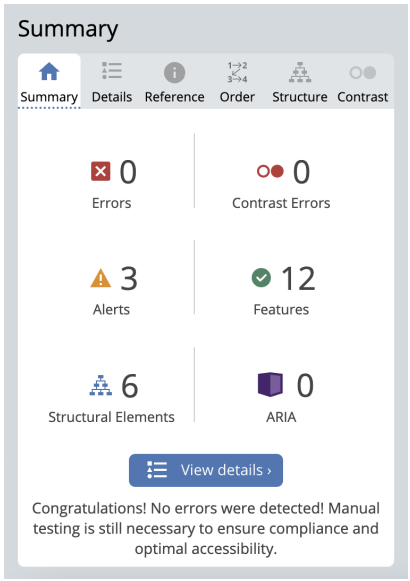
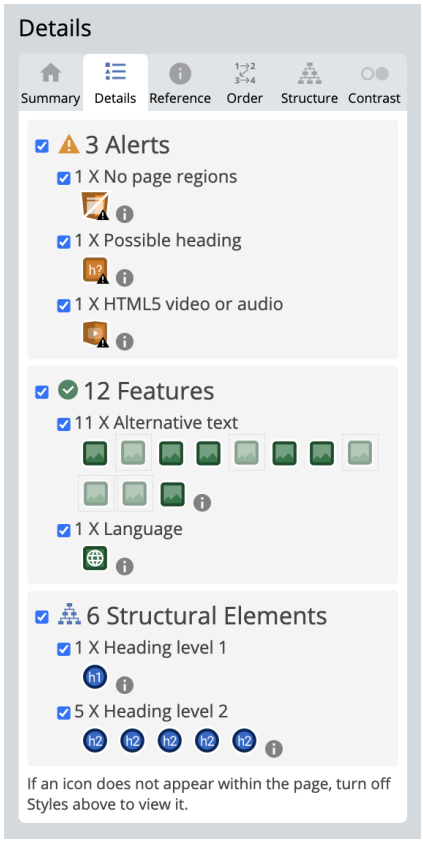
Claire Cheong Final Project

Webpage link: https://ccheong99.github.io/pui-final-project/

Responsive Design: The design can be tested in a desktop screen size of 768px-1440px and a tablet screen size of 574-768px.

Accessibility:





Part 1:

The purpose of my website is to make an interactive and informative website for raising awareness of digital carbon footprints and provide information on how to make websites more sustainable. It is interesting and engaging because visitors are able to visually experience how eco-conscious design decisions impact the visual elements. The target audience and designers who are not aware of the impacts of digital carbon footprints

and those who are willing to learn best practices for making eco-conscious design choices.

Part 2:

- Expand and collapse boxes to read more information
    - Click the arrow pointing up right to read more information about digital carbon footprints
    - Click the arrow pointing down right to read more information about color choices
    - Click the arrow pointing down left to read more information about font choices
    - Click the arrow pointing up right to read more information about images and videos
- Drag the circular slider to observe how eco-conscious design choices gradually make an impact on the visual design of the website
    - Step 1: Change in videos and animation (video is changed to a static image, animation is stopped)
    - Step 2: Change in color and image (color scheme is changed and image is dithered)
    - Step 3: Change in font and image (font is changed and image is changed to green monotone)

Part 3:

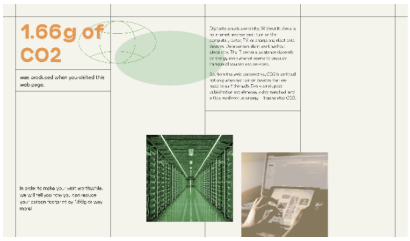
External tool used: GSAP

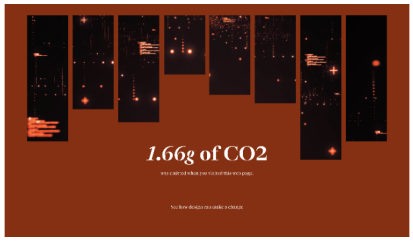
I chose GSAP because it is an industry standard Javascript animation library and most importantly, it had the functionality that I needed for my website. The draggable plugin of GSAP enabled me to drag the circle along a non-linear path, which I found very difficult to do using only Javascript. Since dragging the slider to visualize changes in design is a central functionality of my website, this library helped me add the most important and interesting element for visitors to interact with.

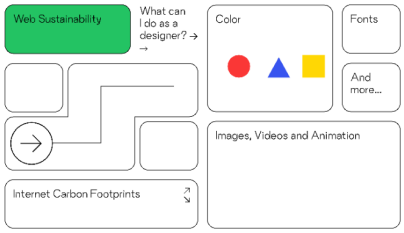
Part 4:

Initially, I opted for more of a long, informative website with micro interactions. However, in the lab session, I got the idea to show the changes in design and how it affects the CO2 emission by adding a slider in the home page. I thought it was very helpful advice, and decided to make a major change in the design to reflect this idea. This is how I arrived at the second version. However, I thought that a modular design would make it

easier to read information, as well as experience the different changes that would be made in the web design as you drag the slider. Therefore, I made another pivot to the third layout, which I ended up using as my final design for the project.







Part 5:

I believe the major challenges that I faced was regarding the responsive layout and slider functionality. Although laying out the responsive modular design for different screen sizes did not seem to be a difficult task at first, it posed a challenge because I had to make them expand and collapse. Also, although I had succeeded in making a linear draggable slider, it was extremely difficult to make it move along a designated path. Therefore, I utilized the GSAP library and a SVG path to develop the functionality.