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Discussion section A01 & A02
October 26 2022

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Reminders

- Updates on quiz 3 questions
- Assignment 1 grades released
- Assignment 2 due soon (Oct 28 midnight)
- Reading quiz 4 due (Nov 3)

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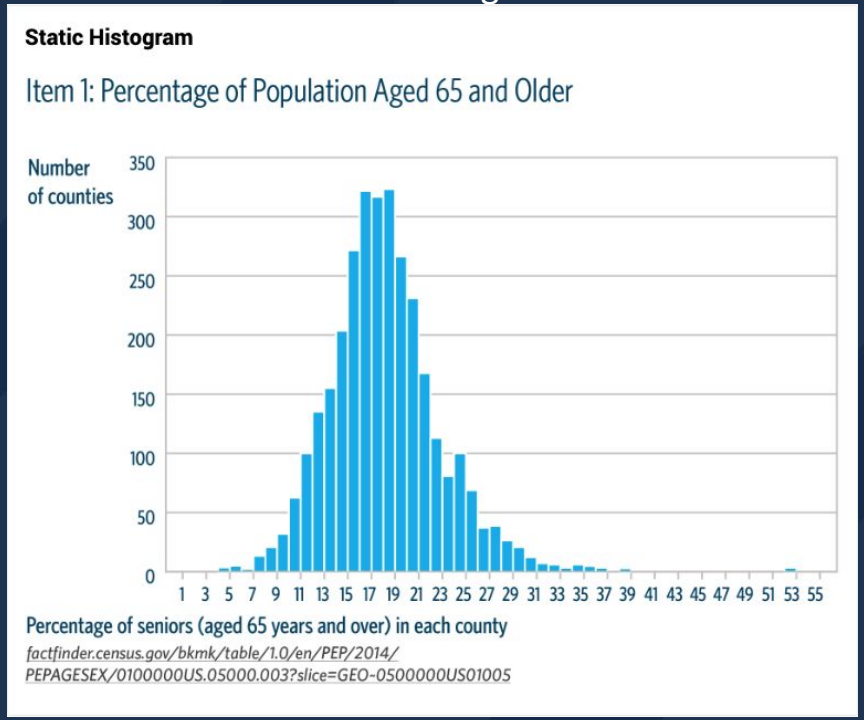
Data Visualization

1. Histograms



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Data Visualization

2. Densityplot

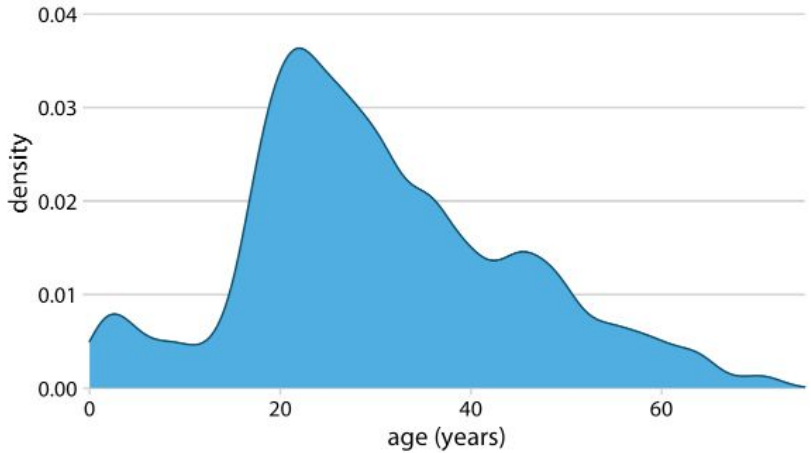

Figure 7.3: Kernel density estimate of the age distribution of passengers on the Titanic. The height of the curve is scaled such that the area under the curve equals one. The density estimate was performed with a Gaussian kernel and a bandwidth of 2.

