Designing the Home Page
and
Creating Additional Pages

Creating a Webpage Template

In Notepad++, create a basic HTML webpage with html documentation, head, title, and body starting and ending tags. From the Menu bar, select Language | H | HTML. This will turn on syntax highlighting for HTML.

 Save this as **basic.html** in a 'templates' folder on your flash drive.

```
1  <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
2          "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
3  <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
4
5  <head>
6  <meta http-equiv="content-type" content="text/html; charset=utf-8" />
7
8
9  <title> </title>
10
11
12  </head>
13  <body>
14
15
16
17
18
19
20  </body>
21  </html>
```

Connect to the server.

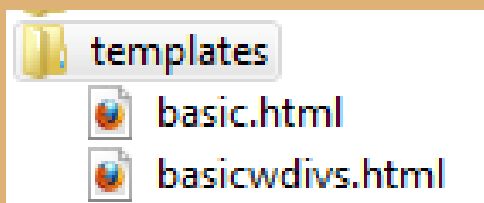Right click on the CIS251 folder and select Create new directory and name the new directory '**templates**.'

Right click on the **'templates'** folder and click on 'Upload current file here' to save it to the server.

With basic.html open in Notepad++, click File | Save as and save basic.html as basicwdivs.html.

Div's:
page
container
menu
content
push
footer

Save this to your templates folder on your flash drive as **basicwdivs.html** and then upload it to the 'templates' folder on the server.

templates
basic.html
basicwdivs.html

```
1   <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
2            "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
3   <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
4
5   <head>
6   <meta http-equiv="content-type" content="text/html; charset=utf-8" />
7
8
9       <title></title>
10
11  </head>
12
13  <body>
14
15  <div id = "page"><!-- begins page division -->
16
17          <div id="container"><!--begins container division -->
18
19          <div id="menu"><!-- begins drop-down menu div -->
20
21          </div><!--drop down menu ends here-->
22
23      </div><!--ends the container division-->
24
25      <div id = "content"><!--begins content division -->
26
27      </div><!--ends content division -->
28
29      <div class = "push"></div><!--
30
31  </div><!-- ends page division -->
32
33  <div id="footer"><!-- begins footer division -->
34
35  </div><!-- ends  footer division -->
36
37
38  </body>
39  </html>
```

In the cis251 folder on the server, create a new directory named home_page_design
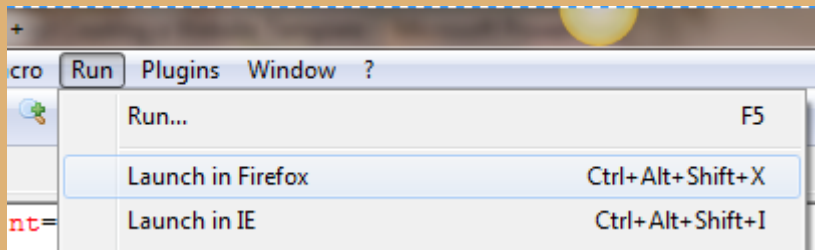

You will have additional folders from the class

From Notepad++, open the basicwdivs.html template and save this home page on our flash drive in a home_page_design folder as index.html.

Type 'Cascading Style Sheet Tutorial' between the start and end <title> tags and save the file on your flash drive as index.html.

```html
<!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" xml:lang="en" lang="en">

<head>
<meta http-equiv="content-type" content="text/html; charset=utf-8" />

    <title>Cascading Style Sheet Tutorial</title>

</head>

<body>

<div id = "page"><!-- begins page division -->

        <div id="container"><!--begins container division -->

        <div id="menu"><!-- begins drop-down menu div -->

        </div><!--drop down menu ends here-->

    </div><!--ends the container division-->

    <div id = "content"><!--begins content division -->

    </div><!--ends content division -->

    <div class = "push"></div><!--

</div><!-- ends page division -->

<div id="footer"><!-- begins footer division -->

</div><!-- ends  footer division -->

</body>
</html>
```

Next, add content placeholders in each section and save the file again.

Select 'Run" from the Toolbar menu and 'Launch in Firefox'.

Since we haven't defined any styles for your divisions yet, your content will be display stacked one after the other.

