

COMP 1950

Assignment: 05 – Responsive Images and Responsive Navigation

Course Value: 3%

Due Date: Before the start of next week's class (Day 06)

Assignment Description:

Add responsive images and a responsive navigation to a web page.

Instructions:

1. Open the folder "a-05-start" located in the "day-05" folder
2. Open the "a-05-start.html" file
3. The HTML file is partially complete. Read the notes in the HTML file to see what to add to make the images responsive. You will need to add the following:
 - a. A logo SVG file (image file located in the images folder)
 - b. Add "srcset" and "sizes" attributes to the banner image to load different size versions of the banner image at different screen sizes. All the various sized banner images are in the "images" folder
 - c. Turn the "group people picture" into a picture element. Load a cropped version of this photo at a certain breakpoint. The cropped version is in the "images" folder
 - d. Use media queries to make sure the background-image only loads on screen sizes larger than 1024px
4. For the responsive menu do the following:
 - a. The button styles for the "hamburger" menu is already complete. Shrink your browser to below 600px to see the hamburger menu
 - b. The JavaScript to toggle the showing of the menu is already complete and included on this web page. The JavaScript simply toggles a "show" class on the body element. Use this "show" class to show and hide your responsive menu
 - c. Write the CSS that creates a mobile menu system. Feel free to use either a simple "show" and "hide" dropdown, an animated dropdown, a slide-in menu, a full-screen overlay or any other mobile menu system that you can come up with.
 - i. Feel free to modify the HTML, CSS or JavaScript if needed for your responsive menu
5. View your completed web site in a browser
6. When the above steps are complete do the following:
 - a. Upload the completed file(s) to your personal COMP1950 web space via FTP
 - i. Remember individual assignments and projects should be stored in individual folders. For example, for "Assignment 05" I might make a folder called "a05". I would then upload that folder to my web space
 - b. Browse to your completed assignment by navigating to your completed assignment in a web browser
 - i. The address should be similar to:
 1. comp1950.michaelwhyte.ca/mwhyte13/a05/a-05-start.html
 2. replace "mwhyte13" with the first part of your my.bcit.ca email address
 - c. Once you have tested your assignment in a browser, make note of the URL and copy it.

- d. Go to D2L and find the dropbox for Assignment 05.
 - i. Create a text file or a Word document or a PDF that contains a link to your completed assignment
 - ii. Upload the text file completed in the above step to the dropbox
 - iii. In the Comments section include a link to your assignment

Notes:

- ***** IMPORTANT ***** Remember, if you are testing your responsive images code in the Chrome browser to clear your tabs and shrink your browser to its smallest size before loading your web page. If you do not do this Chrome will load the image it needs at the large screen size and never load the smaller images, even if you resize the browser down to a smaller size. This does not affect the Firefox browser
- There are two video demos that demonstrate how a responsive navigation system and how the responsive images change with the browser
 - o a-05-demo-retina.mp4
 - This video shows how the images change on a retina screen
 - Use this video as a resource if you are completing the assignment on a Macbook Pro with a retina screen an iMac with a retina screen, or a Windows laptop with a 4k retina screen or some Surface Pro devices
 - o a-05-demo-non-retina.mp4
 - Use this video as a resource if you are developing on devices with regular non-retina screens. Most desktop monitors with a full-HD display (1920px x 1080px) are non-retina screens
 - o Your responsive navigation system does not have to match the ones in the video demos. Feel free to experiment with other responsive navigation designs

Marking Criteria:

This project will be marked out of 3 and will be marked based on the following criteria:

- | | |
|-------------------------------------|---------|
| 1) All Technical Specifications Met | 3 marks |
|-------------------------------------|---------|

Total: 3 marks