

# 213L3: Treatment of Data

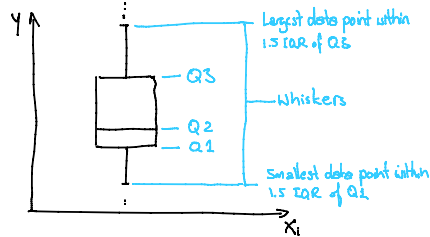
June 12, 2020 11:42 AM

## Outline:

1. Data Summary & Display
2. Random Sampling
3. Stem-and-Leaf Diagram
4. Frequency Distributions & Histograms
5. Box Plots
6. Time Sequence Plots
7. Probability Plots

⑤

### Box Plots



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### Median:

Measure of central tendency that divides data into 2 equal parts

### Quartiles:

- 1:  $(n+1)/4$
- 2: Median
- 3:  $3(n+1)/4$

### Stem & Leaf

Leading digits → trailing digits

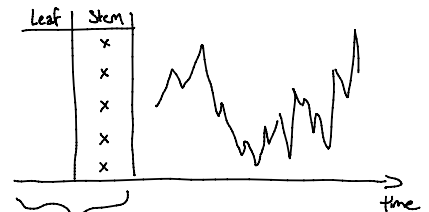
		frequency
1	x	1
2	x x x	3
3	x x x x x	5
4	x x x	3
5	x	1

Range: Measure of variability (Max - Min)

Interquartile Range  
Difference between upper/lower quartiles

### Time Series/Sequence

Data set recorded in order of occurrence



④⑦

### Frequency Distribution

- Compact data summary
- Divided into class intervals



### Probability Plots

Visual examination of whether data conforms to hypothesized distribution

