LAB 1E: What's the Relationship?

Directions: Record your responses to the lab questions in the spaces provided.

Finding patterns in data.

Where are the variables?

- **How many variables were used to create this plot? Which variables were used and how were they used?**

Multiple variable plots

scatterplots

Creating scatterplots

Scatterplots in action

- **Do snacks that have more protein also have more calories? Why do you think that?**

- **What happens if you swap the protein and calories variables in your code? Does the relationship between the variables change?**

- **Does the relationship between protein and calories change when the snack is either Salty or Sweet? Write down the code you used to answer this question.**

4-variable scatterplots

- **Create a scatterplot that uses these 4 variables: sodium, sugar, cost, salty_sweet.**

Multiple facets

- **How does the healthy_level of a Salty or Sweet snack impact the number of calories in the snack?**

On your own

- **Do healthier snacks have more or less ingredients than less healthy snacks?**

- **What other variables seem to be related to the number of ingredients of a snack? Describe their relationships.**