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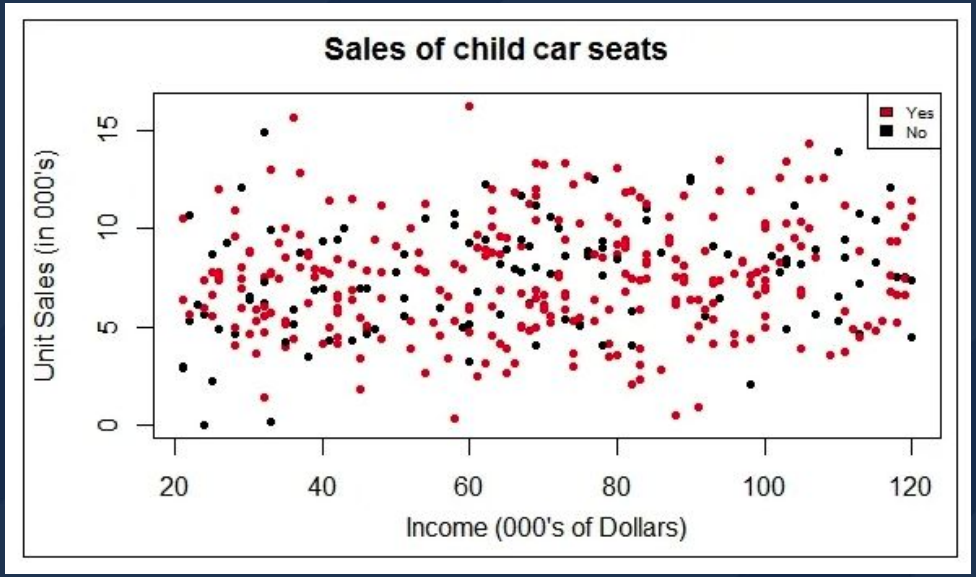
Data Visualization

3. Scatterplot



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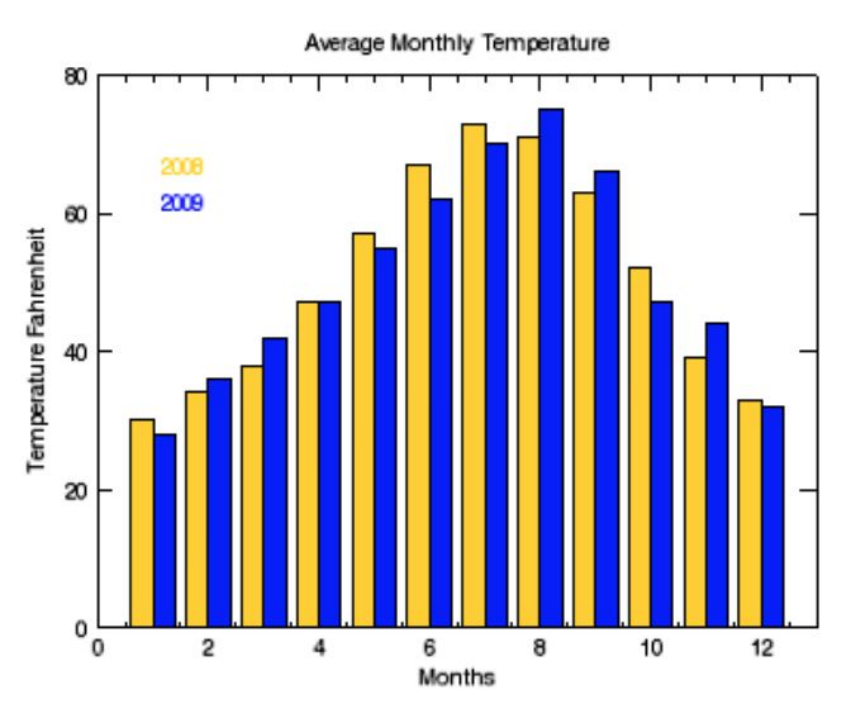
4. Barplot



