For my prove assignment I chose to audit the newegg site because I recently had to buy a laptop and it seemed like one that would be interesting to see the performance of since it is geared towards people who need to buy new hardware and so they probably don’t have great hardware to begin with. I was surprised to see that they had such awful performance, with a score of only 36 in performance, and even more surprised to see the reasons why. For one thing, they focus a lot on javascript, which makes sense for an online retailer that needs to call the backend to get products and deals, but the weird thing about it is that after getting past the fact that there is a lot of javascript to run one of the big issues with it is that a lot of it is stored on a “third party” site so they have to request it from a different endpoint. It’s still a newegg domain, but a different one, so why not just host it in the same area since it has to run on every page anyway. They also use uncompressed images with some being as large as 700kb, and almost every single one still being a png or jpg rather than a webp or avif. The two worst things that I saw which could be so easily fixed were the fact that they had 3004kb of unused css, didn’t defer offscreen images, and had unminified javascript. A lot of these issues are essentially formatting issues that could be solved in a few minutes. I would ensure all images are in a web preferred format, use a linter and minifier that would clean up unused code and takeout whitespace, and definitely defer the images that aren’t even rendered on the page to be loaded in the background after everything else is done.

1. **What was the most impactful thing(s) you learned this week and why do you think so?**

**I think learning about how selectors are processed by the browser from right to left is one of the most impactful things that I learned this week. This is partly because I’ve already known about linters, minification, and lighthouse, but also because it is really interesting to me that it goes from the side where normally you don’t feel you need to be as specific over to the ones where you would normally be a little bit more specific. I feel like just changing how I select things will have an interesting impact on my performance.**

1. **What questions do you have about this week's chosen topic(s) and/or exercises (first-time students) or websites you are working on (repeat students)?**

**I wonder how much learning about css and ensuring that it is running as efficient as possible will effect performance, because I’ve heard from a lot of professors even that css doesn’t really matter that much on performance.**

1. **Would you like specific feedback from your instructor? If so, what things would you like feedback on? (Please contact your instructor or use their method (such as Canvas calendar, email, Slack, or MS teams) to meet with your instructor or find out if they are having office hours.)**

**No**

1. **Where would you go next to learn more about this week's topic(s)? Give 2-3 links to resources that look promising to help answer the questions you indicated in the quiz question above.**

**Here is a video about** [**front end performance**](https://www.youtube.com/watch?v=VPQo0LBrVwM)**, an** [**article by Cody Arsenault on frontend optimization**](https://www.keycdn.com/blog/frontend-optimization)**, and an** [**article by Feilin Liangga Putri on frontend performance techniques**](https://www.greatfrontend.com/blog/front-end-performance-techniques)**.**

1. **Did you participate with the class on Microsoft Teams or Slack? (You can participate by asking a question, answering a question, or sharing a resource you’ve found. Or you can share your thoughts on what you’re learning this week. Or you can answer any questions your instructor might have given in their announcement.)**

**Yep**

1. **Please rate your success with learning and this week’s work on a scale of 1 to 4.**

I would probably rate myself around a 3.8 because I already knew quite a bit about linting and minifying both css and javascript to improve performance, but I also think there is a lot to learn about file structures for improving the performance that wasn’t really talked about and that I don’t know a whole lot about that would be interesting to get further into.

* Please rate yourself at the level you feel most closely matches your learning; 1 is the lowest rating and 4 is the highest.
* Feel free to use decimals if you feel you must.
* Your answers to questions 1 through 4 are your justification for your rating.
* This is most of your grade for your reflection, you also receive one point for submitting the other required items.
  + Your instructor won’t grade your assignment until you submit the required items (screenshot, zipped files, etc.)
* If your instructor disagrees substantially with your rating, they can raise it or lower it to signal to you their expectations.
* If your instructor lowers your rating, your instructor might contact you to arrange a meeting to see how they can help you. Feel free to reach out to them as well.