Dr. Mindaugas Šarpis

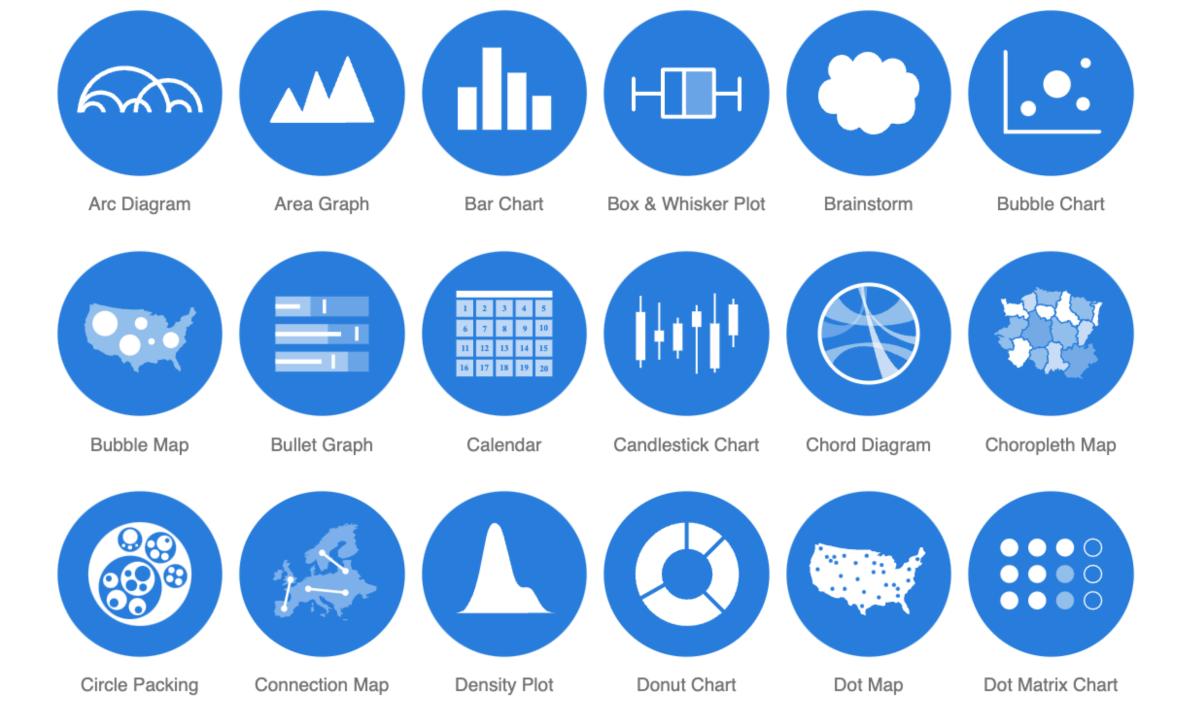
Lessons on Data Analysis from CERN

Lecture 5

Data Visualization

Data Visualization

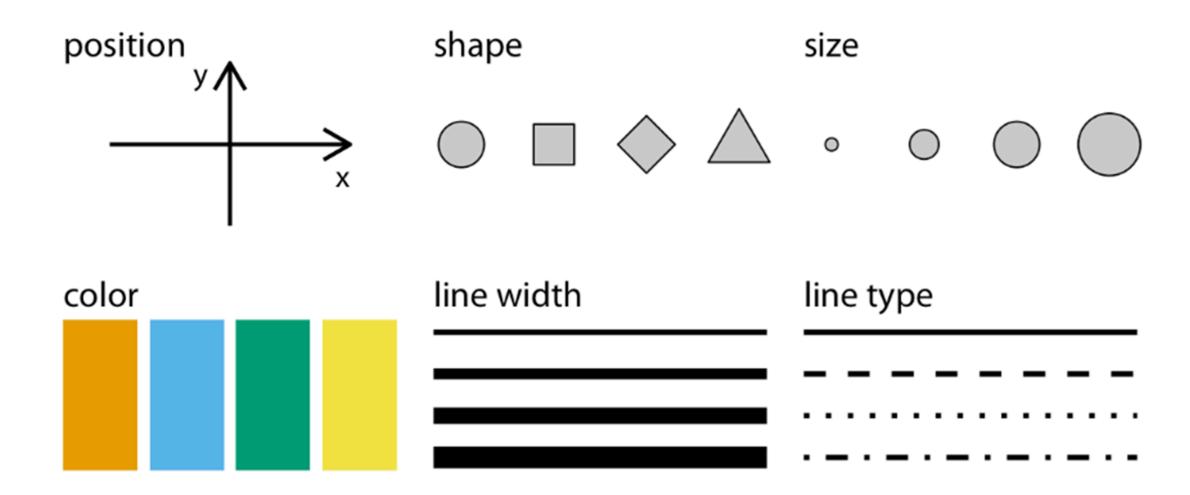
- One of the key components of data analysis
 - Interpreting Results
 - Reporting Findings
- Chosing appropriate method of visualization and representation is crucial







