Review
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• Variables - Categorical v.s. Quantitative
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• Graphs for distributional information: Pie chart, Bar graph, Histogram, Stemplot, Timeplot, Boxplot
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- Graphs for distributional information: Pie chart, Bar graph, Histogram, Stemplot, Timeplot, Boxplot
- Overall pattern of the graph: Symmetric/Skewed, Center, Spread, Outlier, Trend
• Measure of center: Mean/Median
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• Measure of variability: Quartiles ($Q_1, Q_2, Q_3$), Range, IQR, 1.5×IQR rule, Outlier, Variance, Standard deviation
• Measure of center: Mean/Median
• Measure of variability: Quartiles \((Q_1, Q_2, Q_3)\), Range, IQR, 1.5\times IQR rule, Outlier, Variance, Standard deviation
• Five-number summary, Boxplot
• Density curve
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• Normal distributions / Normal curves
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• z-score, Standard normal distribution
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• Normal distributions / Normal curves
• z-score, Standard normal distribution
• 68 – 95 – 99.7 rule, Probabilities for normal distribution
• Explanatory variable / Response variable
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• Scatterplot: Direction (Positive / Negative), Form (Linear / Nonlinear), Strength, Outlier
• Explanatory variable / Response variable
• Scatterplot: Direction (Positive / Negative), Form (Linear / Nonlinear), Strength, Outlier
• Correlation