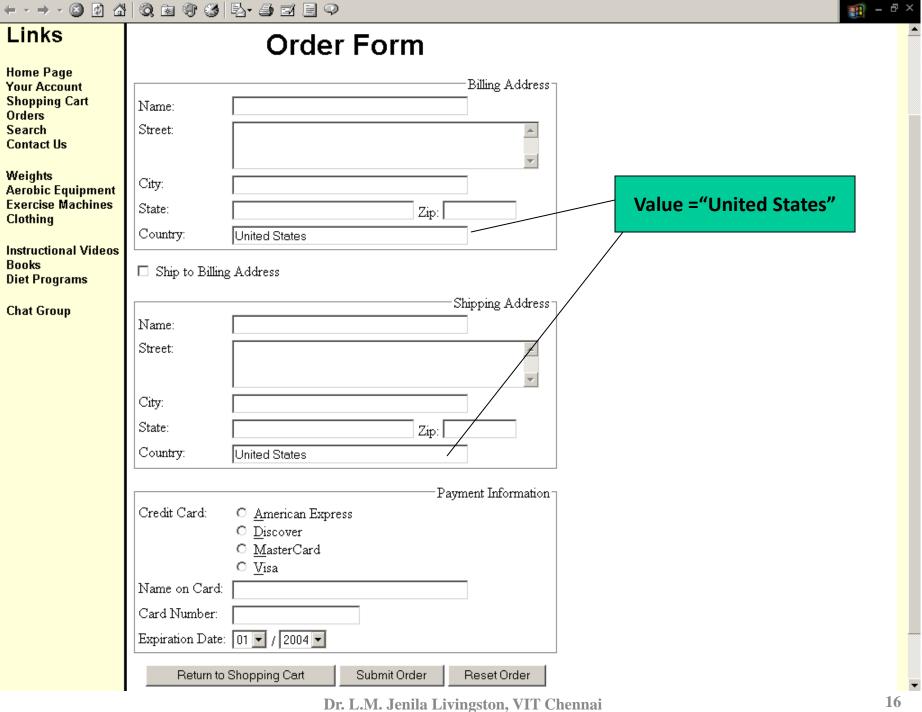


Setting the size (width) of Text Boxes

```
<TITS:
   First Name
   <
     <input type="text" name="fname" id="fname" size="30">
     Last Name
     <input type="text" name="lname" id="lname" size="30">
   Address #1
   >
     <input type="text" name="address1" id="address1" size="60">
   <TF>
   Address #2
   >
     <input type="text" name="address2" id="address2" size="60">
```

Maximum Length of a text box

Default Value for a Text box



2. Password Field

- A password field is a text box in which the characters typed by the user are displayed as bullets or asterisks i.e. ****.
- Syntax:
 - <input type="password">
- Using a password field should not be confused with having a secure connection. It is not encrypted.
- The password field only acts as a mask for a field entry as it is entered.

3. Radio Buttons

- Radio buttons display a list of choices from which a user makes a selection.
 - Only one radio button can be selected at a time.
- Syntax:

```
<input type="radio" name="name" id="id"
value="value">
```

- name the field containing the radio button (required)
- id the specific option. Only required if you intend to use a field label with the radio button
- value sent to the CGI script, if that radio button is selected by the user

Creating Radio Buttons

```
Please select your age:
<input type="radio" id="age1" name="age" value="30">0 - 30<br>
<input type="radio" id="age2" name="age" value="60">31 - 60<br>
<input type="radio" id="age3" name="age" value="100">61 - 100<br>
```

Please select your age:

- \bigcirc 0 30
- 31 60
- 061 100

4. Check Boxes

- A check box is either selected or not
- Syntax:

```
<input type="checkbox" name="name" id="id"
  value="value">
```

- name and id identify the check box
- the value is sent to the CGI script when the check box is selected
- Check boxes are not selected by default.
 - to do this, add the checked attribute to the <input> tag

Check Boxes

```
I have a
<input type="checkbox" id="vehicle1" name="vehicle1" value="Bike">
<label for="vehicle1"> bike</label><br>
<input type="checkbox" id="vehicle2" name="vehicle2" value="Car">
<label for="vehicle2"> car</label><br>
<input type="checkbox" id="vehicle3" name="vehicle3" value="Boat">
<label for="vehicle3"> boat</label><br><<br>
                        I have a
                           bike
                          _ car
                          ∃ boat
```

