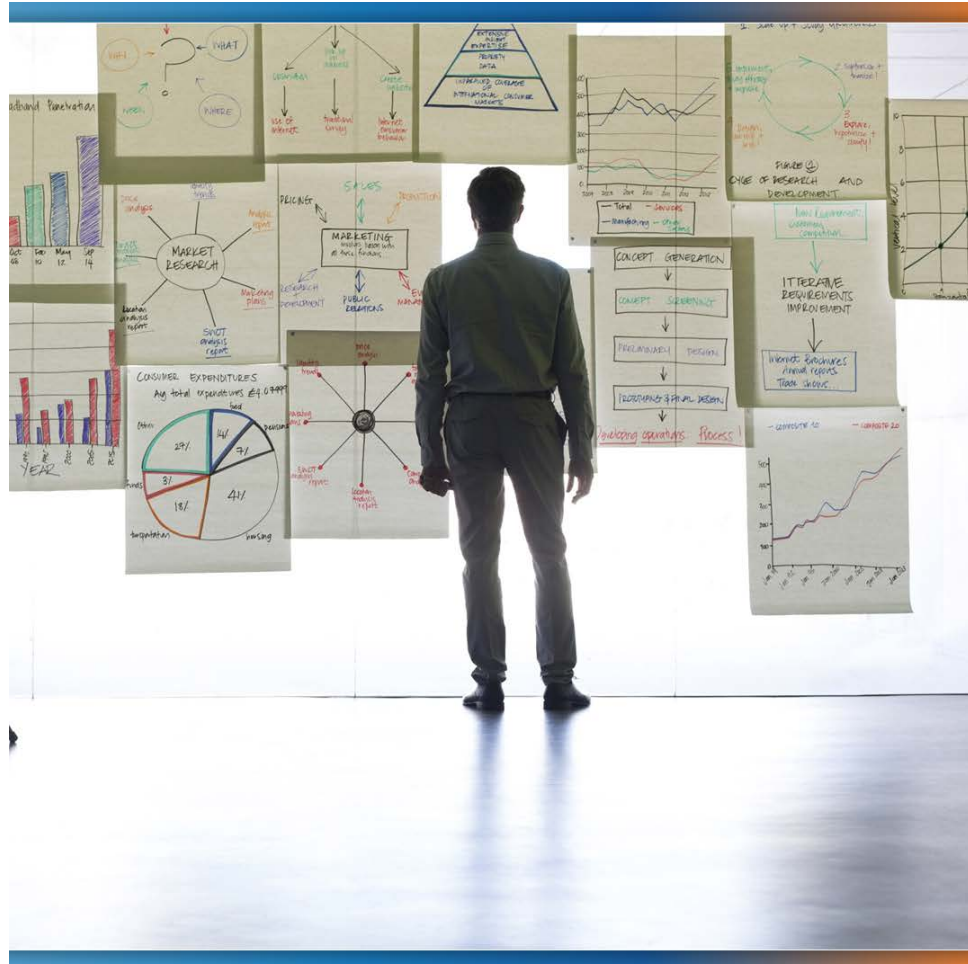




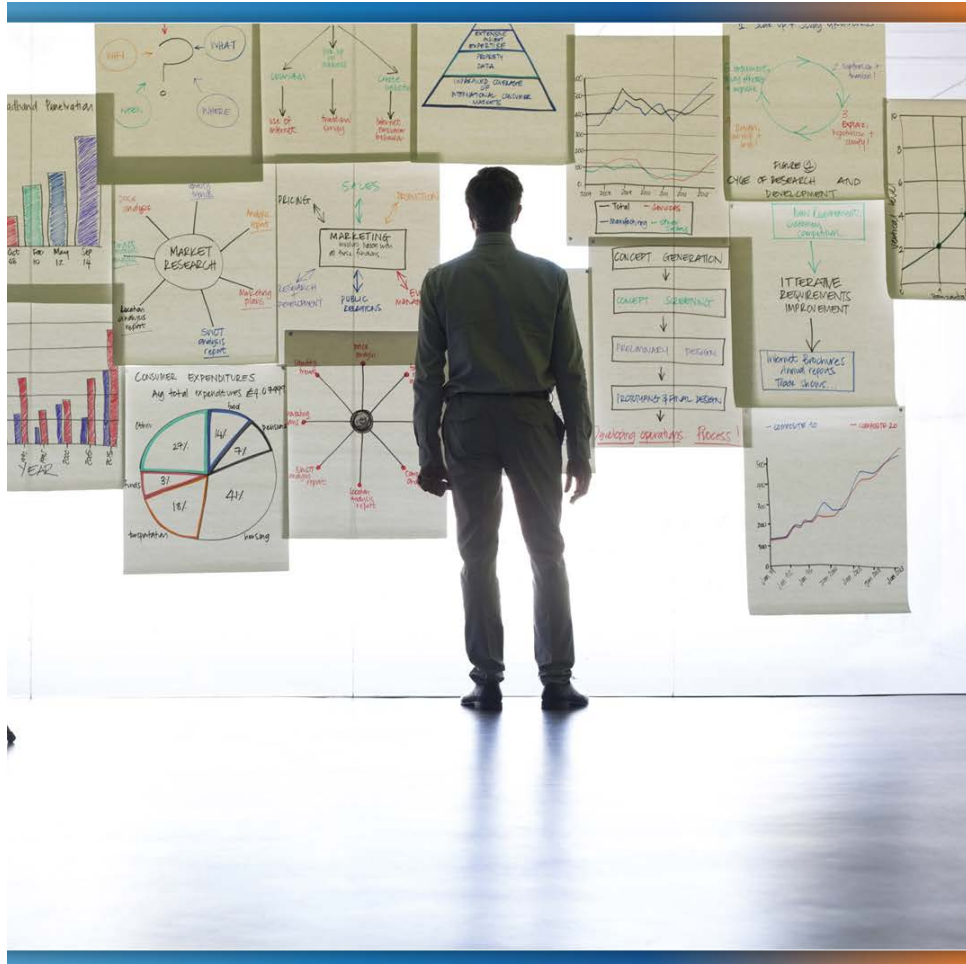
Essential Design Principles for Tableau

Data, Relationships, and Design



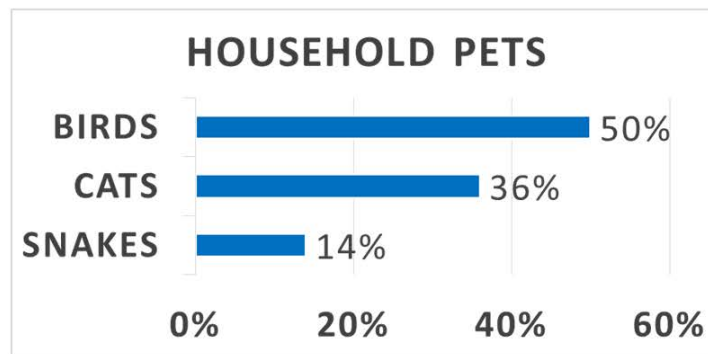
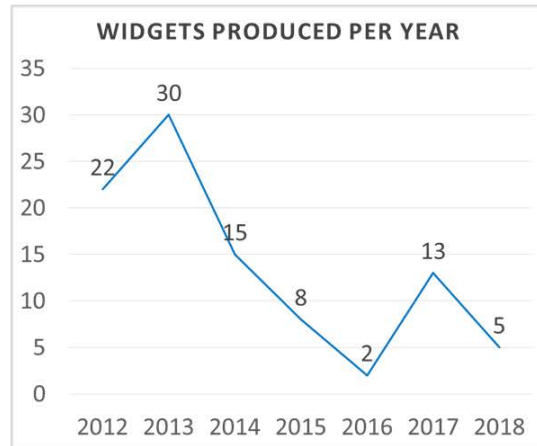
Consider context and uses of data for your audiences

Ways to display data relationships using specific chart types



