# CPSC 2030 – Web Development II

**Lab2: [40 marks] Advanced CSS and Icomoon Icons**

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| **Objectives** |
| * Use advanced CSS to style a page * Configure locations of elements * Use Icomoon App to add special icons to a page |
| **Preparation** |
| 1. Read Chapter 4 of the textbook 2. Create a new folder named **Lab2** under your CPSC2030\Labs folder. |
| **What to do** |

**Setup:**

* Download Lab2Files.zip from D2L.
* HTML code has been provided. You will write your styles in the file called **styles.css**. **You may not edit the HTML code! (adding links to stylesheets is fine though.)** The purpose of this lab is for you to use advanced CSS to style the document without changing the mark up.
* **There are some screenshots and demo videos in the Lab2Files folder that will show you what the site should look like when you’re done. Study these carefully!**

**Task 1: Mobile Layout, Fonts and Colors**

* The mobile layout will be a simple, one-column layout. Look at the screenshot and apply the necessary styles to match it as closely as possible. You will use the mobile-first approach this time, which means you will start by implementing the mobile layout (without using a media query) and then implement the desktop layout (using a min-width media query below the code for the mobile layout.)  
  + Import the Google Fonts: **“Crimson Text”** and **“Quattrocento”** with the statement given below. **Quattrocento** should be used for the headings and **Crimson Text** should be used for everything else. Set the color of the h2 elements to **slategrey.**

@import url('https://fonts.googleapis.com/css?family=Crimson+Text:400,600|Quattrocento:400,700');

* + Use CSS to set the **h2** headings to all caps.
  + The figures (and the images inside of them) should be the full width of the viewport. Don’t worry about the caption positioning yet.
  + Set the background color of the footer to **slategrey** and center the list items. Don’t worry about the icons yet.

**Task 2: Desktop Layout**

* Below the CSS for your mobile styles, use a media query with **min-width:600px**; Look at the screenshots included in the starter files and implement the following:
  + Use the **display** property and the **text-align** property to get the header menu to be centered with a horizontal layout. (don’t worry about the vertical borders between items yet)
  + Set the height of the figures to **250px**, and float them to the left. Make sure the images do not overflow from the figure elements. (Don’t worry about the caption positioning yet.)
  + Set the maximum width of the content to **800px** and center it. The content should respond to the width of the viewport when the viewport is narrower than **800px.** (See the demo video.)

**Task 3: Advanced Selectors**

* Look at the screenshots and demo videos included in the starter files and implement the following, using advanced selectors:
  + **Menu items:** set borders between each of the items. The leftmost and rightmost items should *not* have borders on their outer edges.
  + **First paragraphs:**
    - The text of the first paragraph of the “Advanced Selectors” section should be slightly larger than the default text size.
    - The first line of the first paragraph should have the color **crimson.** **Figure out which selector will allow you to do this**. From the demo videos, you can see that the color should only be applied to the first line, regardless of how the text flows to fit the viewport.
    - The first letter of the first paragraph should be larger and should drop down into the text of the paragraph. This is called a “drop cap”. **Figure out which selector will help you do this.**
    - The first paragraph of every section should be in italics. (But not the first paragraph of the “Advanced Selectors” section.)

**Task 4: Positioning**

* Look at the screenshots and demo video included in the starter files and implement the following, using the **position** property:
  + Implement the horizontal lines cutting through the h2 headings by using the **position:relative** property.
    - Hint: you can use the border-bottom or border-top properties to get the horizontal line.
    - Another hint: notice that each **h2** has a **span** inside of it. This may be a good place to implement the **position** property.
  + Implement the “settings” button in the top, right corner of the viewport by using the **position:fixed** property. As you can see in the videos, the settings button stays in the same place relative to the viewport regardless of where the user scrolls in the page. (Don’t worry about the cog icon yet.)
  + Implement the positioned captions in the figures by using the **position:absolute** property. Use a transparent **rgba** background color for the caption. Try to match the layout in the screenshots.

**Task 5: Icomoon icons**

* Examine the screenshot and then go to the page **icomoon.io.**  Click **Icomoon App** at the top right of this page and then select the appropriate icons.
* After you have selected all the icons you need, click **Generate Fonts** and then **Download**. The browser will save the **icomoon.zip** file to your computer.
* Copy the icomoon.zip to your Lab2 folder and unzip it.
  + In the **icomoon** folder, there is a file called **style.css**. This file is already linked to your HTML page. Edit the selectors in the file to get the correct icons to show up in the correct places in your page. Do not edit the HTML file!
    - Hint: remember the **attribute selectors**!

**Task 6: Pseudo-classes**

* Look closely at the demo videos to see how the links behave when we hover over them, click them, and when they have been visited. Implement these behaviors by using the following pseudo-classes in CSS: **a:link, a:visited, a:hover**, and **a:active**. Remember that the order that these style declarations are placed in the CSS code will affect how they are applied to the document. (**note:** the underline should be crimson, like the text.)

**Task 7: Remaining Styles**

* Look closely at the demo video and screenshots; implement any remaining styles to match them

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| **What to hand in** |
| * Zip your Lab2 folder and upload it to BrightSpace. |
| **When to hand in** |
| * By 11:59pm, Sunday, September 18, 2022 |