Summarizing and Visualizing Data

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Types of Data

- Numerical
  - Center
    - Mean or Median or Mode
  - Shape
    - Bell-shaped or Skewed
  - Spread
    - Range or IQR or Variance
- Categorical
  - Proportion or Count or Mode

Measures of Central Tendency

- Mean - an average of data
- Median - middle value of the ordered data
- Mode - value that occurs most often in the data

Mean vs Median

Consider seven employees' salaries as follows:

- 28,000
- 34,000
- 33,000
- 37,000
- 33,000
- 40,000
- 40,000

Question: When it is better to report the Median as compared to the Mean?