# **DISCUSSION OF BASIC HTML TAGS**

# What is HTML?

- Hyper Text Markup Language
- Language used to design a layout
- To specify hyperlinks
- A document may contain- text, images, etc.
- HTML is not case sensitive
- HTML programming is done through notepad or any text editor
- The file is saved as .htm or .html

# What HTML is made up of?

- TAGS
- ATTRIBUTES
- ✓ All HTMLTAGS are contained in angle brackets < > Eg. <HEAD> , <H1>, <TABLE>, <FONT>
- ✓ TAG is a coded HTML command to display a part of a webpage.
- ✓ Attribute is a special word used inside a TAG to specify additional information to TAG such as color, alignment etc
- ✓ HTML tags come in pairs

## **HTML** Document Structure

Every HTML document has the following structure:

```
<HTML>
<HEAD>
<TITLE> Title of page is written here</TITLE>
</HEAD>
<BODY>
Html TAGS which define the page
</BODY>
</HTML>
```

# **TAGS**

• <ht>HTML>....</ht>
IDENTIFIES THE AS AN HTML DOCUMENT.

• HTML DOCUMENT BEGINS WITH <HTML>
AND ENDS WITH </HTML>

• <HEAD>....</HEAD> CONTAINSTHE INFORMATION OF DOCUMENT

# **TAGS**

- <TITLE>....</TITLE>
- CONTAINSTHE DOCUMENT TITLE WHICH IS DISPLAYED IN THE BROWSERS TITLE BAR
- <BODY>....</BODY>
  CONTAINS ALL TAGS, ATTRIBUTES & INFORMATION
  TO BE DISPLAYED IN THE WEB PAGE.
- <BODY>TAG IS ENTERED BELOW THE CLOSING
- </HEAD>TAG AND ABOVE THE CLOSING OF
- <HTML>TAG

# HTML writing tools

- Need a text editor
- Notepad, frontpage, etc.

# Viewing HTML

HTML document can be viewed in a browser like IE, Firefox, Opera, Safari etc.

## **Container Elements**

- These require starting and ending tags.
- These are paired tags.

# **Empty Elements**

• These require starting tag.

# **HEADINGS**

Six levels of headings are available.

```
<H1 ...> text </H1> -- largest of the six
<H2 ...> text </H2>
<H3 ...> text </H3>
<H4 ...> text </H4>
<H5 ...> text </H5>
<H6 ...> text </H6> -- smallest of the six
```

# **PARAGRAPH**

- <P> defines a paragraph
- Add ALIGN="position" (left, center, right)
- But </P> is optional
- PARAGRAPH ALIGNMENTS

LINE BREAKS

$$\leq$$
BR $>$ 

CENTRETAG

# **Text Formatting Tags**

```
<FONT COLOR="red" SIZE="2" FACE="Times Roman">
This is the text of line one </FONT>
<FONT COLOR="green" SIZE="4" FACE="Arial">
Line two contains this text </FONT>
<FONT COLOR="blue" SIZE="6" FACE="Courier"</pre>
The third line has this additional text </FONT>
<BLOCKQUOTE> Defines a long quotation </BLOCKQUOTE>
To display a horizontal line:
<HR SIZE=4 WIDTH="50%">
```

<HR SIZE=4 NOSHADE>

# <PRE> Preformatted Text

- <PRE> Defines preformatted text
- It preserves both spaces and line breaks

```
<PRE>
if (a < b) {
    a++;
    b = c * d;
}
else {
    a--;
    b = (b-1)/2;
}
</PRE>
```

## **Ordered Lists:**

- List of items are marked with numbers
- An ordered lists start with the <OL> tag
- Each list item start with the <LI> tag

### **Ordered Lists:**

```
<OLTYPE="1">
 <LI> Item one </LI>
 \leq LI \geq Item\ two \leq /LI \geq
 <OLTYPE="I">
   <LI> Sublist item one </LI>
   <LI> Sublist item two </LI>
   <OLTYPE="i">
    <LI> Sub-sublist item one </LI>
    <LI> Sub-sublist item two </LI>
   </OL>
 </OL>
</OL>
```

