## Exploratory Data Analysis2

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## **EDA**

The main ideas with EDA are the exploration of the variables.

- Centers means, medians
- Variation standard deviations, ranges
- Outliers
- Missing Values
- Covariation, Correlation

## Two variables

- Two categorical variables Contingency Tables, Chi-Square Tests
- One categorical variable and one Numeric variable -Side-by-side boxplots, T-tests, One-way ANOVA
- Two numeric variables Scatterplots, Correlation, Regression, Smoothing

## Correlation

What does the correlation coefficent measure?

The correlation coefficient r measures the **strength** and **direction** of the **linear** relationship between two **quantitative/numeric** variables.