

Lab 8 – Accessibility Individual Work – Katie Solokhina

1. Using the NVDA reader, I realized how hard it is to navigate through our website if I was blind. A lot of the information was not read to me so I missed out on images, on a lot of the text that was on our site and a lot of the buttons that we are supposed to use to continue to add funds to the website. Also, when filling out any forms all I heard was that it was a field, and it wasn't specified what I needed to enter in each field. I am not sure if there was a way to make the NVDA reader read everything on the page but if there isn't then a user who is blind would unfortunately not be able to use our website until we make the proper changes.
2. Being color blind – I used a google chrome extension called colorblindness instead of Color Oracle because it wasn't allowing me to navigate through the site with the color vision impairment. The Google Chrome extension however works live and allows you to click on everything and navigate through the perspective of a colorblind person. It offers the following features: normal color vision, protanopia(red-blind), deuteranopia(green-blind), tritanopia(blue-blind), protanomaly(red-weak), deuteranomaly(green-weak), tritanomaly(blue-weak), achromatopsia(monochromacy), and blue cone monochromacy/achromatomaly. In normal color vision, our theme colors were mainly white and different shades of blue and our valid/invalid fields were highlighted green/red, respectively. When I looked with red-blindness, the site theme was white with different shades of purple, the invalid fields were a goldish-brownish color and the valid fields were similar but grayer. For green-blindness, all of it was similar except the site was a little darker in all aspects – themes and valid/invalid fields. With blue-blindness, the theme was white and different shades of a teal color, the invalid fields were red like normal but the valid fields were also a teal color. The weak color visions and the blue cone monochromacy weren't as strong so I was still able to tell what was valid/invalid. Lastly, the achromatopsia color vision strongly affected my ability because it made everything different shades of gray. So, protanopia, deuteranopia, tritanopia and achromatopsia color blindness hindered the use of the website since I wasn't able to tell whether the fields that required an input were valid or invalid.
3. I stood 5 feet away from my computer, since I have bad vision, at that point a lot of the words were already really blurry when I wasn't wearing my glasses.
4. Turning off my volume did not affect my experience since our website does not use any sounds.
5. I disabled my mousepad and I was able to navigate through the top menu bar using my tab and enter key, and was able to navigate to text fields to input numbers using the tab key as well. On the page that showed my MetroCard Balance I was only able to select check new card, I wasn't able to proceed to add funds. On the page where I add funds (I had to click on it in order to test it out), I was only able to navigate to the text field and wasn't allowed to navigate through the other price options, and was also unable to proceed to the next page. On the submit order page, I was easily able to navigate through the fields, tab to go forward and shift + tab to go backwards, however again I was unable to submit this page. Same thing with the support page – I was able to navigate through the dropdown menu using my arrow keys through the form with my tab key but was unable to submit the form.

Some of my suggestions for accessibility changes are:

- Change all of our buttons from regular links to actual buttons.
- Give all of our images an alternate text attributes.
- Give valid/invalid field feedback to the user by writing text not just but highlighting the field, because colors can't always be seen.
- Our font size is decently big as it is, but maybe we can make it bigger on hover so that people who are visually impaired can see it better.
- Allow users to click on links and buttons by using the enter key.
- Give all of our form inputs a label to describe what input is supposed to go into the text box.

According to WAVE technology I had the following errors:

Home Page:

- Missing alt text for the MetroCard image
- Missing or uninformative page title
- Document language missing
- Alert – missing first level heading

My Card Page:

- 4 Missing alt texts (on each content page for the MetroCard images)
- 12 Missing form labels
- Missing or uninformative page title
- Document language missing
- Alert – missing first level heading

Support Page

- 2 Missing form labels
- Missing or uninformative page title
- Document language missing
- Alert – No heading Structure