5. Field Set (Group Box)

- A group box labels an entire collection of radio/ check boxes.
- A group box is a box placed around a set of fields that indicates that they belong to a common group.
- the <legend> tag is used to display a legend on the group box
- Syntax:

```
<fieldset>
<legend align="top">legend text</legend>
collection of fields
</fieldset>
```

Creating a Group Box and Legend

- Party Affiliation:
- O Democrati
- 🔼 Republican
- Independent

Group Boxes for Radio Buttonsand Check Boxes

```
<fieldset>
<legend align="top">Network Operating System (check all that apply)</legend>
<input type="checkbox" name="nw" id="nw" value="yes">
<label for="nw">Netware</label><br>
<input type="checkbox" name="bv" id="bv" value="yes">
<label for="bv">Banyan Vines</label><br>
<input type="checkbox" name="win" id="win" value="yes">
<label for="win">Windows</label><br>
<input type="checkbox" name="ibm"_id="ibm" value="yes">
<label for="ibm">IBM Lan Server</label><br>
<input type="checkbox" name="pcnfs" id="pcnfs" value="yes">
<label for="pcnfs">PC/NFS</label>
</fieldset>
  -Used For (check one)-
                                            Network Operating System (check all that apply):
  O Home
                                           □ Netware.

    Business.

                                           Banyan Vines

☐ Windows

  C Religious or Charitable Institution
  • Government
                                           ☐ IBM Lan Server

    Educational Institution

                                           PC/NFS
```

6. Form Labels

- For scripting purposes, HTML allows you to formally attach a label to a related text element.
- Syntax:

```
<label for="id">label text</label>
```

- id is the value of the id attribute for a field on the form
- label text is the text of the label
- you must bind the label to the id attribute of the field and not the name attribute

Creating a Label for the fname Field

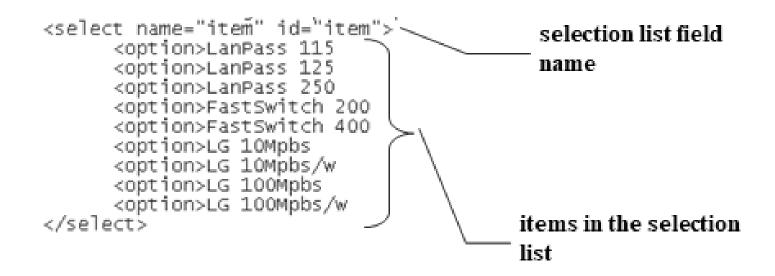
7. Selection List

Product Registration						
First Name Address #1 Address #2		Last Name				
City Country	United States	State Zip				
Item Purchased	LanPass 115 LanPass 115 LanPass 125 LanPass 250 FastSwitch 200 FastSwitch 400 LG 10Mpbs LG 100Mpbs LG 100Mpbs/w LG 100Mpbs/w	Purchase Date Serial Number				

Selection List

- A selection list is a list box from which a user selects a particular value or set of values.
- Selection lists are useful to use when a set of possible options is fixed.
- Selection lists help eliminate spelling errors and invalid entries.
- A selection list is created using the <select> tag.
- The <option> tag is used to specify individual selection items.

Creating a Selection List



Selection Lists with Different Size Values

LanPass 115 **▼ size = "1"**

LanPass 115
LanPass 125
LanPass 250
FastSwitch 200
FastSwitch 400
LG 10Mpbs

size = "7"

LanPass 115 A LanPass 125 D LanPass 250 FastSwitch 200

size = "4"

