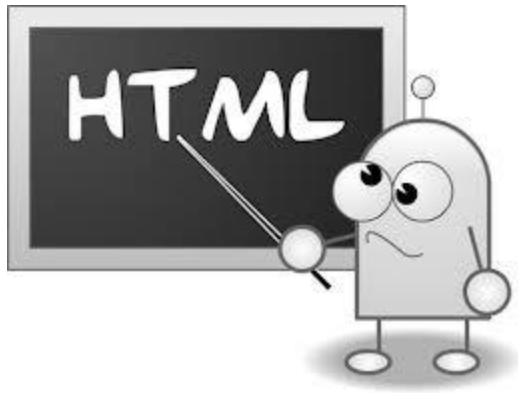


Writing Web Pages

Lecture 3

HTML Basics II



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Topics

- Colors
- Links
- Images
- Tables
- Frames

HTML Colors

- Colors are defined using a hexadecimal notation for the combination of **Red**, **Green**, and **Blue** color values (RGB).

RGB (Red, Green, Blue)

- With HTML, RGB color values can be specified using this formula: **rgb(red, green, blue)**
- Each parameter (red, green, and blue) defines the intensity of the color between 0 and 255.
- For example, **rgb(255,0,0)** is displayed as red, because red is set to its highest value (255) and the others are set to 0.

RGB (Red, Green, Blue)

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

RGB Colors : http://www.w3schools.com/html/html_colors.asp










Hexadecimal Colors

- RGB values can also be specified using hexadecimal color values in the form: #RRGGBB, where RR (red), GG (green) and BB (blue) are hexadecimal values between **00** and **FF** (same as decimal 0-255).
- For example, #FF0000 is displayed as red, because red is set to its highest value (FF) and the others are set to the lowest value (00).

#XXXXXXXX
 └─┬─┘ └─┬─┘ └─┬─┘
 RR GG BB

Intensity of Red, Green & Blue

Hexadecimal Colors

Color	Color HEX	Color RGB
	#000000	rgb(0,0,0)
	#FF0000	rgb(255,0,0)
	#00FF00	rgb(0,255,0)
	#0000FF	rgb(0,0,255)
	#FFFF00	rgb(255,255,0)
	#00FFFF	rgb(0,255,255)
	#FF00FF	rgb(255,0,255)
	#C0C0C0	rgb(192,192,192)
	#FFFFFF	rgb(255,255,255)

Hexadecimal Colors : http://www.w3schools.com/html/html_colors.asp

Adding colors to document

- Color attribute is used to add colors to background, heading, text or hyperlink.

Change background color of the web page

Syntax

<body bgcolor="color_name|hex_number|rgb_number">

Example

<body bgcolor="#E6E6FA">

[view bodycolor.html](#)

Adding colors to document

Change background color of the heading

Syntax

```
<h2 style="background-color:rgb(255,0,0)">heading</h2>
```

Change font color of the heading

```
<font color="red"> <h1> Heading 1<h1> </font>
```

[view headingcolor.html](#)

Find color codes from : <http://html-color-codes.info/>

HTML Links

- HTML links are hyperlinks.
- A hyperlink is a text or an image you can click on, and jump to another document.
- One main power of HTML is the ability to link text/multimedia sources.

HTML Links

- Link has to be started with **<a>** ,which stands for anchor.
- Then links are achieved through the Hyper reference tag (**href**).
- The **href** attribute specifies the destination address
(<http://www.w3schools.com/html/>)
- The link text is the visible part (Ex.Visit our HTML tutorial).
- Clicking on the link text, will send you to the specified address.
- Anchor has to be closed at the end.****

Syntax :

Prompt Text

HTML Links

- Links can be expressed in relative or absolute terms,

Relative reference

- A local link (link to the same web site) is specified with a relative URL (without <http://www....>).
- Ex :
 - index.html
 - /graphics/image.png
 - /help/articles/how-do-i-set-up-a-webpage.html

Absolute reference

- Specify the full web address.
 - Ex: `http://www.mysite.com`
`http://www.mysite.com/graphics/image.png`
`http://www.mysite.com/help/set-up-a-webpage.html`

[view links.html](#)

HTML Links-Colors

- When you move the mouse over a link,
 - The mouse arrow will turn into a little hand
 - The color of the link element will change
- By default, a link will appear like this (in all browsers):
 - An [unvisited link](#) is underlined and blue
 - A [visited link](#) is underlined and purple
 - An [active link](#) is underlined and red

[view linkcolors.html](#)

HTML Links Attributes

mailto attribute

- Using mailto attribute we can link to an email address with a specified subject (will only work if you have installed mail client):

Syntax :

`Send mail!`

Adding several email addresses ,

`Send mail!`

Target attribute

- The target attribute specifies where to open the linked document.

