



Introduction to Markup Languages



Markup

Markup is text that is added to the data of a document in order to convey information about it.

Markup indicates which part of document is heading, which parts are paragraphs, what belongs in a table and so on. This markup in turn allows a web browser to display your document properly.

A marked up document contains

- Data
- Information about the data.

HTML

Hypertext Markup Language

- It is a application of Standard generalized Markup Language(SGML).

Advantages

- Simple to learn and use
- Easy to parse

Disadvantages

- No standardization
- Much more of a presentation language than a structural language
- Too limited

example

```
<html>
<head>
    <title>My page</title>
</head>
<body>
<h1> heading</h1>
<p> a paragraph</p>
</body>
</html>
```



Different versions of HTML

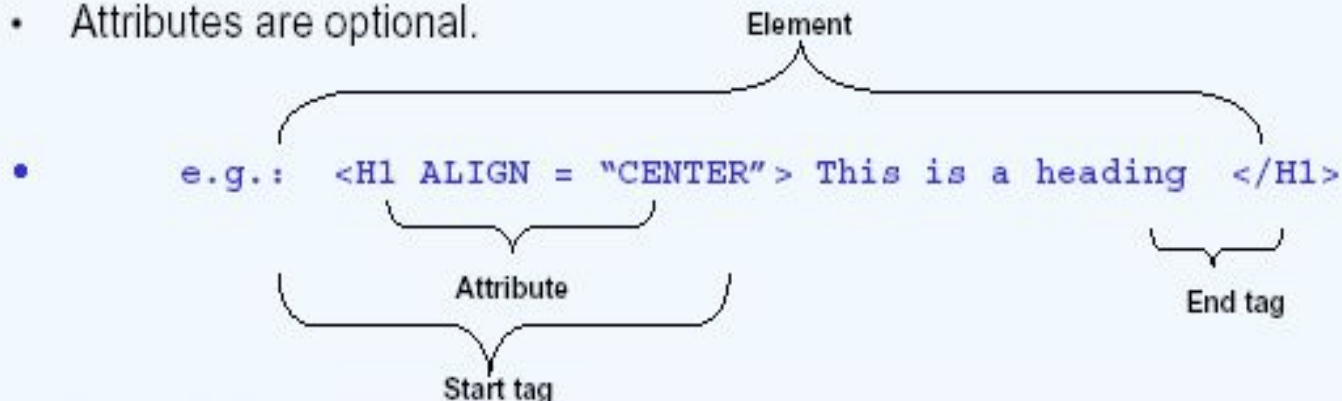
- HTML 2.0 (Outdated)
- HTML 3.2 (font, tables, applets, subscript, superscript and more)
- HTML 4.0 (introduction to style sheet)
- HTML 4.0.1 (some bug fixes in HTML 4.0)
- XHTML 1.0 (reformulate HTML in XML)
- HTML 5 (header, footer, figure, video, audio etc)

HTML as Markup

Language-is a language for describing how pages of text, graphics and other information are organized, formatted and linked together.

HTML Tags and Attributes

- The HTML instructions are called tags, and look like
 - `<TAG> Text here..... </TAG>`
- Container tags : Tags that have starting as well as ending part.
 - e.g.: `<TITLE>Title of the Web Page </TITLE>`
- Empty tags : Tags that do not have the closing part.
 - e.g. `
` , `<HR>`
- (HTML instructions + text to which the instructions apply)= HTML elements
- An attribute is an additional feature you can use to configure the element
- Attributes are optional.



```
1  <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"
2      "http://www.w3.org/TR/html4/strict.dtd">
3  <html>
4
5  <!-- Fig. 2.1: main.html -->
6  <!-- Our first Web page -->
7
8  <head>
9      <title>XML How to Program - Welcome</title>
10 </head>
11
12 <body>
13
14 <p>Welcome to Our Web Site!</p>
15
16 </body>
17 </html>
```

Document type (required)
defines HTML version

html tag identifies page as HTML

Comments are ignored by browser
but increase HTML readability.

head tag specifies page information

title tag assigns name to page; title
generally displayed at top of browser.

body tag contains page contents.

Paragraph element formats paragraph text

HTML Document HEAD

- Enclosed in `<HEAD>` `</HEAD>` tag
- Tags that can go in the document head
 - `<TITLE>` Indicates the title of the document that is used as the window caption
 - `<BASE>` specifies the absolute URL address
 - `<LINK>` specifies the relationship between the current document and other documents.
 - `<META>` element can be used to specify name/value pairs describing various properties of the document

e.g: `<BASE HREF = "http://www.inf.com/file.html">`

Specifies the base URL of the document. This is used when dereferencing relative URLs in the page.

- **<META>** element uses name value pairs to provide meta information about the document. It often provides descriptive information that is targeted by search engines.

Eg: .

