

**Concordia University**  
**SOEN 287: Web Programming Summer 2022**  
**Assignment 2**

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**Due Date:** By 11:55pm July 13 (Wednesday), 2022

**Evaluation:** 12.5% of final mark

**Late Submission:** none accepted

**Type:** Individual Assignment

**Purpose:** The purpose of this assignment is to have you practice cascade style sheets and HTML5 tags.

**CEAB Attributes:** This assignment is primarily evaluating your use of the CSS and the HTML5 tags (Use of engineering tools)

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## Exercise 1: Understand the CSS box model

The image below illustrates the CSS box model:

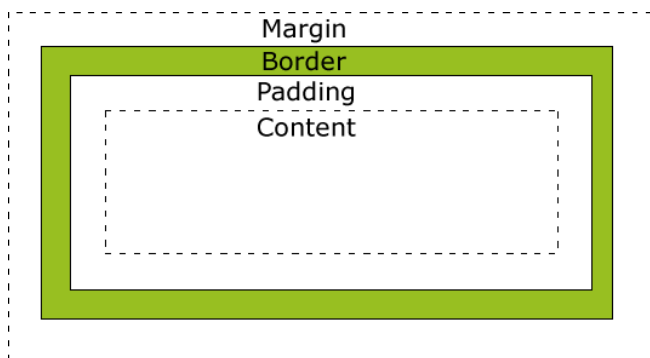


Figure 1. The CSS Box Model

Please use the <div> to implement a page illustrated below. 1) You can use any color combinations for the border and the background; 2) you can decide the width of the paragraph in the border; 3) when you resize the browser window, the text are automatically wrapped.

### The CSS Box Model

This is the normal text. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

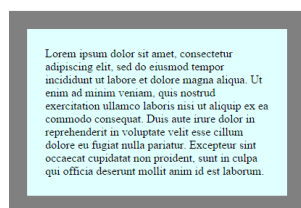


Figure 2. A sample page

## Exercise 2: Pseudo Class Selector and Navigation Bar

Use <list> to create a vertical “navigation bar”. “Home” is the current page (active), with a green background color and a white text. The other non-active items have a grey background and a white text. When mouse is over a non-active item, the text changes to white with black background. Figure 3 is a demo.

### Vertical Navigation Bar

"Home" is the current page. There are four menu items.



Figure 3. A sample page of navigation bar

## Exercise 3

On a single HTML page, include the following two div container elements in the body. Using an external style sheet, add style to the div elements such that one div has some overlap with the second div (Hint: make use of relative or absolute positioning). Both divs should have a padding of 5px all around, a green 2px dotted border, a width and height of 200px and their text should be centered.

Also, add style to the span class “red” so that the text displays in red and is **bold**.

```
<div id="first">
    <span class="red">This is a DIV Container</span>
</div>
<div id="second">
    DIVs are a powerful way to modularize presentation
</div>
```

## Exercise 4: Step 1 of the Running Project - Adopt a Dog/Cat

The last question of each of the remaining assignments will be continuous from assignment to assignment. The goal is build a website for people who are looking to adopt a cat or a dog. You will expand what your site can do with each submission.

In this assignment, you will build the skeleton for the *Adopt A-Cat/Dog* website, along with some initial content. Use HTML5 and CSS to accomplish this task.

The structure of the site should be broken into four components:

- **A header.** This should appear at the top of all pages on your site. It should include the name of your pet adoption service as well as a logo/picture. Clicking on the logo/picture should take you to the home page.
- **A side menu.** This should appear on the left or right side of all your pages. Include the following contextual navigation links: *Home page*, *Browse Available Pets*, *Find a dog/cat*, *Dog Care*, *Cat Care*, *Have a pet to give away* and *Contact Us*. The side menu should consistently appear on the left or right side at all times.
- **A content area.** This should be the main area where content of the site is displayed. This is where forms would be filled out and any significant text would appear.
- Following is a description of each page which will appear in the Content area of your site, as a result of clicking on one of the choices listed in the side menu.
  - The **Home** page which should be a welcome page and have a brief description of what the site is about. Include enough content and decorated as you wish, to demonstrate your HTML5 and CSS prowess.
  - The **Browse Available Pets** page will eventually display all of the pets available for adoption. For now you can have an “Under Construction message” appear when a user clicks on this link.
  - The **Find a dog/cat** link should load a form (could be the same form for both or a different form for dogs and cats which are very similar – You decide). To search the user will need to complete the form which requests the following information:
    - Cat or dog
    - Breed of dog or cat – (include a doesn’t matter choice)
    - Preferred age of animal - can be a choice of age ranges (include a doesn’t matter choice)
    - Preferred gender – Male, female, doesn’t matter choice.
    - Whether it needs to get along with other dogs, other cats, small children.
    - Submit & Clear button (eventually the submit button will result in a list of pets fitting the selected criteria being listed.)
    - We might add a few more fields in subsequent assignments

- The ***Dog Care*** and ***Cat Care*** pages will offer general instructions on how to care for a dog or cat. They can contain text you copied from other sites, a series of links or a combination of these two. Don't forget to give credit for material that is not yours.
- The ***Have a pet to give away*** page will have a form which the person who has a pet to give up for adoption will need to fill out. Eventually a user will need to log in to this section of the site to register a pet. For this assignment when this link is activated have a form that appears requesting the following information (you can add more and we may add more in future assignments):
  - Cat or dog
  - Breed of dog or cat – include a mix breed
  - Age of animal - can be a choice of age ranges
  - Animal gender
  - Gets along with other dogs
  - Gets along with other cats
  - Suitable for a family with small children
  - Comment area (textarea) which the user can use to brag about the animal they are putting up for adoption.
  - Their current owner's name (both family and given name)
  - Their current owner's email (where they can be reached)
  - Submit & Clear button - eventually the submit button will add this pet to the list of available pets on the server.
- The ***Contact Us*** page which will have contact information. This is where you should include your name, student Id, email and whatever other info you wish to add.
- **A footer.** This should appear at the bottom of all your pages. Give it a distinct background color and include a link to a **Privacy/Disclaimer Statement** which can either appear in the content area of the site or in an alert or confirm box. It should display a message promising users that their information will not be sold or misused, and protects the website builder from any incorrect information posted by a pet owner and so on.

Here are a few possible designs (You can make your own as long as it follows the requested guidelines.)

Header	Side Menu
Content area	
Footer	

Side Menu	Header
	Content area
	Footer

Header	
Side Menu	Side Menu
Footer	

Header	
Side Menu	Content area
	Footer

**Note:**

- 1) Although it is not a functional requirement, your site should always be well organized with properly named files and well defined directories.
- 2) All CSS should be in external files.
- 3) It can be very difficult to achieve the same look and feel across all browsers. Obviously it is preferable to have the site look good across all major browsers (ie: Internet Explorer, Firefox, Chrome, Safari...) but for the sake of this course just focus on building the website so that it is compatible best with one browser. Be sure to include in the footer of your site which browser you have designed/tested your website for.
- 4) Any pictures, graphics, text you “borrow” from other sites, be sure to give credit to. Be aware of plagiarism.