Week 5 codify academy

**Week 5**

**In Class Quiz**

1. How do you add Bootstrap to your code without downloading it?
2. To what website do we go, in order to get started with Bootstrap?
3. What is the base, fundamental Bootstrap containing element required in order to use Bootstrap's grid system?
4. How many total ‘columns’ can exist in a Bootstrap row?
5. Do you need both jQuery and Bootstrap’s JavaScript (bootstrap.js) to use Bootstrap’s JavaScript features?
6. Where do you write the code to link both of those JavaScript files to your HTML?
7. Name 3 things which Bootstrap allows you to do easily.

**Group Discussion Questions**

1. Has everyone independently pushed something to Github this week? It’s imperative that you get into the habit of doing so if you want to be a professional developer!
2. How do you connect pages on a multipage website?
3. What is a CDN? Why would you use it? Why would you not use it?
4. What is Bootstrap?
5. Why do we like Bootstrap?
6. What version of Bootstrap are we using? How can we be sure we’re using the correct version?
7. Where can we go to find the Bootstrap documentation or component code?
8. What are the two ways we talked about connecting Bootstrap to your project?
9. When using Bootstrap’s grid system (columns), what containing element class or classes do we need?
10. What's the difference between Bootstrap's container and container-fluid?
11. How many columns are in each row in Bootstrap's grid system?
12. What does "col-6" mean?
13. What does "col-12 col-md-6" mean? What does the "md" mean? Why would we use it?
14. As a Bootstrap class, what do you think "text-center" does? What about "text-white"? "bg-dark"? "w-100"?
15. What does "img-fluid" do?
16. What does the class "mx-auto" do? What are some variations of this class?
17. What does "offset-4" do?
18. Where can you go to learn more about these and other Bootstrap classes?
19. When we connect Bootstrap to our HTML, we use a link tag in our head. Does this link tag for Bootstrap come before or after our link tag for our main.css file? Why?
20. Where does jQuery go on your HTML pages if you're using Bootstrap's JavaScript?

**Exercises**

***Important: Make sure to add comments to your code to help your future self.***

1. Create a copy of your template folder and rename it to week5exercise.
2. Drag this new folder into your 'week5' folder inside your 'codify' folder.
3. Open Github and your terminal/Git Bash. Push your empty week5exercise project to Github before we begin. Refer once more to [this guide](https://files.slack.com/files-pri/T039N7TM0-F8JSX6CAV/new_github_repository_walkthrough.txt" \t "_blank) if you need to.
4. Go to getbootstrap.com, click on “Documentation”, click on “Components”, click on “navbar”, and find a navigation bar with the code displayed underneath.
5. In HTML: Add this navigation bar to your own code, update each href attribute of each anchor element so they each link to a DIFFERENT BOOTSTRAP COMPONENT PAGE.
6. Now resize your page. Your navbar should collapse into a button when your page becomes small enough. Let’s turn that off for now. Look for the class “navbar-expand-lg” in your nav element, and change it to “navbar-expand”. Now reload your page and resize your window again. Your navbar should no longer collapse.
7. Except now that our navbar isn’t collapsing, it looks bad when our window is very small, so let’s allow it to collapse again, but this time at a smaller window size. Find the class “navbar-expand” in your nav element and change it to “navbar-expand-sm” (if you still think it’s looking too crowded before it collapses, try changing that “sm” to “md”).
8. Let’s take advantage of the automatic marigns of a “container”. Add a div with the class of “container” just inside your nav element, so it contains all the content inside the nav (be sure to close it in the correct place!). Reload and notice what changed.
9. Now let’s move our navbar links to the opposite side of the navbar. Look inside the content of your nav element and find the ul inside your navbar. Add to that ul a class of "ml-auto". Reload and notice what changed.
10. In CSS: Now select the nav element in your CSS and change its background color. Reload. Did it work? Why not? Open your inspector and examine the nav element to find out. Once you’ve found out why it’s not working, what can you do to fix it?
11. In HTML: Add a jumbotron below your navigation bar, update the content to explain why we like Bootstrap.
12. In HTML: Below the jumbotron add a bootstrap container, row (inside the container), and three divs inide the row. We’ll be using the three divs inside the row as grid columns, so assign them column class names adding up to 12.
13. In HTML: Add an h2, img, & button element inside each column div.
14. In HTML: Update the content of each div with the title and an image of a company you like. Change the text of each button to “Learn More”.
15. In HTML: Give each image a class of “img-fluid” or “w-50”. Try out both. If you’re not sure HOW these classes are doing what they’re doing, open your inspect and examine your image elements. Look in the Styles tab for the class names.
16. In HTML: Using Bootstrap classes (no CSS), change the color of each button. Look up “buttons” in Bootstrap’s “Components” page for more info.
17. In HTML: Now Wrap each button inside of an anchor which links to each company’s website. Make sure that each button, when clicked, causes the site to open in a new window. (HINT: if you’re not sure how to do this, Google “w3Schools anchor new window”!)
18. In HTML: Now change your column divs so they only occupy three columns each. How can we center them? Try giving each div an additional class of “mx-auto”. What is we want them all centered together, though? How could we use Bootstrap’s margin classes to do this?
19. In HTML: Using a Bootstrap class, give your row a padding on the bottom, so your divs aren’t flush against the bottom of your window. Give your row the class of "text-center" as well, and each of your buttons a class of "my-5". See if you can figure out on your own what these classes are doing using your Styles tab of your inspector.
20. 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 5 exercises when you’re done!
21. NOTE: Once you’ve completed these exercises, try making your page responsive! Be sure to use Bootstrap’s grid system and take advantage of its automatic media queries (“sm”, “md”, “lg”, xl”). Think about how your three column divs should display differently on different device screen. For example, if they remain sitting next to one another, they’ll be far too small on mobile devices!

