


Lab1 HTML and CSS

Due 4 April, 11:59pm, via Canvas

Computer Science

Overview

In this programming lab, you will be completing a series of exercises that will help you structure and style web pages. Here's a picture of what your webpage will look like (about) when you're done.

Dog Emma																
About																
Woof! I am a German Sheppard. My name is Emma. I love User Interface Design...																
Courses																
Here are some courses I have taken at CWU:																
<table border="1"><thead><tr><th>Course Number</th><th>Course Title</th><th>Quarter Taken</th></tr></thead><tbody><tr><td><CS420></td><td><Title goes here></td><td><Winter 2015></td></tr><tr><td><M172></td><td><Title goes here></td><td>...</td></tr><tr><td>...</td><td><Title goes here></td><td>...</td></tr><tr><td>...</td><td><Title goes here></td><td>...</td></tr></tbody></table>		Course Number	Course Title	Quarter Taken	<CS420>	<Title goes here>	<Winter 2015>	<M172>	<Title goes here>	<Title goes here>	<Title goes here>	...
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<CS420>	<Title goes here>	<Winter 2015>														
<M172>	<Title goes here>	...														
...	<Title goes here>	...														
...	<Title goes here>	...														
Interests																
Slobbering, barking, nature videos																
Submit dog information																
Name: <input type="text"/> Age: <input type="text"/> Gender: <input type="text"/> <input type="button" value="Submit"/>																

Required Resources

You will need a text editor, preferably with syntax highlighting. We recommend using [Sublime Text](#), available on OS X, Windows and Linux.

References

HTML reference:

<https://developer.mozilla.org/en-US/docs/Web/HTML>

CSS reference:

https://developer.mozilla.org/en-US/docs/Web/Guide/CSS/Getting_started

Exercise 0: Build Dog's website from scratch

For this exercise, open up your text editor and follow along with what we do on the projector. Starting from a blank file, we will:

- Use basic HTML tags to define the overall structure of a web page.
- Add some text content to the web page.
- Add an image to the web page.
- Separate the web page into sections and give each section a heading.
- Apply some basic style to the sections using CSS rules.

Featured video: <http://www.beginnertuts.com/Tutorials/CSS/T1/T1CSS.php>

Exercise 1: Make the page your own

Modify the page's content to make it your own website.

- Replace the name in the page's title with your own.
- Replace the interests listed with your own.
- Replace the picture of Dog with a picture of yourself.

Exercise 2: Style your page using Chrome Inspector

Use the Chrome Inspector or Firebug to inspect your elements and play with CSS rules. Here is a good [reference on CSS selectors](#).

- Change heading fonts to Georgia and color them maroon.
- Make links colored differently when you hover and have visited them.

Featured videos: <https://www.youtube.com/watch?v=2AgFOtyws4s>

Exercise 3: Add and style a table of courses

Modify the page to include a table of courses you are taking and have taken. Here are some [examples of simple tables](#). Your table should have:

- three columns: course number, course title, and semester taken
- two vertical sections, with headers for courses taken 'For Credit' and as 'Listener'
- alternating row background colors, so it's easy to read
- green colored text if the class is currently being taken

Featured videos: [HTML Website Tables & Layouts Tutorial](#)

It should look something like this:

Course Number	Course Title	Quarter Taken
<CS420>	<Title goes here>	<Winter 2015>
<M172>	<Title goes here>	...
...	<Title goes here>	...
...	<Title goes here>	...

Exercise 4: Positioning

Use Inspector/Firebug to try different layouts using the CSS position directive. Move your picture, interests and course info around. Here's a reference on [CSS positioning](#). Put your picture on the right and the rest of your info on the left.

Featured videos:

- [CSS Absolute and Relative Positioning Tutorial](#)
- [Making Divs Side by Side using CSS](#)

Exercise 5: Add a Form

Add a form which visitors of your website can use to submit information about their pet. Here's a [reference on forms](#).

- Add textboxes for the pet's name, gender and phylum.
- Add a Submit button.

Featured videos: [How to create forms in HTML5](#)

Exercise 6: Codecademy Exercises

Do the projects on the [Codecademy website](#).