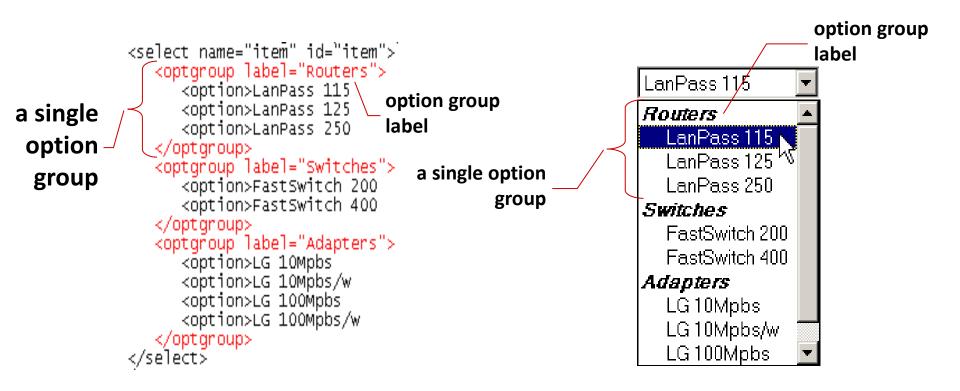
LanPass 115
LanPass 125
LanPass 250
FastSwitch 200
FastSwitch 400
LG 10Mpbs
LG 100Mpbs
LG 100Mpbs

size = "9"

Option Groups

- Option groups allow you to organize selection lists into distinct groups.
- Syntax:
 - <optgroup label="label">
 - label is the label assigned to the option group
 - the text for the label appears in the selection list above each group of items but is not a selectable item from the list

Option Groups



selected attribute

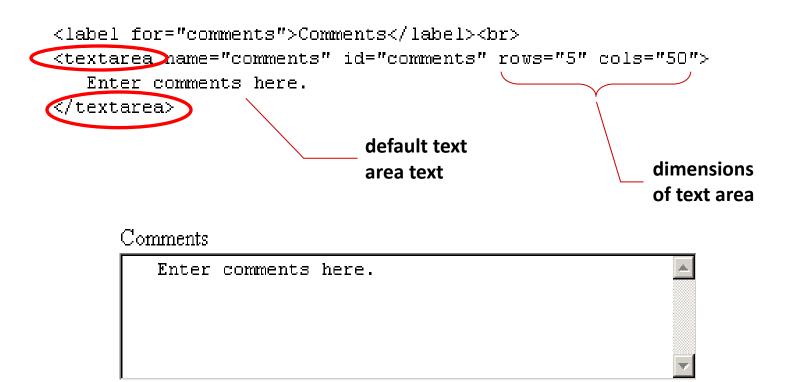
To display "FastSwithch 200" in a combo box by default when the page loads



<option selected>FastSwitch 200</option>

8. Text Area

- The <textarea> tag defines a multi-line text input control.
- The <textarea> element is often used in a form, to collect user inputs like comments or reviews.



9. Buttons

- The **<button>** tag defines a clickable button.
- It is used to submit forms or anywhere in a document for accessible, standard button functionality.
- <button type="button">Click Me!</button>

Click Me!

Push Buttons

- Push button is created using the <input> tag
- Syntax:

```
<input type="button" value="text">
```

- text is the text that appears on the button
- Push buttons do not perform any actions by themselves on the web page.
- To create an action, write a script or program that runs automatically when the button is clicked.
 - <input type="button" value="Click me" onclick="msg()">

Click me

Submit and Reset Buttons

- A **submit button** is a button that submits the form to the CGI script for processing.
- A reset button resets the form to its original values.
- The syntax for creating these two buttons is:

```
<input type="submit" value="text">
<input type="reset" value="text">
```

value attribute defines the text that appears on the button

Submit and Reset Buttons

```
<form action="/action_page.php">
 <label for="fname">First name:</label><br>
<input type="text" id="fname" name="fname" value="Leni"><br>
 <label for="lname">Last name:</label><br>
<input type="text" id="lname" name="lname" value="Frank"><br><br>
 <input type="submit" value="Submit">
 <input type="Reset" value="Reset">
</form>
                   First name:
                    Leni
                   Last name:
                    Frank
                    Submit
                             Reset
```

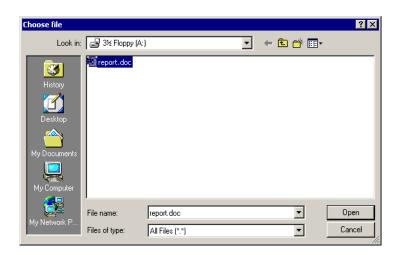
10. File Button

<input type="file" name="file_name">

1. User clicks the Browse button



2. Selects a file from the Choose File dialog box



3. The filename and location are automatically placed in the text box

A:\report.doc	Browse
M. /ieboicaoc	DIOWSE

11. Hidden Fields

- A hidden field is added to the form but not displayed in the Web page.
- Because the field is hidden, it can be placed anywhere between the opening and closing <form> tag.
- Syntax:
 - <input type="hidden" name="name" value="value>
- Place all hidden fields in one location to make it easier to read and interpret the HTML code.
- Include a comment describing the purpose of the field.

