

Know Food Proposal

Basic Info

- Project title: Know Food
- Our names: Sophie Veksler and Mara Evans
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- IDs:
 - Sophie: 431181
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- A link to the project repository: <https://github.com/washuvis/fastfood>

Background and Motivation

We were motivated to pursue this topic because fast food is something almost everyone eats. As college students, our eating habits are not always the best and we wanted to know how healthy we could be while still eating fast food. We were also intrigued about whether fast food restaurants that present themselves as healthy are actually healthier than other fast food options

Project Objectives

The primary questions that we are trying to answer are:

- Is there a healthier way to eat fast food?
- Which restaurants have the best options for healthy eating?

The benefits that will come from this project are:

- Find healthier options more easily
- Being able to compare similar food items (potentially from different restaurants) based on criteria that is important to you

Data

Link to data set:

- https://docs.google.com/spreadsheets/d/1ofyLb_6qRHhURGcFbiXldblmrNkqvFyoqtZZBgXn34/edit

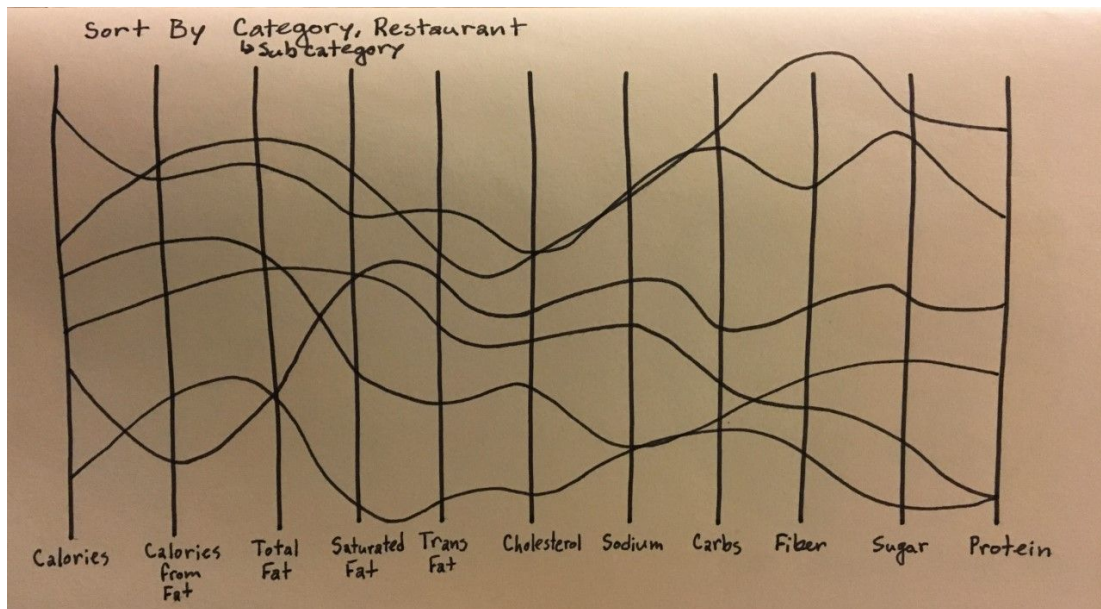
Source of data:

