**Coding - 101**

**Unit 5 – HTML5 and CSS3**

Sub Unit: Designing a Page Layout in HTML5 and CSS3

**Project 05\_03.2**

**Costume Expressions**

*Data Files needed for this case Problem:*

ce\_front\_txt.html, ce\_grids\_txt.css, ce\_styles\_txt.css, 21 PNG files

*Scenario:*

Richard Privette is the owner of Costume Expressions, a small but growing costume and party business located in Rockville, Maryland. He has asked you to work on the website for the company.

Richard envisions a front page that resembles the jumbled advertising pages often found in the back pages of the comic books from his youth. Richard has supplied you with the HTML code and all of the image files required for this page. You’ll supply him with style sheets based on a grid layout that he can use to render his page’s content. He has also included what he would like it to look like in the **ce\_demo.png**

**Complete the following:**

**The Basics**

1. Using your editor, open the **ce\_front\_txt.html**, **ce\_styles\_txt.css**, and **ce\_grids\_txt.css** files from the designated repository. Enter your name and the date in the comment section of each file, and save them as **index.html**, **ce\_styles.css**, and **ce\_grids.css** respectively.
2. Create a reset style sheet by building a new file named **reset.css**. Navigate to <http://html5doctor.com/html-5-reset-stylesheet/> Copy and paste the code into the **reset.css** stylesheet. Save you changes.
3. Go to the **index.html** file in your editor. Within the document head, create links to the **ce\_styles.css** and **ce\_grids.css** style sheet files. Take some time to study the structure of the document.

**HTML**

1. Begin your HTML document with the Doctype declaration. In the head element, give the page the title of *Costume Expressions.*
2. Create the following sections: header, nav and footer.
3. Within the nav element, nest an unordered list with four list items. Each of the list items should have a nested anchor with the following content: *Enter Site*, *My Account*, *Track Orders* and *Contact Info*.
4. NOW for the DIVS! Create a div with the id of *container* right below the header*.* This will be where all other divs are nested.
5. Create three separate rows and label them appropriately.
6. In the first row, you will create two columns, one with the id of *column80* and one with the id of *column20*.
7. In the first column (the one with the *column80* label), create two more rows. The first row will have a column with the class of *column100 cell* and the id of *logo*. Nest an anchor with a nested img element inside of that column.
8. Place the image **ce\_logo.png** and the alt text *Costume Expressions* within the anchor.
9. In the second row, place three separate columns; labeled *column50 cell, column25 cell,* and *column25 cell* respectively. Each of these columns should have an image nested in an anchor. Use the **ce\_image04.png, ce\_image05.png,** and **ce\_image06.png** in ascending sequential order for each column image.
10. Apply the alt text *Birthday Party Costumes*, *Makeup Sales*, and *Costume Specials* to image04, image05, and image06 respectively.

1. Onto the next column. You will now work within the column20 div. Create four more rows, each with a nested div with the class of *column100 cell*.
2. Within each column, place an anchor with a nested img element. Use the **ce\_image01.png ce\_image02.png ce\_image03.png** and **ce\_image07.png** images for each of the nested img elements. Use the alt text *Find us on Facebook*, *Follow us on Twitter*, *Masks on Sale* and *Wig Specials* for each of the four img elements.
   * This is the end of the first major row (Whew!)
3. In the second row, create two columns, one with the class of *column20* and the other with the class of *column80*.
4. Within the first column, place two more rows, each with a nested column with the class *column100 cell.*
5. Place img elements, nested inside of anchors inside of the two columns. Use **ce-image08.png** with the alt text *Theater Costumes* and **ce-image12.png** with the alt text *Props for Sale* for each of the nested img elements.
6. In the next column (column80) you will place two more rows.
7. In the first row of the *column80* section, place three columns, one with the class *column50 cell*, and two with the class *column25 cell*. Place **ce\_image09.png ce\_image10.png** and **ce\_image11.png**, in img elements, inside of nested anchors. Use the alt text *Sales on Super Hero Costumes, Candy Sale,* and *Hats for Sale* for each othe separate images.
8. The final row of this column will be separated out into two more columns, one with the class of *column25 cell* and one with the class of *column75 cell.*
9. Place one nested img element inside of an anchor inside of the first column with **ce\_image13.png** and the alt text of *Christmas Specials*.
10. Now place two more rows inside of the div with the class *column75.*
11. In the first row, place two columns. One will have the class of *column67 cell* and the other *column33 cell*. Based on the instructions for the previous columns and images, use the same element structure to nest **ce\_image14.png** in the first row of column75 and **ce\_image15.png** in the second row.
12. The final row in column75 will have three nested divs with the class *column33 cell*. Each of the respective columns will have a nested image anchor. Use the **ce\_image16.png, ce\_image17.png** and **ce\_image18.png** for each individual anchor image. Use the alt text *Halloween Costumes* for each one.
13. The very last major row of the index.html document will consist of two columns, each named *column20 cell* and *column40 cell* respectively. Each column will have the remaining two images, nested inside of anchor elements. Use **ce\_image19.png** with the alt text *Masks for Sale* and **ce\_image20.png** with the alt text *Mardis Gras Special*.
14. In the footer element place the following address:

**Costume Expressions**

**3411 Torrence Dr.**

**Rockville, MD 20850**

1. Place line breaks after the first two lines of the address.

**CSS**

1. Save your changes to the file and then go to the **ce\_grids.css** file in your editor.
2. Within the Grid Rows Styles section, create a style rule to set the width of each div element of the row class to 100% of its container, displaying the row only when it’s clear of floated content on both margins.
3. Create a style rule to allow grid rows to expand around all of their floated content.
4. Go to the Grid Columns Style section. Create a style rule to float every div element whose class name begins with *column* on the left.
5. Create style rules for div elements belonging to the following classes: column100, column50, column33, column67, column25, column75, column20, column40, column60, and column80 so that the width of each column is a percent equal to the size value. For example, div elements belonging to the column100 class should have widths of 100%, column50 should have widths of 50%, and so forth.
6. Go to the Grid Spacing Styles section. Create a style rule to apply the Border Box model to the div elements belonging to the following classes: container, row, classes that begin with column, cell, and a elements nested within div elements belonging to the cell class.
7. Save your changes to the **ce\_grids.css** file and then go to the **ce\_styles.css** file in your editor.
8. Go to the Window and Body Styles section and create a style rule to set the background color of the browser window to rgb(101, 101, 101).
9. Create a style rule for the body element that:
10. sets the background color to white,
11. sets the default font to the stack: Verdana, Geneva, Arial, sans-serif,
12. centers the page by setting the top/bottom margins to 20 pixels and the left/right margins to auto, and
13. sets the width of the page body to 95% ranging from 320 pixels up to 960 pixels.
14. Insert style rules to display all images in the document as blocks with widths of 100%.
15. Insert a style rule to remove all underlining from hypertext links within navigation lists.
16. Go to the Body Header Styles section. Richard wants you to format the links that are displayed in the header at the top of the web page. To format the links, create a style rule that sets the background color of the body header to rgb(191, 68, 70) and sets the height to 40 pixels.
17. Create a style that displays all list items within the navigation unordered list in the body header as blocks, floated on the left, with a right margin of 20 pixels and top/bottom padding of 10 pixels with left/right padding of 0 pixels.
18. Create a style rule to set the font size of hypertext links within the body header navigation list to 0.9em with a color value of rgb(51, 51, 51) for both visited and non-visited links. Change the text color to rgb(255, 211, 211) when the user hovers over or activates those links.
19. Go to the DIV Container Styles section. Richard wants you to add some additional spacing between the images and the edge of the page body. To add this spacing, create a style rule that sets the right and bottom padding of the div element with the id *container* to 8 pixels.
20. For every a element within a div element belonging to the cell class, create a style rule to:
21. display the hypertext link as a block with a width of 100% and
22. set the left and top padding to 8 pixels.
23. Richard wants the page footer to be displayed in the bottom right corner of the web page. To place the footer in this position, go to the Windows and Body Styles section and set the position property of the body element to relative, then go to the Footer Styles section and create a style rule for the footer element to do the following:
24. set the position property of the footer to absolute with a right coordinate and bottom coordinate of 8 pixels,
25. set the text of the footer to rgb(143, 33, 36),
26. right-align the footer text, and
27. set the font size to 2vmin so that the text resizes automatically with the width and/or height of the browser window.
28. Save your changes to the **ce\_styles.css** file and then open the **index.html** file in your browser. Verify that the layout resembles that shown in **ce\_demo.png**.

**NOTES**: Please reference the instructions laid out in the README.md file of the repository for this project for details on how to accomplish this project as a team, using distributed version control.