Data description and visualization

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April 4, 2024 DATA_ENG 200

Adapted from Health and Healthcare Data Visualization Module from Tableau

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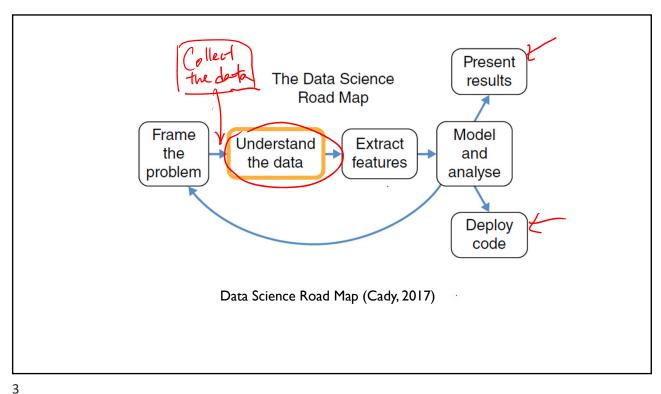
Quick recap

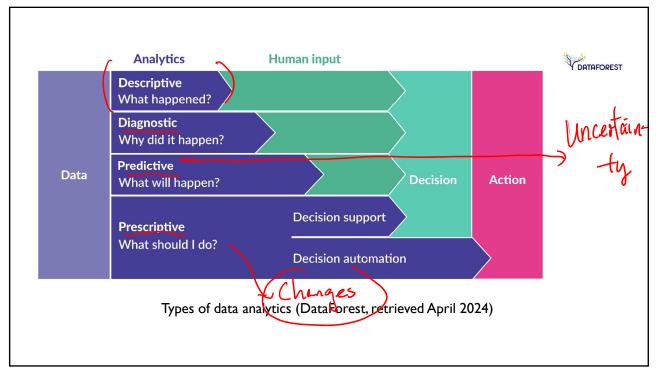
Data types

- Qualitative vs quantitative
- Categorical
 - Nominal, ordinal
- Numerical
 - Discrete, continuous

Tool

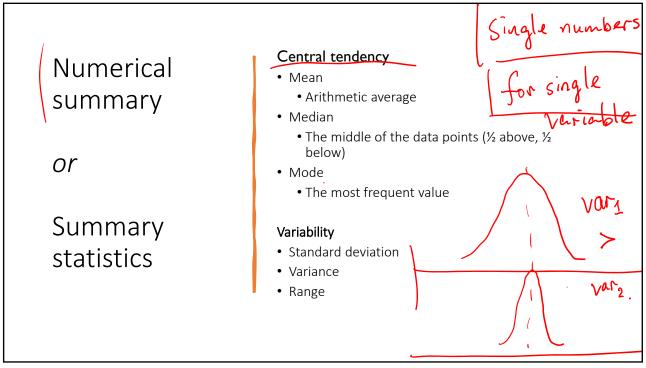
• Tableau demo

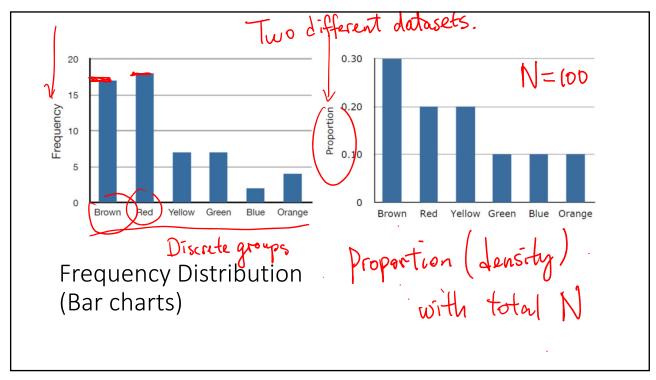


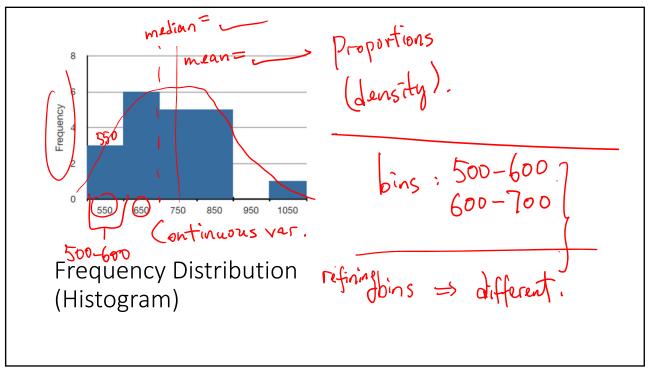


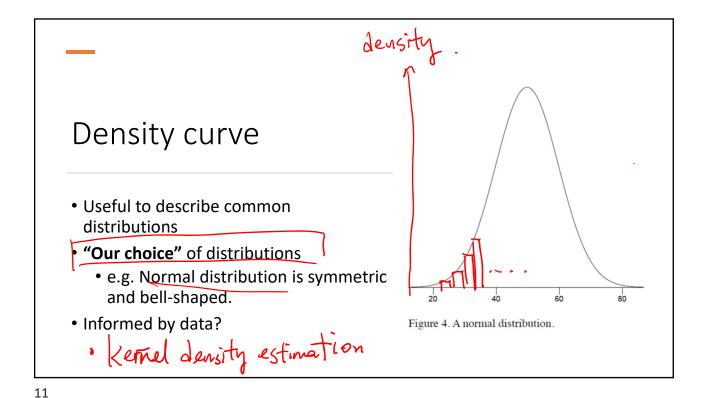
Descriptive analytics for single variable

