

# Client-Side Web Technologies – Homework Assignment 2

**Due: February 12 @ 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.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 appropriate CSS styles:

- screenshot\_g1024.jpg (how it should look when the browser viewport width is > 1024 pixels)
- screenshot\_le1024.jpg (how it should look when the browser viewport width is <= 1024 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 you must use for the items discussed in the sections that follow. The colors are referenced by name in the following sections. Colors are given in RGB format:

Name	Red	Green	Blue	Sample
Main White	255	255	255	
Document Gray	60	60	60	
Navigation Bottom/Right Gray	60	60	60	
Navigation Top/Left Dark Gray	34	34	34	
Navigation Text Gray	153	153	153	
Navigation Hover Text White	255	255	255	
Table Header Bottom Gray	115	115	115	
Table Header Top Gray	60	60	60	
Table Header Text White	255	255	255	
Table Border Dark Gray	34	34	34	
Table Odd Number Row Light Gray	238	238	238	
Table Even Number Row White	255	255	255	
Main Section Link Blue	0	0	255	
Fieldset Border Gray	153	153	153	
Normal Text Black	0	0	0	
Footer Text White	255	255	255	
Sub Heading Text Orange	185	85	25	
Form Field Required Red	255	0	0	
Button Text White	255	255	255	
Button Background Gray	60	60	60	

## Fonts

The fonts to use for all text unless otherwise specified, in order of priority, are:

1. Helvetica
2. Arial
3. sans-serif

The size of all fonts unless otherwise specified is to be 14 pixels. The color of all fonts unless otherwise specified is to be “Normal Text Black”.

## Headings

The size of all `h2` headings is to be 2x the size of the fonts used throughout the page (14 pixels). The color of these headings should be “Sub Heading Text Orange”.

The size of the `h1` heading is to be 3x the size of the fonts used throughout the page (14 pixels) and should have a text shadow effect similar to that shown in the screenshots.

## Links

All links should have font color “Main Section Link 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.

## Document Background

The background color of the entire document is to be “Document Gray” as shown in the screenshots.

## 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 “Main White”. It is to have rounded corners as shown. The width of the main section is never to exceed 1000 pixels and never to be less than 700 pixels. Within the 700 and 1000 pixel width range, it should automatically size as needed to take up as much width as possible as the browser viewport width changes.

The main section is to have the “reading dog” image displayed at the top as shown with rounded corners.

## 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 Dark Gray”.

The first and second columns in the table are to be 160 pixels wide each and the third and fourth columns in the table are to be 125 pixels wide each.

The table headers must use a linear gradient as their backgrounds. The gradient is to transition from top to bottom and use “Table Header Top Gray” and “Table Header Bottom Gray” as the respective color stops. The font color of the headers is to be “Table Header Text 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 Light Gray” and even numbered table rows are to have the background color “Table Even Number Row White”.

### 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 `fieldset` is to have a 1 pixel solid border with color “Fieldset Border Gray”. The border is to have rounded corners similar to those in the screenshots.

The form elements are to be laid out as shown in the screenshots. The buttons are to have background color “Button Background Gray” and font color “Button Text White”. The buttons are also to have rounded corners. The “\*” characters in the required field labels are to have font color “Form Field Required Red”.

### Footer Section

The footer section at the bottom should be center aligned and is to have font color “Footer Text White”.

