

# Web Design

## Scope and Sequence

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### Introduction to our Web Design course:

#### Unit 1A

##### [resume.html](#)

Using a text editor, students will design and build a one-page resume based on an occupation they want to pursue. Example resume projects will be provided. The page should meet the following standards:

- Choose and implement a color theme for the project
- At least one personal image will be used.  
A digital camera and scanner are available in class
- A quote that reflects your worldview will be included
- At least one list is required
- A separate image folder is required
- A mailto link is required
- All files and folders will be named as required
- Font properties are used to provide some variation

Correctly use tags and properties from the following tag groups covered in class:

**\*Note\* None of the html tags in your project should be capitalized**

#### Unit 1B

[Poster.html](#) Using a text editor, students will design and build a one-page web-poster based on an interest they want to explore. Example web-poster projects will be provided. The page should meet the following standards:

- Choose and implement a color theme for the project
- Use bgcolor, text, link, and vlink in <body>
- At least one appropriate image will be used with caption
- Use height, width, and alt properties in <img>
- A link to your resources
- At least one in-line link in your text
- Credit yourself with a mailto link
- Use heading tags for title and sub-title

- A caption under the image
- Original authorship of at least three paragraphs
- A separate image folder is required
- Use "rules" divide page sections
- Use blockquote to pull text off page edges
- All files and folders will be named as required
- Three font properties are used to provide some variation
- Take control of link colors
- Provide a list of items
- Organize your source code for easy reading
- Your name should appear on the poster (mailto link)

Correctly use tags and properties from the following tag groups covered in class:

**\*Note\* None of the html tags in your project should be capitalized**

### ***Basic Tag Group***

#### **HTML**

**<html></html>**

Creates an HTML document.

#### **HEAD**

**<head></head>**

Sets off the title and other information that isn't displayed on the Web page itself.

#### **TITLE**

**<title></title>**

Puts the name of the document in the title bar.

#### **BODY**

**<body></body>**

Sets off the visible portion of the document.

#### **BODY ATTRIBUTES**

**<body bgcolor="color name">**

Sets the background #color, using name or hex value

**<body background= "url">**

Sets an image as the page background.

**<body text="color name">**

Sets the text #color, using name or hex value

### **<body link="color name">**

Sets the #color of links, using name or hex value

### **<body vlink="color name">**

Sets the #color of followed links, using name or hex value

### **<body alink="color name">**

Sets the #color of links on click

## ***Images***

**\*Note\* the image tag does not have a close tag!!! (</img> does not exist)**

### ****

Places an image in your Web page based on the "url". It should come before the height and width properties.

### **<img height="number" width="number">**

Designates the height and width of your image in pixels.

### **<img alt="name">**

Names your image for screen readers

## ***Page Formatting tag Group***

### **<center></center>**

Center-justifies text or another object.

## ***Paragraph***

### **<p></p>**

To begin a new Paragraph put the tag **<p>** at the start of the text and the tag **</p>** at the end of the paragraph. This inserts a blank line before starting the text on a new line. The closing tag isn't usually necessary.

### **<p align="center"></p>**

An alternative tag to the center tag. This also centers a block of text.

### **<p align="right"></p>**

Right justifies a block of text.

### **<p align="left"></p>**

Left justifies a block of text.

## ***Line Break***

## **<br>**

This acts like the keyboard "return" key. i.e. they put the text on a new line, with no blank line inserted (as with paragraph, above).

## **Block Quotes**

### **<blockquote></blockquote>**

This tag will separate a block of text, such as a quote, and often indents the text placed inside it, in the case of graphical browsers, but it indents it at **BOTH** sides, left and right, at once.

## **Horizontal Rules**

**\*Note\* <hr> tags are not closed!!! (</hr> does not exist)**

### **<hr>**

Creates a horizontal line through the Web page. Used to separate different sections within the Web page.

### **<hr size="n">**

Sets the height of the horizontal rule.

### **<hr width="n">**

Sets the width of the horizontal rule.

### **<hr align="left">**

Puts the horizontal rule to the left of the Web page.

### **<hr align="center">**

Puts the horizontal rule in the center of the Web page.

### **<hr align="right">**

Puts the horizontal rule to the right of the Web page.

