

Creating a Browser Extension for Accessibility

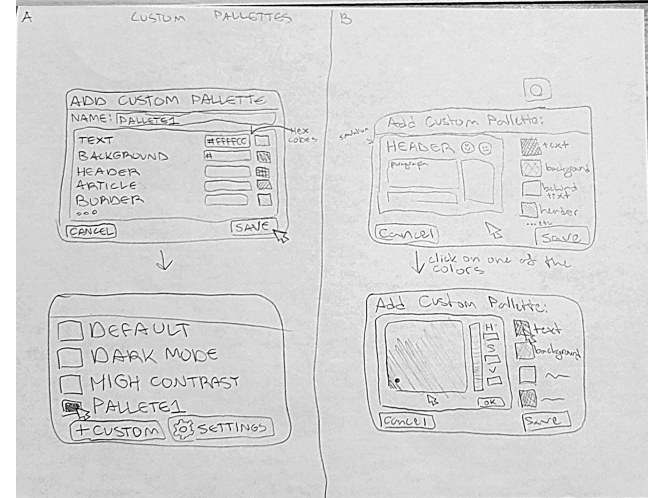
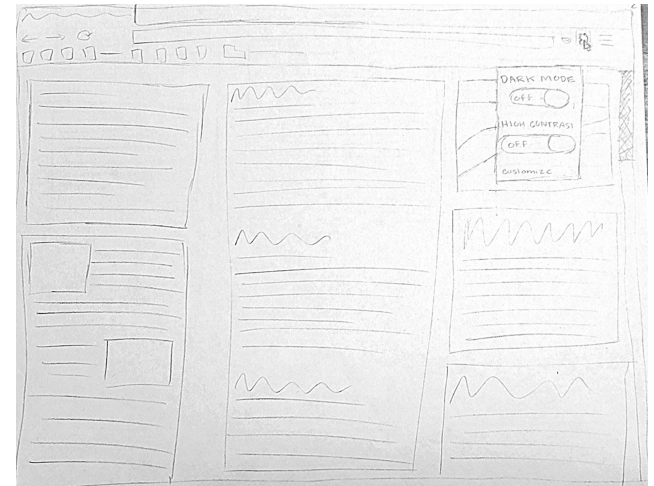
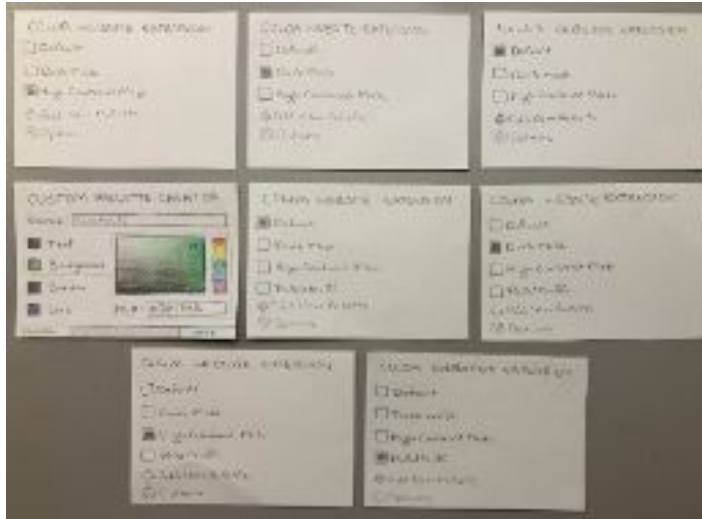
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Problem

The problem we have observed is the lack of dark mode or high contrast mode on various commonly used websites. Our project would implement a browser extension that would create dark mode and/or high contrast mode for websites that do not natively have one.

Design Concepts & Prototypes

We created several options for how the extension could look and function.



Test Procedure

We wanted to test people's ability to launch the extension and use the extension for its intended purpose. We measured the number of times it took the user to open the extension and the amount of time it took for them to turn on each mode (dark mode, high contrast, custom colors).

We also got feedback about the actual usability and design of the website through a heuristic evaluation, focusing on visibility of system status, match between system and the real world, aesthetic and minimalist design

Test Results

We learned that using hex codes for entering colors is confusing since not everyone knows what they are or how they work. We also got feedback about how to improve the design of the popup.

Demo

demo here: https://thebiene.github.io/cs299_project/test.html