Hidden Field

Exercise

Name	Value			
Name				
Sex	○ Male ⊙ Female			
Eye color	green 🔻			
Check all that apply	□ Over 6 feet tall □ Over 200 pounds			
Describe your athletic ability:				
Enter my information				

References

 https://www.slideshare.net/NamanJoshi20/cre ating-web-formfor-college-seminars



Form Elements

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HTML5: New Form elements

HTML5 has several new elements for forms.

- input types
 - > email
 - > url
 - > tel
 - > number
 - > range
 - > output
 - > date pickers
 - > search
 - > color
 - > datalist
 - > keygen
- Form Validation attributes

HTML5: Input - e-mail

 The email type is used for input fields and will have an email address.

 Depending on browser support, the e-mail address can be automatically validated when submitted.

```
E-mail: <input type="email" name="user_email" />
<input type="email" value="default@example.com">
<input type="email" size="32" minlength="3" maxlength="64">
<input type="email" placeholder="sophie@example.com">

E-mail:
```

input type - email

- Perform basic built-in validation
- Allows formats like abc@domain (without a toplevel domain).
- Doesn't enforce stricter rules for valid characters or specific domain formats.
- Strict Email Validation with pattern

```
<input type="email" id="email" name="email"

pattern="[a-z0-9._%+-]+@[a-z0-9.-]+\.[a-z]{2,}$"

title="Please enter a valid email address (e.g., example@domain.com)."

required>
```

Input - url

 The url type is used for input fields and will have a URL address.

• The value of the url field is automatically validated when the form is submitted.

Homepage: <input type="url" name="user_url" />

tel

```
<form>
Telephone: <input type="tel" name="phone" pattern="[0-9]{3}-[0-9]{2}-[0-9]{3}" required> <input type="submit"> <span>Format: 123-45-678</span> </form>
```

Telephone: Submit

Format: 123-45-678

text vs tel

Feature	<pre><input type="text"/></pre>	<pre><input type="tel"/></pre>
Purpose	General-purpose input for any type of text.	Specifically for entering telephone numbers.
Validation	No built-in validation; accepts any text input.	No built-in validation for phone formats, but intended for phone numbers.
Allowed Input	Any characters, including letters, numbers, symbols, and spaces.	Any characters, such as numbers, +, -, spaces, *, #.
Keyboard (Mobile)	Displays a standard alphanumeric keyboard.	Displays a telephone-specific keyboard with numbers and symbols like + , * , and # .

Input - number

- defines a numeric input field
- Set restrictions on what numbers are accepted:

Points: <input type="number" name="points" min="1" max="10" />

Attribute	Value	Description
max	number	Specifies the maximum value allowed
min	number	Specifies the minimum value allowed
step	number	Specifies legal number intervals (if step="3", legal numbers could be -3,0,3,6, etc)
value	number	Specifies the default value



number Vs tel

Feature	<pre><input type="number"/></pre>	<pre><input type="tel"/></pre>
Purpose	Numeric input (e.g., age, quantity).	Telephone numbers (e.g., contact details).
Validation	Ensures valid numeric input.	No built-in validation for phone formats.
Allowed Input	Only numbers (0–9) and specific symbols: - (negative), . (decimal), e or E (exponent in scientific notation).	Any characters (e.g., + ,

Input - range

- Slider control
- Default range is 0 to 100
- The range type is used for input fields that should contain a value from a range of numbers.
- You can also set restrictions on what numbers are accepted:

```
<input type="range" name="points" min="1" max="10" />
```

Depending on browser support: The input type "range" can be displayed as a slider control.



output

The **output** element is used for different types of output, like calculations or script output:

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

The **oninput** attribute ensures that the output is updated dynamically when either input changes.