### **<hr noshade>**

Makes the horizontal rule dark.

## **Preformatted**

### **<pre></pre>**

Your text will be rendered exactly where you want it to appear.

## **Comments**

### **<!-- -->**

Allows you to put comments into your HTML file; whatever appears in the source file between the "<!--" and the "-->" will still be downloaded to the browser and will still be visible in a View Source window, but it will not be displayed in the normal HTML fashion.

## ***List Tag Group***

### **DEFINITION LIST**

**<dl></dl>**

Creates a definition list

**<dt>**

Precedes each definition term

**<dd>**

Precedes each definition

### **ORDERED LISTS**

**<ol></ol>**

Creates a numbered list

**<li></li>**

Precedes each list item, and adds a number

### **UNORDEDER LISTS**

**<ul></ul>**

Creates a bulleted list

**<li></li>**

Precedes each list item, and adds a bullet

## ***Font Tag Group***

**<font ></font>**

Basic start to the type of font you want the text to be. The font tag alone doesn't do anything to our Web page.

### ***Font Attributes***

**<font size="n"></font>**

Sets size of font, from 1 to 7

**<font color="color name"></font>**

Sets font #color, using name or hex value

**<font face="face"></font>**

Sets font face, using name of font. (Case sensitive!)

## ***Text Formatting Group***

**<h1></h1>**

Creates the largest headline

**<h6></h6>**

Creates the smallest headline

**<b></b>**

Creates bold text

**<i></i>**

Creates italic text

**<em></em>**

Emphasizes a word (with italic or bold)

**<strong></strong>**

Emphasizes a word (with italic or bold)

**<big></big>**

Causes text to be displayed in a bigger size.

## ***Links***

**<a href="url">linked object goes here</a>**

Creates a hyperlink. Put the object (text or an image) that you want to become "clickable" between the opening and closing tags.

## **Unit 1B**

### **[Demo Table.html](#)**

Using a text editor, students will design and build a table to hold a collection of images. The collection is divided into two groups.

This project will meet the following standards:

#### **Project submitting, naming, and organization**

Folder: demo\_table\_last name

All images in a folder

All images named for the web

#### **Strength of composition**

A "color theme" is used throughout.  
Font tag is used to vary text for interest  
Table uses cellpadding and cellspacing  
Cell size properties are used  
Table size properties are used

### **Table layout**

bgcolor is used to support color theme.  
Table is sized to fit page  
Follow cell pattern below:


### **Clean coding**

"Space out" code for easy reading  
No duplicate tags  
All tags are closed  
Use "" after all =  
All #colors are in "hex" (example: "#123456")

### **Table Tags (the following tags should be used in your table)**

#### **<table></table>**

Creates a table in your Web page.

#### **<table cellpadding="n in pixels">**

"Pads" an object from the cell walls.

#### **<table cellspacing="n in pixels">**

Creates space between cells.

#### **<table bgcolor="#123456">**

Sets the table background #color.

#### **<table border="n in pixels">**

Sets the table border thickness.

#### **<table width="n in pixels">**

Set the table width in number of pixels.

#### **<table height="n in pixels">**

Set the table height in number of pixels.

**<table width=""%>**

Set the table width in to "N%" of window.

**<table height=""%>**

Set the table height to "N%" of window.

### **Row Tags**

**<tr></tr>**

(tr stands for table row) Creates a table row.

**<tr bgcolor=""#123456">**

Sets the background #color for a table row.

**<tr valign=""top">**

Aligns all objects in a row to the top of the cell.

**<tr valign=""middle">**

Aligns all objects in a row to the middle of the cell.

**<tr valign=""bottom">**

Aligns all objects in a row to the bottom of the cell.

**<tr align=""left">**

Aligns all objects in a row to the left of the cell.

**<tr align=""center">**

Aligns all objects in a row to the center of the cell.

**<tr align=""right">**

Aligns all objects in a row to the right of the cell.

### **Heading Cell Tags**

**<th></th>**

(th stands for table header) Creates a cell with bold and centered text.

**<th bgcolor=""#123456">**

Sets a background #color for a cell.

**<th colspan=""columns">**

Sets a cell to span "N" columns.

