

Data Exploration

After this video you will be able to..

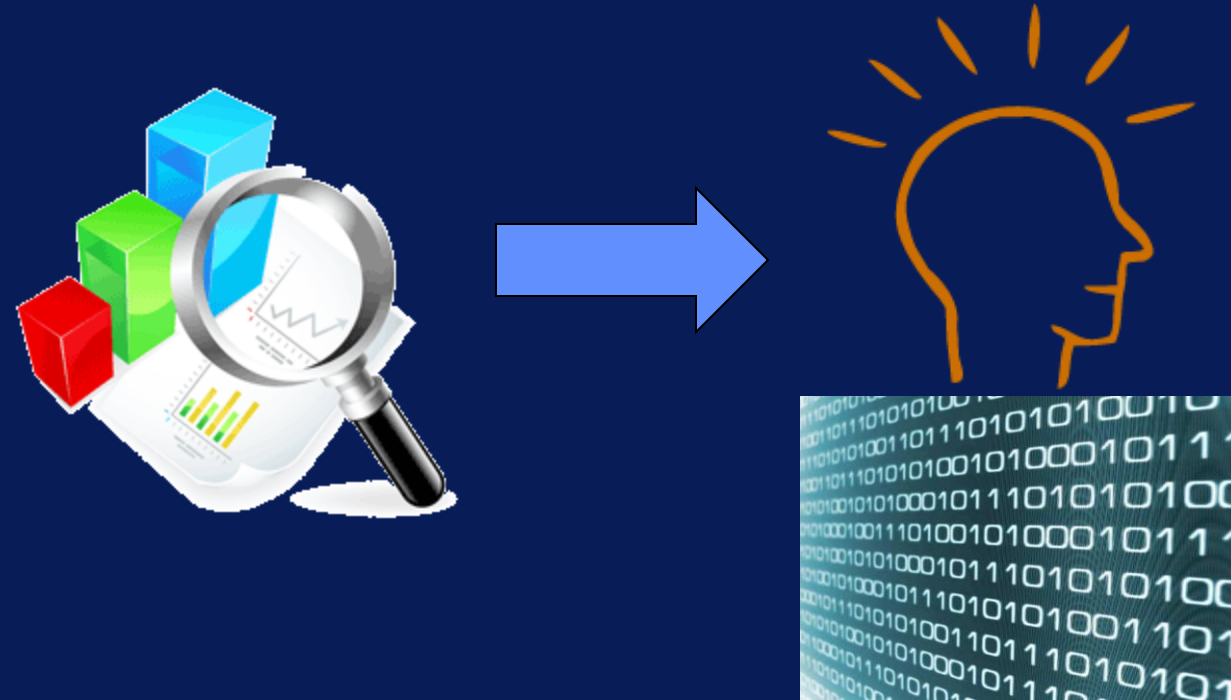
- Explain why data exploration is necessary
- Articulate the objectives for data exploration
- List the categories of techniques for exploring data

Why Explore Data?

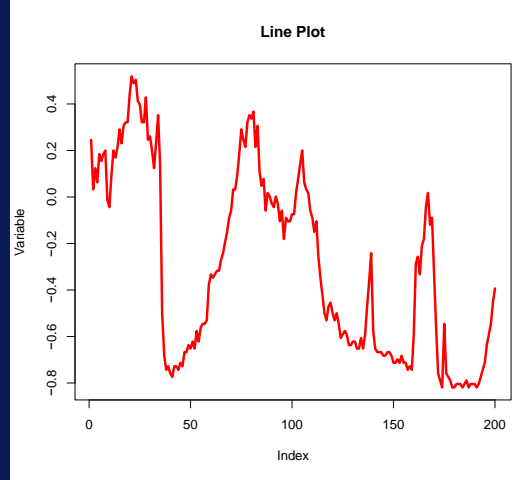
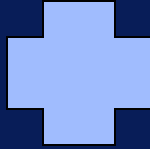
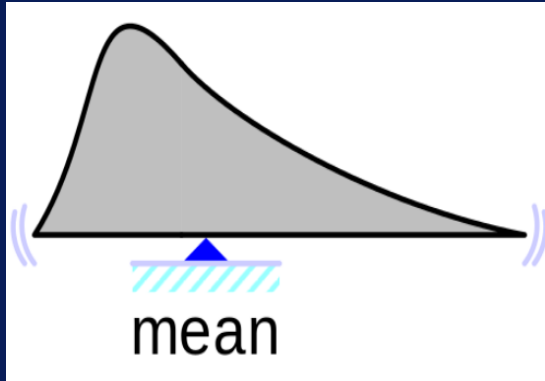
Goal: To understand your data



