

STAT 1291: Data Science

Homework 4: Dissecting graphics

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1. (Exercise 2.3, modified)

From the data graphic in Figure 1,

- Identify the visual cues, coordinate system, and scale(s).
- How many variables are depicted in the graphic? Explicitly link each variable to a visual cue that you listed above.
- Critique this data graphic using the taxonomy described in Chapter 2, MDSR.

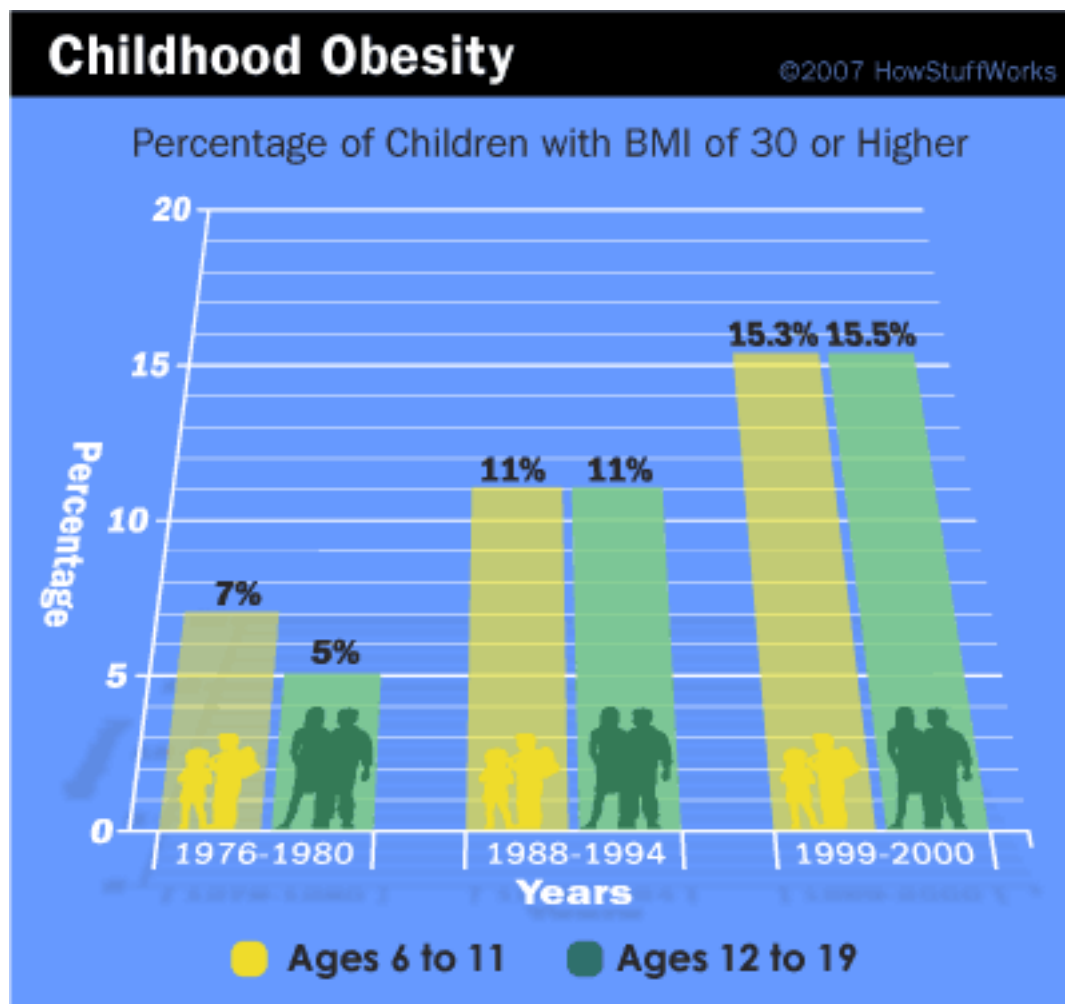


Figure 1: Figure 1. Childhood Obesity in the US.

2. (Exercise 2.4, modified)

Choose one of the data graphic collections,

- What is a Data Scientist? (URL <http://tinyurl.com/what-is-datascientist>)
- Charts that explain food in America (URL <http://www.vox.com/a/explain-food-america>)

and briefly (one paragraph) critique the designer's choices. Would you have made different choices? Why or why not.

Note: Each link contains a collection of many data graphics, and we don't expect (or want) you to write a dissertation on each individual graphic. But each collection shares some common stylistic elements. You should comment on a few things that you notice about the design of the collection.

3. (Data graphic in the wild)

Find a graphic on the web that interests you. You may visit <https://www.reddit.com/r/dataisbeautiful/> as a starter. In your report, include the graphic and the URL to the graphic. Answer the following.

- Identify the visual cues, coordinate system, and scale(s).
- How many variables are depicted in the graphic? Explicitly link each variable to a visual cue that you listed above.
- Critique this data graphic using the taxonomy described in Chapter 2, MDSR.