Data Visualization

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Why visualization?

Start with: What problem are you solving?

Data Visualization vs. Infographics

- Algorithmically drawn
- Easy to regenerate
- Often aesthetically barren
- Relatively data rich

- Manually drawn
- Specific data
- Aesthetically rich
- Relatively data poor

Exploration/Explanation

We have a whole bunch of data and we're not sure what is in it.

We know what our data looks like, but we need to convey it, or tell a story to others.

Inspecting the Data

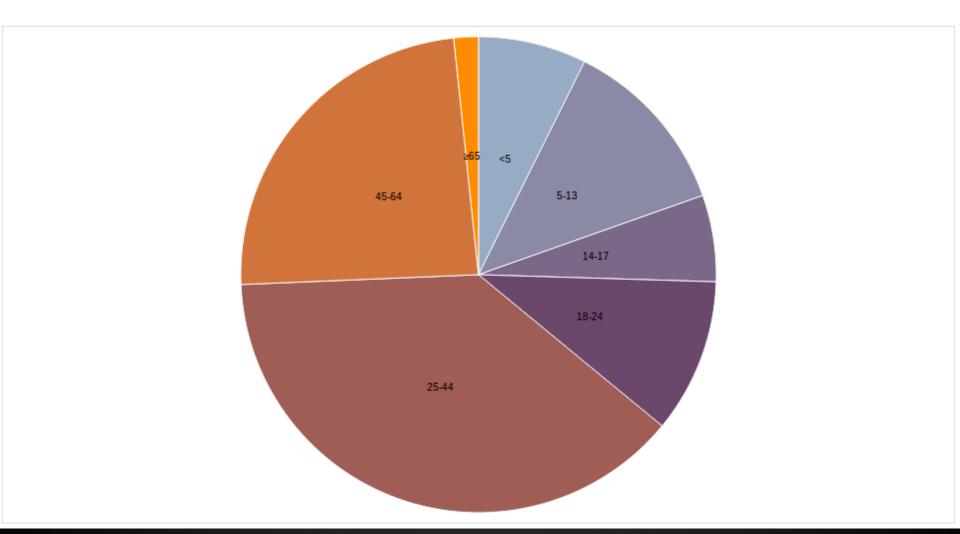
- Where is our data problematic / incorrect?
- What trends or patterns (often over time) can we identify?
- Can we identify relationships in our data?
- Simplify, simplify. Use statistics!

d3

data-driven documents

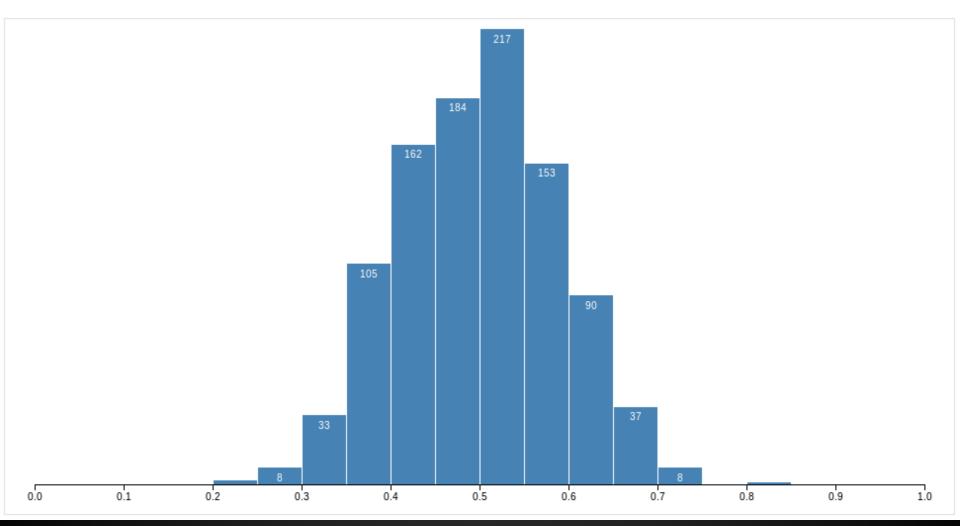
Pie chart!

Pie Chart



Histogram!

Histogram



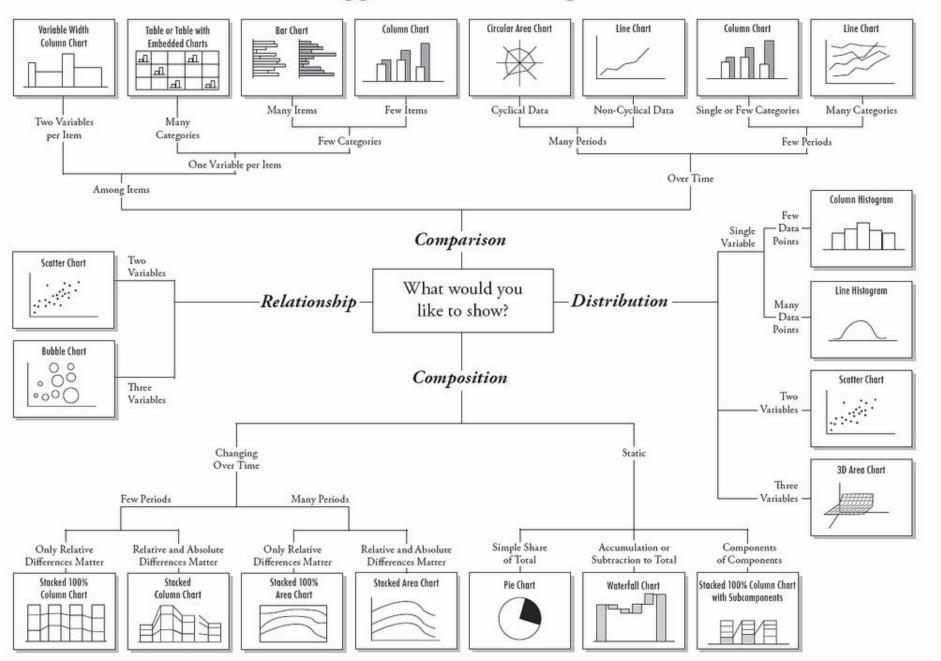
Data formats

or why JSON is the greatest thing ever

Visualization = Simplification

get a high-level view of what's going on

Chart Suggestions—A Thought-Starter



Big Data

visualization makes it manageable

Exercises!