Aesthetics of Data Visualization

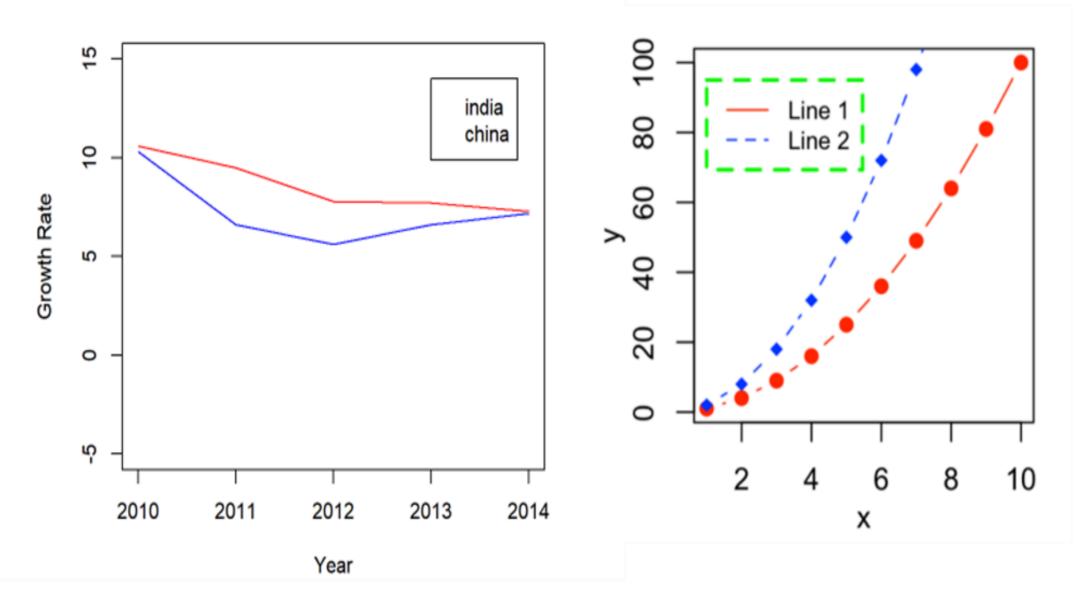


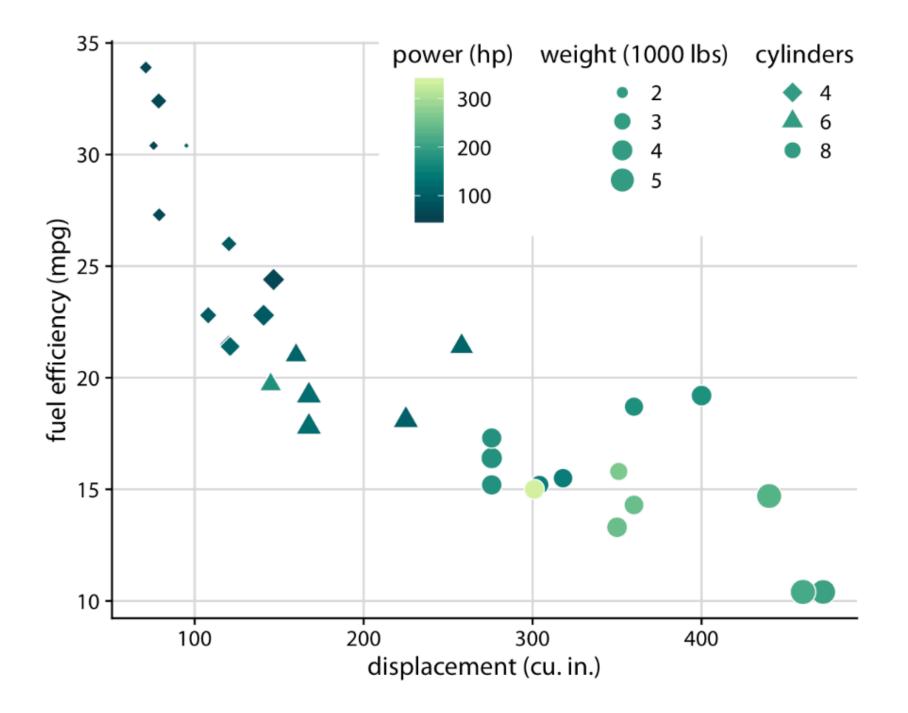
Continuous and Discrete Data

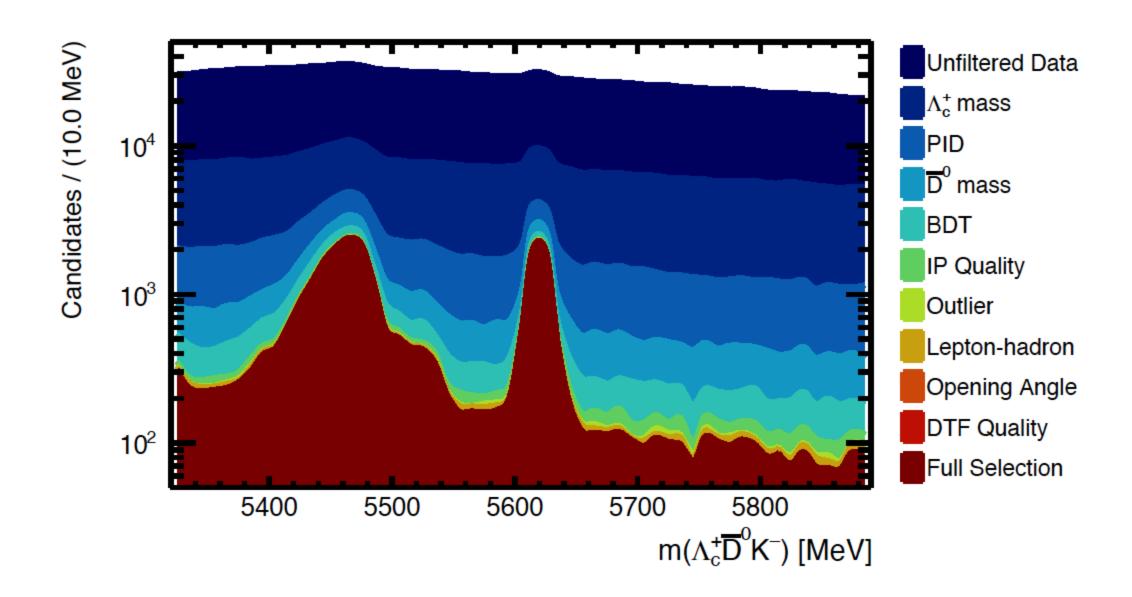
- Quantitative / Numerical Data
- Qualitative / Categorical Data
- Date and Time
- Text