[Insert banner]

[Insert drop down menu]

[Insert content]

[Insert footer]

```
<!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" xml:lang="en" lang="en">

<head>
<meta http-equiv="content-type" content="text/html; charset=utf-8" />

    <title>Cascading Style Sheet Tutorial</title>

</head>

<body>

<div id = "page"><!-- begins page division -->

    <p>[Insert banner]</p>

    <div id="container"><!-- begins container division -->

        <div id="menu"><!-- begins drop down menu div -->

            <p>[Insert drop down menu]</p>

        </div><!-- ends drop down menu -->

    </div><!-- ends container division-->

    <div id = "content"><!-- begins content division -->

        <p>[Insert content]</p>

    </div><!-- ends content division -->

    <div class = "push"></div><!--

</div><!-- ends page division -->

<div id="footer"><!-- begins footer division -->
    <p>[Insert footer]</p>
</div><!-- ends  footer division -->


</body>
</html>
```

Upload the index.html page to the cis251/home_page_design folder on the server.

From the web, navigate to you cis251 folder 'student.uma.edu/~your.name/cis251' and click on the 'home_page_design' folder.

cis251
    design
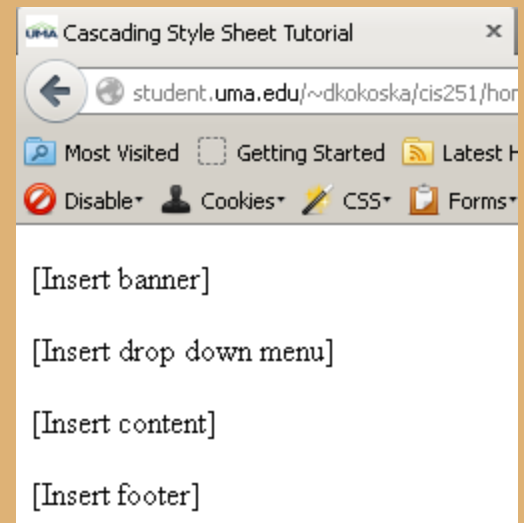   index.html
    templates

Index of /~dkokoska/cis251

Name	Last modified	Size	Description
Parent Directory		–	
home page design/	27-Jun-2013 08:03	–	
templates/	27-Jun-2013 07:59	–	

Apache/2.2.12 (Linux/SUSE) Server at student.uma.edu Port 80

You will have additional folders inside the cis251 folder, but the index.html file is inside the home_page_design folder.

Cascading Style Sheet Tutorial   ✕

student.uma.edu/~dkokoska/cis251/hor

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[Insert banner]

[Insert drop down menu]

[Insert content]

[Insert footer]

Your index.html will open automatically.
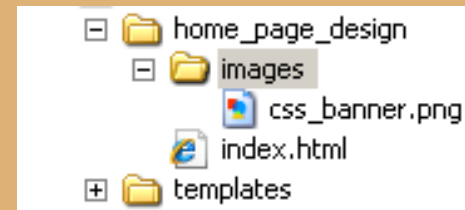Your 'Cascading Style Sheet Tutorial' title shows in the tab.

In the index.html page, replace the [Insert banner] placeholder with the following:

```
<div id = "page"><!-- begins page division -->

    <p class = "center">
        <img src = "images/css_banner.png" alt = "banner image" title = "banner image" />
    </p>
```

Inside the 'home_page_design' folder on the server, create an 'images' folder and upload the 'css_banner.png' file.

```
home_page_design
    images
        css_banner.png
    index.html
    templates
```

On your flash drive create an 'images' folder inside the 'home-page_design' folder and save the 'css_banner.png' file.

From now on, you should save all the files locally (on your flash drive) and then upload them to the same folders on the server!

View the index.html page on the server.

[Insert drop down menu]

[Insert content]

[Insert footer]

Since all of the pages in your site will contain the same banner, menu bar, and footer, you will add those to the index.html page and then save the index.html file with different names for the other pages in the site.

