

Responsive:

- Mobile: 425px by 1242px
- Tablet: 768px by 1242px

Part 1:

For my final project, I created an informational website, and the purpose of this website is to allow users who are cereal lovers, specifically those who like Honey Brunches of Oats cereal, to get more information about the different varieties of the cereal and learn about the specifics of each variety. On my website, I provide key information such as the ingredients in a certain cereal and at which stores they're sold. Additionally, I also give a general overview of the cereal brand and added a tree that shows the taxonomy of the different cereal grains. The website is interesting and engaging because it shows all of the different varieties, even ones that are not as well-known, all in one place. The cereal brand Honey Bunches of Oats has a lot of different varieties, however, not all of them can be found at the same stores, so I wanted users to be able to quickly and conveniently find out where they could buy a certain variety. As mentioned above, the target audience is people who like Honey Brunches of Oats cereal and want to get more information about the cereal. When I conducted research at the start of the project, I found that people who liked this cereal brand often only kept buying the same variety, most common was the Honey Bunches of Oats Honey Roasted, so through this website, I wanted to allow users to explore and possibly expand their cereal palate. While I have a very specific target audience, I think that even those who may not have tried Honey Bunches of Oats cereal might realize that they want to try it and even for those who might not like the cereal might find that they want to try a different variety that they had not tried yet.

Part 2:

- When a user hovers over a variety on the Cereals page, the cereal will be zoomed in.
- Also when a user hovers over the cereal name on the Cereals page, the text color changes to orange.
- On the Cereals page, the cereals can be sorted A to Z after clicking on the "Sort By A-Z" button.

- On hover, the nav links will turn light yellow.
- After clicking on a specific cereal, users will be navigated to that specific cereal's page, where they can hover over the image, then the image shakes.
- On the Taxonomy page, users can click on the different nodes on the taxonomy tree and each node will expand or collapse.
- Clicking on the logo (top left) will bring users back to the Cereals page.
- On mobile, the top nav links will move into a hamburger menu.

Part 3:

- I used the library d3.
 - I chose d3 because I wanted to visually represent the taxonomy tree. Also, I found that d3 had a tree diagram that matched what I was looking for.
 - I used it to create tree diagram. The diagram can allow users to see evolutionary relationship between the grains.
 - It provides information about the taxonomy of the different cereal grains. The tree collapses and expands depending on how much the user wants to know.
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- I used the library list.js.
 - I chose to use list.js because it allowed me to easily sort the various varieties on the Cereals page. This library enabled me to sort varieties alphabetically.
 - I used list.js to create the sort by feature. List.js is well-documented so I found many helpful videos on how to incorporate a sorting feature.
 - Users can now more conveniently find a specific cereal. It also provides additional ways the user discover new varieties.
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- I used the Google Fonts API.
 - The Google Fonts API has a lot of different fonts that can be easily incorporated. I wanted my website's logo to stand out from the rest of the text.
 - I found a font on Google Fonts that was had rounded corners and and was a Sans serif. I selected this font since it reminded me of a cereal brand's logo.
 - It allows the logo of my website to stand out on the nav bar. In effect, the logo is visually different from the rest of the other text.

Part 4:

Since the start of this project, I've made many changes: reducing the number of images shown for each specific cereal's page, changing how the cereals are displayed on the Cereals page, and adding a tree diagram using d3 instead of having a static image. I decreased the number of images because I had a hard time making the original grid layout responsive. I also originally had a 2 row layout for the cereals on the Cereals page, but again, as I was trying to make my website responsive, I found that a 2 column layout was better for responsiveness. I included the tree diagram rather than a static image in my final iteration because I got feedback that the diagram was much easier to understand.

Part 5:

One challenge I faced was figuring out how to include d3 in my code. Since I didn't have much knowledge about the library, I had to do a lot research to determine if I could use it then learn how to use it. Another challenge was the "sort by" feature on the Cereals page. I had a hard time figuring out the best way to implement this since I did not know much about list.js so had to look up tutorials.

Appendix:

Cereals Page

Note: error has to do with the hamburger menu, have spoken to TA Steven about this.

The image displays two screenshots of the WAVE (Web Accessibility Evaluation Tool) interface, powered by WebAIM. The tool is used to evaluate the accessibility of web pages.