- <http://fastfoodnutrition.org/>

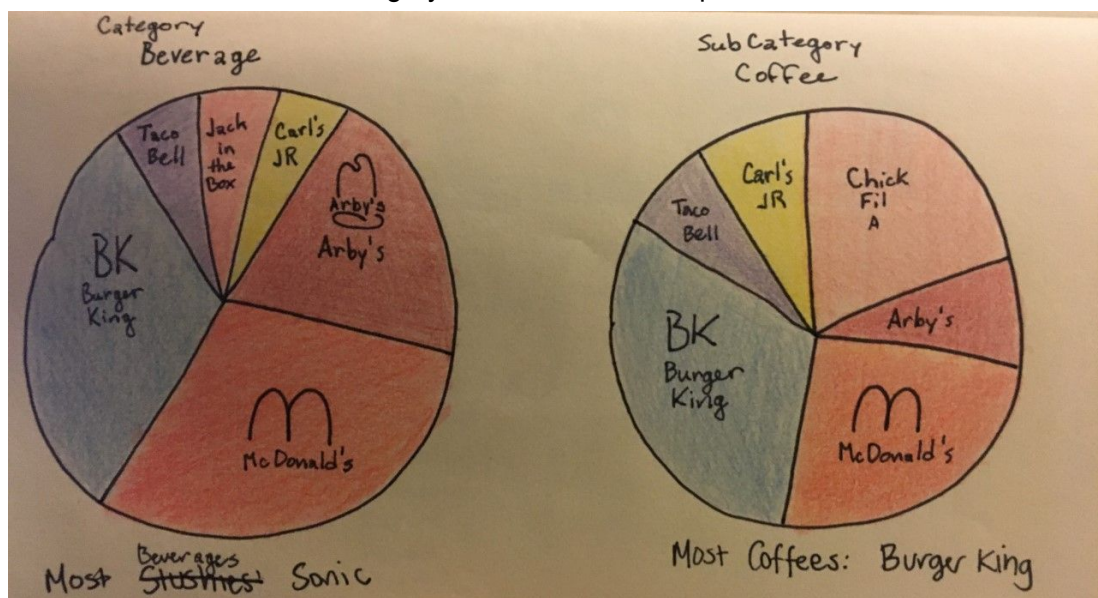
Data Processing

Because of the way that the data was formatted on the website that we obtained it from, we had to do a substantial amount of manual cleanup while making it into a CSV. We also had to find values that were not in our original data set. Additionally, we added certain columns to the data (Restaurant, Category, Subcategory), which took some improvisation on our part (ex. Is a taco a sandwich?). Our data includes food information such as calories, total fat, cholesterol, sodium, etc.

Visualization Design









We decided that a parallel coordinates graph would be a good way to see all the different items for a category or restaurant in one place.



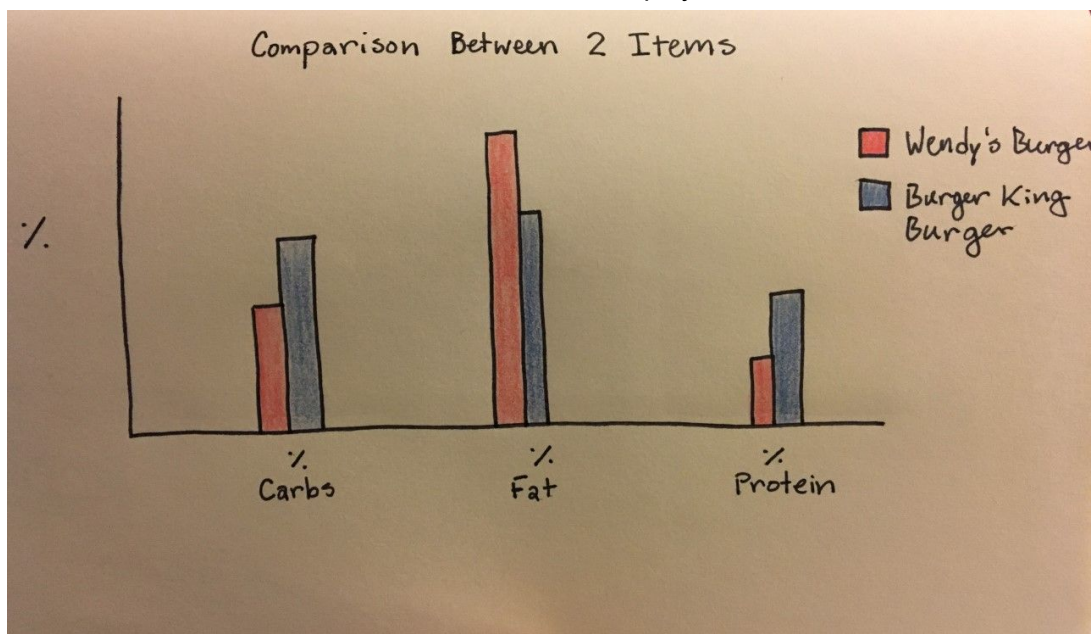
These pie charts will show the proportion of items each restaurant serves from a category. The subcategory chart will do the same, displaying the appropriate portion for each restaurant.

