Client-Side Web Technologies – Homework Assignment 2

Due: February 9 @ 11:59 PM
Value: 16% of total grade

Overview

In this assignment, you will use what you have learned about CSS to create a stylesheet for a variation of the HTML document that you created in Homework 1. You are being given a HTML file called "bookclub.html" as well as the following image files:

- chart.jpg (394 pixels x 394 pixels)
- reading_dog.jpg (324 pixels x 216 pixels)

Your goal is to make the presentation of the document be like that which is described in the following sections. I do not expect you to duplicate things down to the exact pixel but your presentation should be very similar (i.e. it should look similar with respect to layout, positioning, size of padding, margins, etc.). You also must adhere to any specific requirements put forth in the following sections.

Two screenshot images are provided to show how your page should look when applying the appropraite CSS styles:

- screenshot_gt600.jpg (how it should look when the browser viewport width is > 600 pixels)
- screenshot_le600.jpg (how it should look when the browser viewport width is <= 600 pixels)

Requirements

You will be creating the "styles.css" CSS file linked to by the HTML document. You will **only** be submitting and evaluated on the CSS file. Therefore, **you are not allowed to make any changes to the HTML file**.

Color Palette

This section details the colors referenced in the sections that follow. Colors are given in RGB format:

Name	Red	Green	Blue	Sample
Dark Gray	100	100	100	
Medium Gray	180	180	180	
Light Gray	220	220	220	
Black	0	0	0 Text	
White	255	255	255	
Table Border Blue	184	204	228	
Table Odd Number Row Blue	197	217	241	
Yellow	255	255	0	
Blue	0	0	255	
Sub Heading Text Orange	185	85	25	
Red	255	0	0	

Fonts

The fonts I used for all text unless otherwise specified, in order of priority, are:

1. Helvetica
2. Arial
3. sans-serif

You do not need to use the same fonts that I did. You are only required to specify 3 fonts. The type of fonts and priority are up to you.

The size of all fonts unless otherwise specified should be left to the browser default. The color of all fonts unless otherwise specified is to be "Black".

Units

Unless explicitly instructed otherwise in this document, you are to use relative length units as opposed to absolute length units for this assignment. So you should be using %, em, rem, etc. instead of px. This is the desired approach when creating responsive designs. Obviously if you use media queries (which you probably will) then you will need to specify px in the @ rules. This is fine.

Headings

The size of all `h2` headings is to be 1.5x the normal font size. The color of these headings should be "Sub Heading Text Orange".

The size of the `h1` heading is to be 2x the normal font size. The color of this heading should be "White".

Links

All links should have font color "Blue" with the exception of the links in the navigation area. The links should not change color regardless of whether they have been visited, are active, etc. When hovered over with a pointing device, these links should be underlined.

Header Section

The header section consists of the "Oakland Book Club" heading. This heading should be centered as shown in the screenshots. The width of the header should be 100% of the width of the browser viewport regardless of how wide the viewport is. The background color is to be "Dark Gray".

Main Section

The main section corresponds to the `main` element in the HTML document and contains the 5 subsections explained in detail next. This section is to have background color "Light Gray". The width of the main section's content area should:

- Be 100% of the width of the browser viewport when the viewport width is =< 600 pixels
- Be 2/3 of the width of the browser viewport when the viewport width is > 600 pixels

Quote of the Day Section

The quoted text in this section should be italicized as shown in the screenshots.

What We Are Reading Now Section

This section contains a table. The table must have collapsed borders as shown in the screenshots. The border is to be a 1 pixel solid border with color "Table Border Blue".

The table headers must use a linear gradient as their backgrounds. The gradient is to transition from top to bottom and use "Dark Gray" and "Black" as the respective color stops. The font color of the headers is to be "White". The text in the headers is to be left aligned.

The first and second columns are to have their textual data left aligned as shown. The third and fourth columns are to have their numerical data right aligned as shown.

Odd numbered table rows are to have the background color "Table Odd Number Row Blue" and even numbered table rows are to have the background color "White".

When hovering over a table row in the body of the table (not the header) the background color of the row is to change to color "Yellow". You must utilize the CSS transitions feature so that the background color transitions over some period of time. The length of the transition and the timing function are up to you. The screenshot_le600.jpg shows the fourth row in the table highlighted as if it were being hovered over.

Our Favorite Genres Section

There are no additional style considerations for this section.

About Us Section

There are no additional style considerations for this section.

Contact Us Section

The form elements are to be laid out as shown in the screenshots. The buttons are to have background color "Dark Gray" and font color "White". The "*" characters in the required field labels are to have font color "Red".

Footer Section

The footer section consists of the copyright text. This text should be centered as shown in the screenshots. The width of the footer should be 100% of the width of the browser viewport regardless of how wide the viewport is. The background color is to be "Dark Gray".

Navigation Section

The navigation section corresponds to the HTML element `nav` in the document. How the navigation section is displayed is determined by the width of the browser viewport:

- If the viewport width is > 600 pixels then the navigation section is displayed to the left of the main content area and the width should be 1/3 the width of the viewport
- If the viewport width is <=600 pixels then the navigation section is to be displayed below the main section but above the footer and the width should be 100% of the width of the viewport

The font color of the links should be to be "Black". When hovered over with a pointing device, the font color is to change to "White" and the link text is to be underlined.

Padding

You should make use of padding throughout to make the UI look like the screenshots. I used padding equal to 1/2 the normal font size throughout to add padding to the various sections, tables, forms, etc.

Submission

To submit your assignment, add your "styles.css" file to a ZIP archive (only the single CSS file – do not include the HTML file or any images), name the ZIP file *Homework2_[andrewid].ZIP*, and upload to Blackboard under Assignment 2 by the due date/time above. For example, my ZIP file name would be *Homework2_jmussits.ZIP*.

Grading Rubric

This assignment is worth 160 points (16% of your total grade). The following is how the assignment will likely be scored:

- The document's presentation looks very similar to the screenshot with respect to layout, positioning, padding, margins, borders, etc. [30]
- The layout functions as it is supposed to with respect to how it is rendered based on viewport width [50]
- Fonts, font sizes, and text effects done correctly [15]
- Table styles done correctly [15]
- Transition done correctly [20]
- Colors done correctly [30]

Hints

Here are some hints to help you:

- We did not go over how to style lists. This will be useful: http://www.w3.org/TR/CSS2/generate.html#lists
- Refer back to the examples on Media Queries. They will be useful.
- There are several ways to accomplish this responsive layout. One way is to make use of Flexbox. Refer to the example on that for help.