**<th rowspan=""rows">**

Sets a cell to span "N" rows.

**<th align="left">**

Aligns all objects in a cell to the left of the cell.

**<th align="center">**

Aligns all objects in a cell to the center of the cell.

**<th align="right">**

Aligns all objects in a cell to the right of the cell.

**<th valign="top">**

Aligns all objects in a cell to the top of the cell.

**<th valign="middle">**

Aligns all objects in a cell to the middle of the cell.

**<th valign="bottom">**

Aligns all objects in a cell to the bottom of the cell.

**<th width="n in pixels">**

Sets the width of a cell to "N" number of pixels.

**<th width="%">**

Sets the width of a cell to "N%".

**<th height="n in pixels">**

Sets the height of a cell to "N" number of pixels.

**<th height="%">**

Sets the height of a cell to "N%".

## **Data Cell Tag**

**<td></td>**

(td stands for table data) Creates a table cell.

**<td bgcolor="#123456">**

Sets a background #color for a cell.

**<td colspan="columns">**

Sets a cell to span "N" columns.

**<td rowspan="rows">**

Sets a cell to span "N" rows.

**<td align="left">**

Aligns all objects in a cell to the left of the cell.

**<td align="center">**

Aligns all objects in a cell to the center of the cell.

**<td align="right">**

Aligns all objects in a cell to the right of the cell.

**<td valign="top">**

Aligns all objects in a cell to the top of the cell.

**<td valign="middle">**

Aligns all objects in a cell to the middle of the cell.

**<td valign="bottom">**

Aligns all objects in a cell to the bottom of the cell.

**<td width="n in pixels">**

Sets the width of a cell to "N" number of pixels.

**<td width="%">**

Sets the width of a cell to "N%".

**<td height="n in pixels">**

Sets the height of a cell to "N" number of pixels.

**<td height="%">**

Sets the height of a cell to "N%".

### ***Body Attributes***

**<body bgcolor="#123456">**

Sets the background #color, using hex value.

**<body background="url">**

Sets an image as the page background.

**<body text="#123456">**

Sets the text #color, using hex value

### ***Font Attributes***

**<font size=number></font>**

Sets size of font, from 1 to 7.

**<font #color="#123456"></font>**

Sets font #color, using name or hex value.

**<font face="face"></font>**

Sets font face, using name of font. (Case sensitive!)

**More Body Attributes**

**More Body Attributes**

**More Body Attributes**

**More Body Attributes**

**More Body Attributes**

**More Body Attributes**

**More Body Attributes**

**More Body Attributes**

**More Body Attributes**

**More Body Attributes**

## **Unit 2B**

### **Table.html**

Using a text editor, students will design and build a table, which is linked to an info page. This project will meet the following standards:

All tags used in previous projects and:

Links to internal pages

Anchors

#### ***Table.html***

#### ***Phase I (spacer.html)***

Project Standards:

#### **Project submitting, naming, and organization**

Folder: table\_last name

File name: spacer.html

All images in a folder

All images named for the web

#### **Image processing**

Image.gif image created (4X3 aspect ratio) in Photoshop

Caption.gif image created (1X3 aspect ratio) in Photoshop

Image is optimized for web

#### **Strength of composition**

All spacer images support your #color theme

Image is loaded in background

Table is pleasingly located in background  
Table is sized to "interact with background"  
Table is sized by re-sizing spacer images  
Table uses Cellpadding and Cellspacing

### **Table layout**

Use bg#color where necessary in table. No see-thru cells.  
Follow cell pattern below.


### **Clean coding**

"Space out" code for easy reading  
No duplicate tags  
All tags are closed  
Use "" after all =  
All #colors are in "hex" (example: #123456)

### **Table Tags (the following tags may be used in your table)**

**<table></table>**

Creates a table in your Web page.

**<table cellpadding="n in pixels">**

"Pads" an object from the cell walls.

**<table cellspacing="n in pixels">**

Creates space between cells.

**<table bgcolor="#123456">**

Sets the table background #color.

**<table border="n in pixels">**

Sets the table border thickness.

**<table width="n in pixels">**

Set the table width in number of pixels.

**<table height="n in pixels">**

Set the table height in number of pixels.

**<table width="%">**

Set the table width in to "N%" of window.

