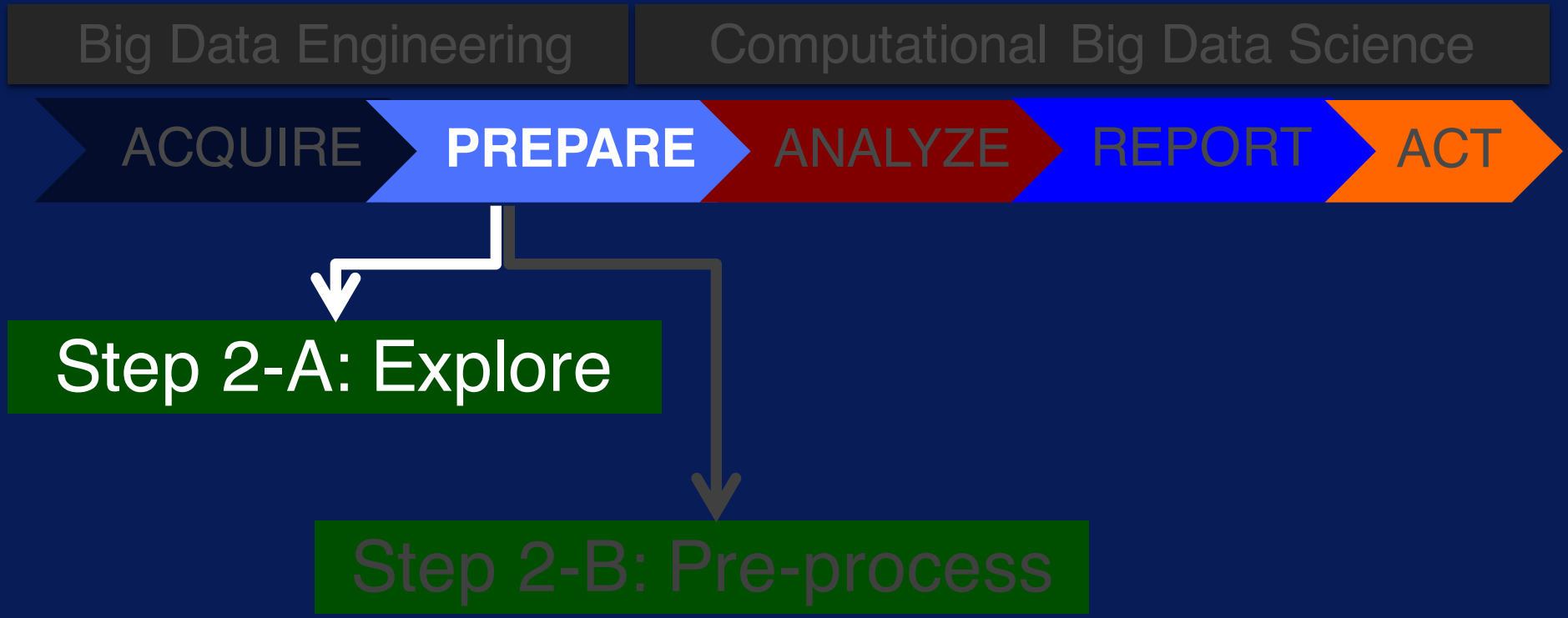
Step 2-A:

Exploring Data

After this video you will be able to..

- Explain the importance of exploring data
- Identify methods to perform preliminary analysis of your data

