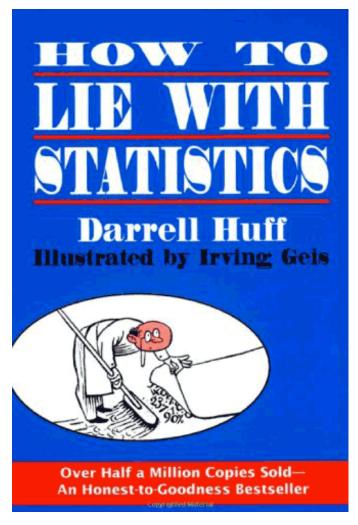
How to avoid misleading with data visualization

This is a useful article on the ten rules for displaying (scientific) data in PLOS:

http://www.ploscompbiol.org/article/info:doi/10.1371/journal.pcbi.1003833

- 1. Know your audience
- 2. Identify your message
- 3. Adapt the figure to the support medium
- 4. Captions are not optional
- 5. Do not trust the defaults
- 6. USE COLOUR EFFECTIVELY
- 7. Do not mislead the reader

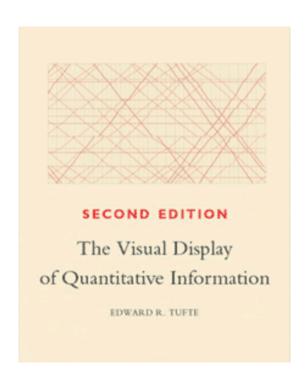
 represent magnitudes honestly
- 8. Avoid "Chartjunk" ← make patterns easy to see
- 9. Message trumps beauty ←show data
- **10.Get the right tool** ← draw graphical elements clearly

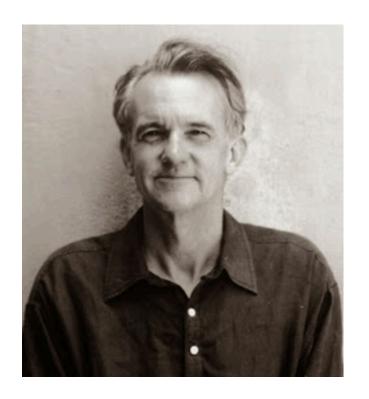


- 1. The sample with the built-in bias
- The well-chosen average
- 3. The little figures that are not there
- 4. Much ado about practically nothing
- 5. The Gee-whiz graph
- 6. The one-dimensional picture
- 7. The semi-attached figure
- 8. Post hoc rides again
- 9. How to staticulate
- 10. How to talk back to a statistic

"How to Lie with Statistics" is still the gold standard of conveying statistical/uncertain information.

More modern version: Edward R. Tufte "The Visual Display of Quantitative information" covers similar topics but adds a bit more modern depth.





The "Gee Whiz" Graph