Replace the [Insert drop down menu] placeholder with this script at the right and on the next two slides

Notice that each of the menu items are in an unordered list.

```html
<div id="container"><!-- begins container division -->

    <div id="menu"><!-- begins drop down menu div -->

        <p>
            <ul id="item1">
                <li class="top"><a href = "index.html">Home</a></li>
            </ul>

            <ul id="item2">
                <li class="top"><a href = "style.html">Style</a></li>

                <li class="item"><a href="style.html#inline">Inline</a></li>
                <li class="item"><a href="style.html#embedded">Embedded</a></li>
                <li class="item"><a href="style.html#external">External</a></li>
                <li class="item"><a href="style.html#id">Classes</a></li>
                <li class="item"><a href="style.html#specificity">Specificity</a></li>
                <li class="item"><a href="style.html#formats">Output</a></li>
                <li class="item"><a href="style.html#printerfriendly">Printer Pages</a></li>
                <li class="item"><a href="style.html#precedence">Precedence</a></li>
            </ul>

            <ul id="item3">
                <li class="top"><a href = "display.html">Display</a></li>

                <li class="item"><a href = "display.html#about">About</a></li>
                <li class="item"><a href="display.html#inline">Inline</a></li>
                <li class="item"><a href="display.html#block">Block</a></li>
                <li class="item"><a href="display.html#none">None</a></li>
                <li class="item"><a href="display.html#visibility">Visibility</a></li>
            </ul>

            <ul id="item4">
                <li class="top"><a href = "font.html">Font</a></li>

                <li class="item"><a href = "font.html#about">About</a></li>
                <li class="item"><a href="font.html#family">Family</a></li>
                <li class="item"><a href="font.html#size">Size</a></li>
                <li class="item"><a href="font.html#style">Style</a></li>
                <li class="item"><a href="font.html#variant">Variant</a></li>
                <li class="item"><a href="font.html#weight">Weight</a></li>
            </ul>
```

```html
<ul id="item8">
    <li class="top"><a href = "lists.html">Lists</a></li>

    <li class="item"><a href = "lists.html#about">About</a></li>
    <li class="item"><a href="lists.html#list">List Styles</a></li>
    <li class="item"><a href="lists.html#shapes">Shapes </a></li>
    <li class="item"><a href="lists.html#numeric">Numeric</a></li>
    <li class="item"><a href="lists.html#alphabetic">Alphabetic</a></li>
    <li class="item"><a href="lists.html#image">Image</a></li>
</ul>

<ul id="item9">
    <li class="top"><a href = "boxes.html">Boxes</a></li>

    <li class="item"><a href = "boxes.html#about">About</a></li>
    <li class="item"><a href="boxes.html#box">Box Styles</a></li>
    <li class="item"><a href="boxes.html">Border</a></li>
    <li class="item"><a href="boxes.html#margins">Margins</a></li>
    <li class="item"><a href="boxes.html#padding">Padding</a></li>
    <li class="item"><a href="boxes.html#positioning">Positioning</a></li>
</ul>

<ul id="item10">
    <li class="top"><a href = "layout.html">Layout</a></li>

    <li class = "item"><a href = "layout.html#about">About</a></li>
    <li class="item"><a href="layout.html#absolute">Absolute</a></li>
    <li class="item"><a href="layout.html#relative">Relative</a></li>
    <li class="item"><a href="layout.html#z-index">Layers</a></li>
</ul>
</p>
```

```html
<ul id="item5">
    <li class="top"><a href = "text.html">Text</a></li>

    <li class = "item"><a href="text.html#about">About</a></li>
    <li class="item"><a href="text.html#align">Align</a></li>
    <li class="item"><a href="text.html#decoration">Decoration</a></li>
    <li class="item"><a href="text.html#indent">Indent</a></li>
    <li class="item"><a href="text.html#transform">Transform</a></li>
    <li class="item"><a href="text.html#letter">Letter-Spacing</a></li>
    <li class="item"><a href="text.html#line">Line-Height</a></li>
    <li class="item"><a href="text.html#word">Word-Spacing</a></li>
    <li class="item"><a href="text.html#vertical">Vertical-Align</a></li>
</ul>

<ul id="item6">
    <li class="top"><a href = "color.html">Color</a></li>

    <li class="item"><a href = "color.html#about">About</a></li>
    <li class="item"><a href="color.html#name">Color Names</a></li>
    <li class="item"><a href="color.html#rgb">RGB Triplets</a></li>
    <li class="item"><a href="color.html#value">Color Value</a></li>
    <li class="item"><a href="color.html#text">Text Color</a></li>
    <li class="item"><a href="color.html#link">Link Color</a></li>
</ul>

<ul id="item7">
    <li class="top"><a href = "background.html">Background</a></li>

    <li class="item"><a href = "background.html#about">About</a></li>
    <li class="item"><a href="background.html#colors">Colors</a></li>
    <li class="item"><a href="background.html#image">Image</a></li>
    <li class="item"><a href="background.html#repeat">Repeat</a></li>
    <li class="item"><a href="background.html#norpeat">No Repeat</a></li>
    <li class="item"><a href="background.html#position">Position</a></li>
    <li class="item"><a href="background.html#percentage">Percentage</a></li>
    <li class="item"><a href="background.html#keywords">Keywords</a></li>
    <li class="item"><a href="background.html#attachment">Attachment</a></li>
</ul>
```

Save locally and then upload to the home_page_design folder on the server. View in the browser:

Now let's add the footer.