Legend

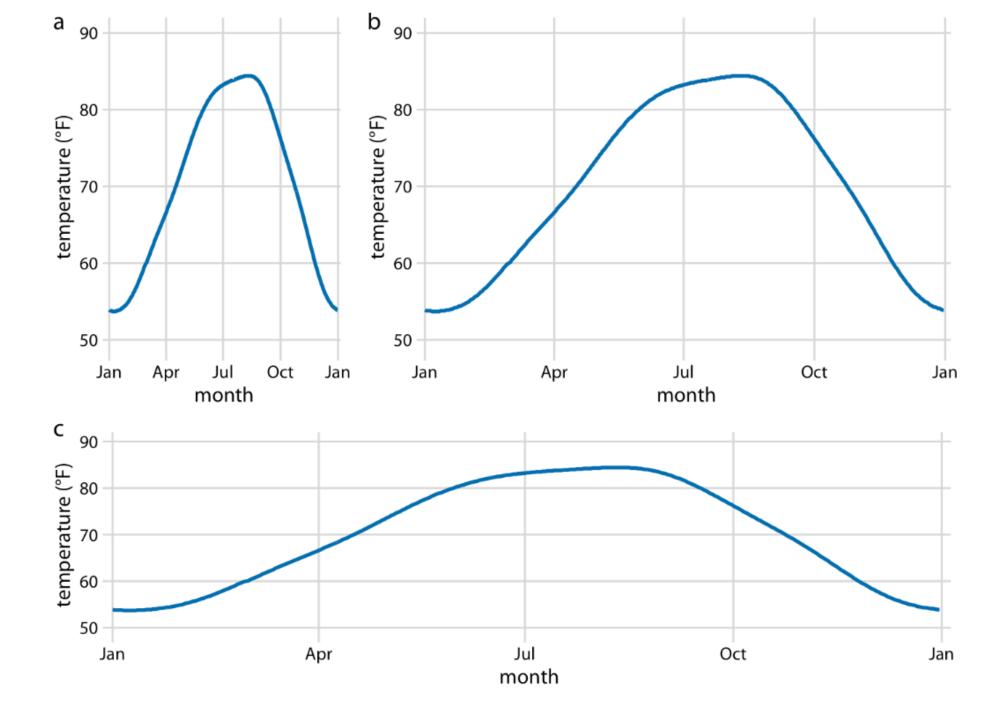
BRICS: Growth Rate

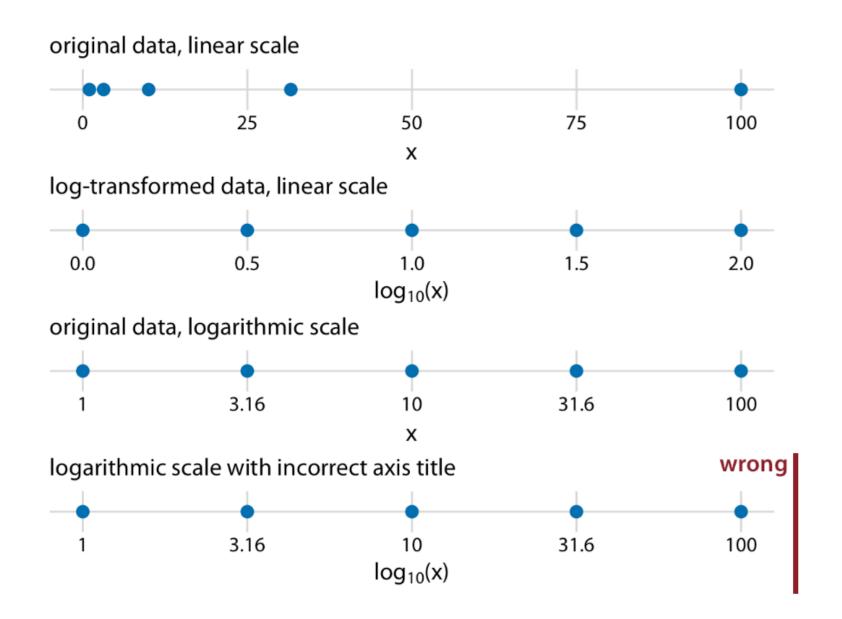






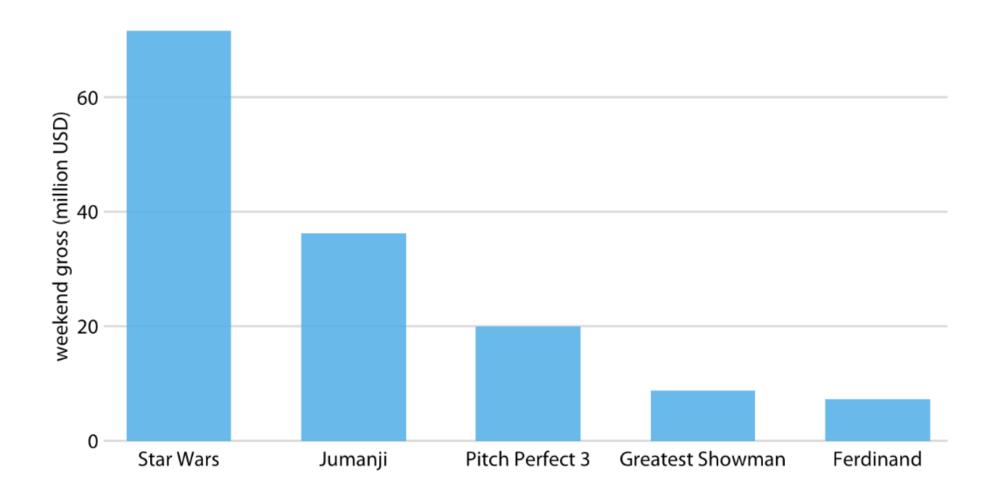
Axis and overall Scale

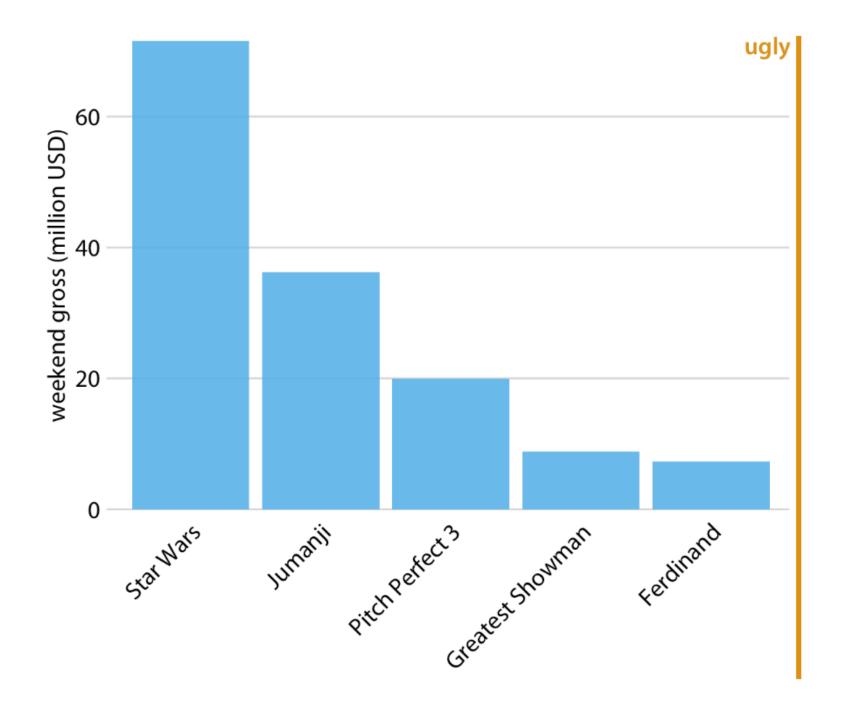


