Fundamentals of Data Visualization

Chapter 8

April 27, 2023

Visualizing Distributions

- Histograms and density plots are highly intuitive and visually appealing.
- Both arbitrarily depend on choice of parameters.
  - bin width
  - kernel function
  - bandwidth
- Empirical cumulative distribution functions (ecdfs) and quantile-quantile (q-q) plots solve these problems.
- No parameter choices involved.
- Less intuitive than histograms and density plots.
- Quite popular among statisticians.
- Deserve more widespread use.