

### PROJECT 3 - REFLECTION

- a. What did you learn about the importance of implementing responsive design with media queries and viewport meta tag as it relates to users? **I learned that users will access our site using many different sizes of screens, browsers, and internet connections. In order to offer them the best experience when browsing our site, we must do our designs responsive. Fonts, page contrast, the proximity of content and even navigation need to be responsive.**
- b. What issues or challenges did you face implementing LESS or SASS preprocessing? How did you resolve them? **In the beginning, the only struggle I had was installing LESS on my computer. I had to search for video tutorials on how to install it because I didn't really understand what node.js was. Once installed, coding on LESS felt as if I was coding with java or python. The ability to have variables, mixins and nests gave me greater freedom to follow the DRY principle.**
- c. How did you determine what features (mixins, variables, etc.) to use in your project? **For variables, I used them mainly for the colors on the website because if this website was for a real client I would love to have the ability to change the colors of the whole website with just a few clicks. For mixins, I created a mixin to help me center block objects on the page. I didn't want to keep repeating the same code so I felt it was appropriate to use a mixin. For nests, it was easy to see how nesting would help simplify the code by just putting elements inside other elements as in programming languages.**
- d. If you did not face any challenges or issues in completing the project, what do you think are some issues or challenges someone new to creating web pages might face completing a project like this? **The biggest challenge I had in this project was with javascript. I feel that someone completing this type of project would face the same challenge of integrating javascript to the HTML code. Overall this was a fun project I learned a lot about responsive design and preprocessors.**

## VALIDATION SCREENSHOTS

### Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

**Showing results for [http://nova.umuc.edu/~ct386a10/project\\_3/project3.html](http://nova.umuc.edu/~ct386a10/project_3/project3.html)**

Checker Input

Show ☐ source ☐ outline ☐ image report

Check by

[http://nova.umuc.edu/~ct386a10/project\\_3/project3.html](http://nova.umuc.edu/~ct386a10/project_3/project3.html)

**Document checking completed. No errors or warnings to show.**

Used the HTML parser. Externally specified character encoding was UTF-8.  
Total execution time 46 milliseconds.

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### Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

**Showing results for [http://nova.umuc.edu/~ct386a10/project\\_3/preprocessing.html](http://nova.umuc.edu/~ct386a10/project_3/preprocessing.html)**

Checker Input

Show ☐ source ☐ outline ☐ image report

Check by

[http://nova.umuc.edu/~ct386a10/project\\_3/preprocessing.html](http://nova.umuc.edu/~ct386a10/project_3/preprocessing.html)

**Document checking completed. No errors or warnings to show.**

Used the HTML parser. Externally specified character encoding was UTF-8.  
Total execution time 149 milliseconds.

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## The W3C CSS Validation Service

W3C CSS Validator results for [http://nova.umuc.edu/~ct386a10/project\\_3/css/styles.css](http://nova.umuc.edu/~ct386a10/project_3/css/styles.css) (CSS level 3 + SVG)

Jump to: [Validated CSS](#)

W3C CSS Validator results for [http://nova.umuc.edu/~ct386a10/project\\_3/css/styles.css](http://nova.umuc.edu/~ct386a10/project_3/css/styles.css) (CSS level 3 + SVG)

### Congratulations! No Error Found.

This document validates as [CSS level 3 + SVG](#) !

To show your readers that you've taken the care to create an interoperable Web page, you may display this icon on any page that validates. Here is the X



```
<p>
  <a href="http://jigsaw.w3.org/css-validator/check/referer">
    
  </a>
</p>
```



```
<p>
  <a href="http://jigsaw.w3.org/css-validator/check/referer">
    
  </a>
</p>
```

(close the img tag with > instead of /> if using HTML <= 4.01)