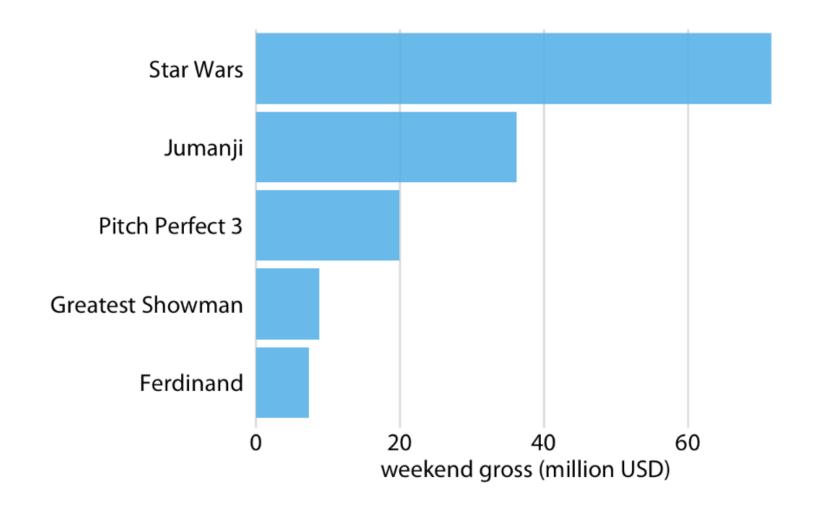


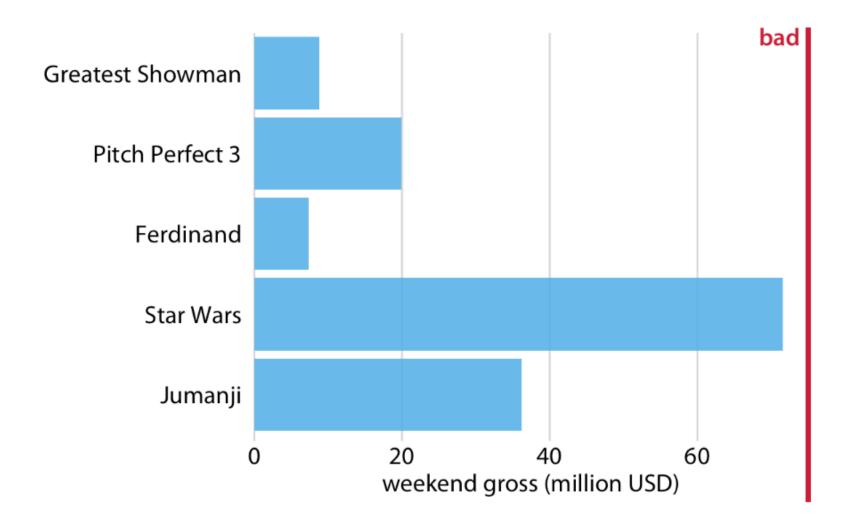
Visualizing Amounts

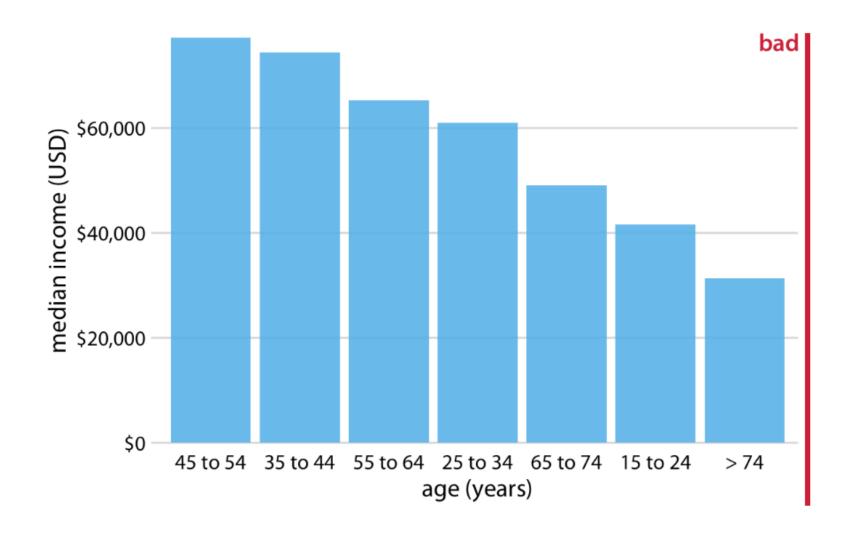
- Bar Charts
- Grouped Bar Charts
- Stacked Bar Charts
- Heat Maps

