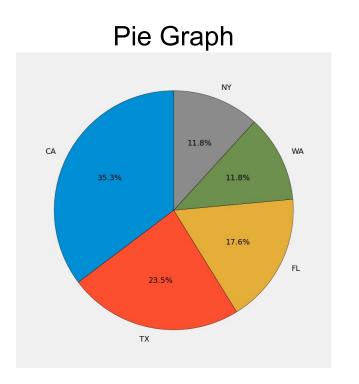
Making Decisions with Visual Data

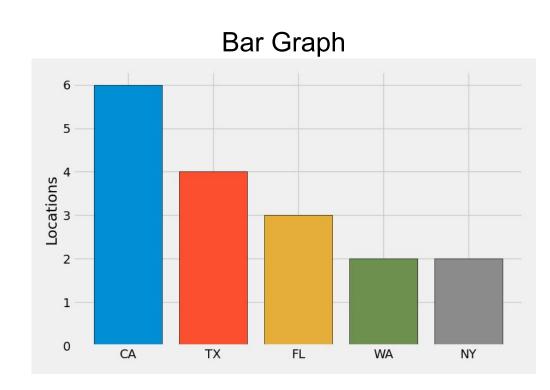
Part 1.1 Visualizing Categorical Data

Taylor Weidman

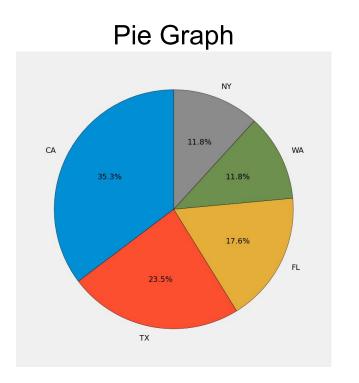
Q. Which state has the most locations?

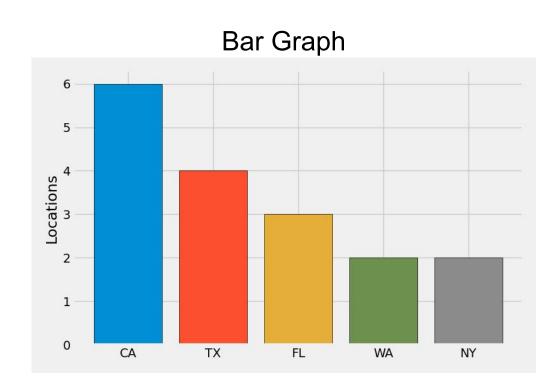
Q. Which state has the most locations?



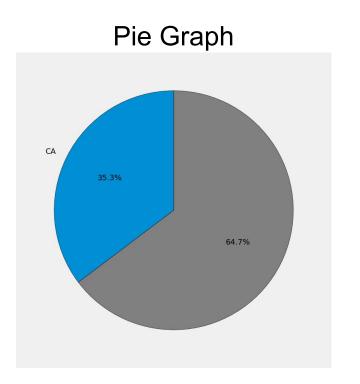


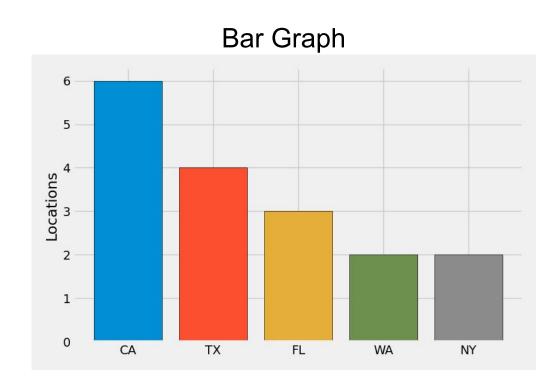
Q. Does Florida (FL) or Washington (WA) have more locations?