Syntax :

```
<a href="http://www.w3schools.com" target="_blank">Visit  
W3Schools</a>
```

Value	Description
_blank	Opens the linked document in a new window or tab
_self	Opens the linked document in the same frame as it was clicked (this is default)
_parent	Opens the linked document in the parent frame
_top	Opens the linked document in the full body of the window
<i>framename</i>	Opens the linked document in a named frame

name attribute

- The **name** attribute specifies the name of an anchor
- Use to jump directly into a specific section on a different page or the same page.

Syntax :

Name the required section

```
<a name="C4">Chapter 4</a>
```

Link to the section using name

```
<a href="#C4"> Go to Chapter 4</a>
```

[view linkname.html](#)

Images

- Using **** tag we can add images to the web page.
- Images can be added as **background image** or **foreground image**.
- There is **no closing tag** for **** tag.

Image formats

- Need to specify the correct image format.

GIF - Graphics Interchange Format

JPEG - Joint Photographic Experts Group

bmp

png

tiff

Image attributes

- Attributes of tag,
 - **src** - src attribute to define the URL of the image
 - **width**
 - **height**

} **width** and **height** attributes to define the size of the image

- **align** (left , center or right) – align the image
- **vspace** – keep space in vertically
- **hspace** – horizontal space
- **alt** - define an alternate text for an image, if it cannot be displayed

Image syntax

Image as a background

```
<body background="image_filename.ext">
```

[view bgimage.html](#)

Image as a foreground

```

```

[view fgimage.html](#)

Image as a link

Image can be added as a link

```
<a href="url" >  </a>
```

[view linkimage.html](#)

HTML tables

- It permits display data in tabular form
- It allows to accurate placing of text & images in a web page.

Principle tags in Tables

Tag	Description
<code><table>, </table></code>	Tables are defined with the <code><table></code> tag
<code><tr> ,</tr></code>	tables are divided into table rows with the <code><tr></code> tag
<code><th>,</th></code>	table row can also be divided into table headings with the <code><th></code> tag.
<code><td>, </td></code>	table rows are divided into table data with the <code><td></code> tag

HTML tables

Attributes of each tag

Table Element	Attributes
<table>	Border, Width, bgcolor, cellpadding, cellspacing, Background, align
<tr>	Align=(left, center or right), Width, Valign=(top, middle or bottom)
<td>	Align=(left, center or right), Width, Valign=(top, middle or bottom), colspan, rowspan
<th>	Align=left (center or right) Width, Valign=top, middle or bottom, colspan, rowspan

Note : Attributes defined within <th>,<td> cells override the default alignment set in a <tr>

Cellpadding

- The cellpadding attribute specifies the space, in pixels, between the cell wall and the cell content

Syntax

<table cellpadding="pixels">

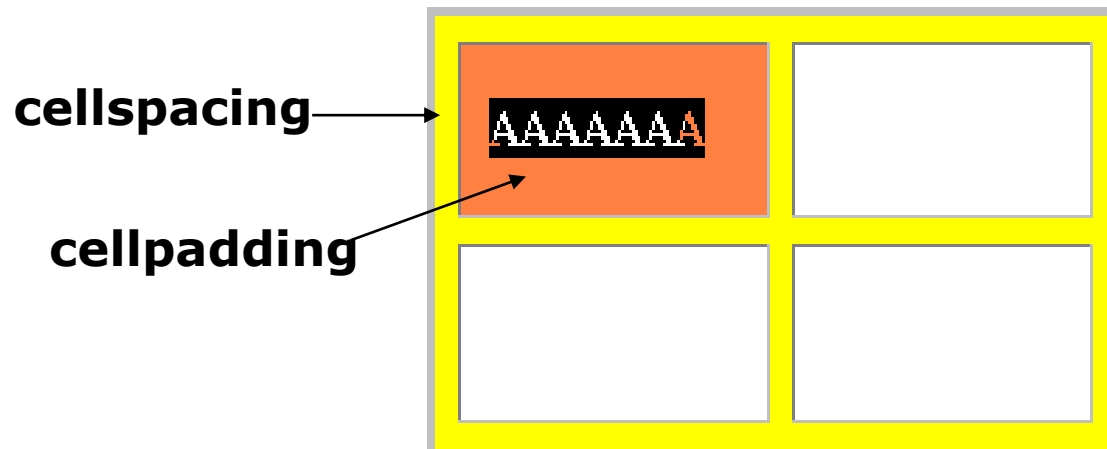
Cellspacing

- The cellspacing attribute specifies the space, in pixels, between cells.

Syntax

<table cellspacing="*pixels*">

Cellpadding & Cellspacing



<view table1.html>

Colspan

- To make a cell span more than one column, use the **colspan** attribute.

Syntax

<td colspan="no. of columns"> or <th colspan="no. of columns">

Rowspan

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

Syntax

<td rowspan="no. of rows"> or <th rowspan="no. of rows">

[view table2.html](#)

Caption

- To add a caption to a table, use the **<caption>** tag

[view table3.html](#)

Frames

- Frames are used to present different pages to the user simultaneously.
- (display more than one html page in same browser window)
- The most common use of frame is to separate navigation aids(menus) and page content.
- Each frame is named and has its own context

<frameset>

- The <**frameset**> tag defines a frameset.
- The <frameset> element holds one or more <frame> elements.
Each <frame> element can hold a separate document.
- The <frameset> element specifies HOW MANY columns or rows there will be in the frameset, and HOW MUCH percentage/pixels of space will occupy each of them.