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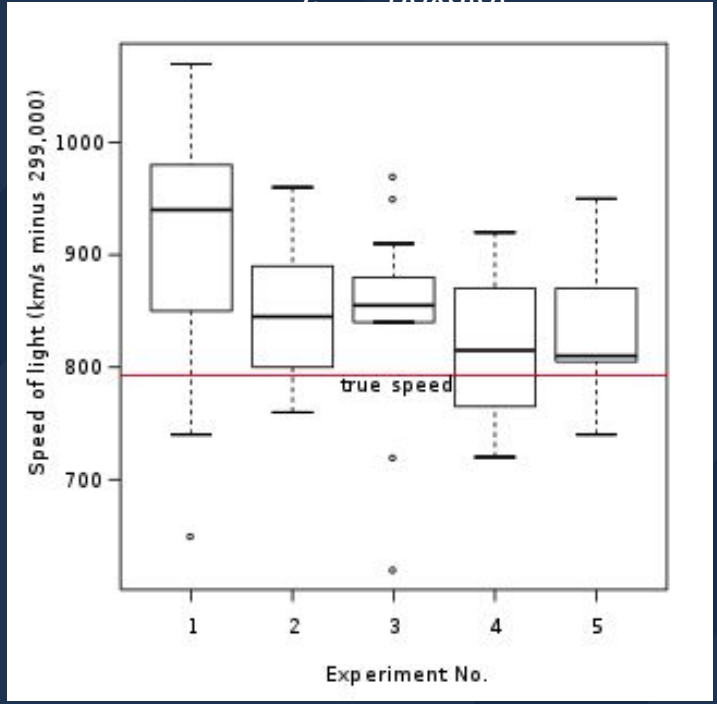
5. Boxplot



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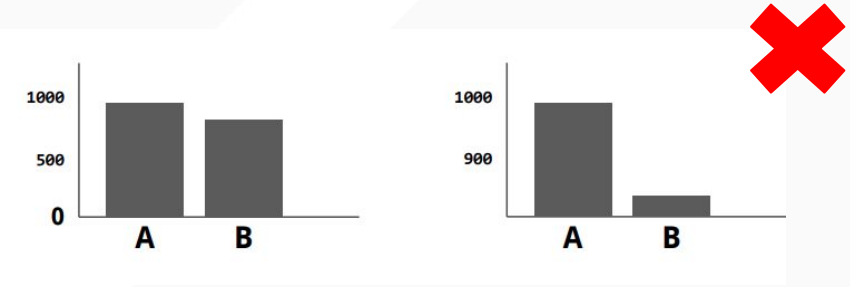
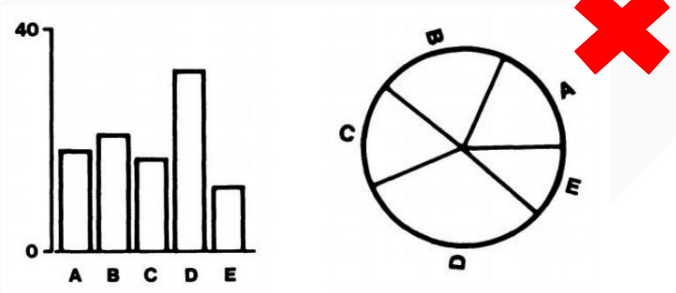
Expressiveness & Effectiveness

Express: Visual should only express the information provided by the data attributes. It should not distort or add anything extra to the data.



Effect: Greater the importance = greater salience (more noticeable)



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Common practices

- Considerations for colorblindness
- Label your axes
- Make sure numbers add up
- Avoid unnecessary whitespace
- Start y-axis on 0 for barplots
- KISS Principle (**K**eep **I**t **S**imple **S**tupid)

Colorblindness tool:
https://davidmathlogic.com/colorblind/#%23D81B60-%231E88E5-%23FFC107-%23004D40

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