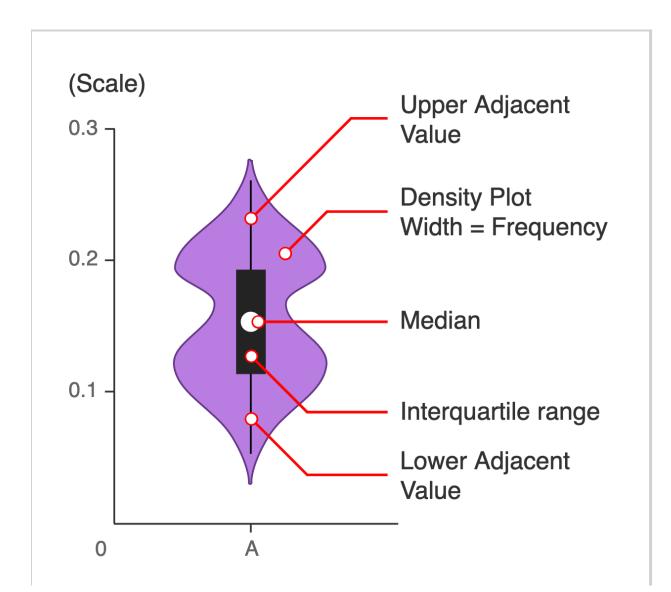
Agenda Week 5 Day 2

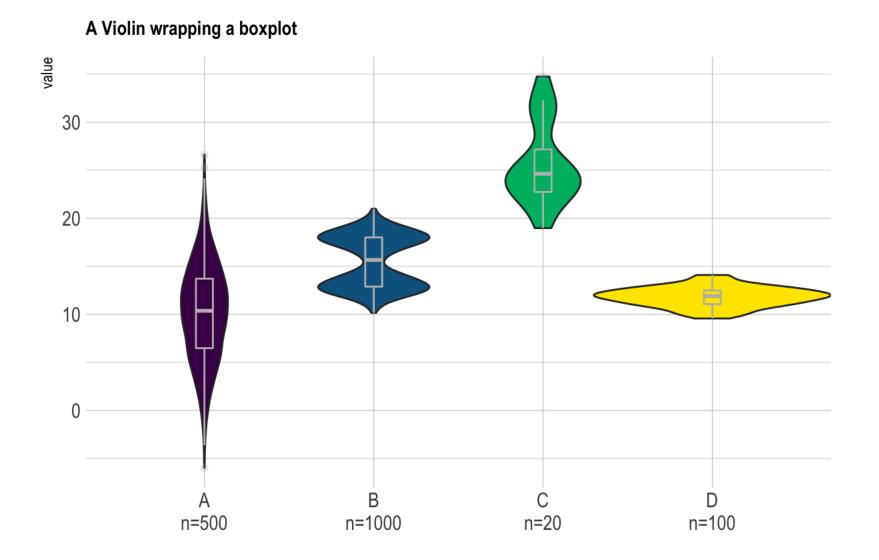
Today:

- 1. Interpreting (+critiquing) graphics from last time
 - boxplots, violin plots, correlation
- 2. Start thinking more deeply about 'when to use' different visualization + statistical approaches
- 3. Alluvial plots!

Violin Plots

- When to use it?
- Similar to boxplots
- Show probability density of data at different values
- Sometimes includes:
 - median marker
 - interquartile ranges

