Challenge 1 / Refactoring code for Horiseon's website

https://stephcambria.github.io/Refactoring-for-Horiseon/

In order to effectively refactor the source code I was given, my first step was to take note of the immediate issues I found. On the deployed site, there were broken links, images that would not load, and a lack of alternative text. In the source code, I noticed an abundance of div elements, and next to no organization. The easiest way to begin the refactoring process was to make the syntax actually readable, and the way I did this was by indenting a few lines in-between the sections I intended to create in the html file. For example, separating the navigation bar from the main content, and then each individual paragraph section from each other. Similarly, in the stylesheet, I dug through and moved the code around so that not only were all the styled sections together, but so that everything was placed in the order it would appear on the live site. For even further legibility, I added comments as I continued to clean up.

From there, I was able to chip away at the errors with ease. Now that I had the code relatively organized, I decided to keep the process simple and resolve the issues as they appeared in order. First the broken links in the navigation bar, which were fixed by adding the # anchor to the href links. Next was getting the missing images to load, which was a quick fix since the brackets simply were not closed. While I was fixing the images, I added the missing alternative text as I went to enable more accessibility. As I continued the refactoring process, I noticed it was marginally more efficient than I was expecting since I began by reorganizing the syntax to follow the overall page structure. Errors became glaringly obvious, and I could spend less time looking for them and more time troubleshooting them.

I decided to bypass changing all of the div elements into section elements for a while because I wanted to prioritize the core functionality over the details. As long as the code was legible enough, I could always continue to tidy it up as I went, which is exactly what I did.

Surprisingly, there wasn't much I had to troubleshoot as I replaced the <div>s with <section>s. It was an incredibly smooth process. I did take a step back and read up on when using <div> is appropriate, which is why it is used selectively in the syntax. Specifically, I kept it with the cover image, and the benefits sidebar to more easily maintain the style functionality.

To further separate all of the content in the html file, I added the <nav> tag to the navigation bar, and the <main> tag to the paragraph content. This way, the core content of the site is all together and divided accordingly, and the syntax didn't go from a mess of <div> tags to a mess of <section> tags.

Interestingly enough, the only real problem I encountered that stumped me was after I initially deployed the site. Before deployment, my html and css documents were running and displaying perfectly. But after deployment, suddenly my html file was no longer reading my css. I knew the reason why was going to be obvious in hindsight, but in the moment I was completely baffled. After a few hours of digging around online, reading as much as I could, and what felt like

endless trial and error, I finally figured it out. I had the syntax as <link rel="stylesheet" href="style.css">, when it actually needed to be <link href="style.css" rel="stylesheet>. Despite ensuring that the html and css were organized sequentially, I neglected the importance of making sure my stylesheet link was correct. It was so interesting to read about so many people encountering this problem, and trying so many suggestions that didn't work. Ultimately I think it's good to have encountered this issue, though, because I'm sure I'll never make this mistake again!

Below are screenshots of what the final syntax looks like:

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