<frameset> Attributes

- **Framespacing**
 - Adds space(pixels) between frames.
- **Frameborder**
 - 0-no border, 1 -border
- **Rows**
 - Absolute or relative width of frames in the frame set. * means 'remaining available space'
- **Cols**
 - Defines how many cols in the frameset

<frame>

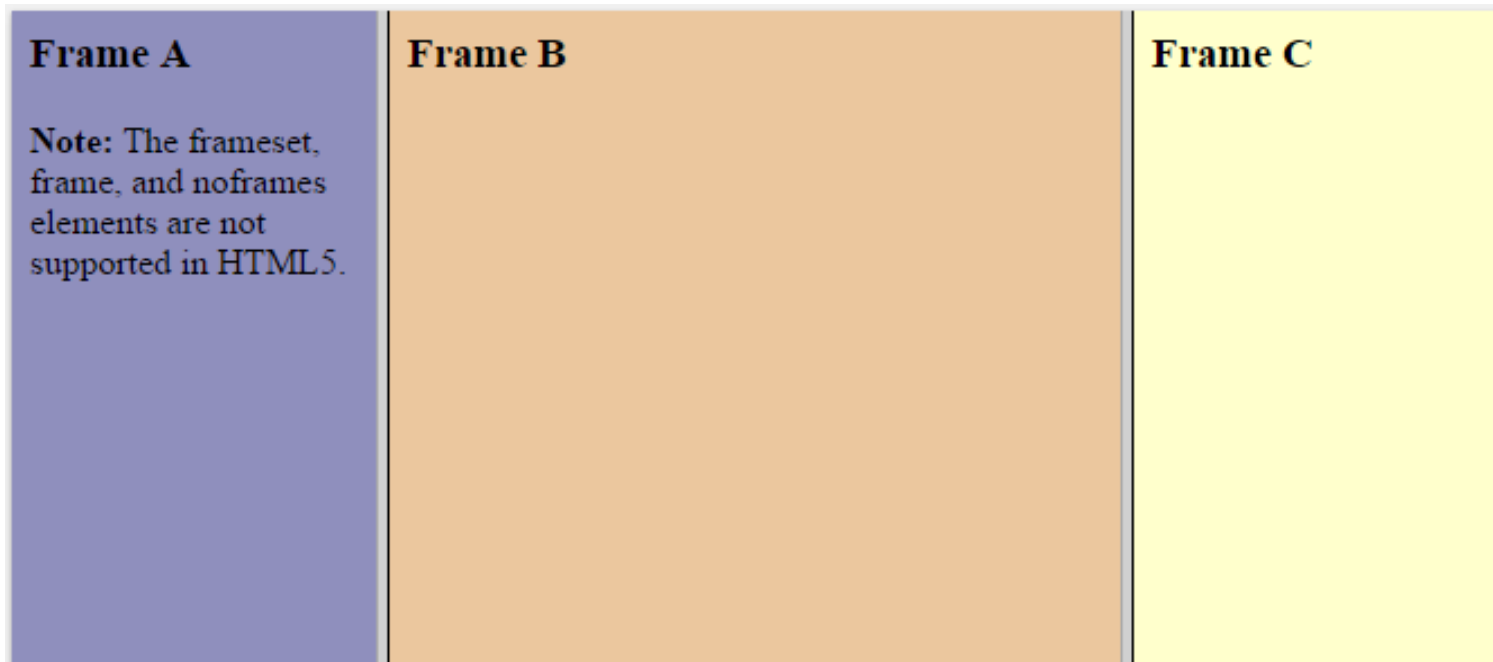
- The <frame> tag defines one pane within the browser window.

<frame> Attributes

- **NORESIZE**
 - Frame size may not be changed.
- **SCROLLING** (“YES”, “NO” and “Auto”)
 - If “Yes”, insert scrollbars, if “No” eliminates else automatically set scrollbars if needed.
- **SRC**
 - The URL of the source file for the frame.
- **NAME**
 - Specifies a name for a current frame.

Frames

Example:



[view Horizontalframes.html](#)

[view Verticalframes.html](#)

Frames

- Frames can be used as navigation panels.

Link frames

- **Target** attribute of link element can be used to link each frames.

Example :

```
< a href="a.html" target="framename">
```

[view navigationframes.html](#)

<noframes> Tag

- The **<noframes>** tag is a fallback tag for browsers that do not support frames.
- It can contain all the HTML elements that you can find inside the **<body>** element of a normal HTML page.
- The **<noframes>** element can be used to link to a non-frameset version of the web site or to display a message to users that frames are required.
- The **<noframes>** element goes inside the **<frameset>** element.

Example

<noframes>Sorry, browser does not handle frames!</noframes>

[view noframes.html](#)