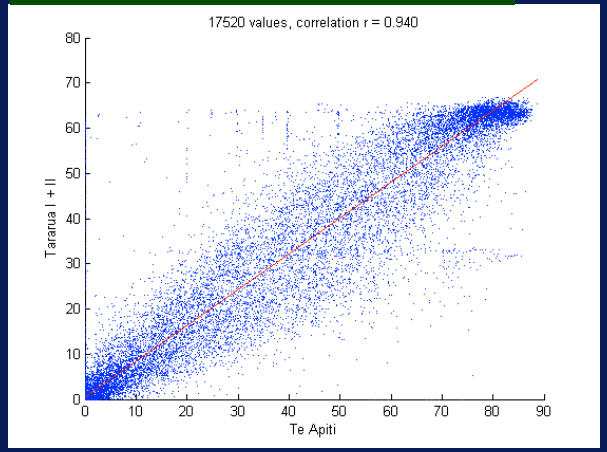

Big Data Engineering
Computational Big Data Science
ACQUIRE
PREPARE
ANALYZE
REPORT
ACT
Step 2-A: Explore
Step 2-B: Pre-process

Why Explore?

Goal: Understand your data

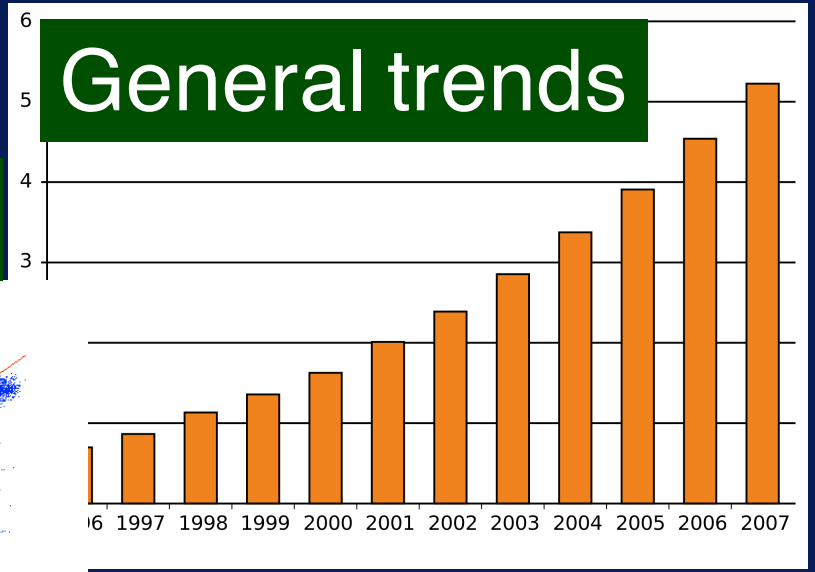
Why Explore?

Correlations

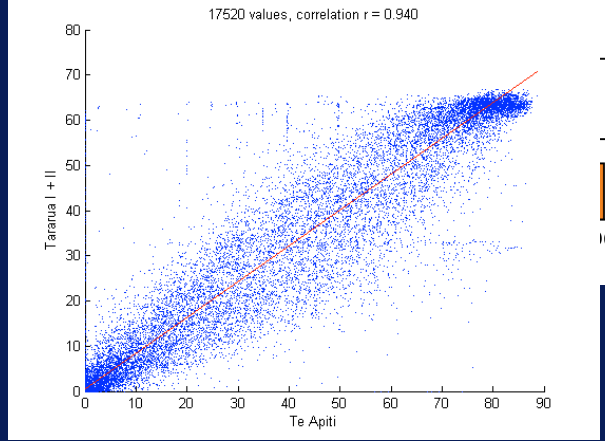


Why Explore?

