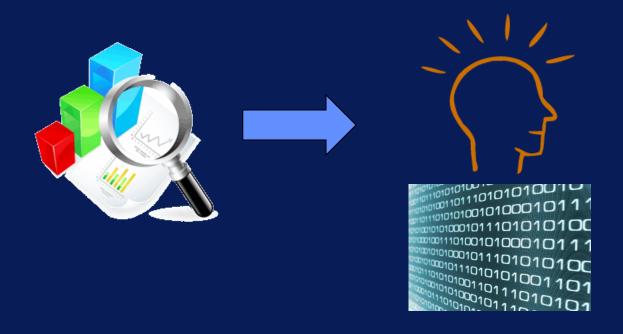
# Data Exploration

### After this video you will be able to...

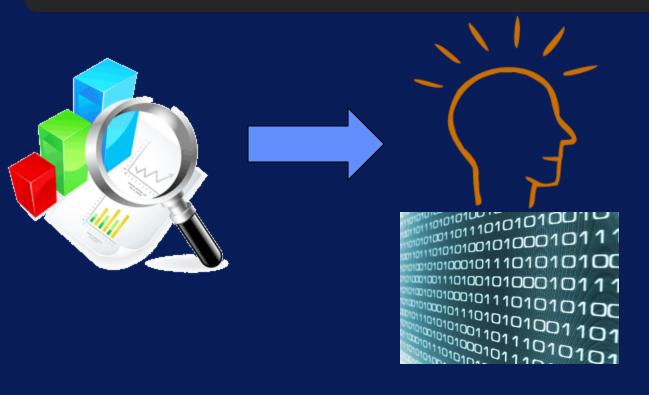
- Explain why data exploration is necessary
- Articulate the objectives for data exploration
- List the categories of techniques for exploring data

# Why Explore Data?

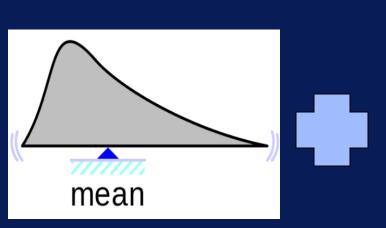
Goal: To understand your data

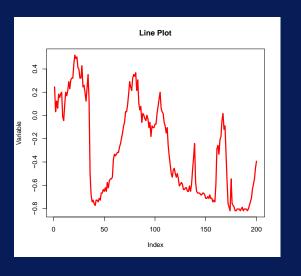


### **Exploratory Data Analysis (EDA)**



### Ways to Explore Data

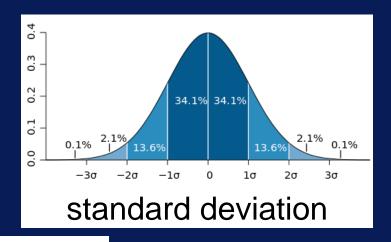


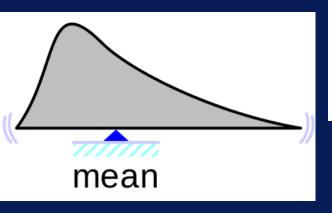


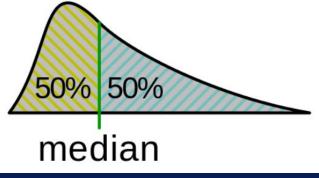
Summary Statistics Visualization

### **Summary Statistics**

 Information that summarizes dataset

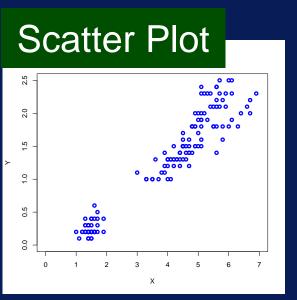


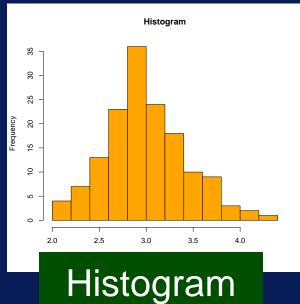


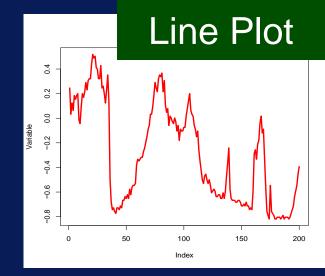


### **Data Visualization**

 Look at data graphically

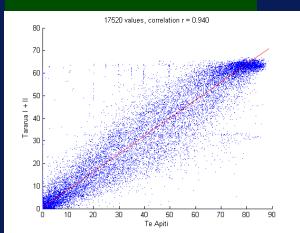


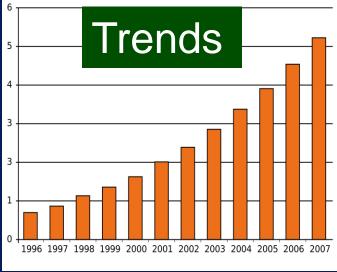


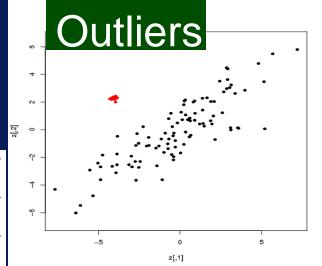


# Some Things to Look For

### Correlations



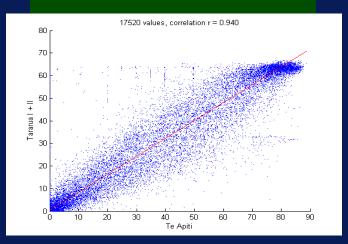




### Correlations

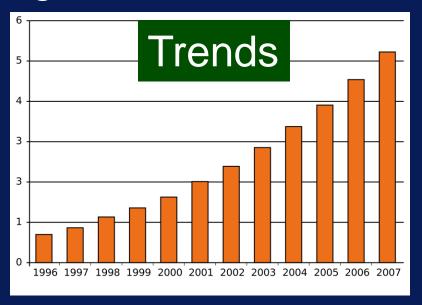
 Provide information about relationship between variables

#### Correlations



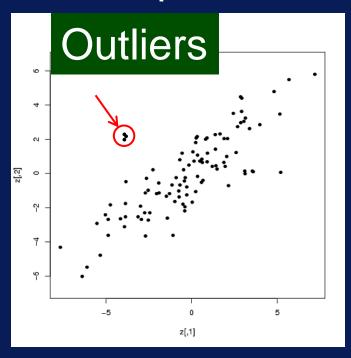
### **Trends**

Indicate general characteristics of data



### **Outliers**

Indicate potential problems with data



## **Data Exploration**



**Informed Analysis** 



Data Undertanding

Data Exploration