Week 3 codify academy

**Week 3**

**In Class Quiz**

1. What CSS would you write to center a <div>?
2. What is the CSS selector for a <div> with a class of “box”?
3. What is the CSS selector for the class “container”?
4. Write the HTML for a <div> with an <h1> inside it.
5. How do you write out a <link> tag to connect your HTML to your CSS?

**Group Discussion Questions**

1. Has everybody added their Super Heroes webpage to a Codepen? If not, do so now.
2. Has everybody followed at least four new companies on LinkedIn this week?
3. What does PSD stand for? What is it and how does it relate to web development?
4. What’s the difference between Git and Github?
5. What are 3 uses of Github? Why should you work to maintain an active Github account?
6. What does the CSS overflow property do? What values does it take? (Hint: check W3Schools if you’re not sure)
7. What does the ‘initial’ CSS value do? What CSS properties accept ‘initial’ as a value?
8. What does the CSS z-index property do?
9. Can you change the z-index of any element in CSS? What do you need to do to an element before changing its z-index?
10. What determines an element’s default z-index (in other words, if you don’t change the z-index of an element, what is that element’s z-index)?
11. If you have two overlapping elements, div.box and img#profile, given the following code, which element should be on top?  
      
     div.box {  
      
     z-index: 1;  
     }  
     img#profile {  
     z-index: 5;  
     }
12. How do you write a CSS selector that selects an h1 element with a class of “one”?
13. What is the difference between ‘div.box’ and ‘div .box’ as CSS selectors?
14. What is the difference between 'div button' and 'div > button' as CSS selectors?
15. What is the DOM?
16. What is the difference between responsive and adaptive design? Which one relies on media queries?
17. What are media queries used for?
18. What does the meta viewport tag do?

**Exercises**

***Important: Make sure to add comments to your code.***

1. Create a copy of your template folder and rename it to week3exercise.
2. Drag this new folder into your 'week3' folder inside your 'codify' folder.
3. Open Github and your terminal/Git Bash. Push your empty week3exercise project folder to your new Github repository before we begin. Reference [this guide](https://files.slack.com/files-pri/T039N7TM0-F8JSX6CAV/new_github_repository_walkthrough.txt" \t "_blank) for pushing your project folder to your new repository.
4. In HTML: Create a centered, horizontal navbar with 5 functional links.
5. In CSS: Add a hover effect to the list-items that changes their background-color and adds a border.
6. Test out your hover effect and make sure they’re working. If they are, select your navbar’s li elements and add the following CSS transition property and value: “transition: 0.5s ease;”. What’s different?
7. In CSS: Now make the text inside your functioning links change color and grow to a larger font-size on hover.
8. In HTML: Create a div, and inside that div, three button elements.
9. In CSS: Center your button elements on your page.
10. In CSS: Add a hover effect for your buttons so that they change to a slightly darker color (hint: you'll need to use your inspector's color slider in the styles tab for this) and their text turns white on hover.
11. When you click on the link above to Treehouse, did you notice how the web page opens in a new window/new tab? To find out how it's doing that, open your inspector and inspect that anchor element. With the anchor selected, what do you see in the elements tab of your inspector that makes this anchor different from yours? See if you can make your own links open in new windows.
12. Refer to [this guide](https://files.slack.com/files-pri/T039N7TM0-F8KGXRZEH/updating_github_repository_walkthrough.txt" \t "_blank) to update your Github repository with your completed week 3 exercises when you’re done!

[Download Completed Week 3 Exercises](http://codifyacademy.com/wk3/week3exercises.zip)

**Debugging Exercises**

For these exercises, see [this image](http://codifyacademy.com/wk3/img/IronGiantScreenshot.PNG" \t "_blank) for what the web page SHOULD look like. Now download each version of this project below, one at a time, and open them in your text editor.  
  
Be sure to open the page in your browser to see what is and isn't currently working, and then examine the code to find the problems.  
  
The final, completed solution code can be found [here](http://codifyacademy.com/wk3/debug/SOLUTION_CODE.zip" \t "_blank).

* [Debug HTML Only](http://codifyacademy.com/wk3/debug/Debug_HTML_Only.zip)
* [Debug CSS Only](http://codifyacademy.com/wk3/debug/Debug_CSS_Only.zip)
* [Debug Both HTML & CSS](http://codifyacademy.com/wk3/debug/Debug_Both_HTML_CSS.zip)

**Project**

***Important: Make sure to add comments to your code.***

This week we will focus on PSD to HTML/CSS Conversion. Select one of the images below, or in Litmos week3, to replicate:

* [Orange Juice](http://codifyacademy.com/wk3/img/OrangePSD.jpg" \t "_blank)
* [Avocado](http://codifyacademy.com/wk3/img/AvocadoPSD.jpg" \t "_blank)
* [Carrot](http://codifyacademy.com/wk3/img/CarrotPSD.jpg" \t "_blank)
* [Tomato](http://codifyacademy.com/wk3/img/TomatoPSD.jpg" \t "_blank)

**Steps For Completing a PSD Conversion**

1. Paper Prototype - Draw out what you want to create and choose what tags and properties you want to use.
2. PLAN THE LAYOUT OF YOUR SITE! It’s critical to plan how you group your HTML elements.
3. Try to recreate the HTML while adding comments to help you understand what the tags and attributes are doing. Reference w3schools and past projects for additional help.
4. Try to recreate CSS while adding comments to help explain what the CSS properties or selectors are doing. Reference w3schools and past projects for additional help.
5. Validate HTML and CSS code to make sure there are no errors.
6. Upload your completed project to Github following the steps in "How to Post a New Project to Github using Git".
7. Check off in Litmos in Week 3 in class project complete.

**Jobs Program**

This week, follow at least four new companies on LinkedIn (such as Yelp, Uber, Lyft, and LinkedIn).   
  
Then, update your skills section of your LinkedIn profile to include HTML, CSS, & Web Development.  
  
Once you’ve done that, post the link to your profile in the class Slack channel. Before class next week, look at your classmates' profiles, find their skills sections, and endorse each of their skills by clicking the "+" icon next to each skill. Be sure to do this for everybody in your class.