General trends

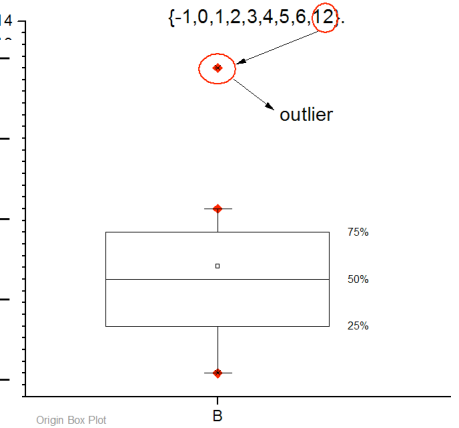


Correlations

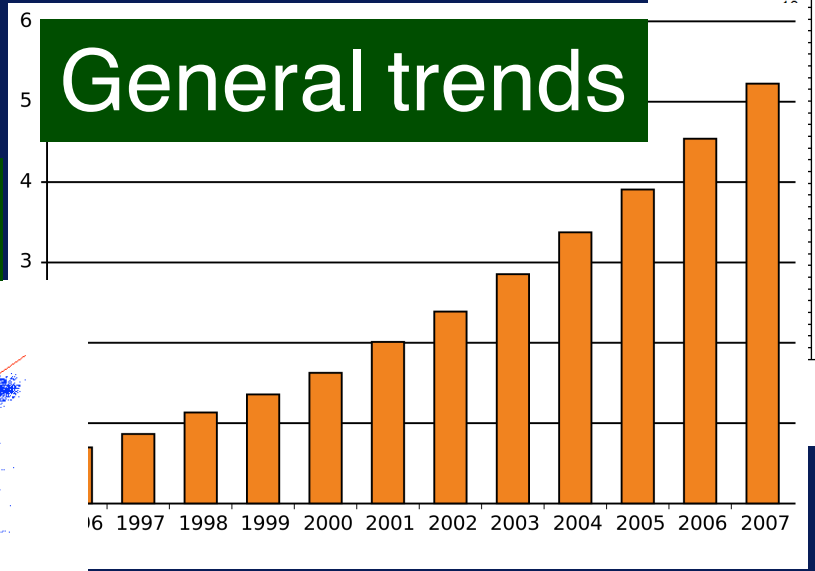


Why Explore?