Input – date pickers

input type for selecting date and time:

- > date Selects date, month and year
- > month Selects month and year
- > week Selects week and year
- > time Selects time (hour and minute)
- > datetime Selects time, date, month and year
- > datetime-local Selects time, date, month and year (local time)

Date

```
Birthday: <input type="date" name="bday">
```

Birthday: mm/dd/yyyy

```
<form>
Enter a date before 1980-01-01:<br> <input type="date" name="bday" max="1979-12-31"><br> <br> Enter a date after 2000-01-01:<br> <input type="date" name="bday" min="2000-01-02"><br> </form>
```

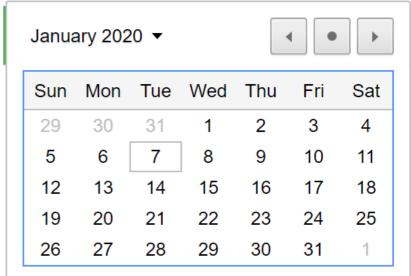
Enter a date before 1980-01-01:

mm/dd/yyyy

Enter a date after 2000-01-01:

mm/dd/yyyy

Dr. L.M. Jenila Livingston, VIT Chimigidd/yyyy



Time, Date

<input type="time" id="tnputtime" name="inputtime">

Select a time:

Birthday (date and time): <input type="datetime-local" name="bdaytime">

July	2020	•			\uparrow	\downarrow	02	36	PM	
Su	Мо	Tu	We	Th	Fr	Sa	03	37	AM	
28	29	30	1	2	3	4	04	38		
5	6	7	8	9	10	11	04	30		ı
12	13	14	15	16	17	18	05	39		١
19	20	21	22	23	24	25	06	40		
26	27	28	29	30	31	1	07	41		
2	3	4	5	6	7	8				
					То	day	08	42		

02	33	PM
03	34	AM
04	35	
05	36	
06	37	
07	38	
08	39	
:	- 0	

Input - search

- The search type is used for search fields like a site search or Google search.
- The search field behaves like a regular text field.

Search Google:<input type="search" id="gsearch" name="gsearch">

Search Google:

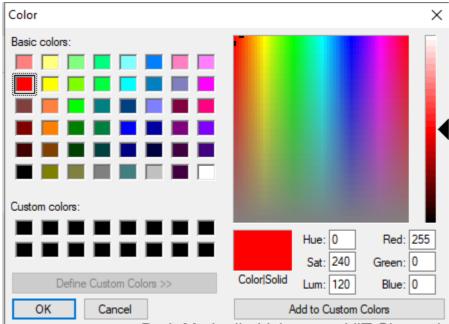
Input – color picker

input field that contains a color.

 allow you to select a color from a color picker. Default: black color

Color: <input type="color" name="user_color" />

Color Picker



datalist

- The datalist element specifies a list of options for an input field. The list is created with option elements inside the datalist. (similar to SELECT tag)
- The user can enter value that is not available in the list also

Difference between <select> and <datalist> elements in HTML

- •<datalist> is a new element in HTML5. It is a text field that suggests the possible values from an available list. Users can also enter value that is not in the available list.
- <select> provides a number of values from which user needs to select one. User cannot enter value that is not in the list.

keygen

The purpose of the **keygen** element is to provide a secure way to authenticate users. (keytype:rsa,dsa,ec)

Eg: <keygen name="security" keytype="rsa">

RSA - Rivest-Shamir-Adleman

DSA - Digital Signature Algorithm)

EC - Elliptic Curve

Form validation attributes

required	Specifies that an input field is required (must be filled out)
pattern	Specifies a regular expression to check the input value against

pattern attribute

```
<input type="text" name="fieldname" pattern="regex" title="error message">
```

Example 1: Validating a Phone Number

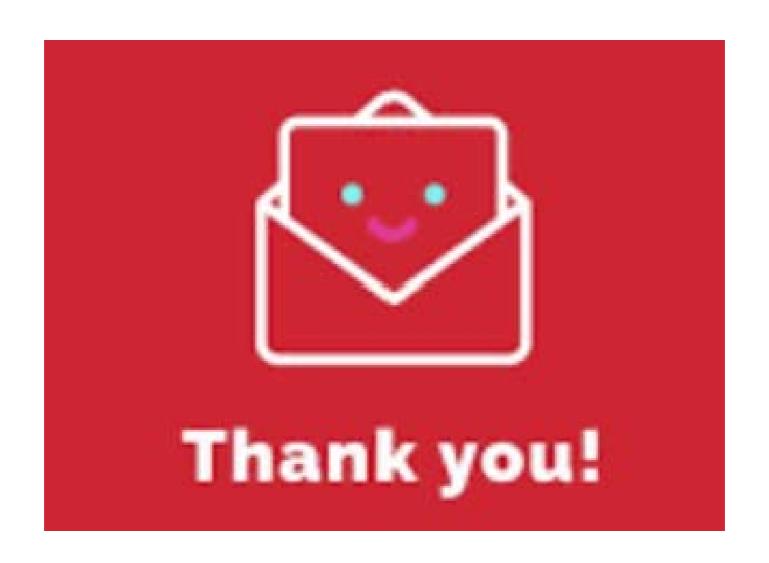
Phone Number (10 digits): <input type="tel" id="phone" name="phone" pattern="[0-9]{10}" title="Please enter a valid 10-digit phone number." required>