Left Screenshot: Summary View

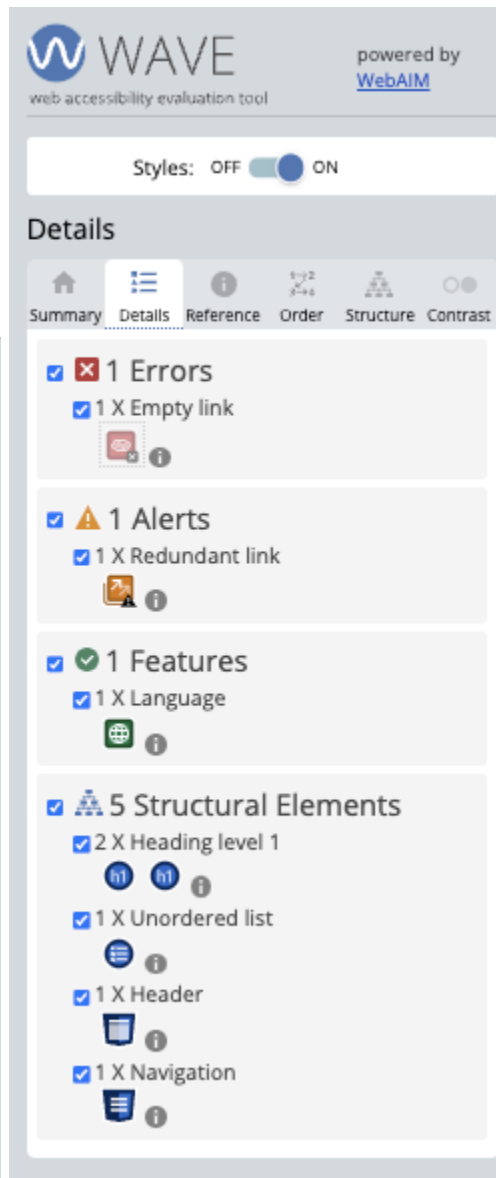
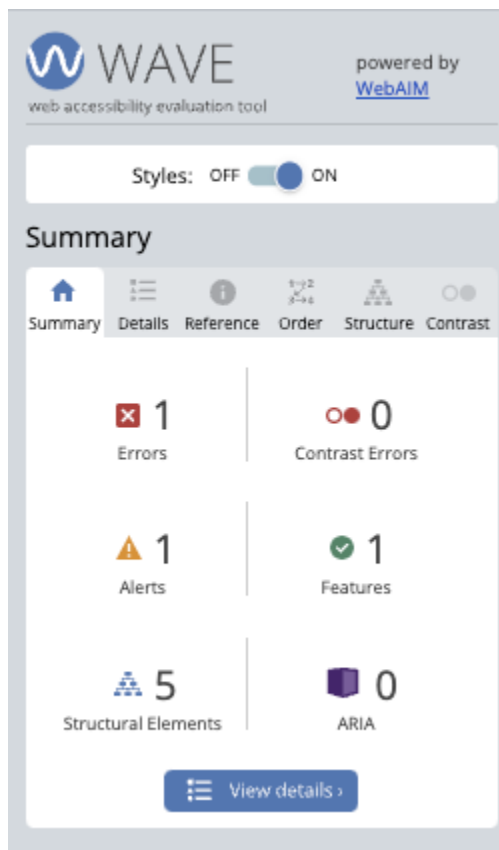
- Header:** WAVE logo, "web accessibility evaluation tool", and "powered by WebAIM".
- Styles:** A toggle switch set to "ON".
- Navigation:** Home, Details, Reference, Order, Structure, Contrast.
- Summary Data:**
 - 1 Error (red X icon)
 - 0 Contrast Errors (red circle icon)
 - 9 Alerts (yellow triangle icon)
 - 9 Features (green checkmark icon)
 - 5 Structural Elements (blue triangle icon)
 - 0 ARIA (purple square icon)
- Action:** "View details" button.

Right Screenshot: Details View

- Header:** WAVE logo, "web accessibility evaluation tool", and "powered by WebAIM".
- Styles:** A toggle switch set to "ON".
- Navigation:** Home, Details, Reference, Order, Structure, Contrast.
- Details Data:**
 - 1 Errors:**
 - 1 X Empty link (red X icon)
 - 9 Alerts:**
 - 9 X Redundant link (yellow triangle icon)
 - 9 Features:**
 - 8 X Linked image with alternative text (green checkmark icon)
 - 1 X Language (green globe icon)
 - 5 Structural Elements:**
 - 1 X Heading level 1 (blue H1 icon)
 - 2 X Unordered list (blue list icon)
 - 1 X Header (blue header icon)
 - 1 X Navigation (blue navigation icon)

Taxonomy Page

Note: error has to do with the hamburger menu, have spoken to TA Steven about this.



Specific Cereal Page

Note: error has to do with the hamburger menu, have spoken to TA Steven about this.

The image displays two views of the WAVE web accessibility evaluation tool interface. The top view is the 'Summary' view, and the bottom view is the 'Details' view.

Summary View:

- Header: WAVE web accessibility evaluation tool, powered by WebAIM.
- Styles: OFF (toggle switch) ON.
- Summary View: Shows a grid of results.

Category	Count
Errors	1
Contrast Errors	0
Alerts	2
Features	2
Structural Elements	7
ARIA	0
- Navigation: Summary, Details, Reference, Order, Structure, Contrast.
- Buttons: View details >

Details View:

- Header: WAVE web accessibility evaluation tool, powered by WebAIM.
- Styles: OFF (toggle switch) ON.
- Details View: Shows a list of issues.
 - 1 Errors**
 - 1 X Empty link
 - 2 Alerts**
 - 1 X Skipped heading level
 - 1 X Redundant link
 - 2 Features**
 - 1 X Alternative text
 - 1 X Language
 - 7 Structural Elements**
 - 1 X Heading level 1
 - 3 X Heading level 3
 - 1 X Unordered list
 - 1 X Header
 - 1 X Navigation
- Navigation: Summary, Details, Reference, Order, Structure, Contrast.