Exploratory Data Analysis (EDA)



Ways to Explore Data

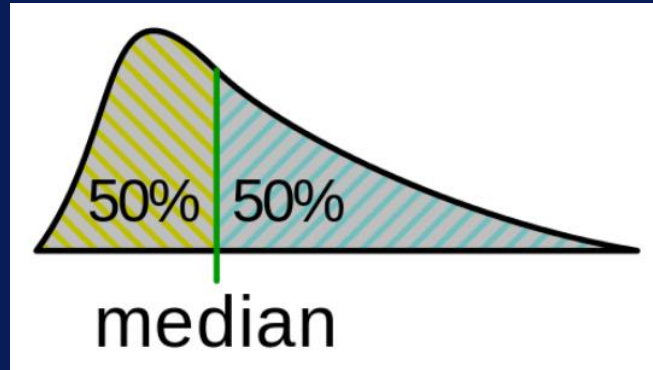
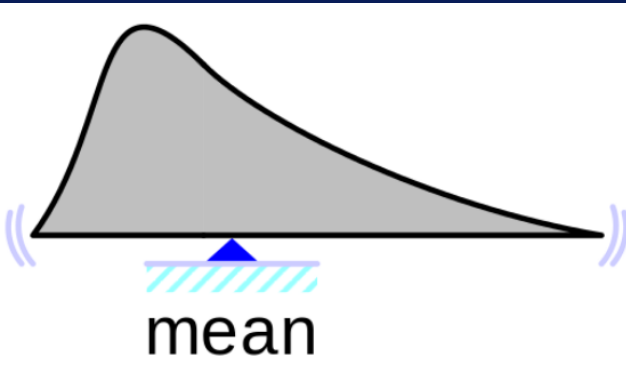
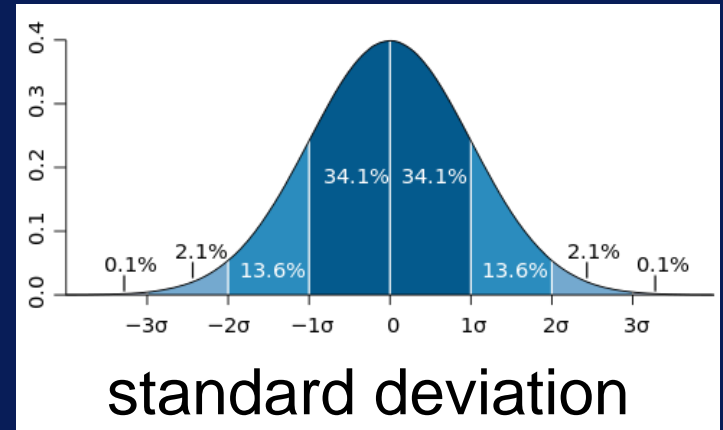


Summary
Statistics

Visualization

Summary Statistics

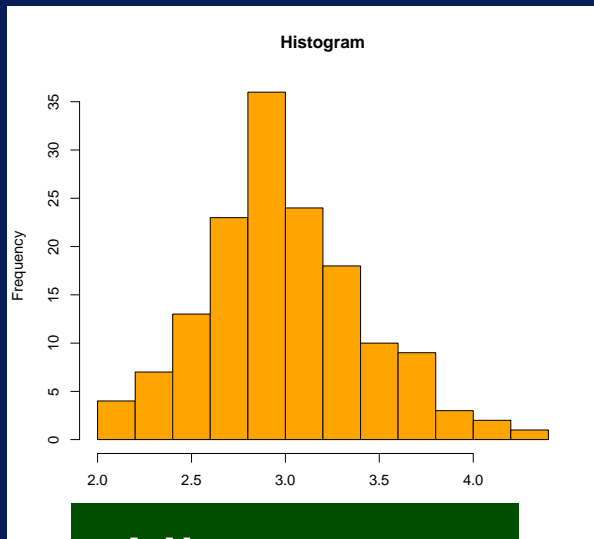
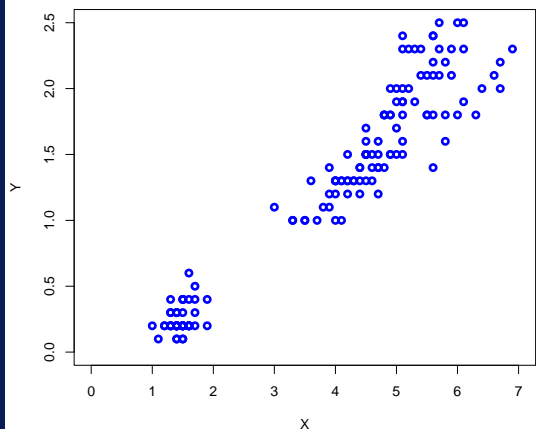
- Information that summarizes dataset