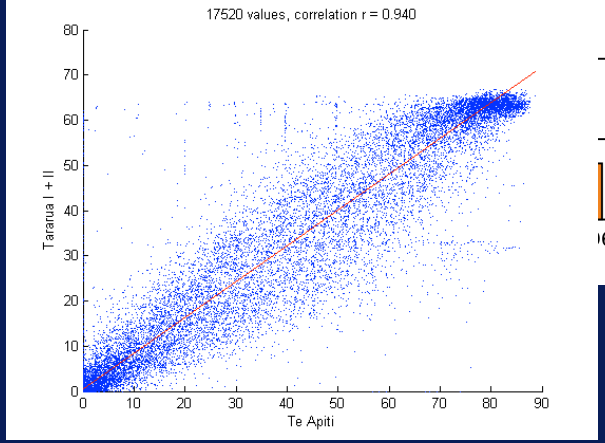
Outliers



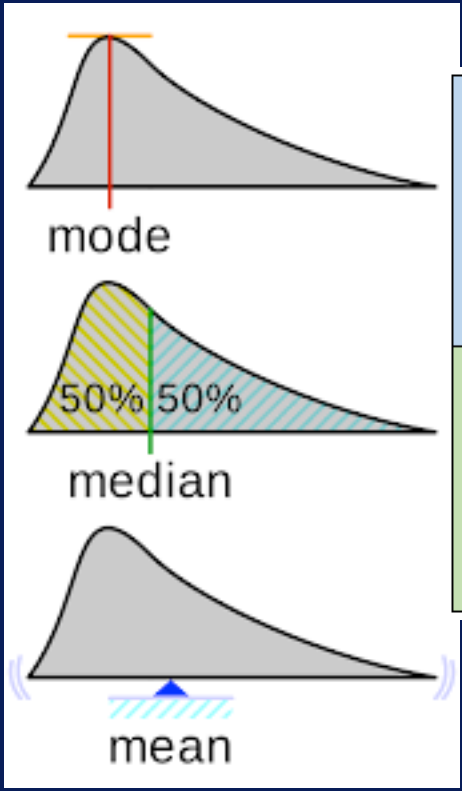
General trends



Correlations



Describe Your Data



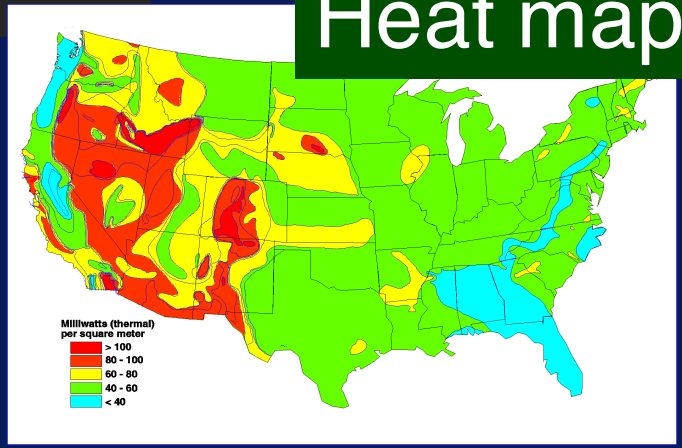
Mean	Median
Mode	Range

Statistics

Visualize Your Data

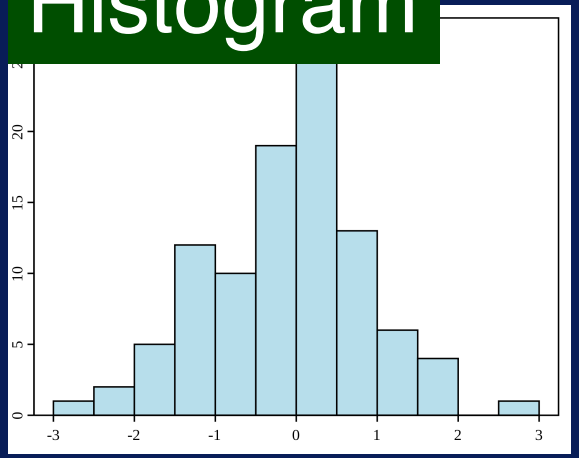