Replace the [Insert footer] placeholder with the script at the right

Don't forget to add the

class = "center" attribute and value to the start <p> tag so when you add a 'center' class style in the CSS the text links bar will be centered.

```html
<div id="footer"><!-- begins footer division -->
    <p class = "center">
        <a href = "home.html">Home</a> |
        <a href ="CSS.html">CSS</a> |
        <a href = "display.html>Display</a>|
        <a href="font.html">Font</a> |
        <a href="text.html">Text</a> |
        <a href="color.html">Color</a> |
        <a href="background.html">Background</a> |
        <a href="lists.html">Lists</a> |
        <a href="boxes.html">Boxes</a> |
        <a href ="layout.html">Layout</a>
    </p>
</div><!-- ends  footer division -->
```

Save the file locally, upload it to the server, and test in the browser.

[Insert content]

Home | CSS | Display| Font | Text | Color | Background | Lists | Boxes | Layout

It looks like everything we need on all the pages is displaying properly. **In the index.html file, change the content between the start and end <title> tags to 'Style' and save the file locally as style.html. Upload to the home_page_design folder on the server.**

Create the following pages saving them with the appropriate file names and titles i.e. <title>Display</title> as display.html.
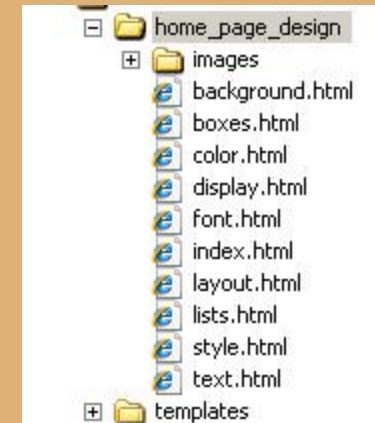Display
Font
Text
Color
Background
Lists
Boxes
Layout

Upload each of the new files to the home_page_design folder on the server.

You now have nine (9) identical Web pages with different names.

Next we will create our CSS Style Sheet.

Create a new document and add the following information, including the comments.

If you want to see the syntax highlighting as you type, select Language | C | CSS

Apply a style to the Universal selector (*) that applies to the entire document. Because some browsers have a default margin and a default padding, it is a good idea to declare a style to set them both to 0.

This style will not change the display noticeably in the browser.

```
<style type="text/css" media = "screen">

/* --------------------------------styles the universal selector----------------------------------- */

*

    {
    margin: 0;
    padding: 0;
    }

/* --------------------------------styles the html and body tags----------------------------------- */
```

Now let's style the html, body and page tags. You may not always know the value for the "page" width when you begin, but you can change it as you progress. You know it needs to be wide enough to display the 9 menu buttons.

```css
/* --------------------------------styles the html,body, and page tags------------------------------------- */

html, body
    {
    /* sets the height to 100% */
    height: 100%;
    /* sets font size to 18px */
    font-size: 18px;
    /* sets the background color to black */
    background-color: black;
    }

#page
    {
    /* sets the width of the page division to the width of the menu */
    width: 940px;
    /* sets the height of the page division to 100% even if content does not extend to the bottom of the page */
    min-height: 100%;
    /* sets the height of the page division to the height of the body container */
    height: auto !important;
    /* sets the height of the page divison to the height of the body containers for other browsers */
    height: 100%;
    /* sets the top marginto 0, the left and right margins to center content, and the bottom margin to -50 (the height of the footer) */
    margin: 0 auto -57px;
    /* sets the background color of the page division */
    background-color: white;
    }

/* --------------------------------styles the page layout------------------------------------- */
```

Save the file in a 'css' folder in the 'home_page_design' folder as 'css_tutorial_styles.css'.

Create a new css directory inside the home_page_design folder on the server and upload the css_tutorial_styles.css file.

