

Client-Side Web Technologies – Homework Assignment 2

Due: April 13 @ 11:59 PM

Value: 10% 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.png (1715 pixels x 1084 pixels)
- reading_dog.jpg (294 pixels x 294 pixels)

Your goal is to make the presentation of the document be like that which is described in the following sections. We 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 appropriate CSS styles:







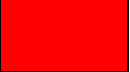
- gt_960px.png (how it should look when the browser viewport width is > 960 pixels)
- le_960px.png (how it should look when the browser viewport width is <= 960 pixels)

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 or image files.**

Color Palette

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

Name	Red	Green	Blue	Sample
Blue 1	6	147	255	
Blue 2	134	193	239	
Blue 3	205	233	255	
Black	0	0	0	
White	255	255	255	
Gray	239	239	239	
Red	255	0	0	

Fonts

For this assignment, you are required to use web fonts. Pick any one you like from Google Fonts and apply it to your entire document (text inside the chart image file will NOT be affected – that is OK):

<https://fonts.google.com/>

Because you cannot modify the HTML, you must use the CSS **@import** rule in your CSS file to load the font file from Google Fonts rather than in the link element in the HTML file. You can find documentation for Google Fonts here:

https://developers.google.com/fonts/docs/getting_started

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. Therefore, you should be using %, em, rem, etc. instead of px. This is the desired approach when creating responsive designs. Setting the width of the main section to 960px as explained below is OK.

If you use media queries (which you probably will) then you will need to specify px in the @ rules. This is fine.

Headings

The color of `h2` headings should be “Black”.

The color of the `h1` heading is to be “Blue 1”.

Links

All links should have font color “Blue 1” except for 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 “Black”.

Navigation Section

The navigation section corresponds to the HTML element `nav` in the document. The background color of the section should be “Blue 1”. The section contains links corresponding to different sections. The font color of the links should be to “White”. When hovered over with a pointing device, the font color is to change to “Black” and the link text is to be underlined.

When the width of the browser viewport is > 960px the links should be positioned horizontally as shown in the screenshot. When the width of the viewport is <= 960px the links should be positioned vertically as shown in the screenshot.

Main Section

The main section corresponds to the `main` element in the HTML document and contains the 6 subsections explained in detail next. This section is to have background color “White”. The width of the main section’s content area should:

- Be 100% of the width of the browser viewport when the viewport width is ≤ 960 pixels
- Be 960px wide when the viewport width is > 960 pixels (in this scenario the remaining width of the browser viewport should be divided equally among the left and right margin and the background color of the left and right margin areas should be “Gray”)

Reading Dog Section

This section should show the Reading Dog image as shown in the screenshots.

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 “Black”.

The table headers must have background color “Blue 2”. The font color of the headers is to be “Black”.

Odd numbered table rows are to have the background color “White” and even numbered table rows are to have the background color “Blue 3”.

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 “Blue 1” 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 “Black”. The font color should be “White”.

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 50 points (10% of your total grade). The following is how the assignment will likely be scored:

- The document’s presentation looks very similar to the screenshots with respect to padding, margins, borders, etc. [10]
- The layout functions as it is supposed to with respect to how it is rendered based on viewport width [20]
- Fonts done correctly [10]
- Colors done correctly [10]

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 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. Another would be using Floats. See those examples as well.
- The `calc` function we discussed in class could be useful: <https://developer.mozilla.org/en-US/docs/Web/CSS/calc>
- Refer to the slides and examples for the `border-radius` CSS property; we did not discuss this in class but will be necessary for styling the dog image correctly