


Overview

In this programming lab, you will be completing a series of exercises that will help you structure and style web pages. Below is an example of what your webpage will look like when you're done. It will have the same components, but the styling may differ depending on your choice.

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><Fall 2020></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>	<Fall 2020>	<M172>	<Title goes here>	<Title goes here>	<Title goes here>	...	
Course Number	Course Title	Quarter Taken														
<CS420>	<Title goes here>	<Fall 2020>														
<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="submit" 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 in the featured video. 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>	<Fall 2020>
<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 (Optional): Codecademy Exercises

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

Other good places to explore:

<https://www.w3schools.com/html/>

<https://www.w3schools.com/css/default.asp>

You can use coding program:

<http://brackets.io/>

What to turn in:

index.html, main.css, image.jpg

Rubric:

Page has a title	2
Page is separated into sections with headings	2
Page includes an about section	2
Page includes a courses section that has a table with at least three courses listed	3
Page includes interests section	2
Page includes a "submit" section that has three text boxes followed by a submit button	3
Page includes an image	3
Basic styling has been applied to the page	3
Total	20