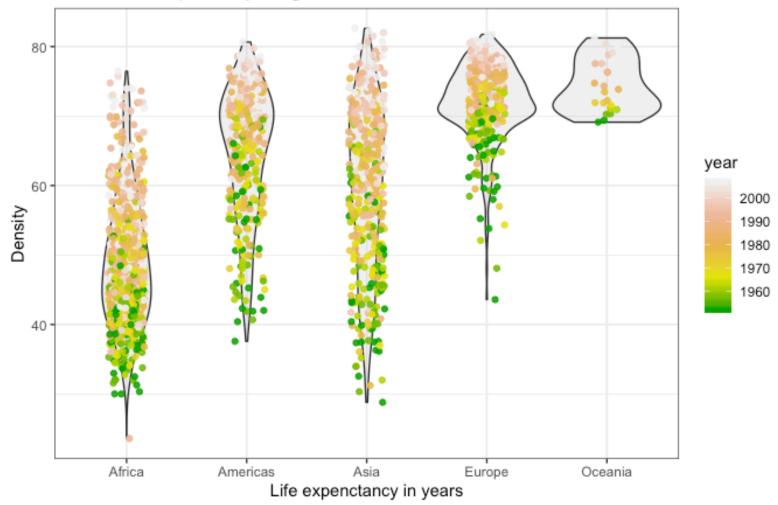




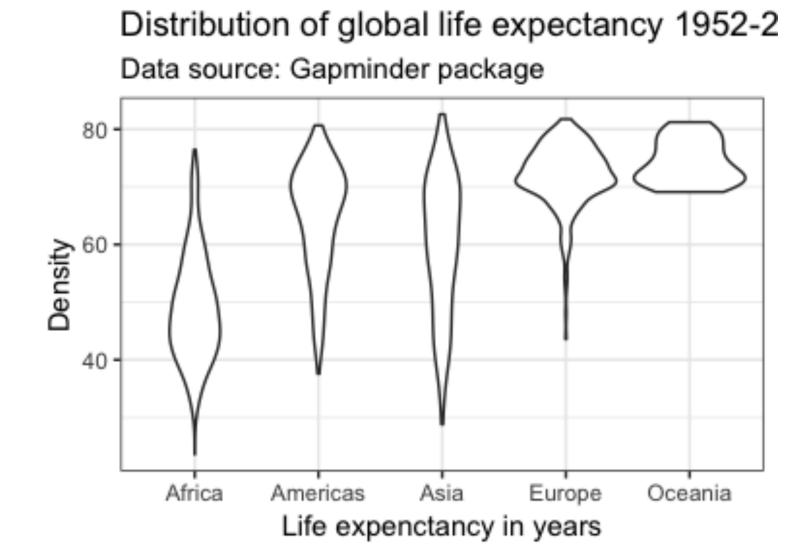
Critique

Distribution of global life expectancy 1952-2007

Data source: Gapminder package



Critique



Correlation: when is it useful?

- Bivariate correlation
 - visual exploration: scatterplots
- Correlation across multiple (or all) variables in the data
 - correlation matrix
 - Correlogram

Critique

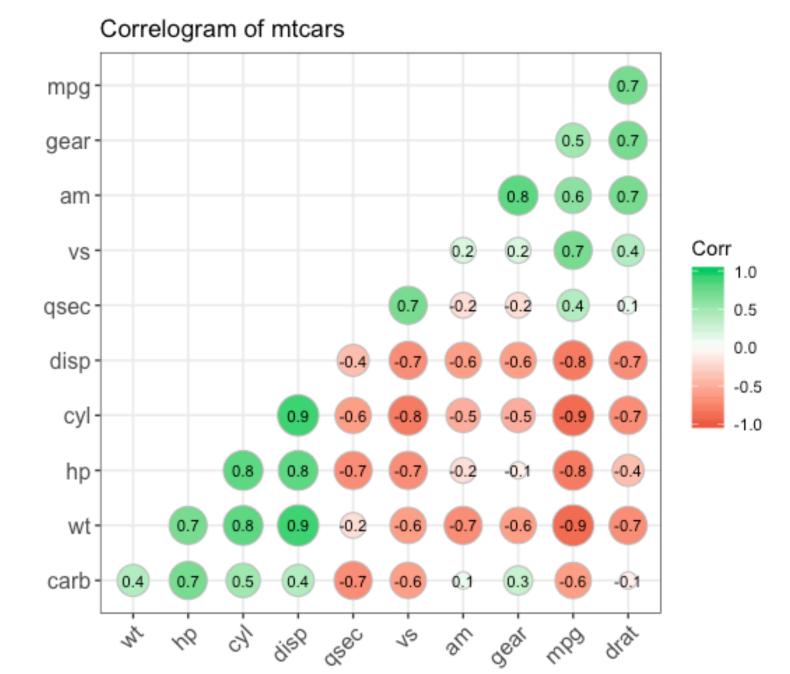
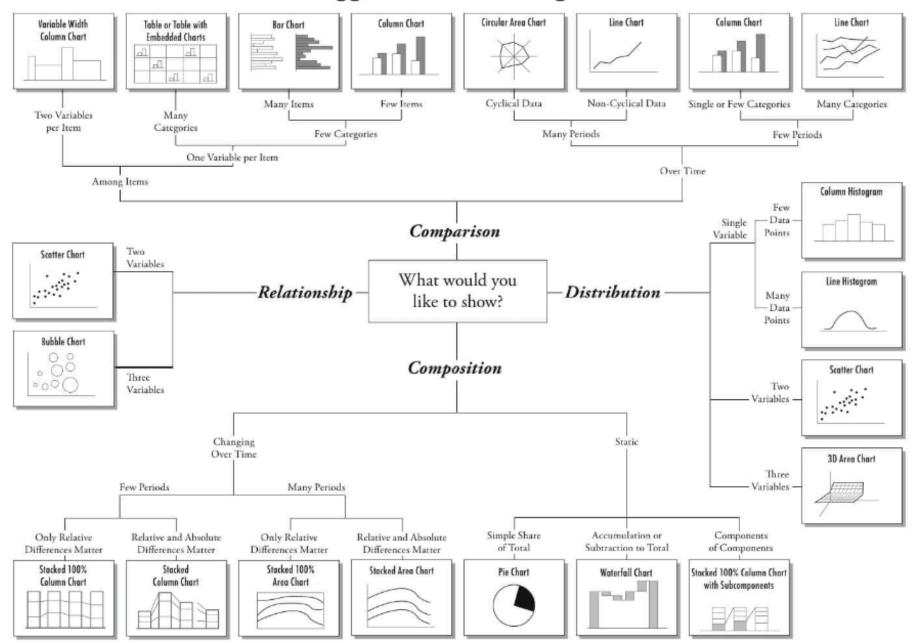