**<table height="">**

Set the table height to "N%" of window.

### **Row Tags**

**<tr></tr>**

(tr stands for table row) Creates a table row.

**<tr bgcolor="#123456">**

Sets the background #color for a table row.

**<tr valign="top">**

Aligns all objects in a row to the top of the cell.

**<tr valign="middle">**

Aligns all objects in a row to the middle of the cell.

**<tr valign="bottom">**

Aligns all objects in a row to the bottom of the cell.

**<tr align="left">**

Aligns all objects in a row to the left of the cell.

**<tr align="center">**

Aligns all objects in a row to the center of the cell.

**<tr align="right">**

Aligns all objects in a row to the right of the cell.

### **Heading Cell Tags**

**<th></th>**

(th stands for table header) Creates a cell with bold and centered text.

**<th bgcolor="#123456">**

Sets a background #color for a cell.

**<th colspan="columns">**

Sets a cell to span "N" columns.

**<th rowspan="rows">**

Sets a cell to span "N" rows.

**<th align="left">**

Aligns all objects in a cell to the left of the cell.

**<th align="center">**

Aligns all objects in a cell to the center of the cell.

**<th align="right">**

Aligns all objects in a cell to the right of the cell.

**<th valign="top">**

Aligns all objects in a cell to the top of the cell.

**<th valign="middle">**

Aligns all objects in a cell to the middle of the cell.

**<th valign="bottom">**

Aligns all objects in a cell to the bottom of the cell.

**<th width="n in pixels">**

Sets the width of a cell to "N" number of pixels.

**<th width="%">**

Sets the width of a cell to "N%".

**<th height="n in pixels">**

Sets the height of a cell to "N" number of pixels.

**<th height="%">**

Sets the height of a cell to "N%".

## **Data Cell Tag**

**<td></td>**

(td stands for table data) Creates a table cell.

**<td bgcolor="#123456">**

Sets a background #color for a cell.

**<td colspan="columns">**

Sets a cell to span "N" columns.

**<td rowspan="rows">**

Sets a cell to span "N" rows.

**<td align="left">**

Aligns all objects in a cell to the left of the cell.

**<td align="center">**

Aligns all objects in a cell to the center of the cell.

**<td align="right">**

Aligns all objects in a cell to the right of the cell.

**<td valign="top">**

Aligns all objects in a cell to the top of the cell.

**<td valign="middle">**

Aligns all objects in a cell to the middle of the cell.

**<td valign="bottom">**

Aligns all objects in a cell to the bottom of the cell.

**<td width="n in pixels">**

Sets the width of a cell to "N" number of pixels.

**<td width="%">**

Sets the width of a cell to "N%".

**<td height="n in pixels">**

Sets the height of a cell to "N" number of pixels.

**<td height="%">**

Sets the height of a cell to "N%".

**\*NOTE\* You should turn in your spacer project before beginning phase II.**

***Table.html***

***Phase II (image.html)***

Project Standards:

**Project submitting, naming, and organization**

Folder: table\_last name

file: image.html

All images in a folder

All images named for the web

**Image processing**

6 images of similar style are collected, cropped, and sized alike in Photoshop. (We have already determined image size with spacer.gif)

Image is saved as a JPG, optimized for the web.

**Strength of composition**

Images are similar in style and support #color theme.

Image is loaded in background.

Table is pleasingly located in background.  
Table is sized to "interact with background".  
bgcolor is used to support #color theme.

### **Table layout**

Use bgcolor where necessary in table. Bgcolor can be used to "frame images. No see-thru cells

Type is added (in Photoshop) to "caption" spacers


### **Clean coding**

"Space out" code for easy reading

No duplicate tags

All tags are closed

Use "" after all =

All colors are in "hex" (#123456)

### **Table Tags (the following tags may be used in your table)**

#### **More Body Attributes**

**<body bgcolor="#123456">**

Sets the background #color, using hex value.

**<body background="url">**

Sets an image as the page background.

**<body text="#123456">**

Sets the text #color, using hex value.

**<body link="#123456">**

Sets the #color of links, using hex value.

**<body vlink="#123456">**

Sets the #color of followed links, using hex value.

**<body alink="#123456">**

Sets the #color of links on click.