Restaurant

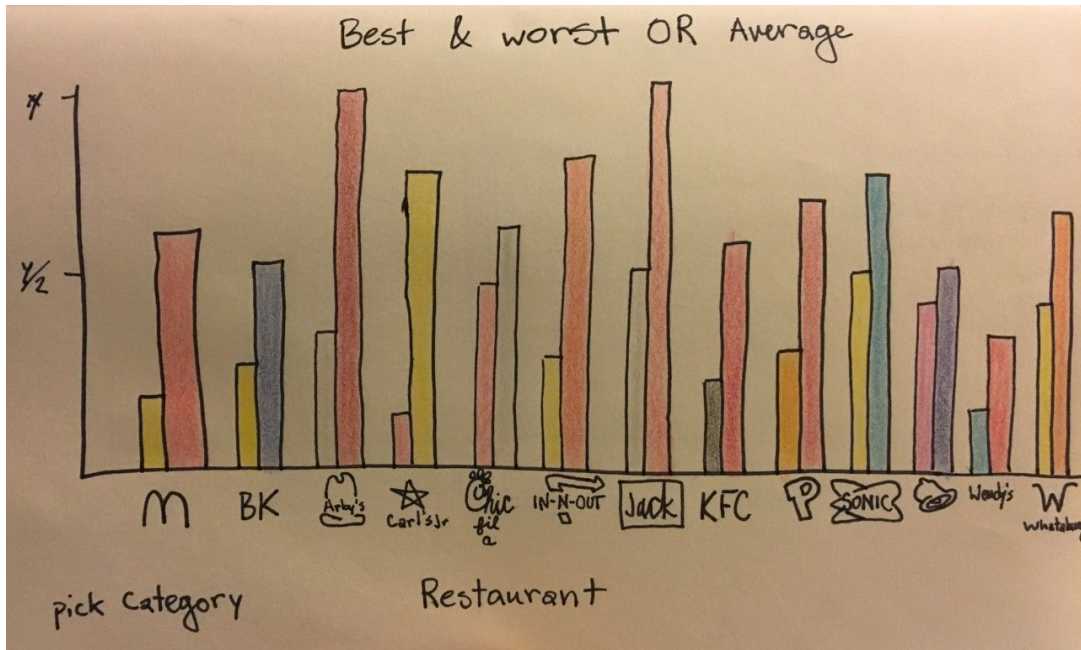
Sandwich or Chicken	Salad	Condiment	Side	Dessert	Beverage
					
Pick Item	Pick Item	Pick Item	Pick Item	Pick Item	Pick Item

Calories	:
Calories from Fat	:
Total Fat	:
Saturated Fat	:
Trans Fat	:
Cholesterol	:
Sodium	:
Carbs	:
Fiber	:
sugars	:
Protein	:

This visualization allows a user to pick a restaurant and then pick items to build a meal. The nutrition information will be displayed as well.

