CSCE 102 Lab 8 — Advanced Layouts

Absolute Positioning and the Box Model

**(Part I is due at the end of class)**

## General information

* Read the entire assignment before you start.
* Always bring your book and lecture notes to lab.
* Use clean indentation so your code will be easy for you to read and also easy for your instructor to read.
* Include the closing tags when you enter the opening tags so you will not forget them.
* Always maintain backup copies of your work. **Always work on your X drive and copy your work to your USB memory stick at the end of lab.**
* Never share your password or memory stick with anyone. Maintain the standards of academic honesty discussed in lecture and in previous labs. The work you turn in must be your work.

## Part I — Create a magazine style layout- Due Today at the end of class

1. Create an html file and save it as lab8**A***xx*.html in your **All\_102Submissions** folder, where *xx* are your first and last name initials.
2. Create **four div elements** in the body of your html document. The first div will function as the **banner**, the second as the **first column**, the third as the **second column** and the fourth as the **third column**.
3. Give each div an **id attribute** value that reflects its role.
4. Using the **Lorem Ipsum** text generator,[[1]](#footnote-2) give each column a few paragraphs of filler text.
5. Include an h3 element with some content at the top of each column.
6. Include an h2 in the banner.
7. Using an **internal style sheet**, position the div elements using **absolute positioning**. Give each div a top, left, and width property[[2]](#footnote-3), make sure they do not overlap, and make sure there is some space between them. The combined width of the columns should be between 600 and 800 pixels wide. For each column set the text-align to **justify**.
8. Include an **image** below the header in the second column. Do not use an image that is wider than your column.

Be creative and add colors, borders, etc. The final layout should resemble   
<http://cl1.cse.sc.edu/csce102/lab8a_example.png>

## Part II — Create a structured HTML5 document Due the night before your next lab

1. Create a new document and save it as lab8**B***xx*.html in your **All102Submissions** folder, where *xx* are your first and last name initials.
2. Inside the body element, create a container for the entire page with the **article element**.
3. Inside the article element: give the page a banner with the **header element**, followed by the **nav element**, and then the **section element**.
4. Inside the section element include another **header element** and a **paragraph element**. Copy/paste this section element at least three more times.
5. **Fill in the content** of this page with whatever you want, but structure it precisely as described. Give the page a title by filling in the article header. For each section: fill in the paragraph, and fill in the header with a title for the section. Just as in part one you may use the Lorem Ipsum text generator to give content to the paragraphs.
6. Inside the nav element add an unordered list with a list item (li) for each section you created in the previous step. Each list item should contain an **internal link** to the corresponding section. Do this by giving the header in each section a unique id, and then link to it internally with the anchor element (just as in lab 2). I.e., the navigation element will contain list items that when clicked will cause the page to scroll to the corresponding location within the page (the sections).
7. Use an **internal style sheet** to accomplish the following:
   * Set the display property of article, header, nav, and section to block using the group selector (comma).
   * Set the margin of every element to be 0 using the universal selector (asterisk). I.e., \*{margin:5px;}
   * Set the width of the article to something other than the default 100%, e.g., 960px is a widely accepted standard width.
   * Center the article by setting both margin-left and margin-right to auto.
   * Set the list items to display inline (they are block-level by default).
   * Set the text decoration property to none when you hover over the anchor elements in the unordered list.(use a pseudo class)
   * Create a CSS rule that will give the article header a large font.
   * Create a separate CSS rule that will give the section headers a large font (but not as large as the article header). Hint: use nesting to apply the style to only header elements that are descendants of section elements.
   * Continue to customize the style of the document to make it look good. Use a color scheme (<http://www.colorcombos.com/>), add padding/margin to elements that you think may need it, add borders where you think they make sense, etc. When you have finished, your page should look something like:

<http://cl1.cse.sc.edu/csce102/lab8b_example.png>

* + You will be graded based on your code as well as your creativity and the overall appearance of your layout so make it look good.

#### Part III — Update All\_102Submissions

1. Add a link to lab8A*xx*.html to the list.
2. Add a link to lab8B*xx*.html to the list.

**Note**: You must have an image of you on your All\_Index page.

1. Go to <http://www.lipsum.com/> and select “Generate Lorem Ipsum.” Then copy/paste the text to the paragraphs in your html code. [↑](#footnote-ref-2)
2. The property bottom is not necessary if you use top, likewise the right property is not necessary if you use left. [↑](#footnote-ref-3)