

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 HTML TAGS are contained in angle brackets < >
Eg. <head> , <h1> , <table> ,
 - ✓ 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

- `<html>....</html>` IDENTIFIES THE AS AN HTML DOCUMENT.
- HTML DOCUMENT BEGINS WITH `<html>` AND ENDS WITH `</html>`
- `<head>....</head>` CONTAINS THE INFORMATION OF DOCUMENT

TAGS

- `<title>....</title>`
- CONTAINS THE DOCUMENT TITLE WHICH IS DISPLAYED IN THE BROWSE 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.

Eg: `<html>...</html>` , `<head>...</head>` ,
`<title>...</title>`

Empty Elements

- These require starting tag.

Eg: `
` , `<hr>` , `` , `<link>`

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
`< p align="left" > </p>`
- LINE BREAKS
`
`
- CENTRE TAG
`<center>...</center>`

Text Formatting Tags

``

This is the text of line one ``

``

Line two contains this text ``

`<font color="blue" size="6" face="Courier"`

The third line has this additional text ``

`<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>
```

LISTS

Ordered Lists:

- List of items are marked with numbers
- An ordered lists start with the `` tag
- Each list item start with the `` tag

LISTS

Ordered Lists:

```
<ol type="1">  
  <li> Item one </li>  
  <li> Item two </li>  
  <ol type="I" >  
    <li> Sublist item one </li>  
    <li> Sublist item two </li>  
    <ol type="i">  
      <li> Sub-sublist item one </li>  
      <li> Sub-sublist item two </li>  
    </ol>  
  </ol>  
</ol>
```

LISTS

UnOrdered Lists:

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

`type="circle"`

`type="square"`

`type="disc"`

LISTS

Unordered Lists:

```
<ul type="disc">  
  <li> One </li>  
  <li> Two </li>  
  <ul type="circle">  
    <li> Three </li>  
    <li> Four </li>  
    <ul type="square">  
      <li> Five </li>  
      <li> Six </li>  
    </ul>  
  </ul>  
</ul>  
</ul>
```


LISTS

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

LISTS

Definition Lists:

<dl>

<dt> coffee </dt>

<dd> black hot drink </dd>

<dt> milk </dt>

<dd> white cold drink </dd>

</dl>

Formatting tags

`bold
`

Bold

`<i>italic</i>
`

Italic

`<u>underlined</u>
`

Underlined

subscripts: `f₀ + f₁
`

Subscripts: $f_0 + f_1$

superscripts: `x² + y²
`

Superscripts: $x^2 + y^2$

`<strike>strike through</strike>
`

~~Strike Through~~

`<i>bold italic</i>
`

Bold Italic

`gray
`

Gray

Images

- To display image in a document use 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:

```

```

<A> Anchors (HyperLinks)

- **Link to an absolute URL:**

If you get spam, contact microsoft to report the problem.

- **Link to a relative URL:**

See these references concerning our fine products.

- **Link to a section within a URL:**

Amazon provided a reference for our company.

- **Naming a Section**

<h2> our references </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`

`cellspacing=10`

1	2
3	4

- `cellpadding=10`

`cellpadding=10`

1	2
3	4

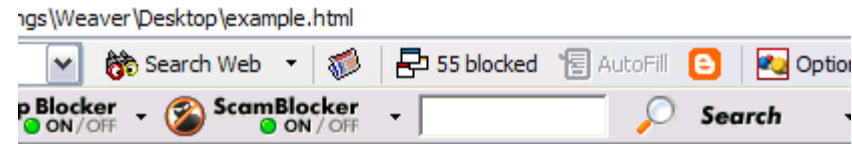
<TR> Table Row Attributes

Valid for the table row:

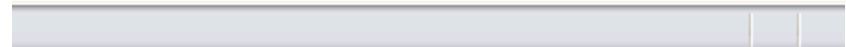
align -- left, center, right

valign -- top, middle, bottom

bgcolor -- background color



One	Two
Three	Four
Five	Six



```
<table align="center" width="300" height="200">
```

```
<tr align="left" valign="top" bgcolor="red"><td>one</td><td>two</td>
```

```
<tr align="center" valign="middle" bgcolor="lightblue"><td>three</td><td>four</td>
```

```
<tr align="right" valign="bottom" bgcolor="yellow"><td>five</td><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 al="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>
```

FORMS

- 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

FORMS

- 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">
```

FORMS

- 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.

FORMS

```
<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>
<input type="radio" name="gender" value="female" /> Female<br>
<input type="checkbox" name="vehicle" value="Car" /> I have <br>a car <br>
Username: <input type="text" name="user" />
<input type="submit" value="Submit" /></form>
</body>
</html>
```


FORMS

- `<textarea rows="10" cols="30">` Defines 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