## **UnOrdered Lists:**

- List of items are marked with bullets
- An ordered lists start with the <UL> tag
- Each list item start with the <LI> tag
- Type Attribute can have the value:

```
TYPE= CIRCLE
```

### **Unordered Lists:**

```
<ULTYPE="disc">
 <LI> One </LI>
 <LI>Two</LI>
 ULTYPE="circle">
  <LI>Three </LI>
  <LI> Four </LI>
  <ULTYPE="square">
    <LI> Five </LI>
    <LI> Six </LI>
  </UL>
 </UL>
</UL>
```

## **Definition Lists:**

- List of terms and Explanation of terms
- Definition lists start with the <DL> tag
- Definition list term starts with <DT> tag
- Each definition list definition starts with <DD> tag

### **Definition Lists:**

```
<DL>
<DT> Coffee </DT>
<DD> Black Hot Drink </DD>
<DT> Milk </DT>
<DD> White Cold Drink </DD>
</DL>
```

# Formatting tags

```
<B>Bold</B><BR>
<I>Italic</I><BR>

<U>Underlined</U><BR>

Subscripts: f<SUB>0</SUB> + f<SUB>1</SUB><BR>

Superscripts: x<SUP>2</SUP> + y<SUP>2</SUP><BR>

<STRIKE>Strike Through</STRIKE><BR>
<B><I>Bold Italic</I></B><BR>

<FONT COLOR="GRAY">Gray</FONT><BR>

Gray

Gray

Color Color
```

Bold Italic

 $\frac{\text{Underlined}}{\text{Subscripts: } f_0 + f_1}$   $\text{Superscripts: } x^2 + y^2$ 

Strike Through Bold Italic

Gray

# **Images**

- To display image in a document use <IMG> tag
- To display image we need SRC attribute (source)
- Value of SRC attribute is the URL of the image
- ALT attribute define an "alternate text" for an image(if the browser can't load images)
- WIDTH, HEIGHT may be in units of pixels or percentage of page or frame
  - WIDTH="357"
  - HEIGHT="50%"

## Example:

```
<img src="dolphin.jpg" align="left" width="150" height="150"
alt="dolphin dead!">
```

# <A> Anchors (HyperLinks)

#### • Link to an absolute URL:

If you get spam, contact <A HREF="htttp://www.microsoft.com"> Microsoft </A> to report the problem.

#### • Link to a relative URL:

See these <A HREF="#references"> references </A> concerning our fine products.

#### • Link to a section within a URL:

Amazon provided a <A HREF="www.amazon.com/#reference"> reference for our company. </A>

### Naming a Section

<H2> <A NAME="#references"> Our References </A> </H2>

URL (Uniform Resource Locator) is used to address a document on World Wide Web.

# **HYPERLINKS**

```
<BODY>
<H3>Welcome to <A HREF="http://www.manipal.edu">
<STRONG>Manipal Institute of Technology</STRONG></A>
</H3>
</BODY>
```

## Welcome to Manipal Institute of Technology

# **Tables**

- <TABLE> table tag
- <CAPTION> optional table title
- <TR> table row
- <TH> table column header
- <TD> table data element

## **Tables**

```
<TABLE BORDER=1>
<CAPTION>Table Caption</CAPTION>
<TR><TH>Heading1</TH>
<TH>Heading2</TH></TR>
<TR><TD>Row1 Col1 Data</TD><TD>Row1 Col2
Data < /TD > < /TR >
<TR><TD>Row2 Col1 Data</TD><TD>Row2 Col2
Data</TD></TR>
<TR><TD>Row3 Col1 Data</TD><TD>Row3 Col2
Data < /TD > < /TR >
</TABLE>
```

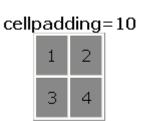
# <TABLE> Element Attributes

- ALIGN=position -- left, center, right for table
- BORDER=*number* -- width in pixels of border (including any cell spacing, default 0)
- CELLSPACING=*number* -- spacing in pixels between cells, default about 3
- CELLPADDING=*number* -- space in pixels between cell border and table element, default about 1
- WIDTH=number[%]-- width in pixels or percentage of page/frame width
- BGCOLOR=color -- background color of table, also valid
- for <TR>, <TH>, and <TD>