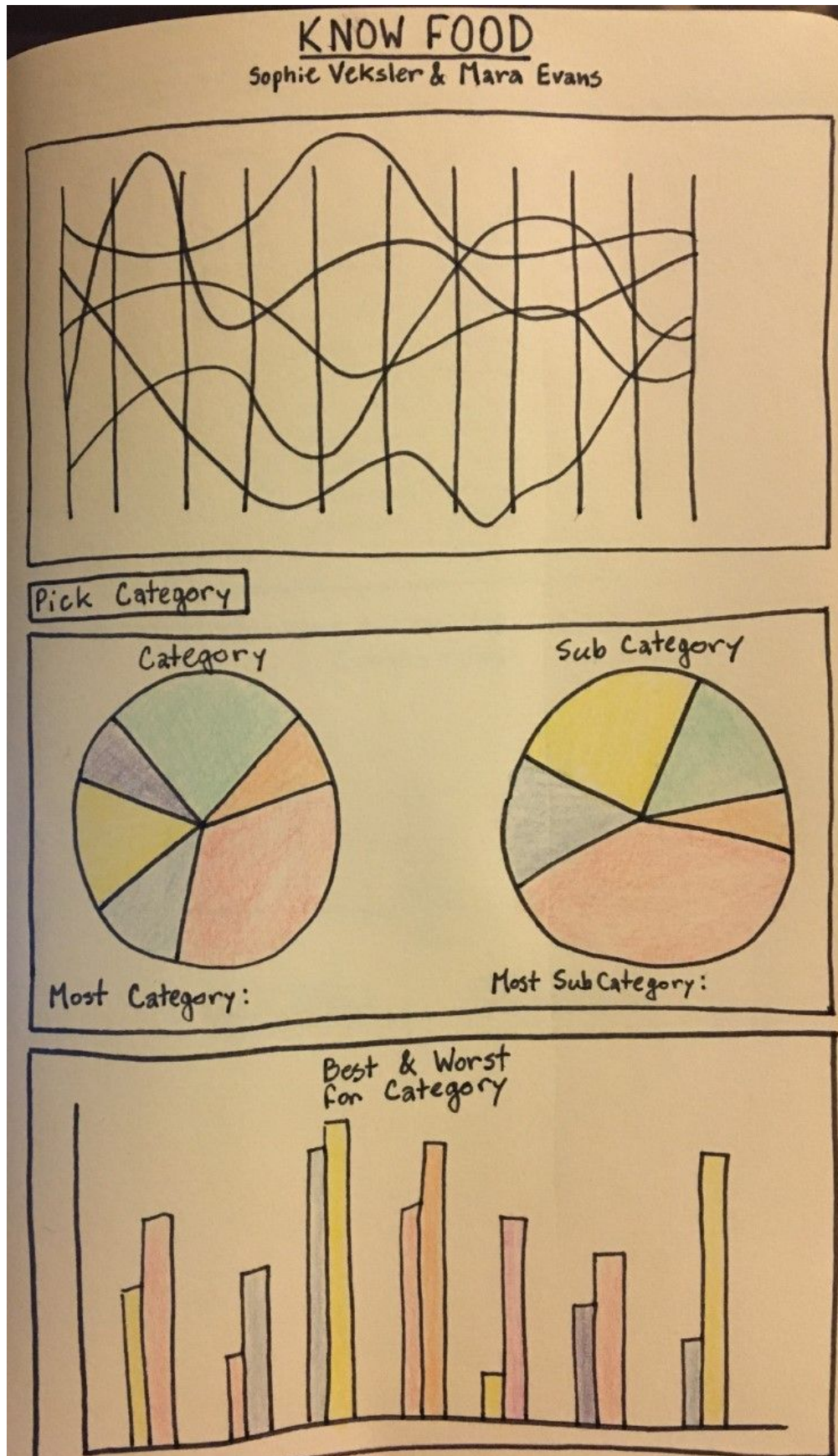


The bar graph shows the comparison between two items in terms of Carbs, Fat, and Protein.


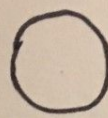
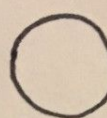
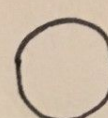
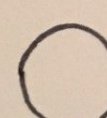
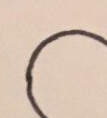


The visualization shows the best and worst of a category for a certain nutritional element. The user can also decide they would like to see an average instead of the best and worst option.

Layout

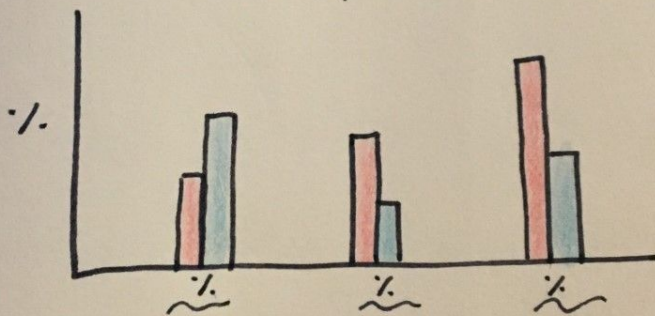


Pick Restaurant

					
<input type="text" value="Item"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

~~~~~	:	~~~~~
~~~~~	:	~~~~~
~~~~~	:	~~~~~
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Comparison



Must-Have Features

- Parallel coordinates
- Comparing the breakdown of categories per restaurant
- Making a meal (and seeing nutrition facts of that meal)

Optional Features

- Best and worst/average per category per restaurant
- Having logos featured within visualizations
- Comparing two items' nutrition values to each other

Project Schedule

- 4/5: Be able to access website with placeholders
- 4/12: Make sure that our prototype has rudimentary versions of our different visualizations and views (no hovering, no tooltips, no animations)
- **4/13: MILESTONE 1: FUNCTIONAL PROTOTYPE**
- 4/19: Implement hovering, tooltips, animations
- 4/26: Final tweaks, clean up UI
- **4/27: FINAL PROJECT SUBMISSION DUE**