Know what type of visualization to use and when to use it

Visualizations reveal relationships between dimensions of data



Line charts show change over time

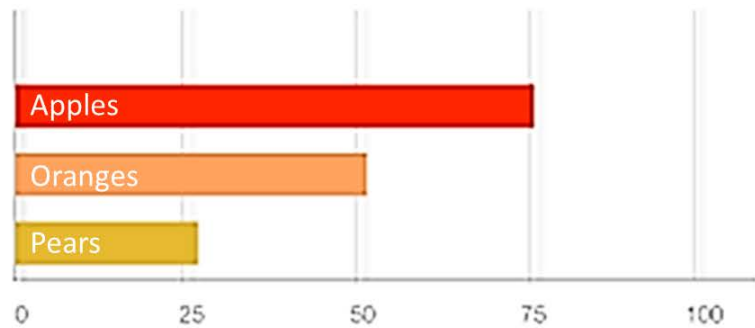
Bar charts show categorical comparisons

One chart type cannot fit all needs

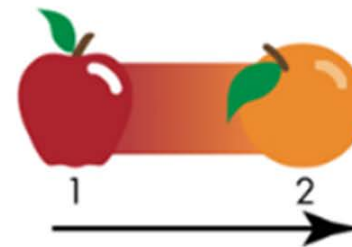


What is the **proportion** of apples vs. oranges sold at Francesca's Fruit Stand?