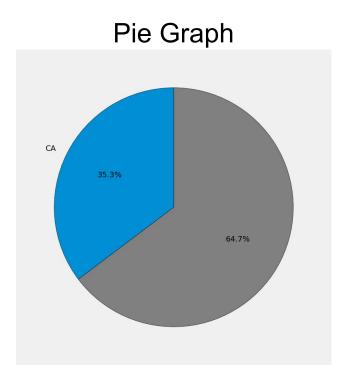


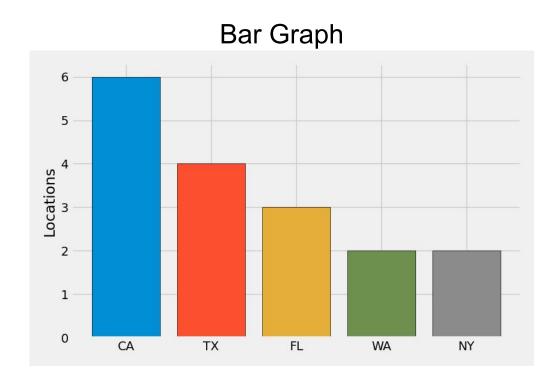
Q. What share of coffee shop locations in CA?





- Use bar graphs to compare values with each other.
- Use pie graphs to compare one value against the total.





Excel Exercise: Categorical Variables

We're going to examine the locations of coffee shops by State.