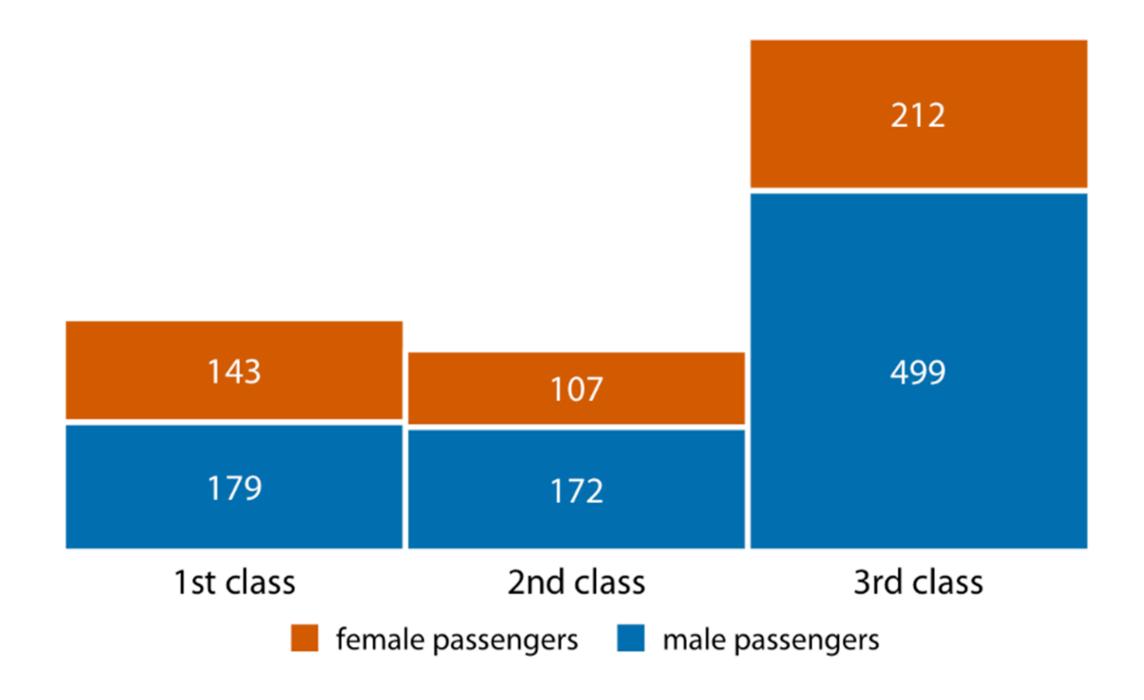


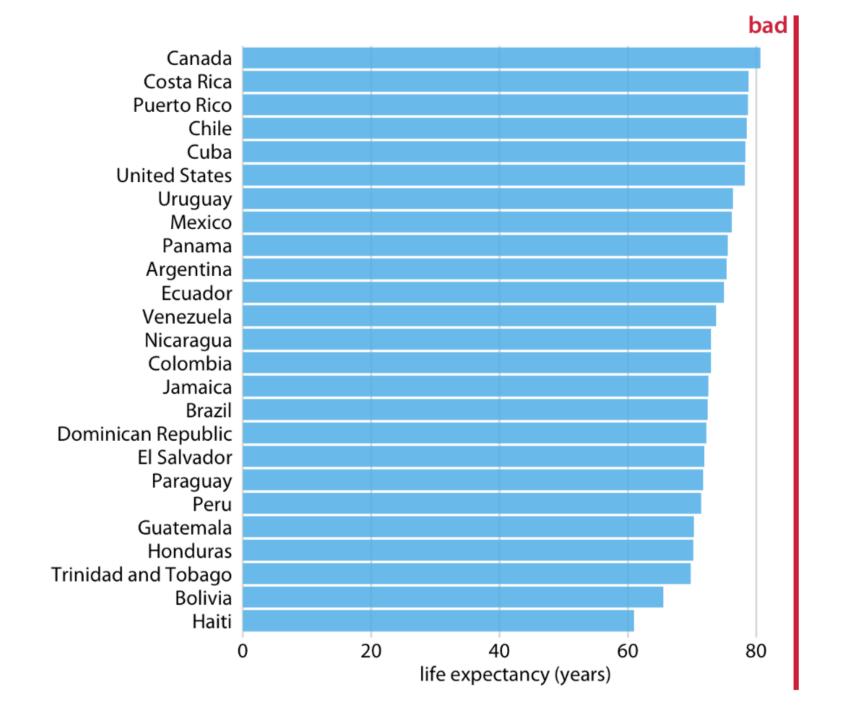


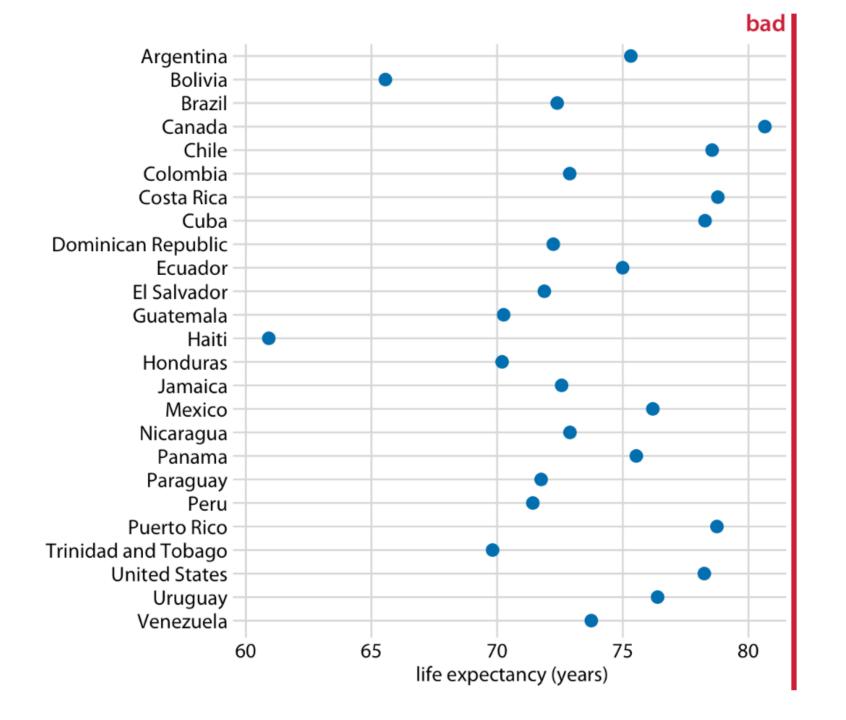


