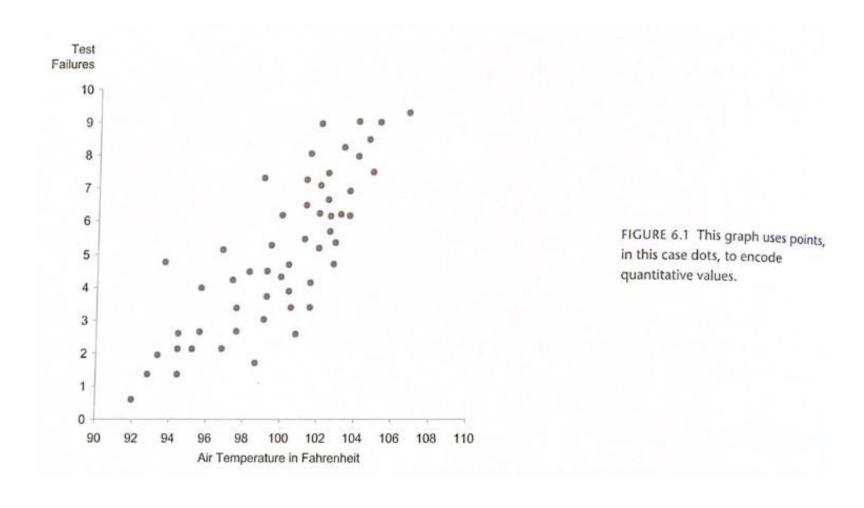
Chapter 6 Overview Cairo video (0-31 min)

Anh D Mai Ho

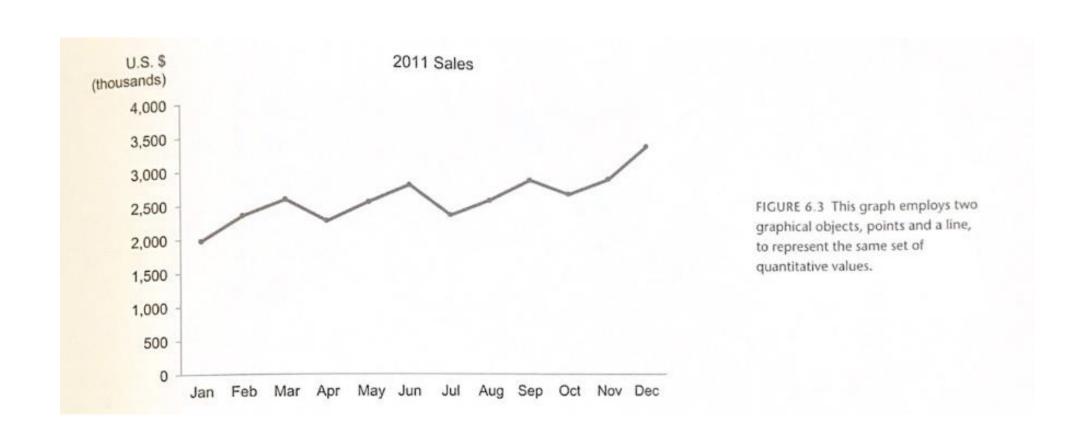
Fundamentals Variations of Graphs

- Quantitative values can be represented in graphs using:
 - Points
 - Lines
 - Bars
 - Boxes
 - Shapes with varying 2-D arrays
 - Shares with varying color intensity