1. To have your page automatically reloaded every X seconds

`<META HTTP-EQUIV="REFRESH" CONTENT=X >`

EXAMPLE

2. To have a different page automatically loaded after X seconds

`<META HTTP-EQUIV="REFRESH" CONTENT="X; URL= http://address/file.html">`

EXAMPLE

3. To specify an expiration date for the page so that it will be reloaded after a certain date.

`<META HTTP-EQUIV="Expires" CONTENT="Mon, 23 Sep 2001 01:21:00 GMT">`

4. To specify keywords for certain search services to use.

`<META HTTP-EQUIV="Keywords" CONTENT="keyword1, keyword2, ...">`

5. To specify a description of your page for certain search services to use

`<META HTTP-EQUIV="Description" CONTENT="Describe your site here....">`

HTML Document- BODY

- Enclosed in `<BODY> </BODY>` tag.
- Some important attributes of the BODY tag
 - BGCOLOR = "color" / "#rrggbb"
 - BGPROPERTIES=FIXED
 - BACKGROUND = "url of the image"
 - TEXT = "color" / "#rrggbb"
 - LEFTMARGIN = n
 - LINK = "color" / "#rrggbb"
 - ALINK = "color" / "#rrggbb"
 - VLINK = "color" / "#rrggbb"
 - TOPMARGIN= n

Formatting The Web Page

 tag describes the display attributes of the text inside

- tag
 - Allows you to specify the font face and font size.
 - Some common attributes are
 - FACE specifies the font style.
 - SIZE specifies the font size. Value can range from 1 to 7. The default is 3.
SIZE can be set as a relative value using + or - .
 - COLOR- The color of a font can be specified using a hexadecimal number value six characters long.
 - E.g.: `
The Written Word`

Text Formatting Tags

- Header Tags
 - HTML has six level of headings.
 - Displayed in larger and bolder fonts.
 - Different level heading tags
 - `<H1> Heading 1 </H1>`
 - `<H2> Heading 2 </H2>`
 - `<H3> Heading 3 </H3>`
 - `<H4> Heading 4 </H4>`
 - `<H5> Heading 5 </H5>`
 - `<H6> Heading 6 </H6>`
- The font size of the heading will go on decreasing from H1 to H6.

Text Formatting Tags

- Paragraphs
– `<P> </P>` - used to create paragraphs.
It has ALIGN attribute—allowed values LEFT, RIGHT, CENTER, JUSTIFY
- Line Breaks
– `
` - to insert returns or blank lines in the document.
– e.g. :`<P>This
 is a para
graph with line breaks</P>`
- Horizontal Lines
– `<HR>` - used to draw a horizontal line across the web page.
– e.g: `<HR ALIGN = "right" WIDTH = "50%" NOSHADE >`
Attributes—size, width, align, noshade

Text Formatting Tags

Tag	Description
• <code>....</code>	- Bold
• <code><I>.....</I></code>	- Italic
• <code><U>....</U></code>	- Underline
• <code><STRIKE>...</STRIKE></code>	- Strikethrough
• <code><TT>....</TT></code>	- Typewriter (monospaced)
• <code><CENTER></CENTER></code>	- Centers the text on the screen.
• <code><SUB>....</SUB></code>	- Subscript
• <code><SUP>....</SUP></code>	- Superscript
• <code><BIG>....</BIG></code>	- Bigger font (one font size bigger)
• <code><SMALL>....</SMALL></code>	- Small font (one font size smaller)

Linking The Pages

- Used to Link Text with other documents
- `<A>`
 - HREF
 - NAME (bookmarks inside the page)
 - TITLE (balloon help in IE)
- e.g.:
` Click here `

Additional attributes

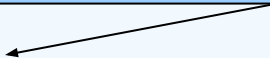
ALINK -- specifies the color of the activated link