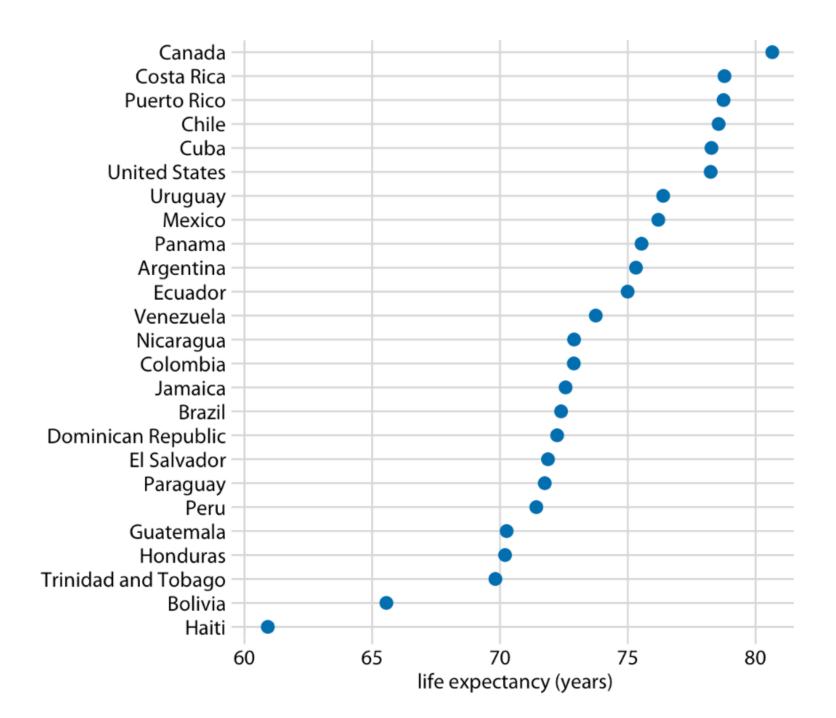




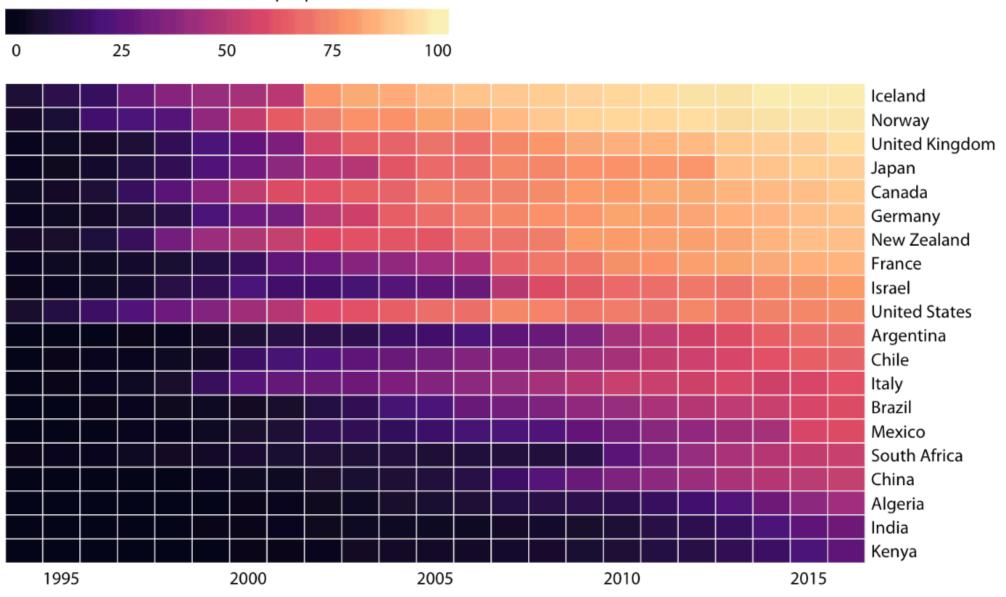




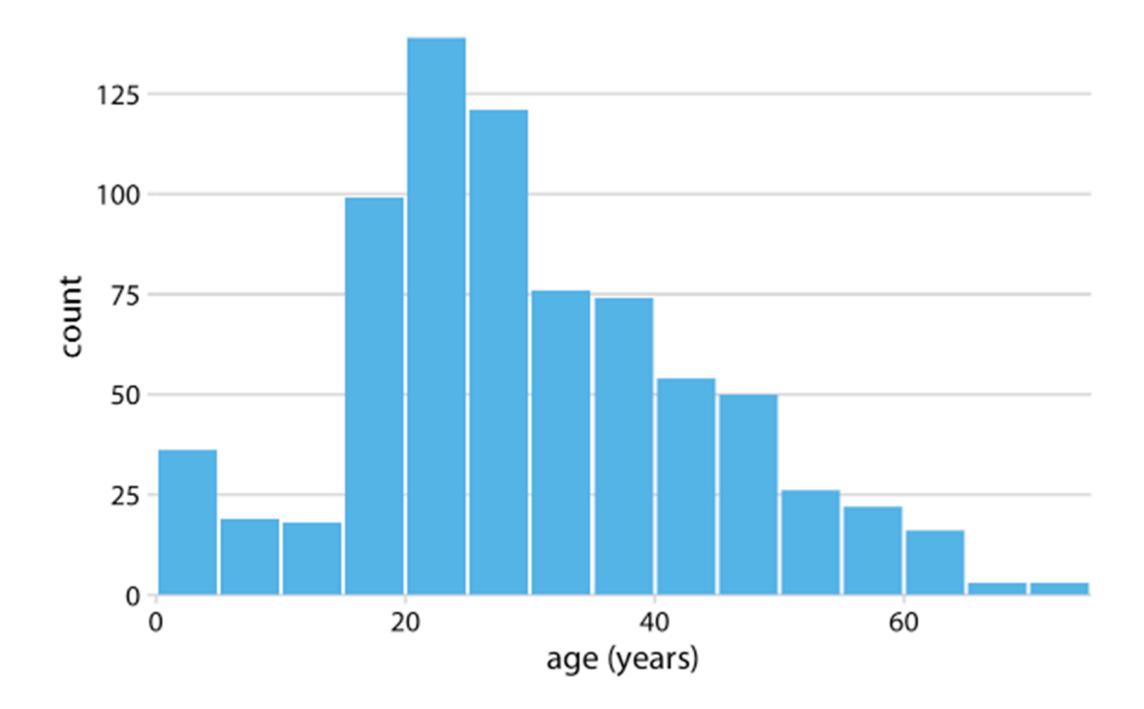