[Download Completed Week 5 Exercises](http://codifyacademy.com/wk5/week5exercises.zip)

**Project**

***Important: Make sure to add comments to your code to help your future self.***

Again we will focus on PSD to HTML/CSS Conversion, only this time using Bootstrap. In Litmos Week 5 you'll find the [Color Flat](http://codifyacademy.com/week3/advanced.jpg) PSD we will make into a website.

**Steps For Making a Website with Bootstrap**

1. Paper Prototype - Draw out what you want to create and choose what bootstrap elements you want to use.
2. Copy / Paste the Bootstrap example with the elements needed to create a given section.
3. Update any HTML or CSS that needs to be changed from the standard bootstrap example.
4. Validate HTML and CSS code to make sure there are no errors.
5. Upload your completed project to Github following the steps in "How to Post a New Project to Github using Git".
6. Check off in Litmos in Week 5 in class project complete.

**Jobs Program**

Follow four new companies on LinkedIn (such as Adobe, IBM, Unity, and Pinterest).   
  
Create a new pen in your Codepen account, title it “Bootstrap Exercise”, and transfer this week’s exercises into the pen. Remember: only copy over the HTML contained inside your body element (and this time, do not copy any of your new script tags into the pen).  
  
In order to make sure the pen knows we need Bootstrap for this code, you will need to access the “settings” menu, and inside the CSS tab, use the “Quick-Add” dropdown menu at the bottom to add the Bootstrap 4 stylesheet. Then, in the JavaScript tab you’ll need to do the same to enable both jQuery and Bootstrap 4’s Javascript, in that order (remember: bootstrap.js requires that jQuery be loaded first in order to function). Once you’ve completed both of these steps, click “Save & Close” and reload your pen.  
  
Finally, this week you will need to choose a domain name for your future personal portfolio, which Codify will purchase for you and host for free for the first year. This can be a custom name of your choosing, but take care how you choose to present yourself for future employers or clients. Once you have decided, MAKE SURE THE DOMAIN NAME IS AVAILABLE by checking here: https://instantdomainsearch.com/. If it is available, then send a direct message to your mentor over Slack indicating your decision.  
  
If you have not chosen a domain name by this time next week, Codify will purchase a domain using your full first and last name, such as mattbrody.com. We will not purchase another.