Visualize Your Data

Heat maps

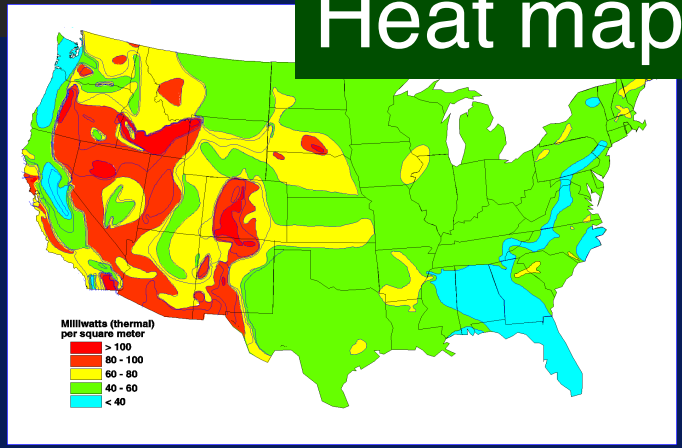


Visualize Your Data

Histogram

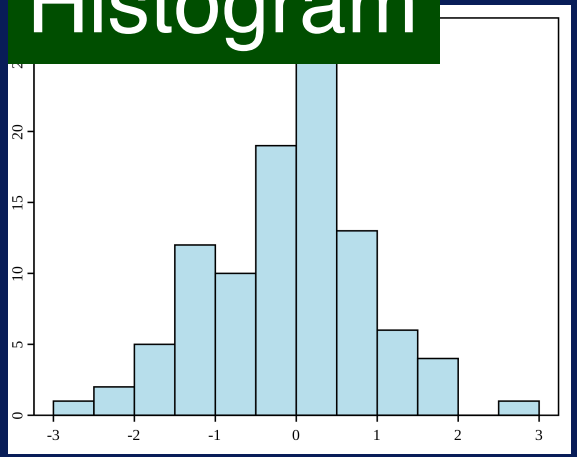


Heat maps

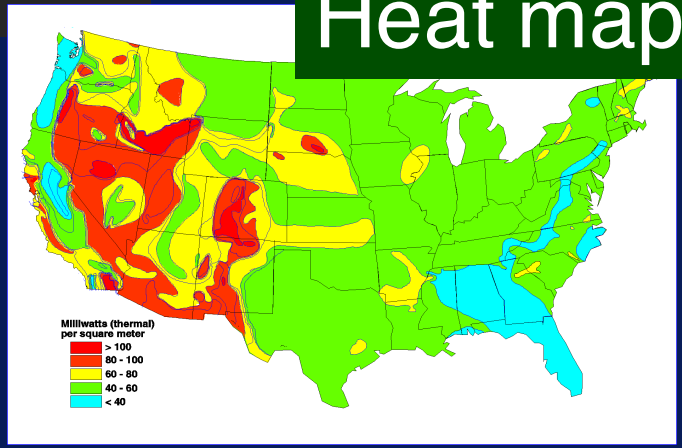


Visualize Your Data

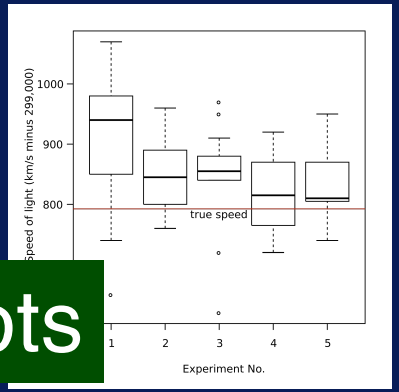
Histogram



Heat maps