- Data: Coffee_Shops.csv
- Bar Graph
- Pie Graph

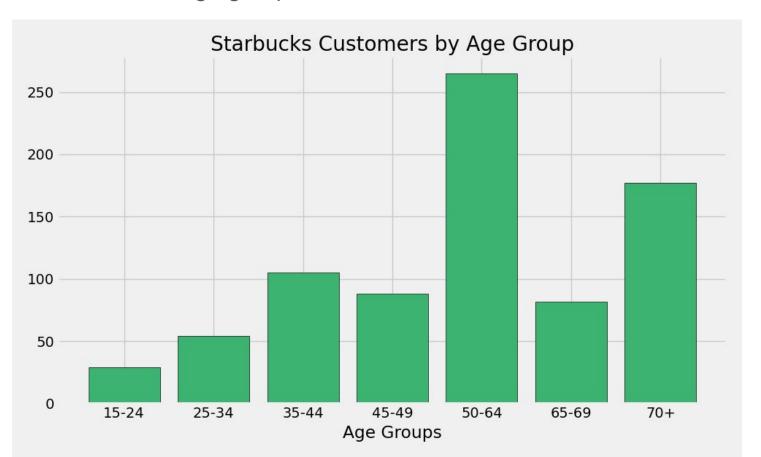
Making Decisions with Visual Data

Part 1.2 Visualizing Continuous Data

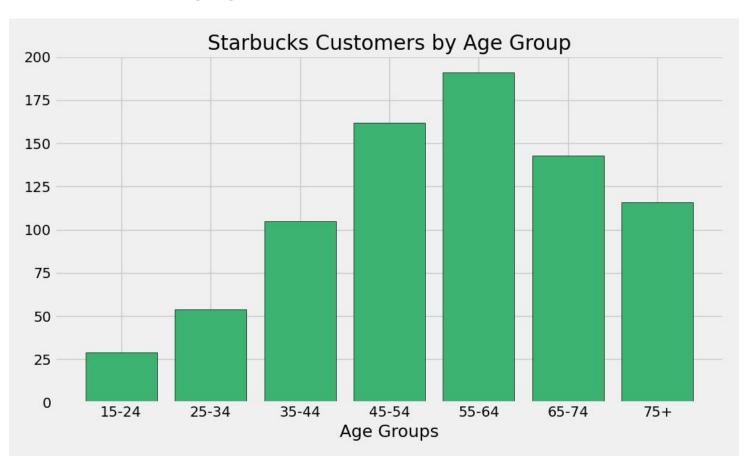
Taylor Weidman

Continuous Variables

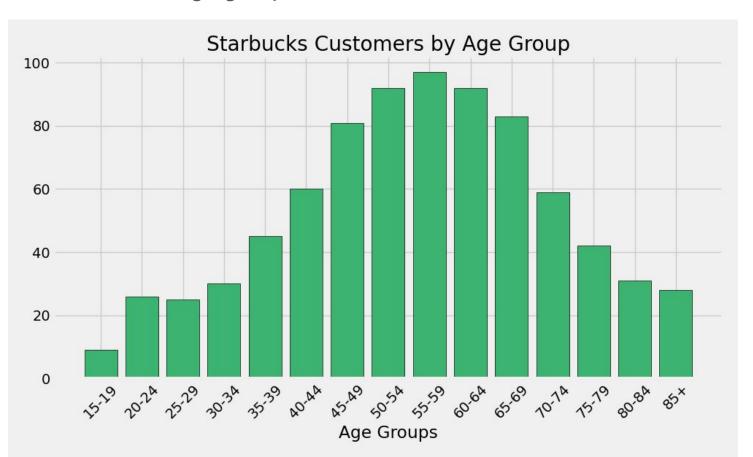
Continuous Variables: Histograms



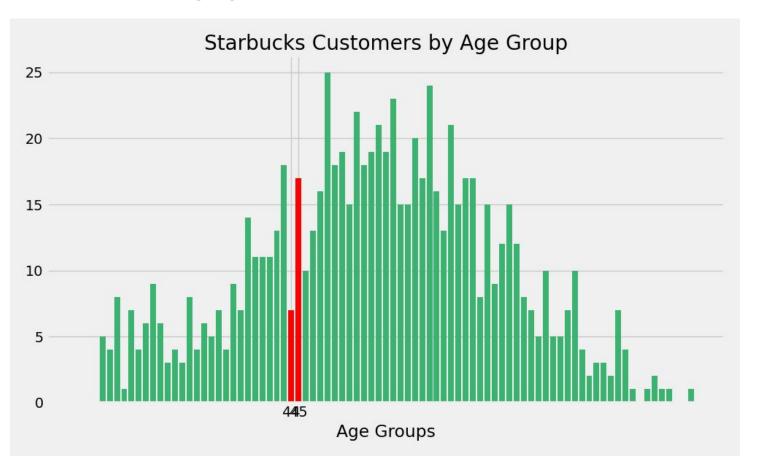
Continuous Variables: Equal Sized Bins



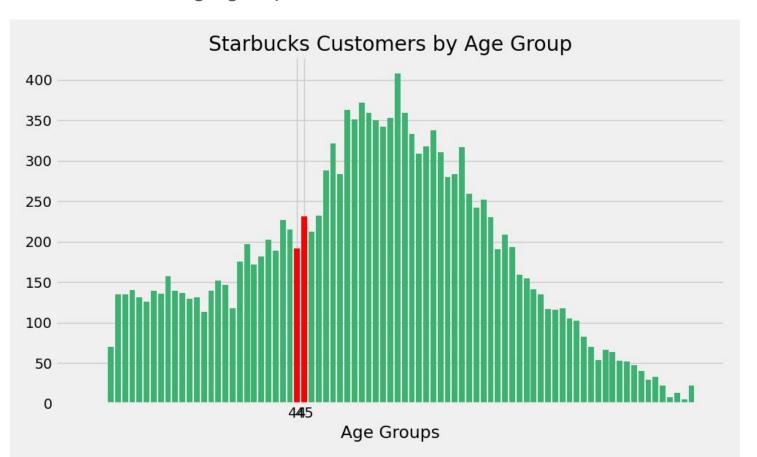
Continuous Variables: 5 Year Bins



Continuous Variables: Statistical Noise



Continuous Variables: Statistical Noise w/ More Data



Continuous Variables: Starbucks Customer Ages

Summary:

- Use histograms to visualize continuous variables.
- Make histograms with equally sized bins.
- Histograms with bins that are too narrow increase statistical noise, which can obscure underlying relationships.

Excel Exercise: Continuous Variables

We're going to examine the ages of starbucks customers by age.

- Data: Starbucks_Customer_Profiles.csv
- Histograms