VLINK – specifies the color of visited link

LINK – specifies color of links

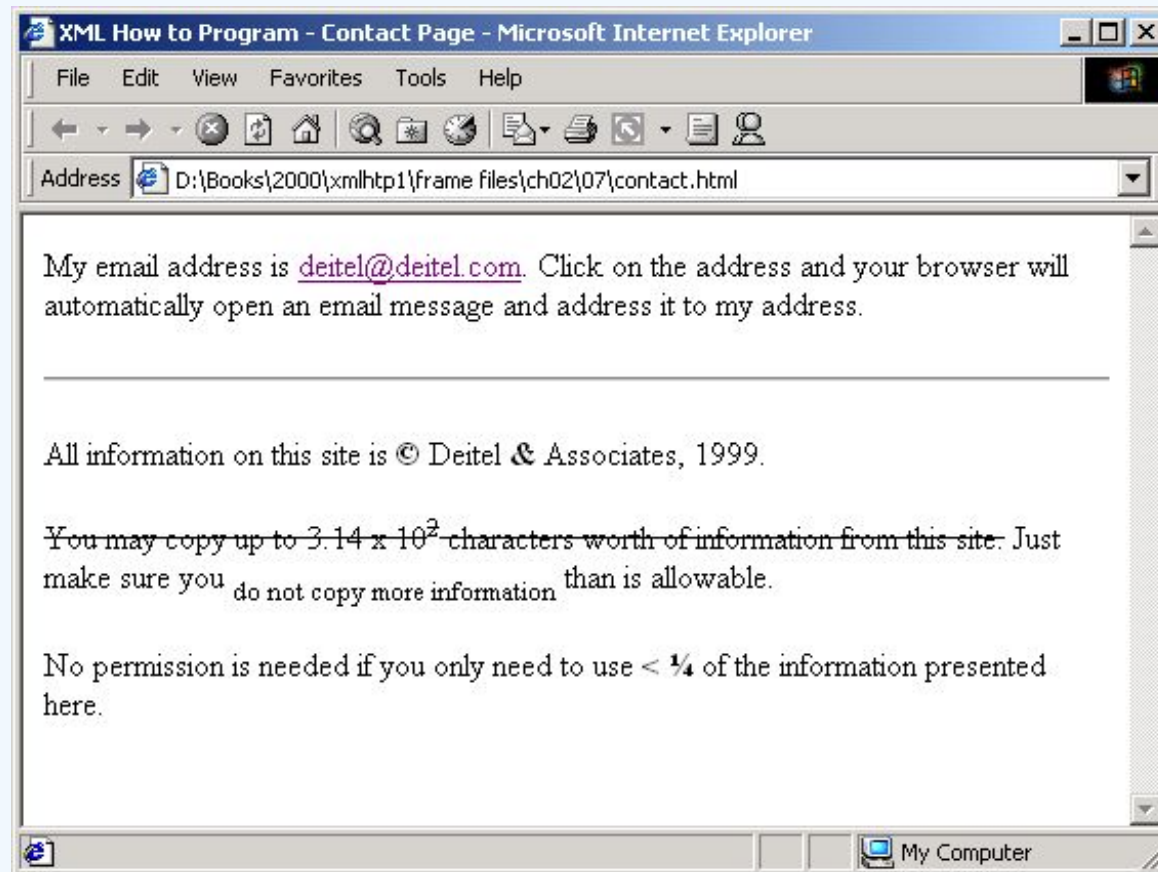
```
1  <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"
2      "http://www.w3.org/TR/html4/strict.dtd">
3  <html>
4
5  <!-- Fig. 2.4: contact.html -->
6  <!-- Adding email hyperlinks -->
7
8  <head>
9      <title>XML How to Program - Contact Page</title>
10 </head>
11
12 <body>
13
14     <p>My email address is <a href =
15     "mailto:deitel@deitel.com">
16     deitel@deitel.com</a>. Click on the address and your
17     browser
18     will open an email message and address it to me.</p>
19
20 </body>
21 </html>
```

mailto: tells Web browser to load default email
client with given address



example

Output



Unordered Lists

■ Unordered Lists

□ Element **ul**

■ Creates unordered list

- Each line begins with bullet mark

■ Attributes

TYPE –specifies type of bullet

example FILLROUND, SQUARE

□ Element **li**

- defines each List Entry

```
1  <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"
2      "http://www.w3.org/TR/html4/strict.dtd">
3  <html>
4
5  <!-- Fig. 2.8: links.html -->
6  <!-- Unordered list containing hyperlinks -->
7
8  <head>
9      <title>XML How to Program - Links</title>
10 </head>
11
12 <body>
13
14     <h1>Here are my favorite Internet Search
Engines</h1>
15
```

16

17 <p>Click on the Search Engine address to go to

that

18 page.</p>

19

Element **ul** begins the list, and
element **li** separates each list

20 <ul TYPE="FILLROUND">

21 Yahoo

22

23 <a href =
"http://www.altavista.com">AltaVista

24

25 Ask
Jeeves

26

27 <a href =
"http://www.webcrawler.com">WebCrawler

28

29

30 </body>

31 </html>

Output



Special Characters

- Special Characters

- Format: `&code;`

- code is abbreviated name or hex code

- Examples:

- `&` = &

- `©` = ©



Nested and Ordered Lists

■ Nested Lists

- Improve Document structure
- Display outline information

■ Ordered Lists

- Automatically assign rank to each element

Attributes Of Ordered Lists

TYPE attribute controls the numbering scheme

- TYPE = 1 | A | a | I

- START - Alters the numbering sequence. Can be set to any value
- VALUE - Can be set with the tag to changes the numbering sequence in the middle of an ordered list.

e.g.: <OL TYPE = "1" START =5>

O/P:

 Item 1

5. Item 1

<LI VALUE =3> Item 2

3. Item 2

 Item 3

4. Item 3


```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<title>My Nested List</title>
</head>

<body>
<ul>
<li>Computer Science</li>
<ul>
<li>Web Application Engineering</li>
    <ul>
        <li>HTML</li>
        <li>php</li>
        <li>Java Script</li>
    </ul>
</li>
<li>Operating System</li>
    <ul>
        <li>Kernel</li>
        <li>process management</li>
        <li>Embedded System</li>
    </ul>
</li>
</ul>
</body>
</html>
```



stedlist.html

Code Split Design Title: My Nested List

50 100 150 200 250 300 350 400 450 500 550 600 650 700 750

- Computer Science
 - Web Application Engineering
 - HTML
 - php
 - Java Script
- Operating System
 - Kernel
 - process management
 - Embedded System

ly>

Properties

mat None Style None CSS B I Link

ont Default Font Size None Target

CSS

Application

Database Bindings Server Be/Comp

Document type:HTML

To use dynamic data on this page

1. Create a [site](#) for this file.
2. Choose a [document type](#)
3. Set up the site's [testing server](#).

Tag Inspector

Files



Complex HTML elements

- Structures
 - Tables
 - Clear data presentation
 - Forms
 - Obtain input from user
- Navigation aids
 - Image maps
 - Internal linking
 - Frames

Tables

- Display data in a tabular format.
- Helps in positioning the contents of the page in a more structured way.
- `<TABLE> </TABLE>` : define a table
- Some attributes
 - `ALIGN = LEFT | RIGHT | CENTER`
 - `BORDER = n` (Number of Pixels)
 - `BGCOLOR = "color" | "#rrggb"`
 - `CELLSPACING = n` (Number of Pixels)
 - `CELLPADDING = n` (Number of Pixels)
 - `WIDTH = % Of Parent | n (pixels)`

Attribute	Description
ALIGN	Horizontal alignment can be set to LEFT,CENTER and RIGHT
BGCOLOR	Background color of the table.
BORDER	Decide the border width e.g. <i>BORDER=1 width is specified in pixels</i>
CELLSPACING	Specifies the amount of space between the cells in the table
CELLPADDING	Specifies the amount of space between the edges of the cell and the text inside.
HEIGHT	Can set the height e.g. HEIGHT=100%. It can also contain absolute values in pixels but percentages are preferred.
WIDTH	Can set the width e.g. WIDTH=100%. It can also contain absolute values in pixels but percentages are preferred.

Structure of the Table

```
<TABLE>          <!-- start of table definition -->
<CAPTION> caption contents </CAPTION>  <!--caption definition -->
<TR>             <!-- start of header row definition -->
  <TH> first header cell contents </TH>
  <TH> last header cell contents </TH>
</TR>            <!-- end of header row definition -->
<TR>             <!-- start of first row definition -->
  <TD> first row, first cell contents </TD>
  <TD> first row, last cell contents </TD>
</TR>            <!-- end of last row definition -->
</TABLE>         <!-- end of table definition -->

  <TD> last row, last cell contents </TD>
```

Creating Tables

Simple sample table

Heading1	Heading2
Cell 1	Cell 2
Cell 3	Cell 4

```
<TABLE BORDER=1 CELLSPACING=1 CELLPADDING=1 WIDTH=30% >
<CAPTION> Simple sample table </CAPTION>
  <TR>
    <TH>Heading1</TH>
    <TH>Heading2</TH>
  </TR>
  <TR>
    <TD>Cell 1</TD>
    <TD>Cell 2</TD>
  </TR>
  <TR>
    <TD>Cell 4</TD>
    <TD>Cell 5</TD>
  </TR>
</TABLE>
```

Attributes of Cell

- Attribute **rowspan** of element **th** and **td**
 - Specifies row size
- Attribute **colspan** of element **th** and **td**
 - Specifies column size
- Attribute **valign** of element **th**, **td** and **tr**
 - Specifies vertical alignment of text
- Attribute **nowrap** **th**, **td** and **tr**
 - Deactivates automatic text wrap in the cell

Creating Tables

This cell spans 2 columns!		Cell
This cell spans 3 rows!!	Cell	Cell
	Cell	Cell
	Cell	Cell

```
<TABLE WIDTH="100%" BORDER=1 BGCOLOR=gray>
  <TR ALIGN=CENTER >
    <TD COLSPAN=2>This cell spans 2 columns!</TD>
    <TD> Cell </TD></TR>
  <TR ALIGN=CENTER >
    <TD ROWSPAN=3>This cell spans 3 rows!!</TD>
    <TD> Cell </TD>
    <TD> Cell </TD></TR>
  <TR ALIGN=CENTER >
    <TD> Cell </TD>
    <TD> Cell </TD></TR>
  <TR ALIGN=CENTER >
    <TD> Cell </TD>
    <TD> Cell </TD>
  </TR>
</TABLE>
```