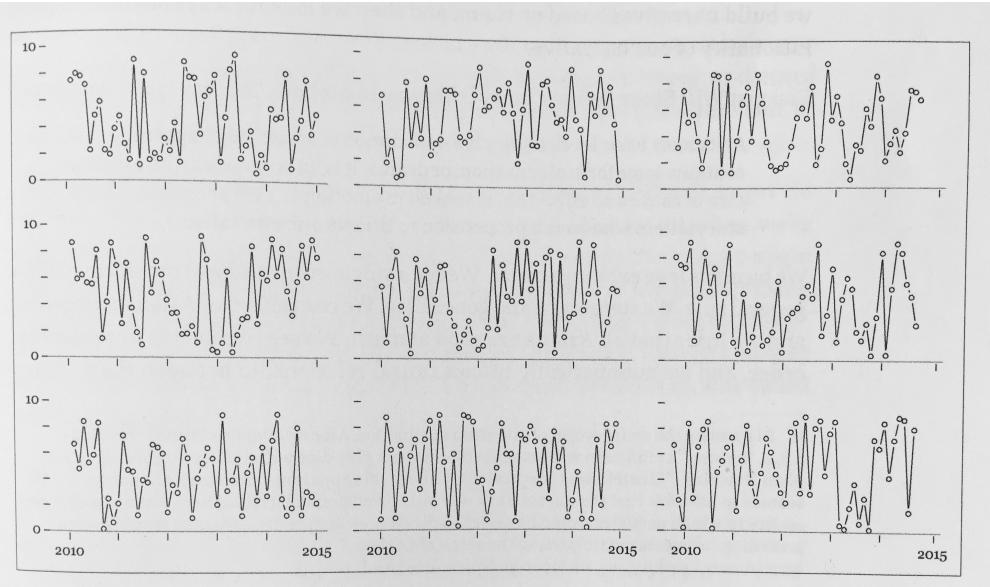
Chart Suggestions—A Thought-Starter



https://www.tatvic.com/blog/7-visualizations-learn-r/

tophat

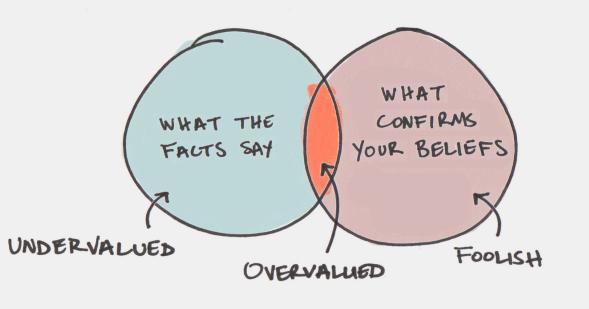
do you see a pattern?



Types of bias

- patternicity
- confirmation bias
- availability bias / observability bias

THE CONFIRMATION BIAS



JamesClear.com

THE AVAILABILITY HEURISTIC