Example 2: Validating a Password

<input type="password" id="password" name="password" pattern="(?=.*\d)(?=.*[a-z])(?=.*[A-Z])(?=.*[\W_]).{8,}" title="Password must be at least 8 characters long, contain uppercase and lowercase letters, a number, and a special character." required>

Example 3: Validating a Pancard

<input type="text" id="pan" name="pan" pattern="[A-Z]{5}[0-9]{4}[A-Z]{1}"
title="Please enter a valid PAN number (e.g., ABCDE1234F)." required>



HTML Frames

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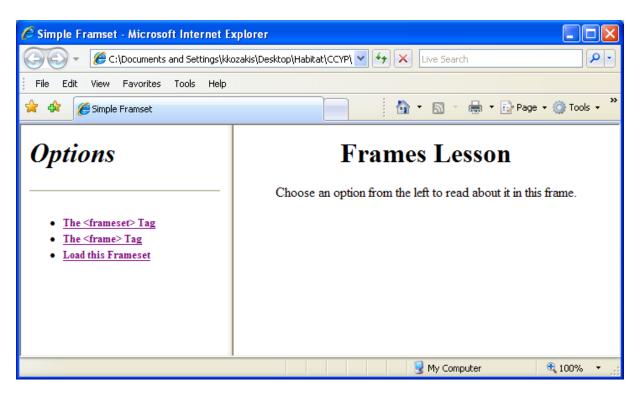
Frames

- 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 <frameset> Tag

- <frameset> requires a closing </frameset> tag
- Determines the frame types and sizes on the page
- Two frameset types:
 - Columns
 - Rows

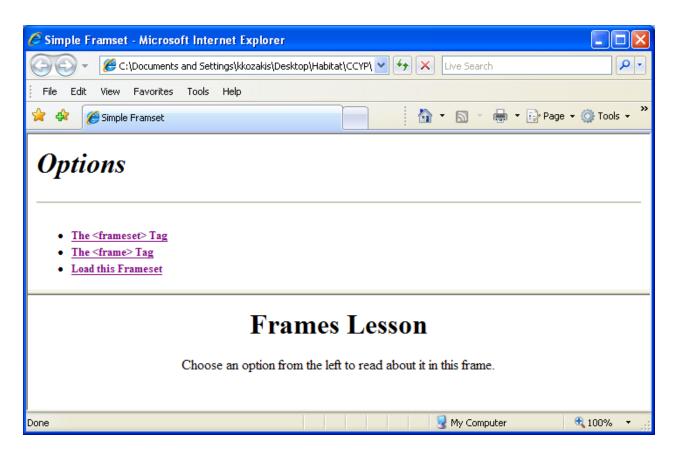
Columns Example



- This frameset was created by the following code:
- <frameset cols="35%,65%"> </frameset>

Absolute values in pixels. For example to create three vertical frames, use cols="100, 500,100".

Rows Example



- This frameset was created by the following code:
- <frameset rows="65%,*"> </frameset>

<frameset attributes>

- rows
- cols

framespacing

- border
- frameborder
- framespacing

border This attribute specifies the width of the border of each frame in pixels. For example border="5". A value of zero means no border.

frameborder This attribute specifies whether a three-dimensional border should be displayed between frames. This attrubute takes value either 1 yes or 0 no. For example frameborder="0" specifies no border.

This attribute specifies the amount of space between frames in a frameset. This can take any integer value. For example framespacing="10" means there should be 10 pixels spacing between each frames.