Internal Linking

- Internal Linking
 - Define anchors within a page
 - Allows hyperlinks to anchors

```

1  <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"
2      "http://www.w3.org/TR/html4/strict.dtd">
3  <html>
4
5  <!-- Fig. 3.6: links.html -->
6  <!-- Internal Linking -->
7
8  <head>
9      <title>XML How to Program - List</title>
10 </head>
11
12 <body>
13
14     <!-- <a name = ".."></a> makes an internal hyperlink -->
15     <p><a name = "features"></a></p>
16     <h1>The Best Features of the Internet</h1>
17
18     <!-- An internal link's address is "xx.html#linkname" -->
19     <p><a href = "#ceos">Go to <em>Favorite CEOs</em></a></p>
20
21     <ul>
22         <li>You can meet people from countries around the
world </li>
23

```

Hyperlink causes browser to jump directly to **#ceos** anchor (at bottom of page)

```
24      <li>You have access to new media as it becomes
25      <ul>
26          <li>New games</li>
27          <li>New applications
28              <ul>
29                  <li>For Business</li>
30                  <li>For Pleasure</li>
31              </ul>
32          </li>
33
34          <li>Around the Clock news</li>
35          <li>Search Engines</li>
36          <li>Shopping</li>
37          <li>Programming
38              <ul>
39                  <li>HTML</li>
40                  <li>Java</li>
41                  <li>Dynamic HTML</li>
42                  <li>Scripts</li>
43                  <li>New languages</li>
44              </ul>
45          </li>
46      </ul>
47  </li>
48
49  <li>Links</li>
50  <li>Keeping In touch with old friends</li>
51  <li>It is the technology of the future!</li>
52 </ul>
53
```

54

55 `<p></p>`

56 `<h1>My 3 Favorite CEOs</h1>`

57

Anchored position of #ceos

58 `<p>`

59 `Go to Favorite`
Features

60 `</p>`

61

62 ``

63 `Bill Gates`

64 `Steve Jobs`

65 `Michael Dell`

66 ``

67

68 `</body>`

69 `</html>`

example

Embedding Images

- `` tag
 - SRC = "url"
 - ALIGN = "TOP | MIDDLE | BOTTOM "
 - BORDER = n
 - WIDTH=n (in pixels)
 - HEIGHT=n (in pixels)
 - ALT="Alternate Text"
- Supports BMP, JPG, GIF and PNG image formats.

Attributes Of Image Tag

Attribute	Description
ALIGN	Controls alignment of the text following the image.
BORDER	Specifies the size of the border to place around the image.
SRC	Specifies the image filename
ALT	Indicates the text to be displayed incase the browser is unable to display the image specified in the SRC attribute
HREF	
WIDTH	Specifies the width of the image in pixels
HEIGHT	Specifies the height of the image in pixels
HSPACE	Amount of space to the left and right of the image
VSPACE	Amount of space to the right of the image.


Example



An image  in the text

Image without border  text aligned bottom

Image with border  text aligned middle

Image  with text aligned top

Will be coded as

An image `` in
the text

Image without border

`<IMG SRC ="joe.gif"
ALIGN= "bottom">`
text aligned bottom

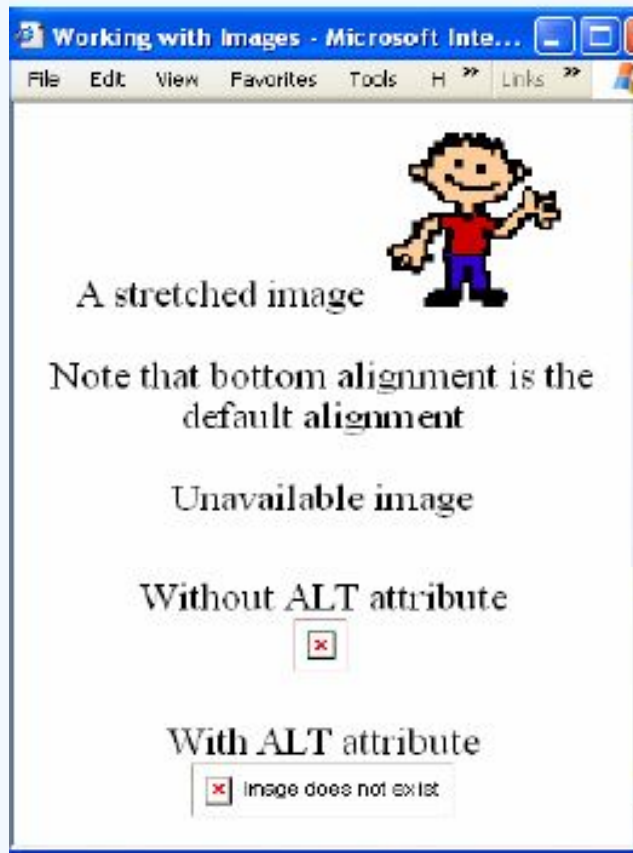
Image with border

`<IMG SRC ="joe.gif"
BORDER =3 "ALIGN="middle">`
text aligned middle

Image `<IMG SRC ="joe.gif"
ALIGN= "top">`

with text aligned top

Example



Will be coded as

A stretched image

```
<IMG SRC ="joe.gif"  
WIDTH="100" HEIGHT="100">
```

With ALT attribute

```
<IMG SRC ="picture1.gif"  
ALT="Image does not exist" >
```

Image As Link

- Images when put in the anchor tag act as hyperlinks
- `
 `

EXAMPLE

The image will be displayed with a border

If you don't like the border, add BORDER=0 to the IMG tag.