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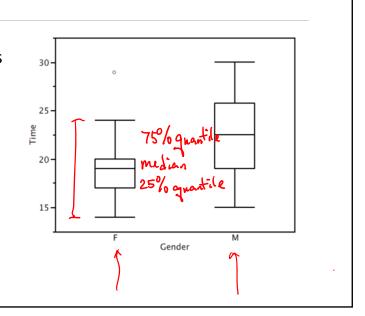


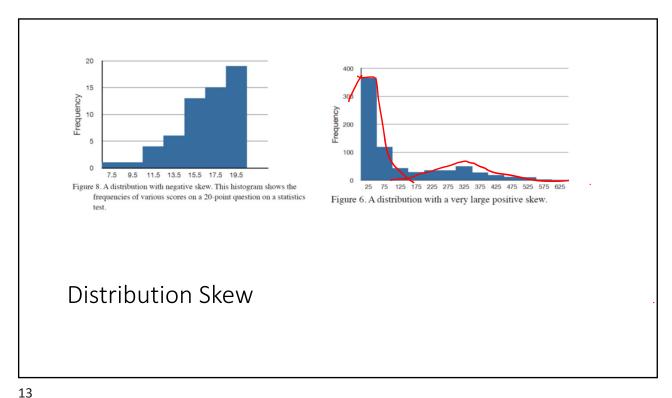




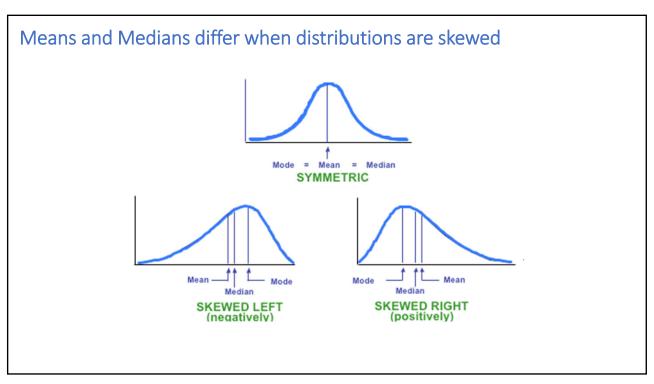
Boxplot

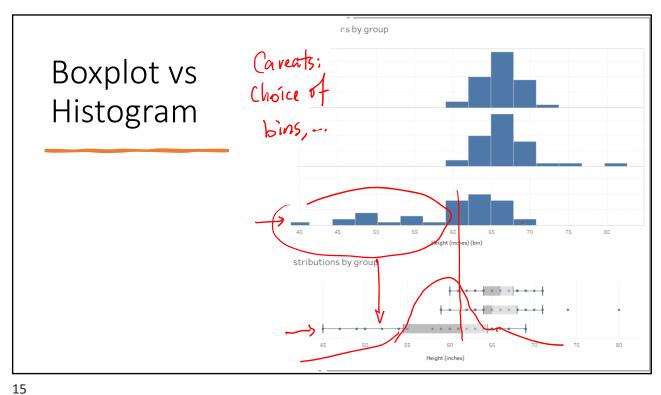
- Useful for identifying Outliers and comparing distributions
- Other name: Box and whiskers plot, 5-point summary