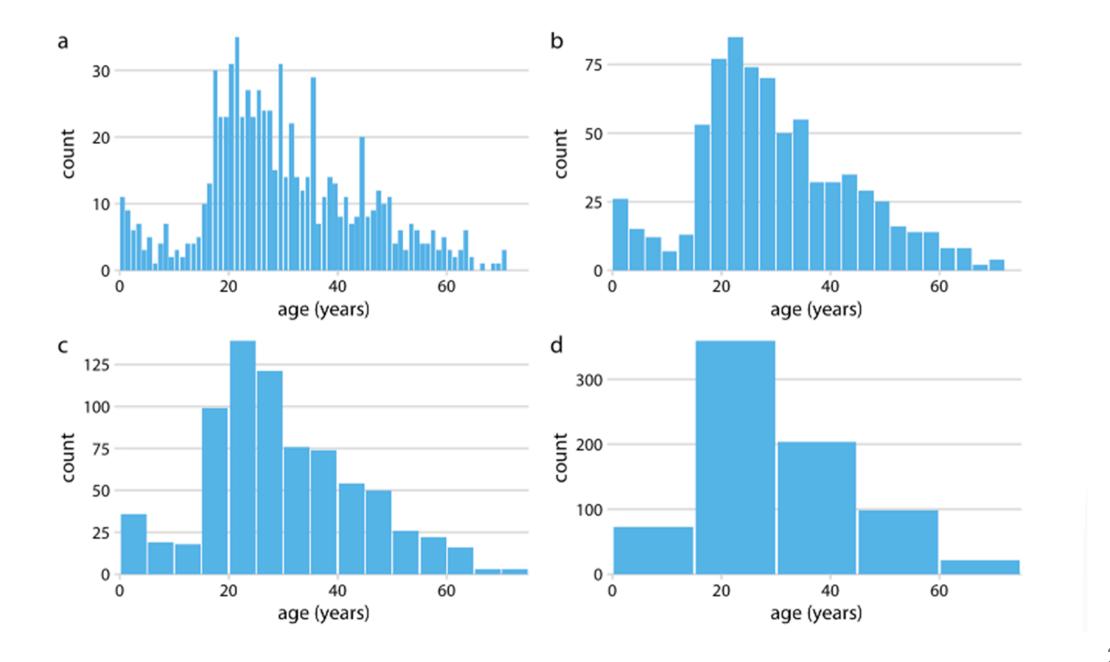


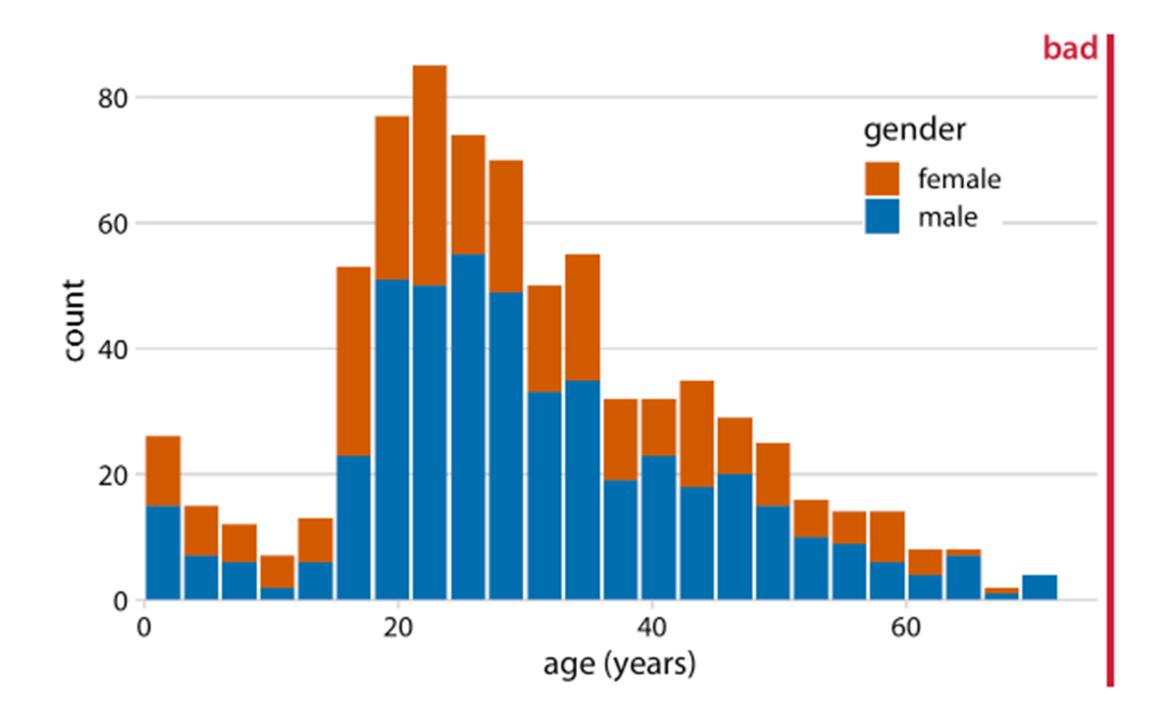
internet users / 100 people



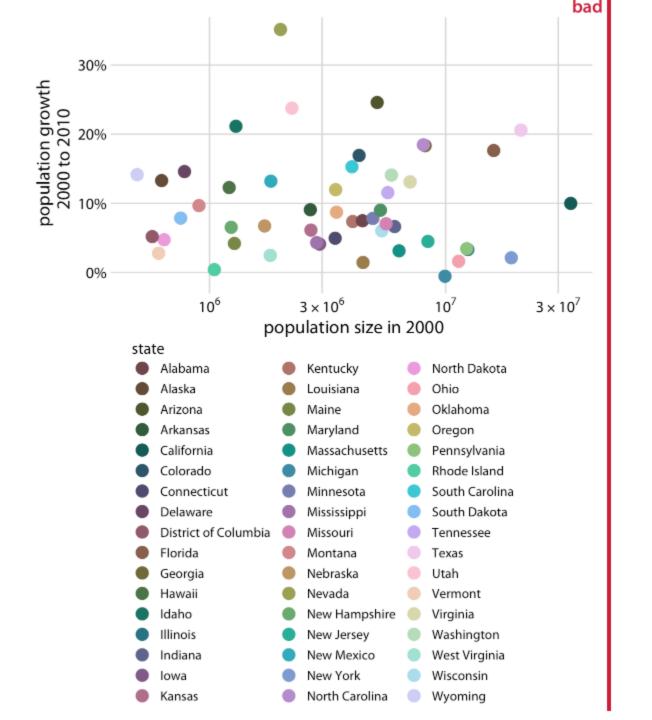