Creating and using Image Maps

- Image mapping
 - Define image *hotspots*
 - Used as hyperlink anchors
 - Element **map**
 - Contains all image map elements
 - Attribute **name**
 - Defines map identifier

Creating and using Image Maps (cont.)

- Image Mapping
 - Element **area**
 - Defines hotspot
 - Attribute **href**
 - Assigns hyperlink URL
 - Attribute **shape**
 - Specifies shape of area
 - Attribute **cords**
 - Specifies hotspot location

```
1  <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"
2      "http://www.w3.org/TR/html4/strict.dtd">
3  <html>
4
5  <!-- Fig. 3.7: picture.html      -->
6  <!-- Creating and Using Image Maps -->
7
8  <head>
9      <title>XML How to Program - Image Map</title>
10 </head>
11
12 <body>
13
14     <p>
15         <!-- <map> opens and names an image map formatting area -->
16         <!-- and to be referenced later -->
17         <map name = "picture">
18
19             <!-- The "shape = rect" indicates a rectangular area, with
20             <!-- coordinates of the upper-left and lower-right corners
21                 <area href = "form.html" shape = "rect"
22                     coords = "3, 122, 73, 143" alt = "Go to the feedback
23                 <area href = "contact.html" shape = "rect"
24                     coords = "109, 123, 199, 142" alt = "Go to the contact
25                 <area href = "main.html" shape = "rect"
26                     coords = "1, 2, 72, 17" alt = "Go to the homepage">
27                 <area href = "links.html" shape = "rect"
28                     coords = "155, 0, 199, 18" alt = "Go to the links
29
```

Define rectangles in each corner of image as links

```

30      <!-- The "shape" attribute is a required attribute for the hotspot. It is customizable
-->
31      <!-- shape, with the coordinates of every vertex listed
-->
32      <area href = "mailto:deitel@deitel.com" shape = "poly"
33           coords = "28, 22, 24, 68, 46, 114, 84, 111, 99, 56,
86. 13"
34           alt = "Email the Deitels">
35
36      <!-- The "shape = circle" indicates a circular area with
-->
37      <!-- center and radius listed
-->
38      <area href = "mailto:deitel@deitel.com" shape = "circle"
39           coords = "146, 66, 42" alt = "Email the Deitels">
40  </map>
41
42      <!-- <img src=... usemap = "#name"> says that the indicated
-->
43      <!-- image map will be used with this image
-->
44      <img src = "deitel.gif" width = "200" height = "144"
45           alt = "Harvey and Paul Deitel" usemap = "#picture">
46  </p>
47
48  </body>
49  </html>