Data Visualization

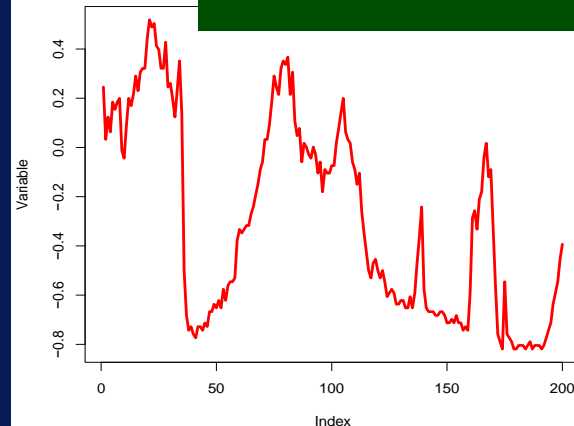
- Look at data graphically

Scatter Plot



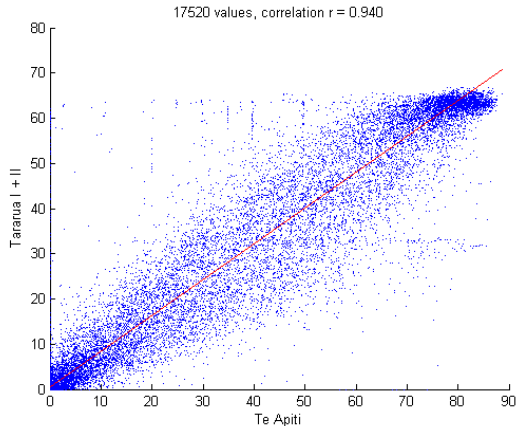
Histogram

Line Plot

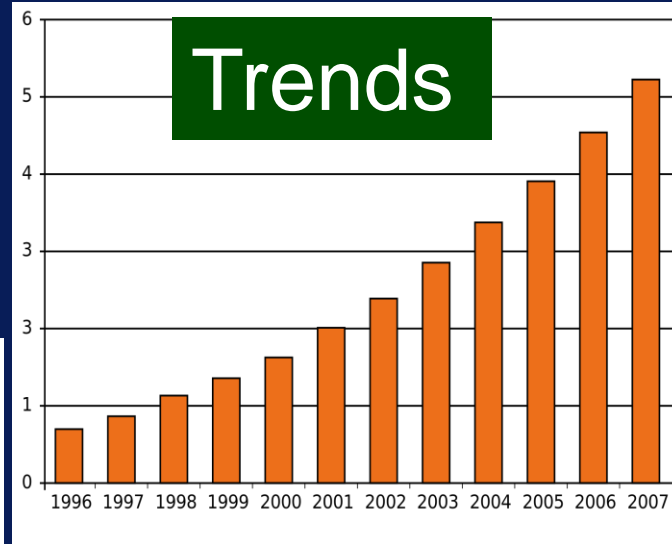


Some Things to Look For

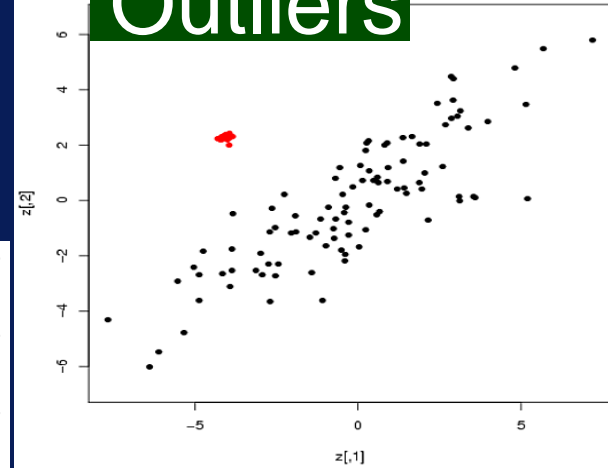
Correlations



Trends



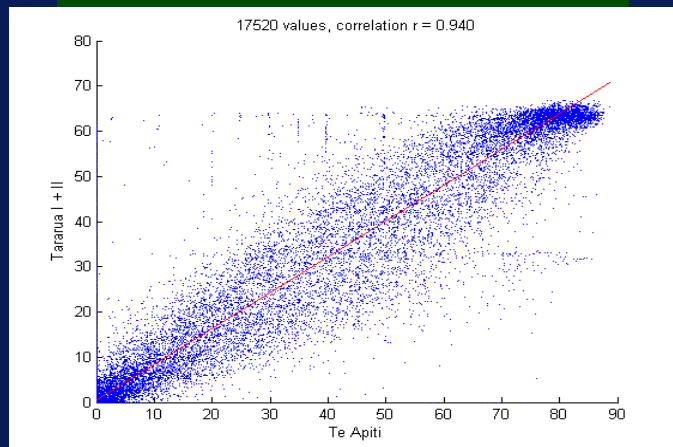