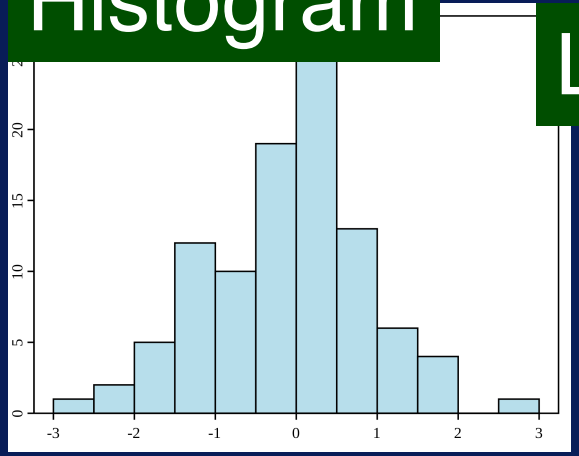


Boxplots



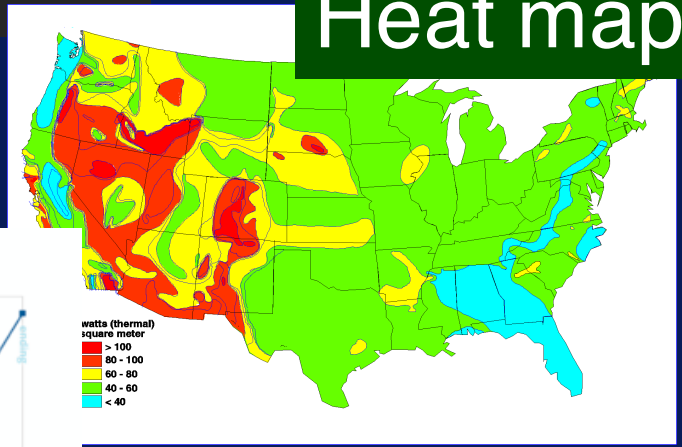
Visualize Your Data

Histogram

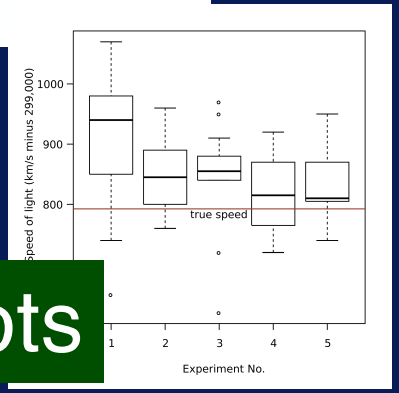


Line graphs

Heat maps

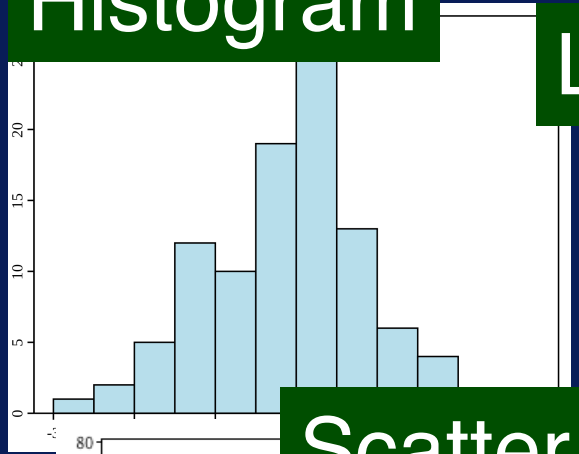


Boxplots

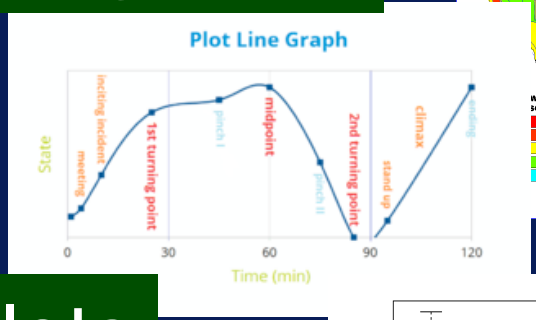


Visualize Your Data