```

Create hexagon-shaped hotspot

cusotmizable

Create circle-shaped hotspot

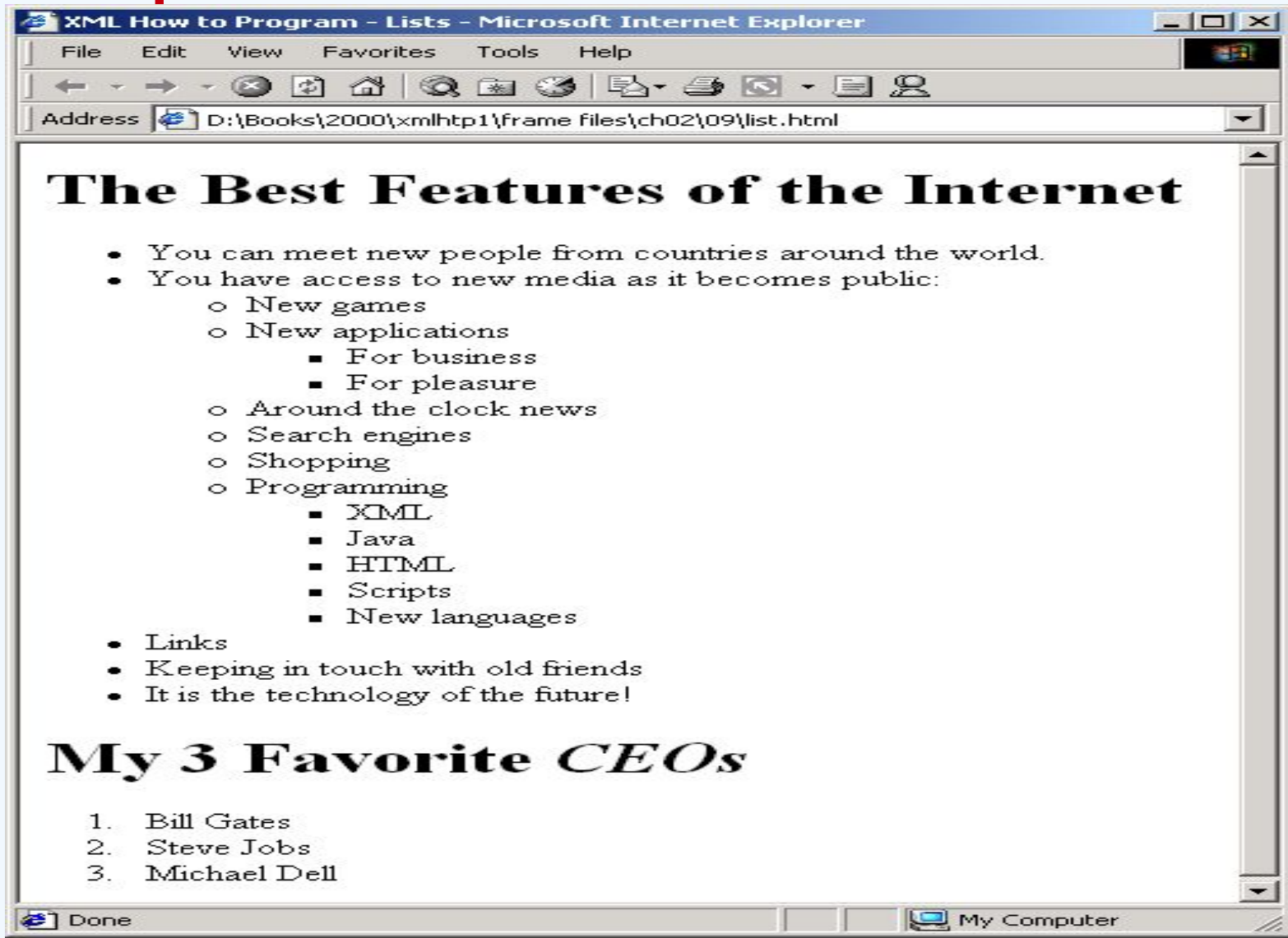
example

Assignment

1. Write a code for below output.

- Microsoft
 - Windows
 - Office
 - Microsoft Word
 - Microsoft Excel
- Adobe
 - Pagemaker
 - Nersion 7.0

Output



Assignment cont.. Q:3 Write code



example

Forms

- Set of fields that can record information

To interact with the client (*like text fields, textarea fields, dropdown, menus, radio buttons, checkboxes, etc.*)

- FORM by itself really cannot do anything
- Forms become powerful when connected to a server application
- A single HTML page can have multiple forms.

Forms

- Can be designed using `<FORM></FORM>` tag

NAME is used for future manipulation of data by scripting language

ACTION indicates a program on the server that will be executed when this form is submitted. Mostly it will be an ASP or a CGI script.

METHOD indicates the way the form is submitted to the server
-popular options are GET/POST -->

```
<FORM NAME="form1" ACTION="abc.asp" METHOD=GET>  
(form elements go here)  
</FORM>
```

Form Elements

- `<INPUT>` tag is used to add elements to the form.
 - `NAME` = “controlname”
 - `TYPE` = text / password / checkbox / radio / submit / reset / button / hidden
 - `VALUE`
 - `MAXLENGTH`
 - `SIZE`

Text/Password

- A text field can be added to the form by typing
 - **<INPUT TYPE="TEXT" NAME="txtcompany" VALUE="INFOSYS" SIZE="10" MAXLENGTH="15">**
- A password field can be added to the form by typing
 - **<INPUT TYPE=PASSWORD NAME=pwdLogin SIZE=50 MAXLENGTH=12>**
 - Input to the field will not be reveled.
- Attributes are
 - VALUE is the default value loaded
 - SIZE sets the size of the field in no. of characters.
 - MAXLENGTH specifies max # of chars

Text Area

- Multiline text input
- **<TEXTAREA NAME="feedback" ROWS=3 COLS=40> Default
text goes here
</TEXTAREA>**
- ROWS is the number of rows desired.
- COLS is the no of characters per line.
- Default text is optional
- It is not possible to set the default text using the VALUE attribute
- The default text is to be put into
<TEXTAREA> </TEXTAREA> tags

List Box

```
<SELECT NAME="Hobbies" MULTIPLE SIZE="3">
```

```
  <OPTION VALUE="TR">Travel
```

```
  <OPTION SELECTED>Reading
```

```
  <OPTION>Sleeping
```

```
  <OPTION>Walking
```

```
</SELECT>
```