Insert the following code in the index.html file to link to the css_tutorial_styles.css file.

```
<head>
    <meta http-equiv="content-type" content="text/html; charset=utf-8" />
    <link href = "css/css_tutorial_styles.css" rel = "stylesheet" type = "text/css" />

    <title>Cascading Style Sheet Tutorial</title>
```

Save the file and upload to the server. Test in the browser.

Well, that's progress. Now let's style the container and content divisions. You can only use a z-index (which will allow the drop-down portion of the menu to display in front of the content) when you use absolute positioning. You will add a high z-index value to the container division (which holds the menu) and a low z-index to the content division that displays behind the menu.

Insert the following style declarations below the html, body, and page styles. You may not want to view this right now!   We really need to style the drop down menu before you look – no peeking!

```css
/* -----------------------------------styles the page layout----------------------------------------- */

#container
    {
    /* allows the z-index */
    position:absolute;
    /* displays the content of the container in a layer closest to the front */
    z-index:9999;
    /* sets the width of the container to the width of the page */
    width: 940px;
    }

#content
    {
    /* allows the z-index - sets styles relative to its container */
    position: relative;
    /* leaves 75 pixels above the content */
    top: 75px;
    /* sets the width of the content to the width of the page */
    width: 940px;
    /* displays the content in a layer furthest to the back */
    z-index: 1;
    }
```

Add the styles on this and the next page to format the display of the menu:

```css
/* --------------------------------styles the drop down menu-------------------------------- */

#menu
    {
    /*set width of menu to width of page */
    width: 940px;
    /* place background behind menu items */
    background: url(css_btn.png) repeat-x;
    /* sets the height of the background */
    height:58px;
    }

#menu ul
    {
    /*sets the width of each menu item to 160 pixels */
    width:94px;
    /* displays the menu items in a horizontal list */
    float:left;
    /* removes the bullets from all link text */
    list-style:none;
    }

#menu ul li.top
    {
    /* sets the height of the buttons */
    height: 58px;
    /* required to vertically center the text on the button */
    line-height: 58px;
    text-align:center;
    }
```

```css
/* initially the submenu, items with a class of item do not display */
#menu ul .item
    {
    /* removes bullets */
    display:none;
    }

#menu ul a
    {
    text-decoration:none;
    color: white;
    }

#menu ul li.top:hover
    {
    /*sets the color of main menu when it is hovered */
    background-color:#0170BA;
    display:block;
    }

#menu ul:hover .item
    {
    /*displays the submenu items in a vertical list */
    display:block;
    /*sets the color of submenu when the main menu is hovered */
    background-color:#E44D26;
    margin-left: 10px;
    text-align:left;
    margin-top:-2px;
    font-size:13px;
    }
/*sets the height of the submenu by adding padding above and below the link text */
#menu ul:hover .item a
    {
    padding: 10px;


    }

/* sets the color of the submenu when the submenu is hovered */
#menu ul:hover .item a:hover
    {
    background-color:#29A9DF;
    color:white;
    display:block
    }
#menu ul:hover .item a
    {
    /*makes the whole bar a hyperlink */
    display:block;
    }
```
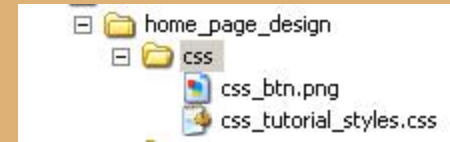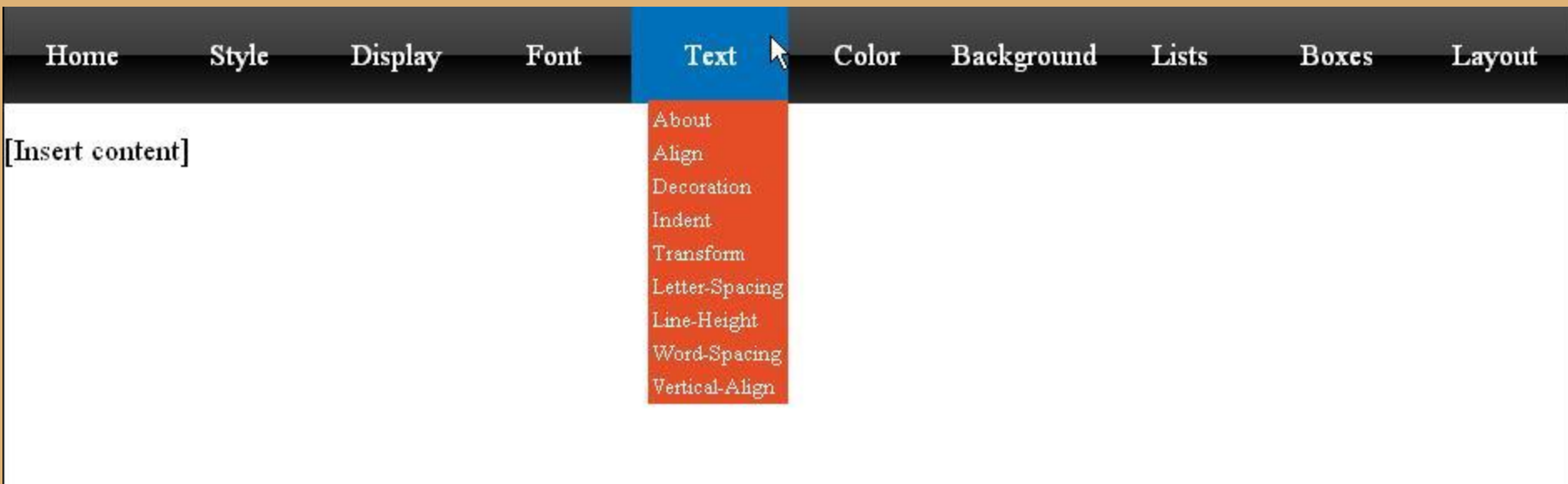
Upload the background image for the menu bar: 'css_btn.png' to the css folder on the server. This image is available in at the Design tab of the GIMP site.