Histograms



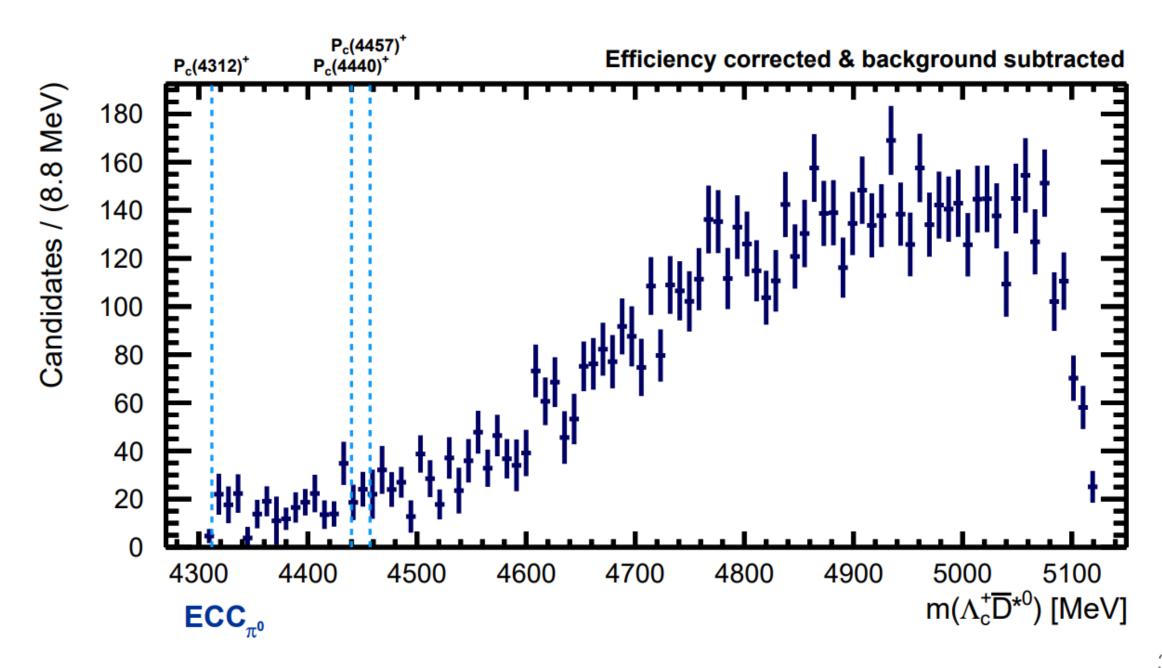


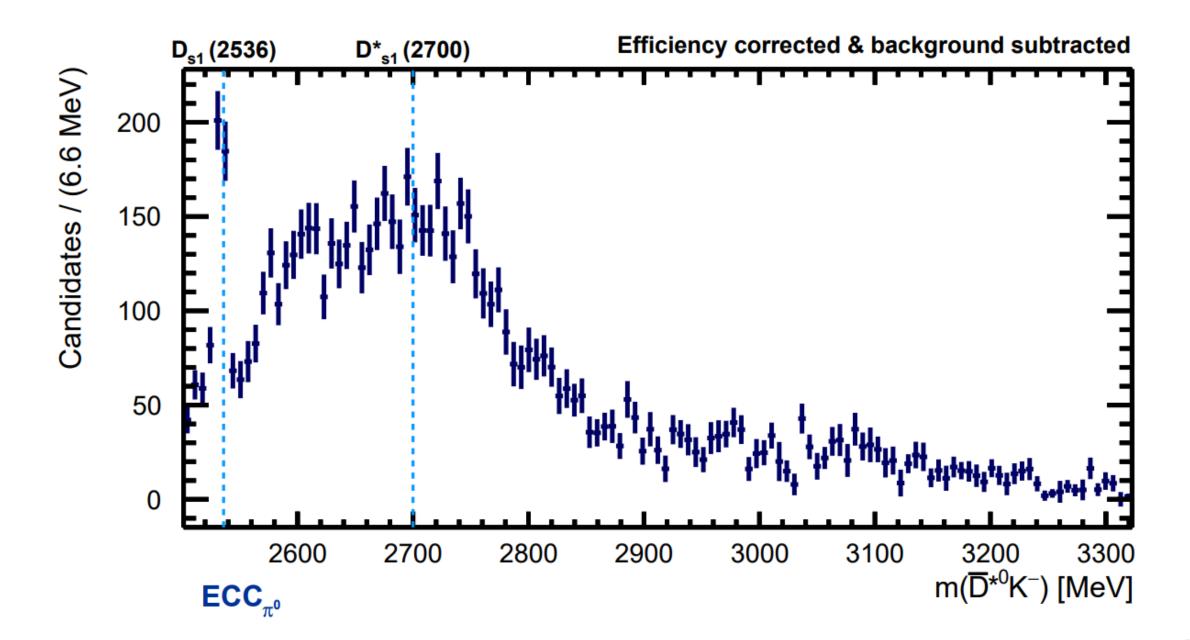


Color



Error Bars





Anatomy of a Plot

