

Team Members: Erica Fong, Kate Miller, David Nguyen

Github Repo: <https://github.com/katekaho/cereals>

Hosted at: <https://katekaho.com/cereals/>

Our group mainly worked in a pair programming style, where one person was driving/coding at a time while the others would help direct and look up resources. We felt like the work was split pretty evenly until visualizations started. Kate had more experience with React, so she worked on the visuals and app. David and Erica worked on remethodizing and perfecting health score calculation to be more precise. At all times, if any of us had trouble, we were able to seek help from other members.

- Cleaned cereal dataset, normalized all values to 1.5 cups of cereal (avg bowl size)
- Cleaned USDA
 - ingredients dataset to include only same cereal manufacturers as in cereal dataset
 - Removed duplicate cereals in USDA ingredients dataset
- Mapped cereal names from cereal dataset to cereal names in USDA ingredients, able to get 33/76 cereals with ingredients
- Brief Ingredient analysis
- Calculating health scores for all cereals based on person's nutrition preferences
 - 1st method: bin values into specified bin with score value then multiply by weight/rank of category
 - 2nd method: reverse list, normalize data then multiply by weight of category
- Web scraping from Walmart to get cereals in various categories - vegan, organic, gluten free
 - Got name, rating, cost of cereal
 - Mapped the names from these categories to cereal database
- Visualization
 - Layout, design, content
 - React
 - Recharts for pie chart, bar graph, and scatter plot