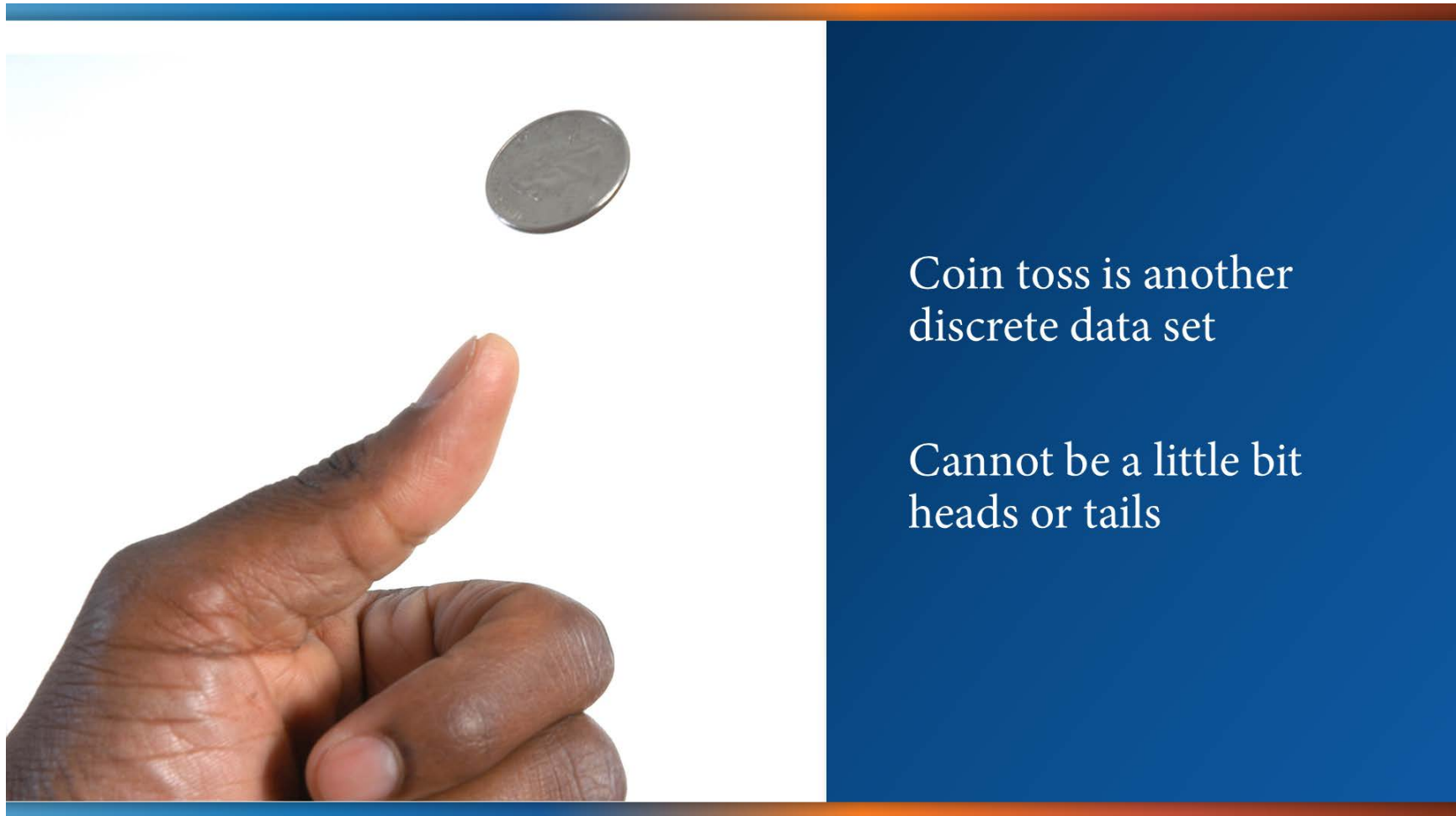
Sales for Oct. 17, 2016



Discrete (unordered) items

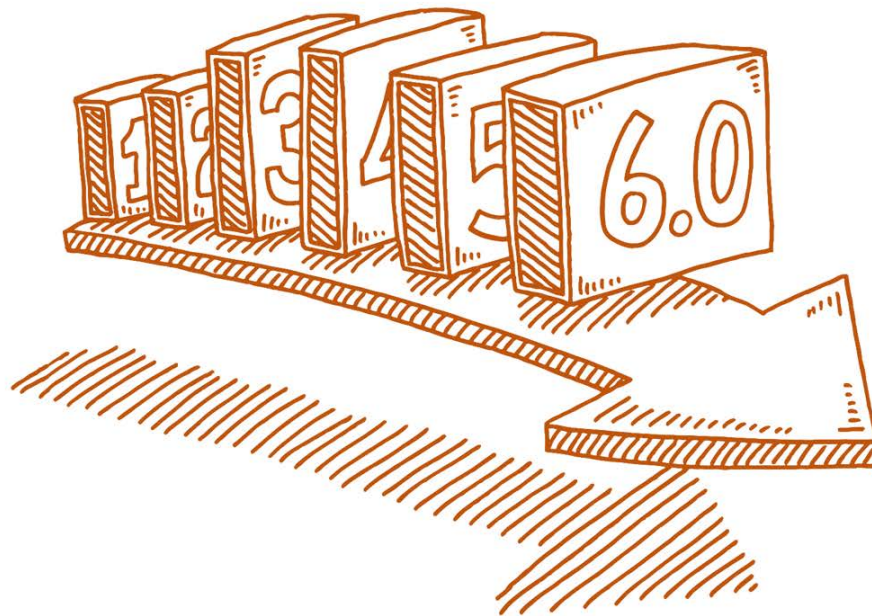
...**not** continuous

Apples and oranges are distinct items and represent discrete data



Coin toss is another
discrete data set

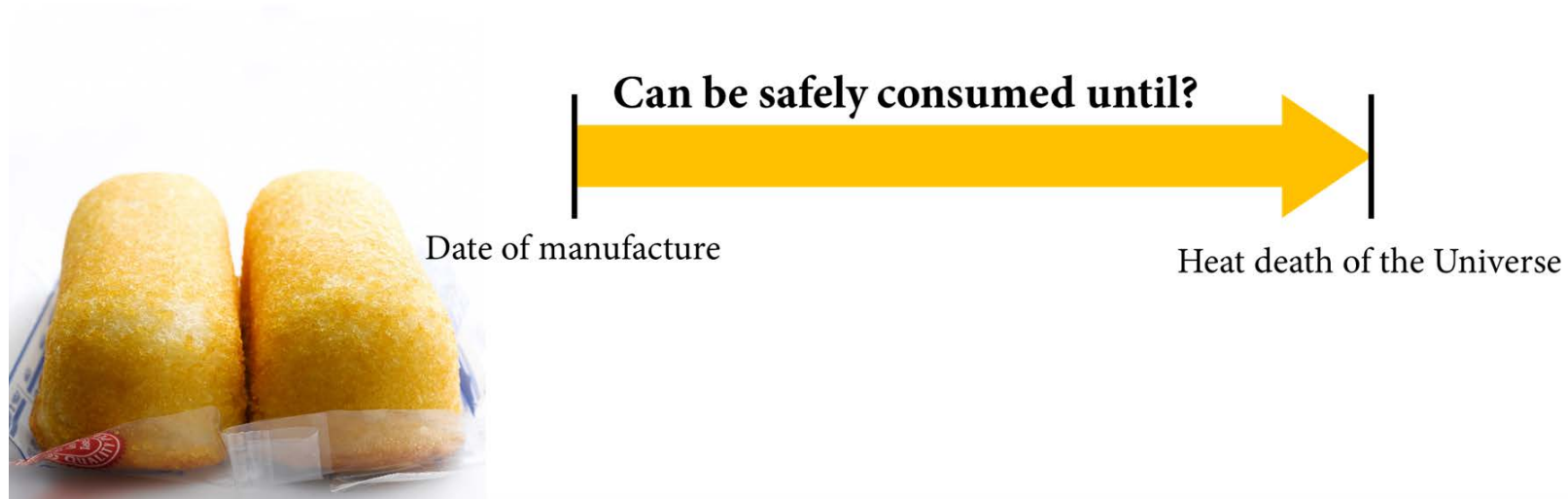
Cannot be a little bit
heads or tails



Opposite of
discrete data

Continuous data
represents a connected
range of values

Continuous...



Time is a linear, and therefore continuous, data value

What types of data relationships do you want to display?

Which type of graphic best showcases those relationships?

There may be more than one option available



Primary Types of Data Relationships and Commonly Associated Charts

Data Relationship	Chart
Comparison	• Column chart
Composition (Part-to-whole Relationships)	• Stacked column • Tree map
Correlation	• Scatter plots
Trend	• Line charts
Ranking	• Bar charts
Distributions	• Histograms • Box plots
Geospatial	• Maps



Make visualization
decisions based on:

Data type

Relationships
within the data

The needs of your
intended audience