## ***More Image Properties***

### **<img align= "left">**

Aligns the picture to the left of your Web page.

### **<img align="center">**

Aligns the image to the center of your Web page.

### **<img align="right">**

Aligns the image to the right of you Web page.

### **<img alt="Name of Image">**

The alt property makes it so if the image fails to load in your Web page, the name of the image will still load in place of the image. If there is a blind person hearing what is on your Web page, they will know that there is a picture of "name of your image" on your Web page.

### **<img border="number">**

Gives your image a border according to the "number" in pixels.

### **<img hspace="number">**

Pushes text off of your picture horizontally.

### **<img vspace="number">**

Pushes text off your picture vertically.

## ***Table.html***

### ***Phase III (info.html)***

Project Standards:

### **Project submitting, naming, and organization**

folder: table\_last name

file: info.html

all images in a folder

all images named for the web

### **Image processing**

Use the same six images from the table

### **Page layout and strength of composition**

Images are aligned left then right down the page (alternating)

Image may be loaded as background

"White space" is used for legibility  
<hr> is used to break up sections

## **Text Formatting**

### ***Clean coding***

"space out" code for easy reading

no duplicate tags

All tags are closed

Use "" after all =

All #colors are in "hex" (#123456)

Use <img> properties:

- align
- width
- height
- alt
- border
- hspace
- vspace

***The following tags (and parameters) may be used in your info page layout***

### ***Font Attributes***

**<font size=number></font>**

Sets size of font, from 1 to 7.

**<font #color="#123456"></font>**

Sets font #color, using name or hex value.

**<font face="face"></font>**

Sets font face, using name of font. (Case sensitive!)

### ***More Body Attributes***

**<body bgcolor="#123456">**

Sets the background #color, using name or hex value.

**<body background= "URL">**

Sets an image as the page background.

**<body text="123456">**

Sets the text #color, using name or hex value.

**<body link="123456">**

Sets the #color of links, using name or hex value.

**<body vlink="123456">**

Sets the #color of followed links, using name or hex value.

**<body alink="#123456">**

Sets the #color of links on click.

### ***Break tag properties***

**<br clear= "all">**

Clears objects below the controlling element (image)

### ***Table.html***

#### ***Phase IV (links.html)***

Project Standards:

### **Project submitting, naming, and organization**

Folder: table\_last name

File: links.html

All images in sub folders

All images named for the web

### **Image processing**

We use the same six images from the table

### **Page layout and strength of composition**

Images are aligned left then right down the page

Image may be loaded as background

"White space" is used for legibility

<hr> is used to break up sections

### **Text Formatting**

#### ***Clean coding***

"space out" code for easy reading

No duplicate tags

All tags are closed

Use "" after all =

All #colors are in "hex" (#123456)

Use <img> properties:

## ***Links***

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

Creates a hyperlink. Put the object (text or an image) that you want to become "clickable" between the opening and closing tags.

## **Anchors**

**`<a name="name"></a>`**

Creates a target location within a document

**`<a href="#name"></a>`**

Links to that target location from elsewhere in the document

## ***Table.html***

### ***Phase V (roll.html)***

Project Standards:

### **Project submitting, naming, and organization**

folder: table\_last name

file: roll.html

all images in a folder

all images named for the web

### **Image processing**

We use the same six images from the table

### **Page layout and strength of composition**

Images are aligned left then right down the page

image may be loaded as background

"White space" is used for legibility

<hr> is used to break up sections

### **Text Formatting**

#### ***Clean coding***

"space out" code for easy reading

no duplicate tags

All tags are closed

Use "" after all =

All #colors are in "hex" (#123456)

Use <img> properties:

## ***Rollovers***

```
<a href="next.html" target="_blank"
onmouseover="document.name.src='images/roll_in.gif'"
onmouseout="document.name.src='images/roll_out.gif'">
</a>
```

## **Unit 6**

### **Style Sheets**

\*\*\*This unit is under construction\*\*\*

We use Style Sheets to avoid typing lots of tags like <font> </font> .  
With CSS, it is easy to have multiple pages look the same  
It is easy to keep constant styles in the same page.  
The coding is easier to follow and it is easier to change the design of  
content.