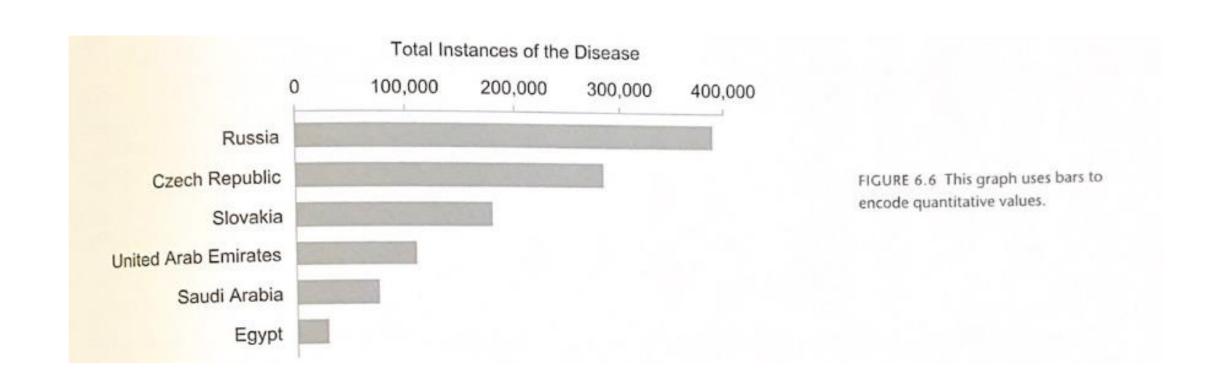
Point



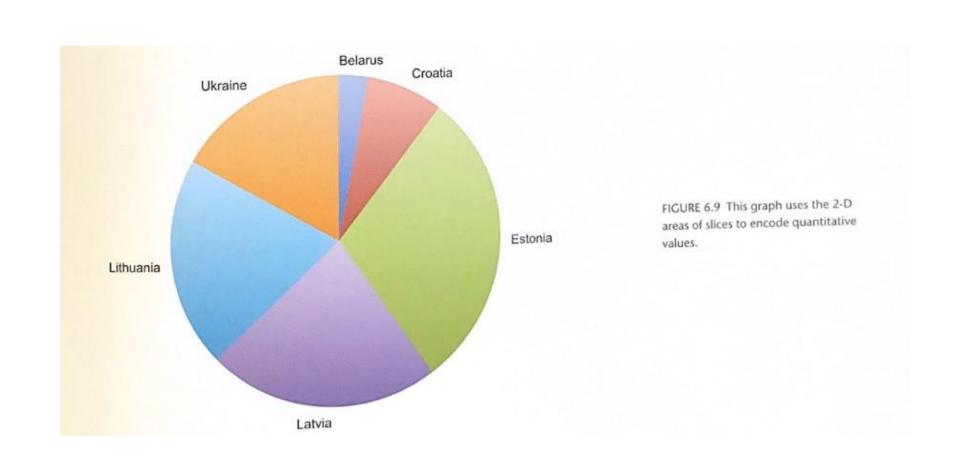
Line



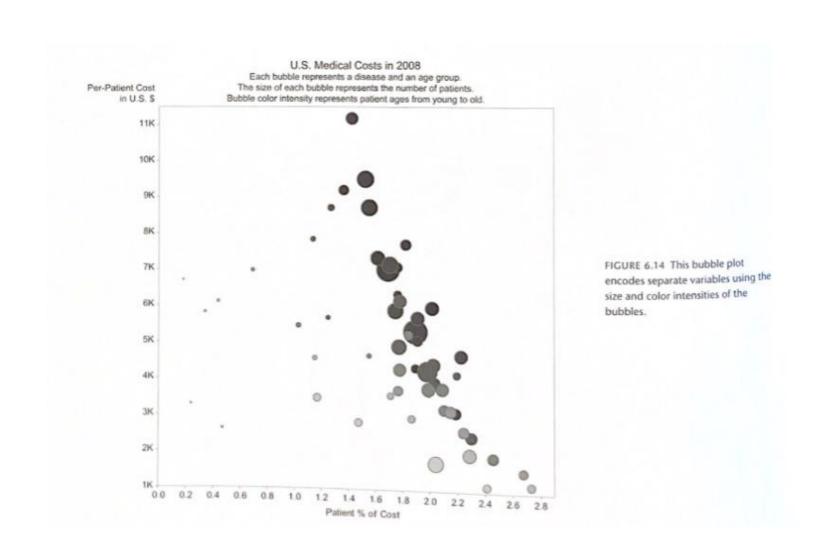
Bar



2-D Areas with 2-D array



2-D Areas with color intensity