### 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.

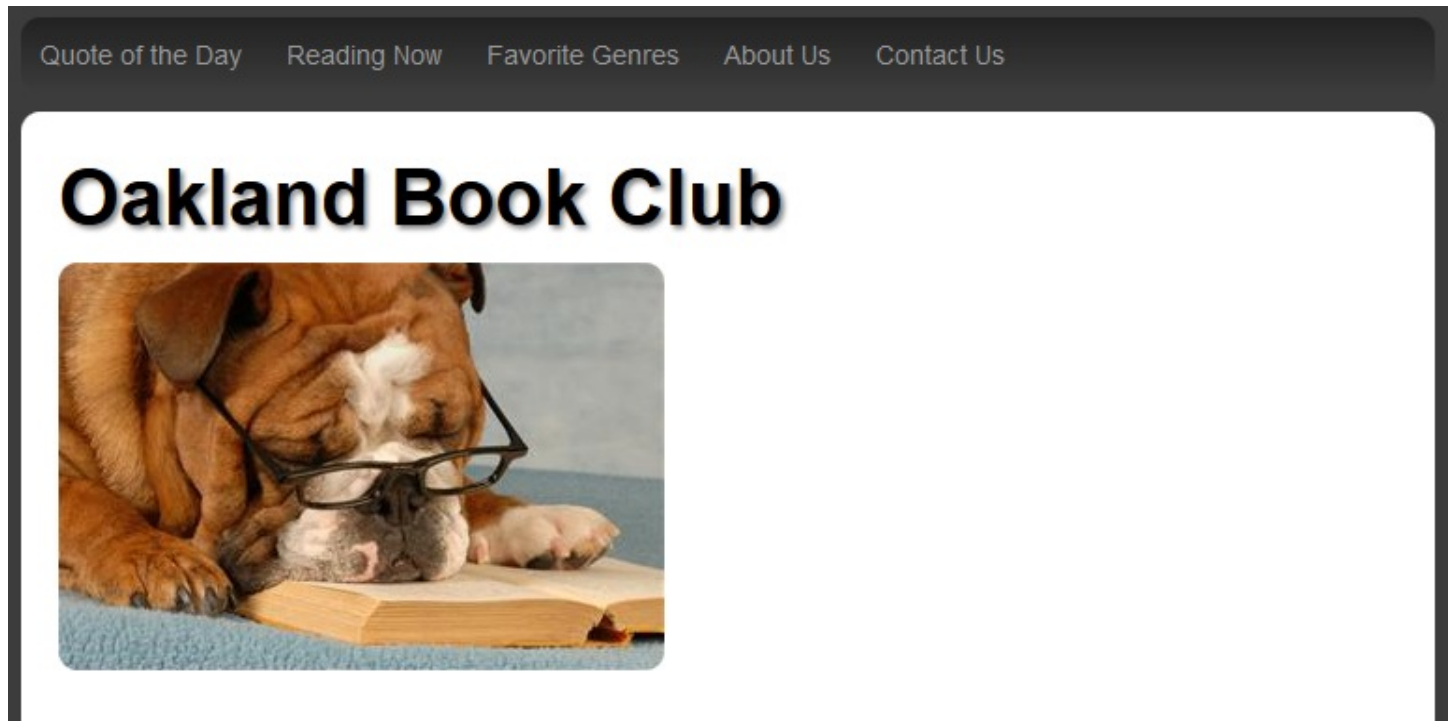
If the viewport width is > 1024 pixels then the navigation section is displayed as shown below (and in the appropriate screenshot image “screenshot\_g1024.jpg”):



In this scenario links are on the left. The navigation section should be 240 pixels wide. Links should look similar to how they are laid out in the screenshot.

The list items must use a linear gradient as their backgrounds. The gradient is to transition from left to right and use “Navigation Top/Left Dark Gray” and “Navigation Bottom/Right Gray” as the respective color stops. The font color of the headers is to be “Navigation Text Gray”. When hovered over with a pointing device, the font color is to change to “Navigation Hover Text White”.

If the viewport width is  $\leq 1024$  pixels then the navigation section is displayed as shown below (and in the appropriate screenshot image “screenshot\_le1024.jpg”):



In this scenario links are on the top. The navigation section should maintain the same width as the main section. Links should look similar to how they are laid out in the screenshot.

The navigation section must use a linear gradient as its background. The gradient is to transition from top to bottom and use “Navigation Top/Left Dark Gray” and “Navigation Bottom/Right Gray” as the respective color stops. The font color of the headers is to be “Navigation Text Gray”. When hovered over with a pointing device, the font color is to change to “Navigation Hover Text 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 100 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 screenshot with respect to layout, positioning, padding, margins, etc. [25]
- The navigation section functions as it is supposed to with respect to how it is rendered based on viewport width [25]
- Gradients and other backgrounds done correctly [15]
- Fonts, font sizes, and text effects done correctly [10]
- Table styles done correctly [15]
- 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 back to the examples on Media Queries. They will be useful.
- Keep in mind the CSS `calc` expression we discussed. It can be extremely useful when setting widths and heights.