# **TABLES**

• cellspacing=10

• cellpadding=10



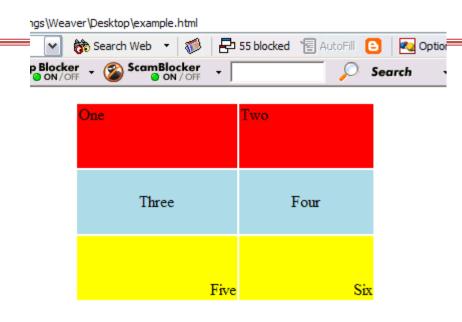
## <TR> Table Row Attributes

Valid for the table row:

ALIGN -- left, center, right

VALIGN -- top, middle, bottom

BGCOLOR -- background color



```
<TABLE ALIGN="center" WIDTH="300" HEIGHT="200">

<TR ALIGN="left" VALIGN="top" BGCOLOR="red"><TD>One</TD>Two</TD>

<TR ALIGN="center" VALIGN="middle"

BGCOLOR="lightblue"><TD>Three</TD>>Four</TD>

<TR ALIGN="right" VALIGN="bottom" BGCOLOR="yellow"><TD>Five</TD>>Six</TD>

</TABLE>
```

# <TD> Table Cell Attributes

```
Valid for the table cell:
colspan -- how many columns this cell occupies
rowspan – how many rows this cell occupies
<TABLE ALIGN="center" WIDTH="300" HEIGHT="200" border="1">
<TR>
<TD colspan="1" rowspan="2">a</TD>
<TD colspan="1" rowspan="1">b</TD>
</TR>
<TR>
<TD colspan="1" rowspan="1">c</TD>
</TR>
</TABLE>
```

# **Frames**

- Frames help control navigation and display
- <FRAME> attributes include FRAMEBORDER – yes or 1 for borders FRAMESPACING – width of border BORDERCOLOR – color SRC – location of HTML to display in frame NAME – destination for TARGET attribute MARGINWIDTH — left/right margins MARGINHEIGHT – top/bottom margins SCROLLING – yes or 1 adds scroll bar NORESIZE – yes or 1 disables resizing

# **Frames**

```
<FRAMESET ROWS="75%,25%">
<FRAMESET COLS="*,*,*">
 <FRAME SRC="http://www.google.co.in">
 <FRAME SRC="http://www.google.co.in">
 <FRAME SRC="http://www.google.co.in">
</FRAMESET>
<FRAMESET COLS="*,*">
 <FRAME SRC="http://www.google.co.in">
 <FRAME SRC="http://www.google.co.in">
</FRAMESET>
</FRAMESET>
```

- Used to select different kind of user input.
- Forms is an area that contain form elements
- Form elements are elements that allow to enter information in a form
- Defined by < FORM> tag
- Action attribute defines the name of the file to which the contents are sent

• INPUT Tag:

Type of input is specified with TYPE attribute.

• Text Fields:

Used when we want to type numbers or text.

<input type="text" name="first name">

### • Radio Buttons:

Used when we want user to select one of a limited number of choices.

### • Check Boxes:

Used when we want user to select one or more options of a limited number of choices.

### • Submit Button:

When user clicks on submit button, the content of the form is send to the server.

```
<HTML>
<HEAD>
</HEAD>
<BODY>
<FORM>
First name: <input type="text" name="firstname" /><br>
Last name: <input type="text" name="lastname" /><br>
Password: <input type="password" name="pwd" /><br>
<input type="radio" name="gender" value="male" /> Male<br/>br>
<input type="radio" name="gender" value="female" /> Female<br>
<input type="checkbox" name="vehicle" value="Car" /> I have <br/>br>a car <br/>br>
Username: <input type="text" name="user" />
<input type="submit" value="Submit" /></FORM>
</BODY>
</HTML>
```

• <TEXTAREA rows="10" cols="30"> Deifnes a text area </TEXTAREA>

• <SELECT> Defines a selectable list of items.

```
<SELECT name="cars">
<OPTION value="alto"> ALTO </option>
<OPTION value="santro"> SANTRO </option>
...
</SELECT>
```

# **END OF LECTURE**