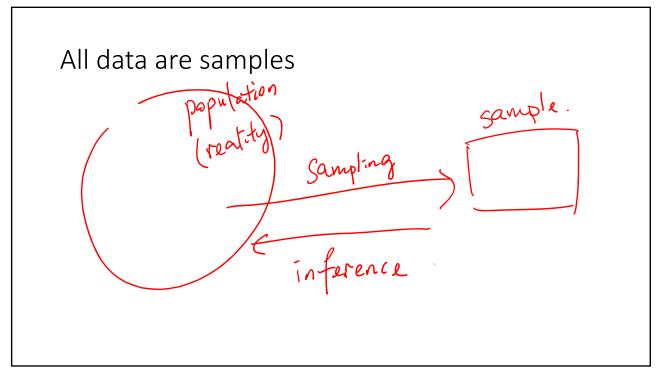




TO

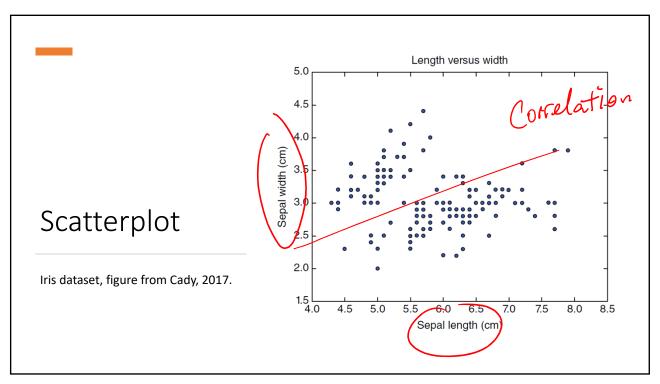


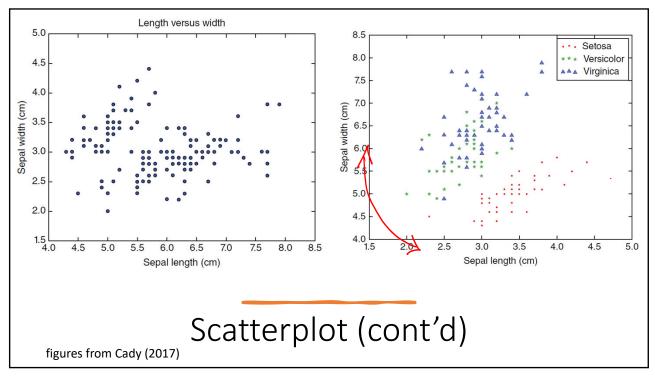


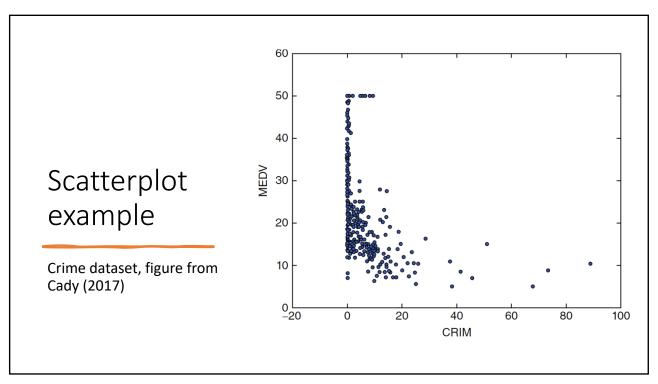


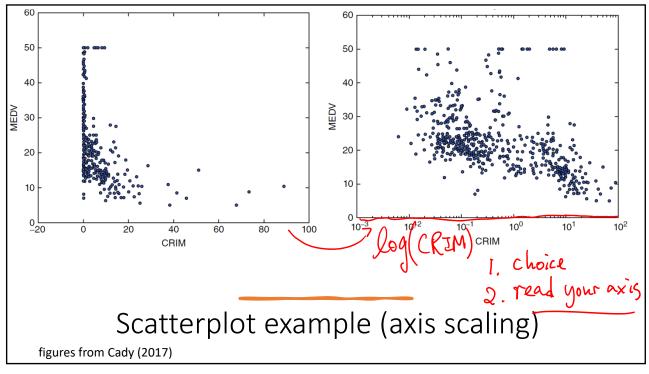
Descriptive analytics for multiple variables

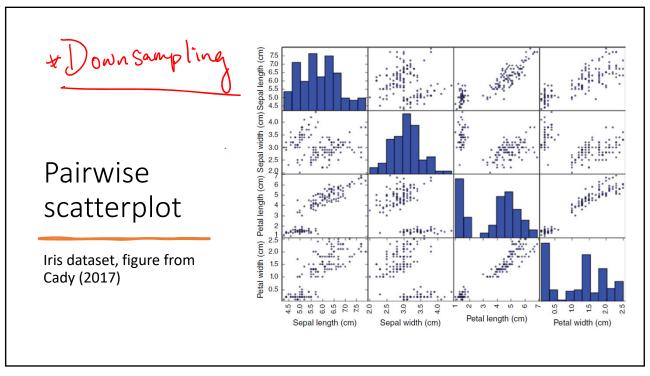
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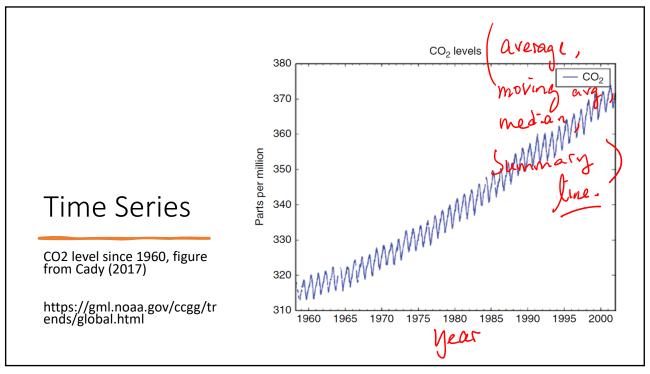












Descriptive analytics / visualizations are most useful for *understanding* and *building intuition*

Tableau Demo and Practice

Target

- Multiple datasets
- Calculated field
- Geographical misc.
- Dashboarding (if time allows)