

W4 Assignment - CSS Code Review - Lynnette Beatty

Step 2

Review Bootstrap and write-up your thoughts considering the following as you review:

- Is the styling de-coupled from the html structure?

I opened up Codepen and added some Bootstrap code for buttons into my "Kids Read for Fun" HTML. I did not add any additional CSS. Because it was linked to Bootstrap, the buttons showed up! So to answer the question, yes, the styling is de-coupled from the html structure. The Bootstrap CSS is separate, in an external link.

- Try using a few components in a page like [button](#), [navbar](#), or [progress bar](#). (If you visit [Css settings in codepen](#) you can quickly add Bootstrap as an External CSS resource...see the Quick-add box) Can you use them by just using classes or do they require very specific markup to work?

Within Codepen, I linked to Bootstrap through an External CSS resource:

<https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/4.1.3/css/bootstrap.min.css>

I changed the class name of one of the buttons and then it didn't work anymore. So it appears to me that in order for Bootstrap to work, you have to use very specific markup.

I also added a Navigation Bar (partial code):

```
<ul class="navbar-nav mr-auto">  
  
  <li class="nav-item active">  
  
    <a class="nav-link" href="#">Home
```

The class names are semantic and have meaning to Bootstrap.

- Which if any of the philosophies we discussed this week they might be using (BEM, Atomic, OOCSS, etc)?

Bootstrap is very similar to BEM (or Block, Element, and Modifier) in that it uses long class names instead of nesting selectors. However, BEM has class names that are separated by underscores and Bootstrap uses hyphens.

- Are the folders they use well named?

Bootstrap appears to follow the rules of good software development: being predictable, reusable, maintainable, and scalable. Their folders and class names are well thought out and make the code easier to read.

- Check out the variables partial. Imagine trying to customize Bootstrap without that settings file! Consider the advantages Sass gives to both the organization and customization of Bootstrap.

The variables partial file is quite extensive. This provides a huge advantage by being able to change variable values when necessary. Having the Sass files divided up like: `_tables`, `_tooltips`, `_utilities`, allow for better maintainability. This allows for the website development to be worked on by many people within the organization at the same time. Then Sass takes all of these files and they are compiled into CSS.

- If you were a developer working on this code and you were asked to work on something specific...like headline styles...how hard would it be to locate the code and modify it?

It would be easy to locate because Bootstrap uses a semantic naming system. You could find the code quickly and modify it without affecting another part of the design.

- Would you worry about your changes having unintended consequences after reviewing the class names and architecture of that portion of css?

No. Because Bootstrap uses class names for everything, your change would only affect an element with that specific class name. Everything else would remain unchanged.

- Do you like how it is organized? Would you change anything?

Yes, I do like how it is organized. It takes a lot of the guesswork out of selectivity. You are able to design the exact element you want. I don't know much about Bootstrap yet, but I like what I see. So far, I don't think I would change anything - except making it easier to get set up on your computer. That whole process needs to be streamlined.