COMP1223

# Web Development Fundamentals

## Introduction

This pre-lab will prepare you for lab test 2. It is MANDATORY to complete this pre-lab or you will NOT receive access to the lab test. The pre-lab does not get submitted; once it is complete make sure it is uploaded to GBLearn. Once you show the pre-lab in week 6 you will be able to do the lab test.

### Goals and Outcomes

Pre-lab 2 will have you create an html5 page. Then you will have to style the page according to different specifications. You will have to use selectors, group selectors and select children of sections.

## Task

Begin these tasks on your local machine. Once you complete the file on your local machine you can drop it on the web server.

### First Page

1. Create an HTML5 file with the full structure (including semantic elements) in a file called "index.html".
2. Save the file inside "labs/lab2/prelab/" folder.
3. Add a title that is related to pre-lab 2.
4. Add the charset as "utf-8" and proper description, keywords and author Meta tags.
5. Inside the body make sure you include:
    a. Header with ID mainHeader
        i. Inside the header add a top level heading that says "George Brown College" and a second level header that says "Guide to Success".
    b. Nav with ID mainNav
        i. Inside the Nav create an unordered list that has the following items: "Home, Library, Guides, GBLearn and Blackboard"
            1. "Home" links to your pre-lab 1 biography page.
            2. "Library Guide" links to the George Brown library website
            3. "GBLearn" links to GBlearn.com
            4. "Blackboard" links to the George Brown Blackboard access
        ii. All links except "Home" must open in a new page.
    c. Section with ID content
        i. Inside the section write a brief paragraph (250 words) about life at George Brown College. What's good, what's bad and how this site will help new students. You may use dummy text for this part (http://www.lipsum.com/).
        ii. Use at least two(2) inline styles for the text in the paragraph.
    d. Article with ID mainArticle
        i. Inside the article add something like a blog entry about an event coming up at George Brown College (100 words). Include a header an image and a brief description of the event. Include a link to the event in the paragraph.
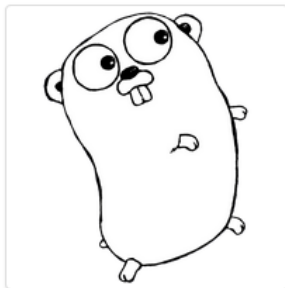
      ii. You may use dummy text for this part (http://www.lipsum.com/), still include a link to an event even if you use dummy text.

      iii. See example one on the last page for a picture of a sample blog page.

  e. Footer

      i. In the footer add the following as an unordered list "About the Author, Contact Us and George Brown Main Site".

      ii. About the author links to your biography page (pre-lab 1), contact us is a mail link and George Brown link to the George Brown website

6. Create an internal or external style that does the following (start with internal then move it to external):

  a. Make the width of the page 960px and have it centered.

      i. Hint: Do not do this individually; create a div with id wrapper like the pre-lab.

      ii. Hint: For centering check the margin in the lab manual.

  b. Add a solid border to the site (the color should be a part of a theme and match the layout).

  c. Change the background color of the main section, article, header, nav and footer.

      i. The colors should match and it should look themed i.e:

          1. Nav and footer same color

          2. Light color for content areas

  d. Change the text color for all h1 tags to a color of your choice.

  e. Change the text color for the h1 tag that is a direct child of the article tag to a different color.

  f. Change the paragraph text color for the entire document.

  g. Change the font family to include three different fonts (Times, Sans Serif, etc).

  h. Set the font size for the paragraph text.

  i. Make the navigation list horizontal, evenly spaced and make it change color on hover.

      i. Hint: check lab manual 5 for assistance.

  j. Using pseudo-classes do the following:

      i. Edit the link in the blog paragraph for different states (hover, visited or active) to different effects.

          1. Hint: Refer to this guide for an example: (http://www.w3schools.com/css/css_pseudo_classes.asp)

      ii. Make the first letter of every paragraph a capital using CSS

          1. Hint: Refer to this guide for an example: (http://www.w3schools.com/cssref/sel_firstletter.asp)

7. Use CSS validation if you get stuck ( http://jigsaw.w3.org/css-validator/).

8. Make sure your page is VALID HTML5.

9. Upload the final code to your GBLearn account under the following directory: (public_html/labs/lab2/prelab/).

**You must complete this pre-lab in order to do lab-test two. Its final due date is week 6 in lab.**
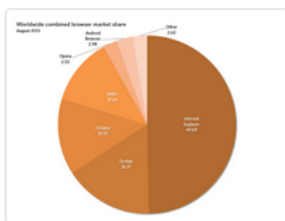
## Review Questions

Test your CSS knowledge by seeing if you can answer/solve these questions:

- Write CSS rule to select all the <p> tags and add border to all of them
- Write CSS rule to change the background color of all <b> tags inside p tag
- Write CSS rule to change the font of all the <u> tag
- Write CSS rule to change the color of all <b> that are direct child of p
- Create a class call it p1 to be used only by <p> tag. Changes the text alignment to center.
- Write CSS rule to select span tags in this document and add border, background –image.
- Create a class called red which can be used by any tag. Change the text color to red.
- Write CSS rule to select all anchor tags that has target attribute. Use text-transform to make them upper-case.
- Write CSS rule to select all anchor tags that has target attribute with value _blank.
- Write CSS rule to select all anchor tags that has title attribute and set the background colour to red
- Write CSS rule to select all anchor tags that has title attribute with value link 2 and set the background colour to yellow.
- Create a class call active. This class will represent active menu so pick a very active background colour and nice text color.



**Example 1 – Blog Entries (taken from gblearn.com)**