INT222 - Lab 04: CSS Positioning and Layouts

Released On: Oct 19, 2015

Due On: Thursday, Oct 29, 2015 - 23:59

Point: 1.5% of final mark

Objective

- to practise and experience in using CSS,
- to demonstrate your CSS knowledge in the usage of positioning, layouts and navigation,
- to get experience of creating and maintain a web site.

Instructions

Download the lab4_template.zip file and unzip the package. You will find an html file - **canadianPT.html** and a folder **images** with a number of images inside. Based on what you have been provided, complete the 8 tasks below. The screenshots for each task is as following:

Screenshot for tasks

The following are the screenshots which show what the web page should look like after completing each of above tasks:
template, task1, task2, task3, task4, task5, task6, task7, task8 and task-resize.

Task 1: Creating a CSS file for the page

- Create a CSS file named **sitecss.css** and embed the CSS file into the provided HTML file: **canadianPT.html**. All your CSS rules should be in the **sitecss.css file**.
- Set page background use the provided image: **images/canada_theme.jpg**, and expend the background to the whole page.
- Center the heading.

Task 2: Specify width for the page

- If the target screen resolution width is 1024, you may set the width of the web page to 960px, 900px, or other values. But here, we use a relative width setting.
- Center the page.

- Hint:

```
body {
    … …
    width: 85%;
    margin: 0 auto;
}
```

Task 3: Place navigation bar

In this step we will arrange for the navigation bar to be placed on the left part of the page, and under the header.

- Give the nav a width, and

- Float it to the left.

- Hint:

```
nav {
     width: 250px;
     float: left;
}
```

Task 4: Clear space under navigation bar

- To stop wrapping under the navigation bar, give a width to **main** section, and

- float it to the left.

- Hint:

```
.main {
    width: 60%; /* width: 600px; */
    float: left;
}
```

- To ake the footer underneath the nav and main section block, set the clear property of footer to both.

- Hint:

```
footer {  clear: both; }
```

Task 5: Position the Canada flag and text

- Set the size of the Canada flag.

- Hint: use the combination of ID selector and contextual selector:

```
#CA img { width: 50px; }
```

- Set the font size of the Canada text.

- Position the flag and text to the top-right corner relative to the browser window (as showed in the screenshot).

- Hint: use fixed position.

Task 6: Create float-based grid

- Set the flag sizes of all provinces and territories – width: 100px;
- Display the information (flags and text) of provinces and territories in a grid with the size of 220px x 200px.
- Hint:

```
.province
{
        float: left;
        width:  220px;
        height: 200px;
}
```

Task 7: Wrap the flags with Text

- Use the following code to make the text wrap the provincial flag images with text:

```
.province img { float: left; margin: 5px;}
```

Task 8: final work

- Remove the list style for the list of provinces and territories in the **nav** block at the left of the page.
- Decorate the heading with text-shadow.
- Wrap <div> of each province with border, the set margins, paddings and text color.
- After finish your code, resize the window of your web page (don't change the code) to see the effect. (Float-based grid can make your page fit to different size screens, such mobile screen.)
- In Firefox, type Ctrl+Shift+C to open the Inspector window – a tool for web developers. Check the HTML elements in the web page and CSS rules which apply to them.

Other Requirements

- Enclose the following declaration with your name and date at the top of **you sitecss.css** file:

```
/*****************************************************************************
```
I declare that my assignment is wholly my own work in accordance with Seneca Academic Policy. No part of this assignment has been copied manually or electronically from any other source (including web sites) except for the information supplied by the INT222 instructors and / or made available in

this assignment for my use.

I also declare that no part of this assignment has been distributed to other students.

Name: (your name here)

Dated:

**/

- The JavaScript code that generates the following is already included on all template pages to be used in the lab. Removing or modifying the JavaScript code will result in a late penalty.

  This page was last updated on 9/27/2014, 7:27:04 AM

  Note: When viewing your pages with Chrome or Safari, the date/time will be off by 5 hours. All other browsers will show the correct date/time.

Submission:

- Login on your zenith account, and upload **the HTML file, CSS file,** as well as **the images folder** and **its image file(s)** of your lab under the **public_html/labs/lab04** directory before the due date.

Notes for W3C Markup Validation

- Make sure the **sitecss.css** pass _**W3C CSS validation**_. The occurrence of error when validating **sitecss.css** file will result in an immediate 25% penalty on your lab mark.