- SIZE # of lines to display
- VALUE indicates what will be sent to the server
- SELECTED sets the default selected item

Check Box

```
<form>
```

```
<input type="checkbox" name="vehicle" value="Bike" /> I have a bike<br />
```

```
<input type="checkbox" name="vehicle" value="Car" /> I have a car
```

```
</form>
```


Radio Button

**<INPUT TYPE="radio" NAME="output" VALUE="screen"
SELECTED>Screen**

<INPUT TYPE="radio" NAME="output" VALUE="printer">Printer

- Radio buttons with the same NAME are grouped together.
- Only one button can be selected in a group.
- VALUE data to be sent to the server.
- SELECTED will preselect the button.

Radio Button

The second mechanism for selection is a set of radio buttons. In a set of radio

buttons only one can be selected at a time - to do this all the buttons should be given the same value for the NAME attribute.

e.g.

<INPUT TYPE=RADIO NAME=rdbAgeGroup VALUE=1>

<INPUT TYPE=RADIO NAME=rdbAgeGroup VALUE=2>.

Hidden Text Fields

<INPUT TYPE="hidden" NAME="useinformation" VALUE ="form1">

- Can be used to transmit default or previously specified data.
- Can be used to pass data from one form to another.
- Cannot be modified by the user
- So it must have a VALUE attribute set
- VALUE data to be sent to the server.

Buttons

The Submit button

- Sends the form contents to the server when clicked
- **<INPUT TYPE=submit NAME=cmdsubmit VALUE =“Submit”>**

The Reset button

- Resets all the form controls to the default state.
- **<INPUT TYPE=Reset NAME=cmdReset VALUE="Reset">.**

A button

- No predetermined action like submit or reset.
- Script should be written to make it work. (this will be covered in later chapters)
- **<INPUT TYPE=Button NAME=cmdAdd VALUE=“Click Me”>.**

Submit button

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

```
function OnSubmitForm()
{
  if(document.pressed == 'Insert')
  {
    document.myform.action ="insert.html";
  }
  else
  if(document.pressed == 'Update')
  {
    document.myform.action ="update.html";
  }
  return true;
}
</SCRIPT>
```

```
<FORM name="myform" onSubmit="return OnSubmitForm();">
```

```
<INPUT TYPE="SUBMIT" name="Operation" onClick="document.pressed=this.value"
VALUE="Insert">
```

```
<INPUT TYPE="SUBMIT" name="Operation" onClick="document.pressed=this.value"
VALUE="Update">
```

```
</FORM>
```

Form Example

Enter Your Name	<input type="text" value="Smith"/>
Enter Your Password	<input type="password" value="•••••"/>
Enter your Hobbies	<div>Travel <input type="checkbox"/></div> <div>Reading <input checked="" type="checkbox"/></div> <div>Sleeping <input type="checkbox"/></div>
Notify by email	<input checked="" type="checkbox"/>
Output Device	<input type="radio"/> Screen <input type="radio"/> Printer
<input type="button" value="Submit Query"/>	<input type="button" value="Clear"/>
Text Area	<div>Default text goes here</div>

[example](#)

[example](#)

```

<HTML>
<BODY>
<FORM ACTION="" METHOD=POST NAME=form1>
<TABLE BORDER=3 CELLPADDING=1 CELLSPACING=1 width="75%">
  <TR>  <TD>Enter Your Name</TD>
  <TD><INPUT NAME="first_name" VALUE="Smith" SIZE="10" MAXLENGTH="15" ></TD></TR>
  <TR>  <TD>Enter Your Password</TD>
    <TD><INPUT name=password1 type=password></TD></TR>
  <TR>  <TD>Enter your Hobbies</TD>
    <TD><SELECT NAME="Hobbies" Multiple SIZE="2">
      <OPTION VALUE="TR">Travel
      <OPTION SELECTED>Reading
      <OPTION>Sleeping
    </SELECT></TD></TR>
  <TR>  <TD>Notify by email</TD>
    <TD><INPUT TYPE="checkbox" NAME="email" CHECKED></TD></TR>
  <TR>  <TD>Output Device </TD>
    <TD><INPUT TYPE="radio" NAME="output" VALUE="screen"> Screen
      <INPUT TYPE="radio" NAME="output" VALUE="printer">Printer </TD>
  <TR>  <TD><INPUT TYPE="submit" value="Submit Query" id=submit1 name=submit1></TD>
    <TD><INPUT TYPE="reset" VALUE="Clear" id=reset1 name=reset1></TD></TR>
  <TR>  <TD>Text Area</TD>
    <TD><TEXTAREA name="feedback" ROWS =3 COLS= 40> Default text goes here
      </TEXTAREA></TD></TR>

</TABLE>
</FORM>
</BODY>
</HTML>

```