Dataset: Nutrition data

Source: http://rosmarus.refsmmat.com/datasets/datasets/nutrition/

User Tasks to Support How my Dashboard Supports User Tasks Understand organization of On the left sidebar, there is a hierarchical packed circles chart that the major food groups and shows: sub-groups (descriptions). 1) the different major food groups and their sub-groups/descriptions and **Understand data** 2) the relative amounts of each food organization that fall into each category (via a size encoding applied to the circles) When a user clicks on a circle, the visualization zooms in to show the sub-groups. Implementation referenced from here. Food Groups Overview Food Groups Overview Food Groups Overview See the vast array of foods A scrollable table in the main view of the dashboard shows the name of all present in the dataset as foods included in the current text. View the raw data search/filter parameters along with the major food group that it is a part of. Implementation referenced from here. fruit leather,roll Filter by food group: All Filter by food group: All Search for a Food & Understand its ! soup Filter by food group: All Type a food here... Food Group Food Group Group BABYFOOD,DINNER,... Processed Foods BUTTER,WITH SALT Dairy and Egg SOUP,CRM OF ASPA... Soups, Sauces, and G. BUTTER,WHIPPED,WI.. Dairy and Egg FRUIT LEATHER,ROL.. **Processed Foods** SOUP,BLACK BEAN,C... Soups, Sauces, and G.. BUTTER OIL ANHYDR Dairy and Egg SOUP,BEAN W/PORK,... Soups, Sauces, and G.. CHEESE,BLUE Dairy and Egg

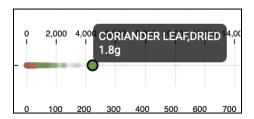
Examine distributions	See the relative amount of different types of fat in subsets of food / for a given food.	top, allowing a user to examine the distribution of the attributes for a given major food group. A horizontal bar chart shows the relative amounts of saturated, monounsaturated, and polyunsaturated fat across either all the data, a subset of the data, or for a specific food, depending on given search criteria. A tooltip allows users
	See the distribution of vitamins and minerals for different foods.	to view the exact chart values. Two series of dot strip plots show the distribution of vitamin/mineral values for the data colored by major food group, which can be filtered by both the text input search box and by the major group dropdown filter.
	Discover foods based on a specific vitamin/mineral value.	The <u>dot strip plots</u> are hoverable and contain a <u>tooltip</u> showing a food's description and its weight in grams.
Vitamins & Minerals Vitamins (mg) Minerals (mg)		
Core Core Core Core Core Core Core Core	Amount of Fat (g) Sat	00 40,000 60,000 80,000 100,000 100,000 Aun - 00 50 50 50 50 50 50 50 50 50 50 50 50
Cost	Amount of Fat (g) Sat - Mono: 5.674 Mono - Poly - 4 Mean	2,000 4,000 CORIANDER LEAF, DRIED 4,00 1.8g

See a food in context of other foods

Understand a given food's vitamin and mineral nutritional value in context with other foods.

The <u>dot strip plots</u> are hoverable and contain a <u>tooltip</u> showing a food's description and its weight in grams.

Moreover, the rest of the dots become reduced in opacity while the hovered dot is highlighted.



Search for a specific food.

A <u>text input widget</u> at the top of the main view lets users search for a given food.

Users can type or copy/paste the exact food name into the search bar and it will filter the fat types bar chart

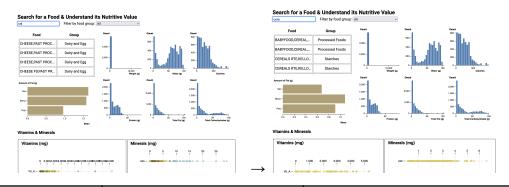
single value.

Search for a good/foods

See the descriptions of foods that match unfinished search criteria.

The visualizations will update even with incomplete input (for example, if "sou" is typed, then results for "soup" and anything containing the substring "sou" will still appear).

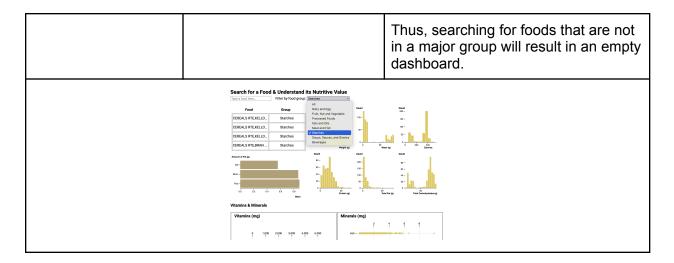
and the dot plots to display data for a



Filter all information by food group

Quickly filter displayed data to only show a major food group of interest. A <u>dropdown widget</u> at the top of the main view lets users filter the displayed data by a single major food group.

Important: when a food group is selected, that filter takes precedence.



Overall view of full dashboard

Important: It loads very slowly, especially for text input. However, it does eventually filter everything and redraw the visualizations properly.

