## Sensible Design: Typography

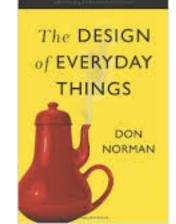
How much do you trust this text?



## Sensible Design: Beyond Data Science

The everyday items that are designed the best are the ones that we never have to think about how to use/interact with it.

Can you think of examples?



Highly recommended



### Sensible Design: Beyond Data Science

# **Lesson V: design matters**



## Agenda

- EDA Refresher
- Effective Visualization
  - Graphical Integrity
  - Scope
  - Displays
  - Sensible Design

- Communication
  - Motivation
  - Key Considerations

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#### Communication

### Analyze (Exploratory)

- Explore the data
- Assess a situation
- Determine how to proceed
- Decide what to do

### Communicate (Explanatory)

- Present data and ideas
- Explain and inform
- Provide evidence and support
- Influence and persuade



### The Persuasive Power of Data Visualization

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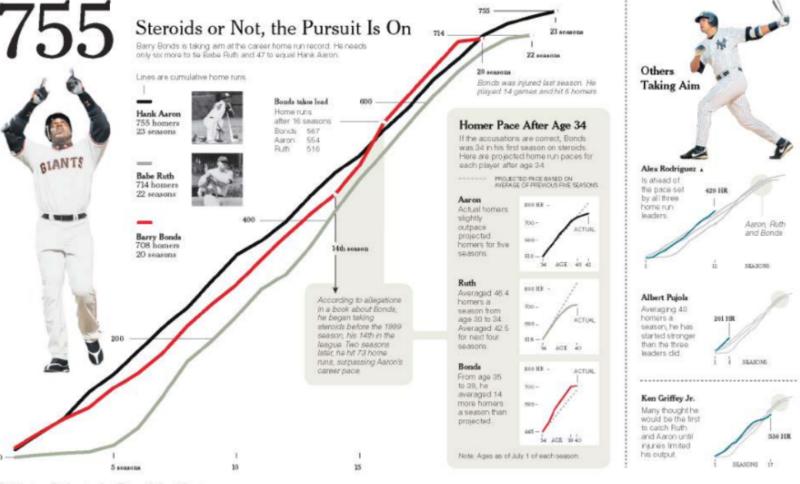
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After looking into common effects in attitude formation and change we searched for specific mentions to the graphical appearance of charts as a driver for persuasion. Some of the comments we collected seem to back up the findings we found in our results. Some participants explicitly mention the charts as being the main reason for their change: "I already knew that increased incarceration didn't lower crime, but I wasn't sure of the statistics. To see it on the graphs is really eye opening."; "I was influenced by the bar graph showing the reasons why the survey respondents played video games."; "I would not know exact numbers on this issue - the graphs gave a visual and helped identify the numbers"; "Seeing the graphs conflicted with my previous opinion, so I feel like I need to reevaluate my stance in a way."

It is also important to mention that the graphical appearance of charts is not the only factor that has a strong impact on people's attitude. In our collected feedback, we found numerous references to statistics and numbers, suggesting that mere exposure to data does have a persuasive effect – maybe at least partially due to the increased sense of objectivity evidence supported by numbers carries. We found comments like: "It was concrete data that seemed compelling.; "Seeing numbers is a good indicator of change rather than just reading what someone has to say"; "It showed a large amount of different sources, which made it more credible". More research is needed to disentangle what kind of specific effects each of these components have on persuasion.



#### Communication









#### Minard's Graphic on Napoleon's Russia Campaign