Save and upload the css_tutorial_styles.css file to the css folder. View the index.html file in the browser.

You may want to change the padding in the #menu ul:hover .item a style to 3px so the submenu will be wide enough.

```
/*sets the height of the submenu by adding padding above and below the link text */
#menu ul:hover .item a
    {
    padding: 3px;
```

Now let's add some style declarations for the footer division

```css
/* ------------------------------styles the footer content ------------------------------ */

#footer
    {
        width: 940px;
        background-color: #333;
        box-shadow: 0px 0px 10px #888;
        margin: auto;
        text-align:center;
        height: 50px;
        background-color:#29A9DF;
        font-size: 15px;
        text-align:center;
        line-height: 50px;
    }


#footer a
        {
            color:white;
            text-decoration:none;
        }

.push
    {
        height: 125px;
        clear:both;
    }
.center
    {
        text-align:center;
        color:#3B9ADB;
    }



span.arrow
    {
    background:url(white_grad_arrow.png) no-repeat bottom;
    padding-bottom: 10px;
    }
```

Save the .css file and upload to the css folder on the server. View the index.html file.

Now open each of the other 8 .html files and add the link to the cascading style sheet in the head section.

```html
<head>
    <meta http-equiv="content-type" content="text/html; charset=utf-8" />
    <link href = "css/css_tutorial_styles.css" rel = "stylesheet" type = "text/css" />

    <title>Cascading Style Sheet Tutorial</title>

</head>
```

Upload each of the files to the 'home_page_design' folder on the server. They are all identical to the index.html page.

Now you may add content to the Home Page ONLY! Unless, of course, you want to add content to the other pages.

Experiment with the formatting of the Home Page content.

Hint: If you decide to put a border around the page content (as shown in the example):

border: solid 3px rgb(232,105,52), you may find that that a vertical scrollbar displays because the footer is below the bottom of the screen.

You will need to adjust the page style for a height of around 98% to compensate for the border.

Heaven forbid you haven't tried this in I.E. and the drop down menu is giving you fits because it closes whenever you hover over a sub menu item.

Some older versions of I.E. did not display the menu correctly, but thank goodness for Google – somebody wrote a fix that you can add to the top of your css file.

```
1  <!--this code is supplied by Peter Nederlof under the
   Creative Commons license -  I.E. supports so called
   behaviors; htc files that can be attached to the css-->
2  <!--[if IE]>
3      <style type="text/css" media="screen">
4      body {
5      behavior: url(http://qa.chiefsupply.com/csshover.htc);
6      font-size: 100%;
7      }
8      #menu ul li a {height: 1%;}
9      </style>
10 <![endif]-->
```

Wow! You have become quite a pro!
This site really does look professional!!