Outliers



Correlations

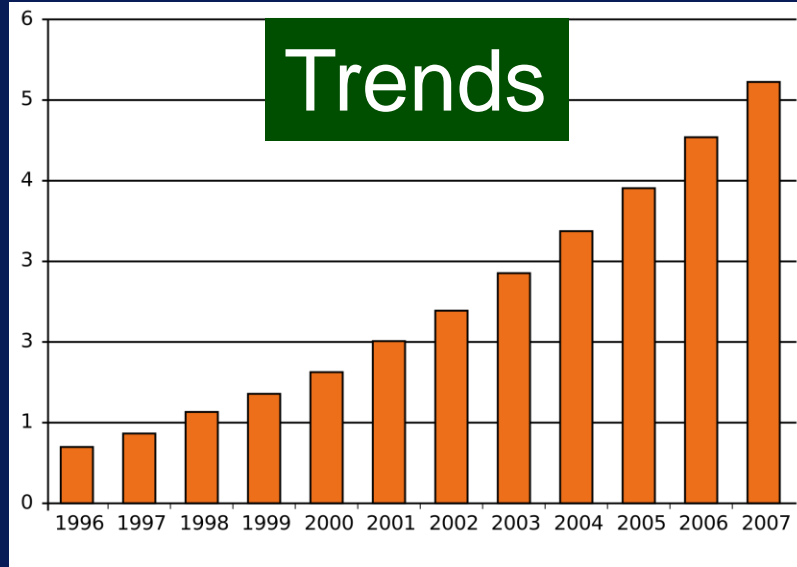
- Provide information about relationship between variables

Correlations



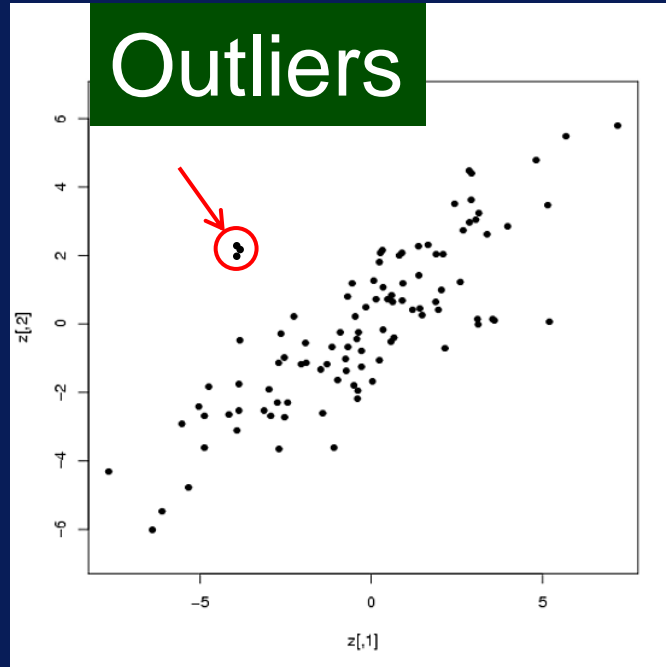
Trends

- Indicate general characteristics of data



Outliers

- Indicate potential problems with data



Data Exploration