The <frame> Tag

- Defines the content in each frame
- Placed between the <frameset> </frameset> tags
- The src attribute specifies the file that appears in the frame
- In the following example, the page that will appear in the top frame is the file fl-toc.html, and the page that will appear in the lower frame is fl-second.html.

<frame> Attributes

Attribute	Description
src	This attribute is used to give the file name that should be loaded in the frame. Its value can be any URL. For example, src="/html/top_frame.htm" will load an HTML file available in html directory.
name	This attribute allows you to give a name to a frame. It is used to indicate which frame a document should be loaded into. This is especially important when you want to create links in one frame that load pages into an another frame, in which case the second frame needs a name to identify itself as the target of the link.
frameborder	This attribute specifies whether or not the borders of that frame are shown; it overrides the value given in the frameborder attribute on the $<$ frameset $>$ tag if one is given, and this can take values either 1 yes or 0 no .
marginwidth	This attribute allows you to specify the width of the space between the left and right of the frame's borders and the frame's content. The value is given in pixels. For example marginwidth="10".
marginheight	This attribute allows you to specify the height of the space between the top and bottom of the frame's borders and its contents. The value is given in pixels. For example marginheight="10".

<frame> Attributes

noresize	By default you can resize any frame by clicking and dragging on the borders of
	a frame. The noresize attribute prevents a user from being able to resize the

frame. For example noresize="noresize".

scrolling This attribute controls the appearance of the scrollbars that appear on the

frame. This takes values either "yes", "no" or "auto". For example scrolling="no"

means it should not have scroll bars.

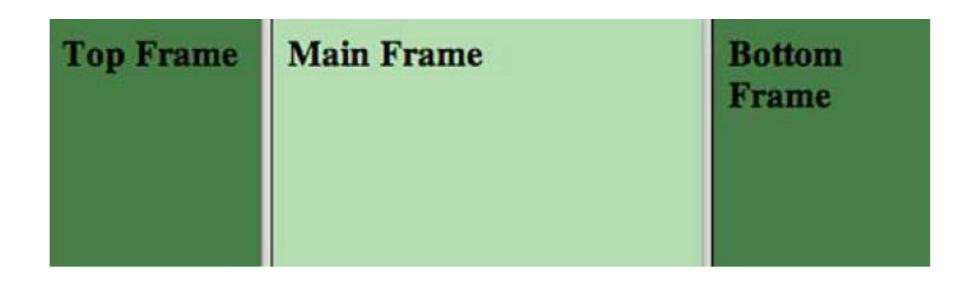
longdesc This attribute allows you to provide a link to another page containing a long

description of the contents of the frame. For example

longdesc="framedescription.htm"

Top Frame Main Frame Bottom Frame

```
<!DOCTYPE html>
<html>
<head>
<title>HTML Frames</title>
</head>
<frameset rows="10%,80%,10%">
   <frame name="top" src="/html/top_frame.htm" />
   <frame name="main" src="/html/main_frame.htm" />
   <frame name="bottom" src="/html/bottom_frame.htm" />
   <noframes>
   <body>
      Your browser does not support frames.
   </body>
   </noframes>
</frameset>
</html>
```



```
<!DOCTYPE html>
<html>
<head>
<title>HTML Frames</title>
</head>
<frameset cols="25%, 50%, 25%">
   <frame name="left" src="/html/top_frame.htm" />
   <frame name="center" src="/html/main_frame.htm" />
   <frame name="right" src="/html/bottom_frame.htm" />
   <noframes>
   <body>
      Your browser does not support frames.
   </body>
   </noframes>
</frameset>
</html>
```

The <noframes> Tag

- If a user is using any old browser or any browser which does not support frames then <noframes> element should be displayed to the user.
- So you must place a <body> element inside the <noframes> element because the <frameset> element is supposed to replace the <body> element, but if a browser does not understand<frameset> element then it should understand what is inside the <body> element which is contained in a <noframes> element.

Targeting Frames with Hyperlinks

- Use the name attribute to name a frame, then target the frame name with hyperlinks
- The syntax for naming a frame is as follows:
 <frame src="url" name="framename"/>
- The following code names a frame:
 <frame src="james.html" name="authors"/>
- The following code targets this frame:
 Visit James
- If a user clicks the Visit James link, the James page will open in the Authors frame

Base Target

- A base target automatically sets a default target frame for all links in a page
- Created using the <base> tag
- Code:

<base target="main" href="page.html"/>

- This code will cause all linked pages to open in the frame named Main
- The href attribute is optional

Example Page



This is main page and content from any link will be displayed here.