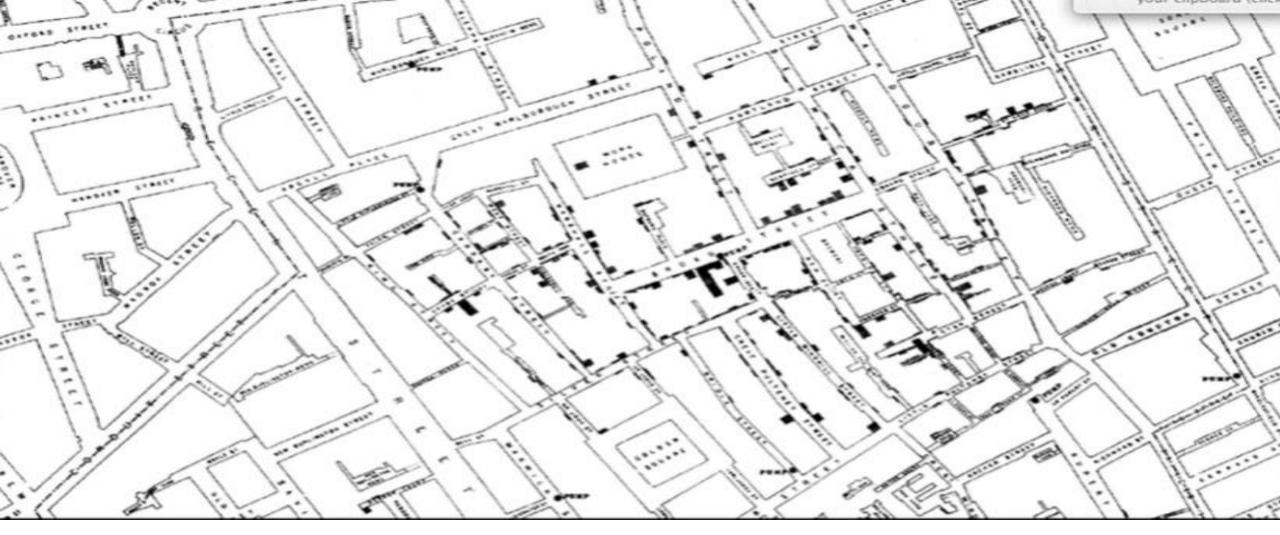


Relationship in graph

- Time series
- Ranking
- Part-to-whole
- Deviation
- Distribution
- Correlation
- Geospatial
- Nominal comparison

