

Homework 1b: Visual Displays – Graphical Integrity; Theory (Part 1)

1. Explain how each of the first three graphics on pp. 54-55 “fail to tell the truth.”
2. Estimate the “lie factor” for the change in US fuel economy standards between 1980 and 1984 using the graphic on p.57. Show your work.
3. Both the graphic at the bottom of p.66 and the one in the middle of p.68 depict changes in the New York state budget over time.
 - a. Comment on the message conveyed by each.
 - b. Explain why you would choose one of these over the other if you were reporting on the New York state budget over time.
4. The graphic on the bottom of p.102 and the one on the top of p.105 are based on the same data. Discuss why one is more effective.
5. Consider the graphics below. For each figure, comment on how the graphic adheres (or not) to Tufte’s six principles of graphical integrity.

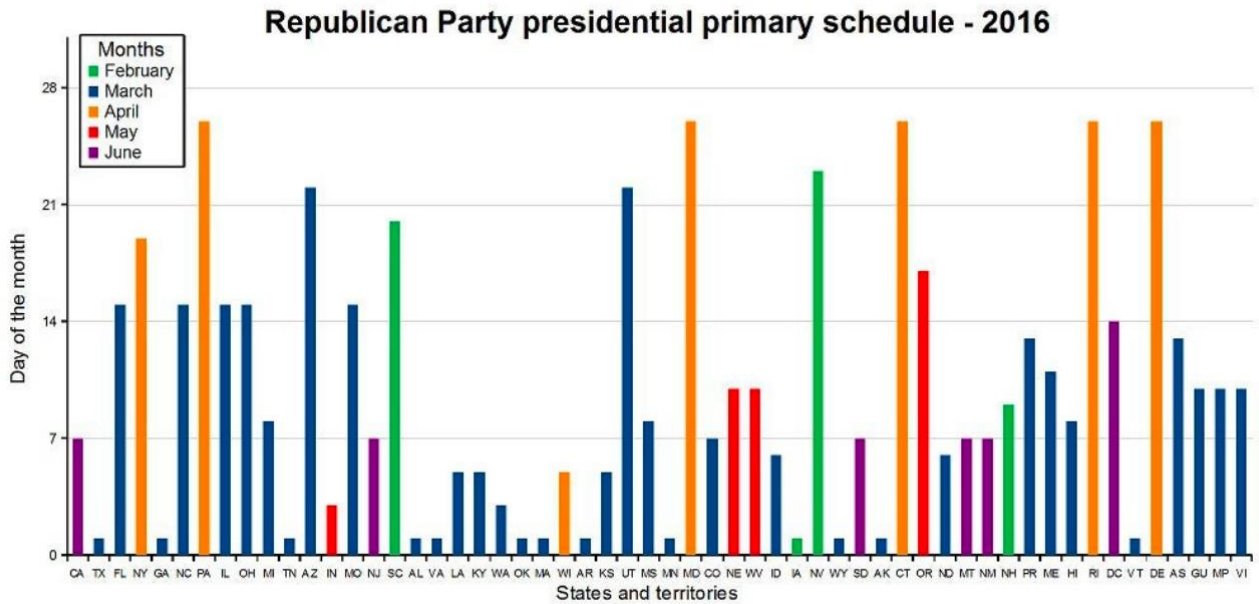


Figure 4a

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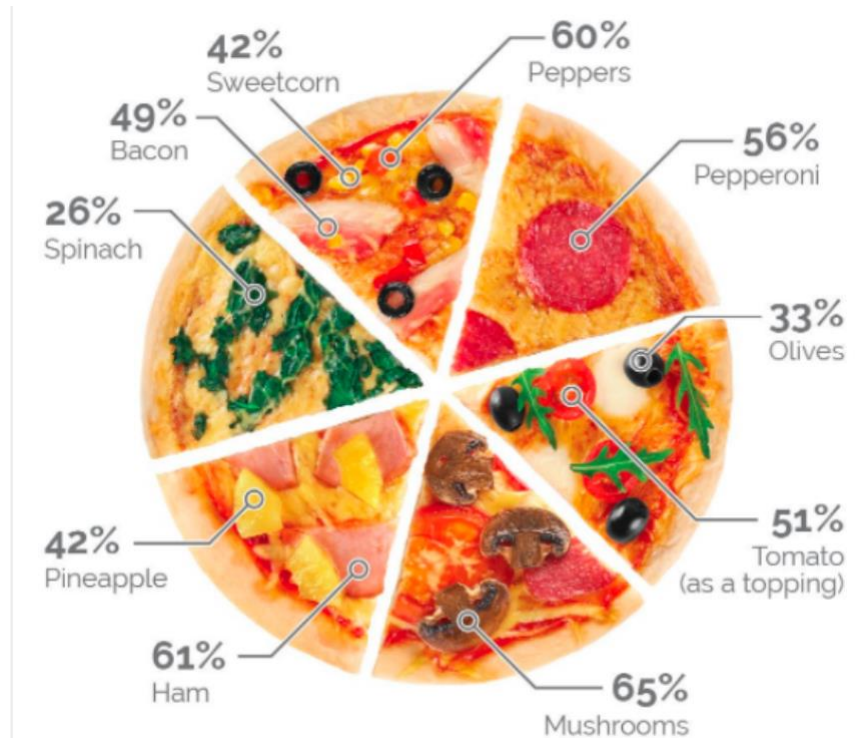


Figure 4b

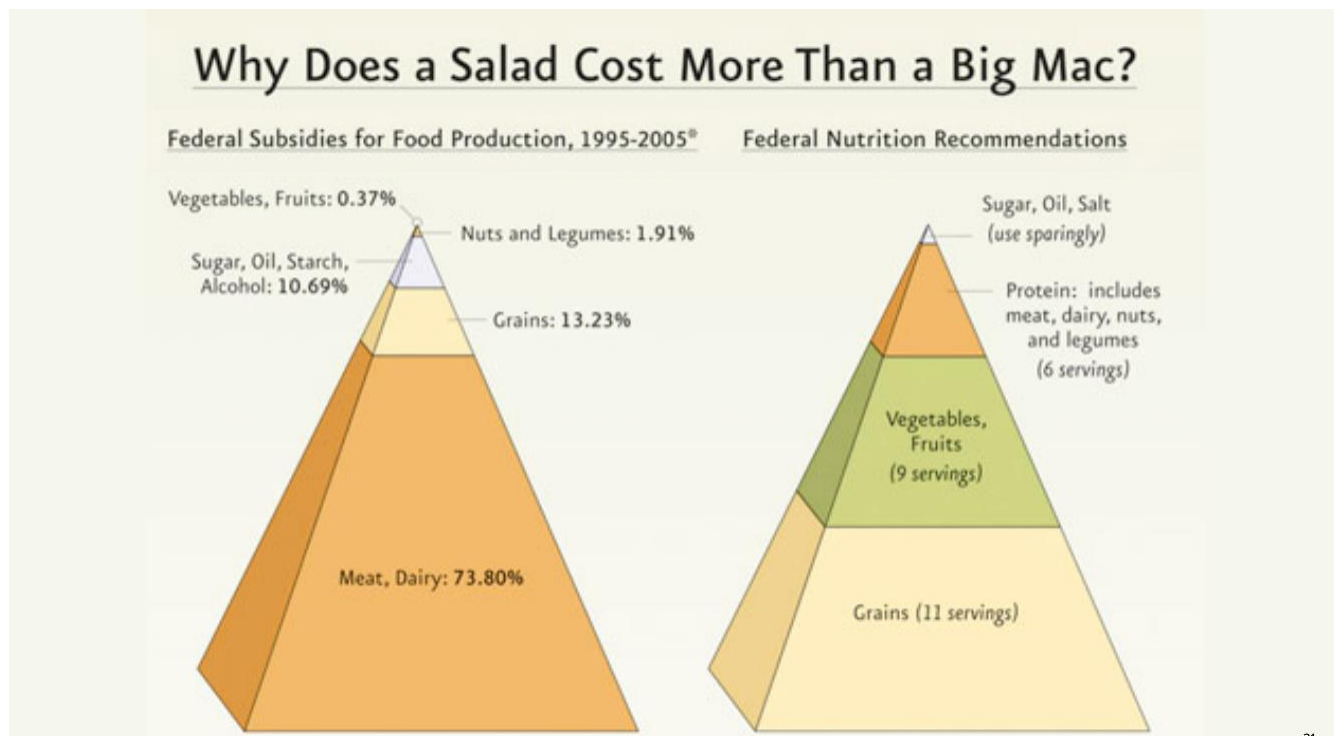


Figure 4c