So now click any link and see the result.

```
<frameset cols="30%,*">
     <frame name="nav" src="menu.html">
     <frame name="main_page" src="content.html">
     </frameset>
```

menu.html

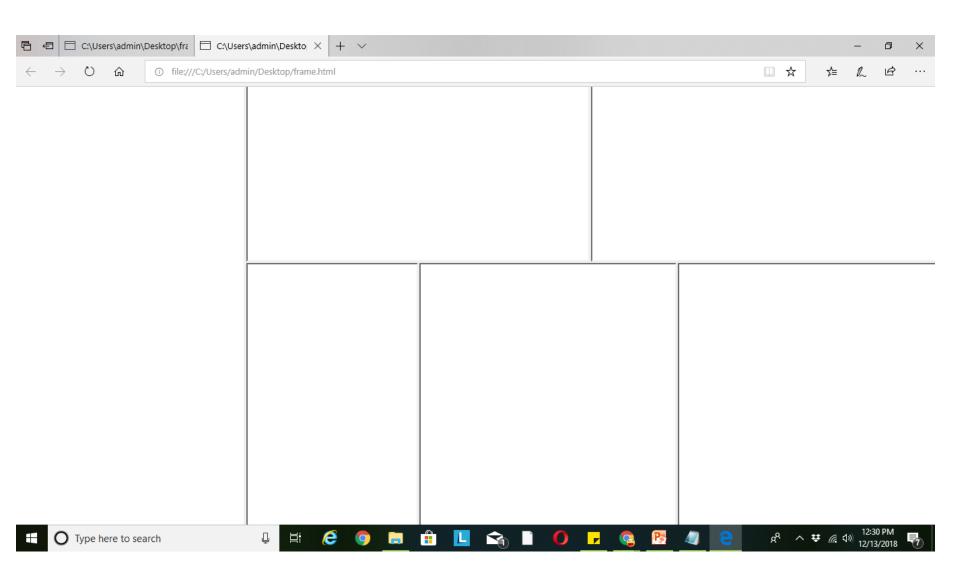
```
<!DOCTYPE html>
<html>
<body bgcolor="#4a7d49">
<a href="http://www.google.com" target="main_page">Google</a>
<br /> ca href="http://www.microsoft.com" target="main_page">Microsoft</a>
<a href="http://www.microsoft.com" target="main_page">Microsoft</a>
<br /> cbr /> ca href="http://news.bbc.co.uk" target="main_page">BBC News</a>
</body>
</html>
```

Content.html

```
<!DOCTYPE html>
<html>
<body bgcolor="#b5dcb3">
<h3>This is main page and content from any link will be displayed here.</h3>
So now click any link and see the result.
</body>
</html>
```

Anchor tag target values

Option	Description
_self	Loads the page into the current frame.
_blank	Loads a page into a new browser window.opening a new window.
_parent	Loads the page into the parent window, which in the case of a single frameset is the main browser window.
_top	Loads the page into the browser window, replacing any current frames.
targetframe	Loads the page into a named targetframe.



```
<frameset cols="25%,*">
     <frame name="f1">
     <frameset rows="40%,60%">
           <frameset cols="50%,50%">
                 <frame name="f2">
                 <frame name="f3">
           </frameset>
           <frameset cols="25%,*,*">
                 <frame name="f4">
                 <frame name="f5">
                 <frame name="f6">
           </frameset>
     </frameset>
</frameset>
```

Inline Frames

- Inserts an HTML or XHTML document inside another
- Also called "floating frames"
- Created with the <iframe> tag
- The browser reads the <iframe> tag from the file, then makes a separate request to the server for the embedded file

Inline Frames (cont'd)

Simple XHTML page with inline frame:

```
<h1>iFrame Example</h1>
<strong>This text is found in iframe.html</strong>
<iframe src="embedded.html" scrolling= "yes">
Your browser does not support frames.
</iframe>
<<strong>This text is also found in iframe.html.
</strong>
```

The next slide shows the results of this code...

Inline Frames (cont'd)