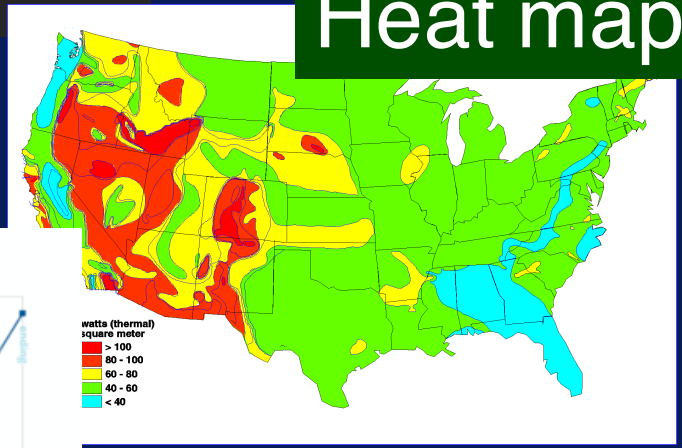
Histogram



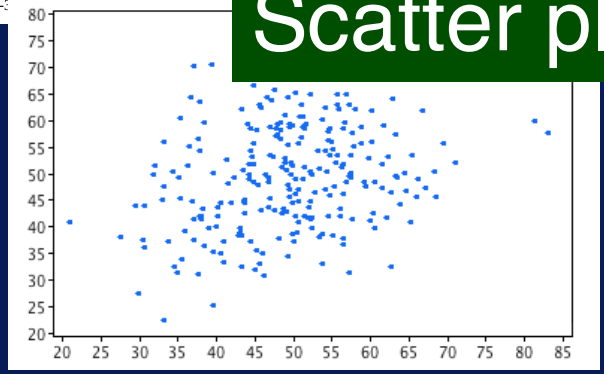
Line graphs



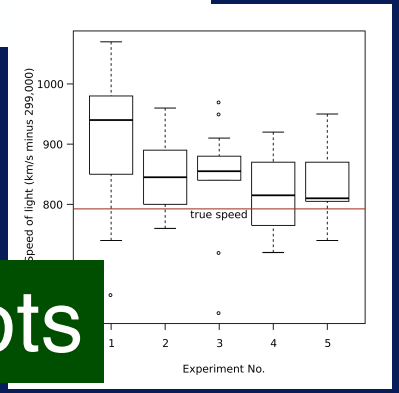
Heat maps

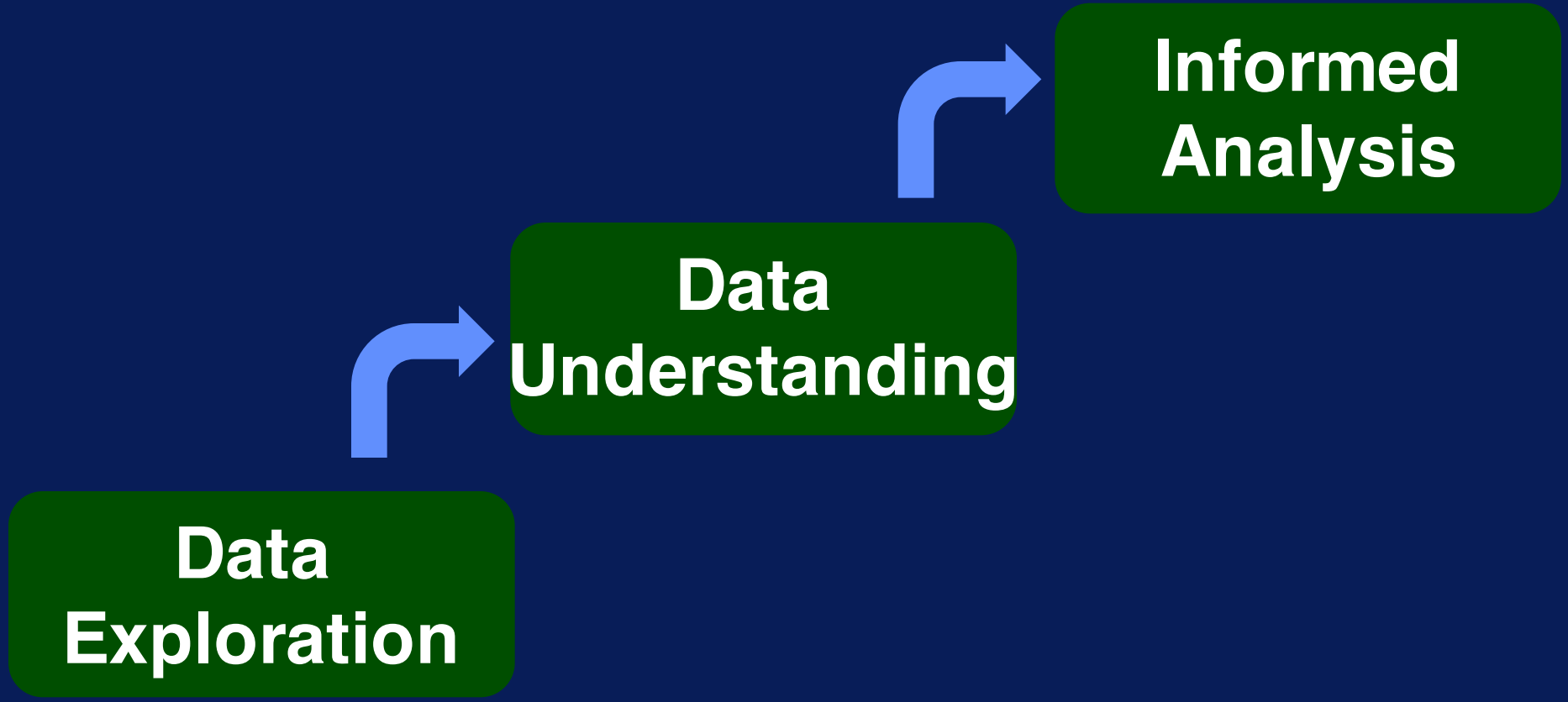


Scatter plots



Boxplots




Informed Analysis
Data Understanding
Data Exploration