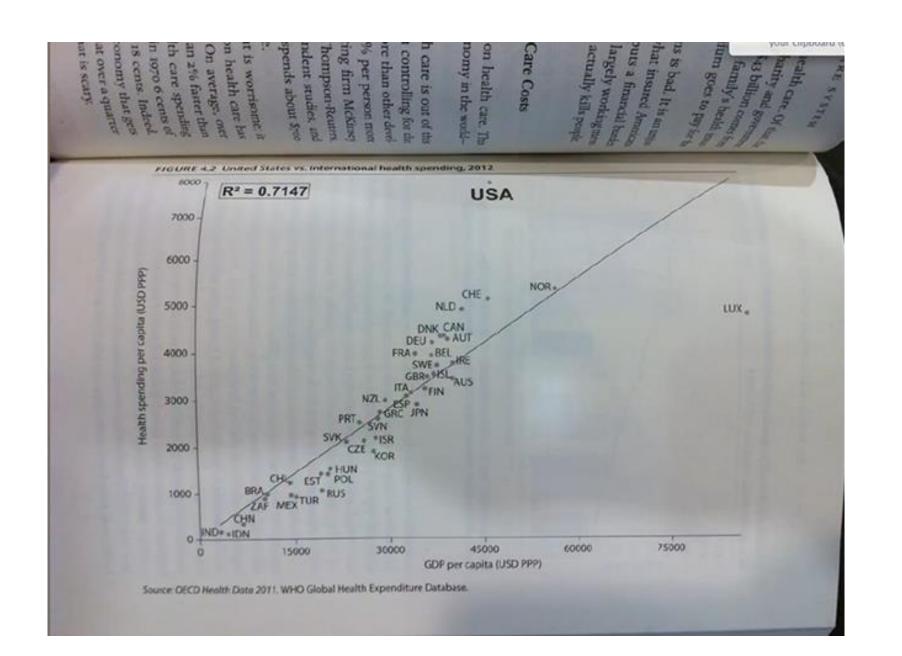
Chapter 6 Summary

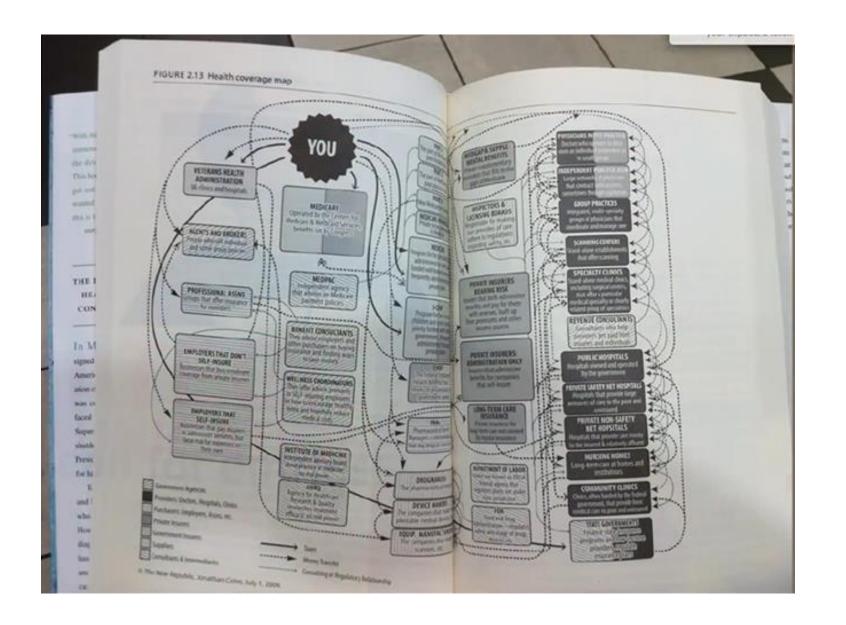
Summary at a Glance				
Relationship	Value-Encoding Objects			
	Points	Lines	Bars	Boxes
Nominal Comparison	In the form of a dot plot when you can't use bars because the quantitative scale does not begin at zero	Avoid	Horizontal or vertical	Avoid
Time Series	In the form of a dot plot, but only when values were not collected at consistent intervals of time	Emphasis on overall pattern; categorical items on X axis, quantitative values on Y axis	Emphasis on individual values; categorical items on X axis, quantitative values on Y axis	Only when showing distributions as they change through time; categorical items on X axis, quantitative values on Y axis
Ranking	In the form of a dot plot, especially when you can't use bars because the quantitative scale does not begin at zero	Avoid	Horizontal or vertical	Only when ranking multiple distributions horizontal or vertical
Part-to-Whole	Avoid	To display how parts of a whole have changed through time		Avoid
Deviation	As a dot plot when the quantitative scale does not begin at zero	Useful when combined with a time series	Horizontal or vertical, but always vertical when combined with time series	Avoid
Distribution			Known as a histogram;	Avoid
Single	Known as a strip plot; emphasis on individual values	Known as a frequency polygon; emphasis on overall pattern	emphasis on individual intervals	
Multiple	Known as a strip plot; emphasis on individual values	Known as a frequency polygon; limit to a few lines	Avoid	Known as a box plot
Correlation	Known as a scatter plot	Avoid	Horizontal or vertical, in the form of a table lens	Avoid
Geospatial	Vary point sizes to encode values	To mark routes	Avoid	Avoid



"It's more complicated than that"

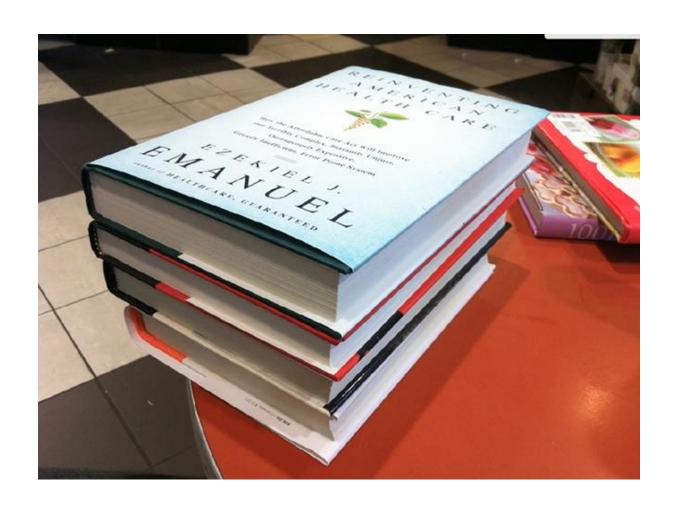
Infographics and visualization that oversimplify or obfuscate By Alberto Cairo

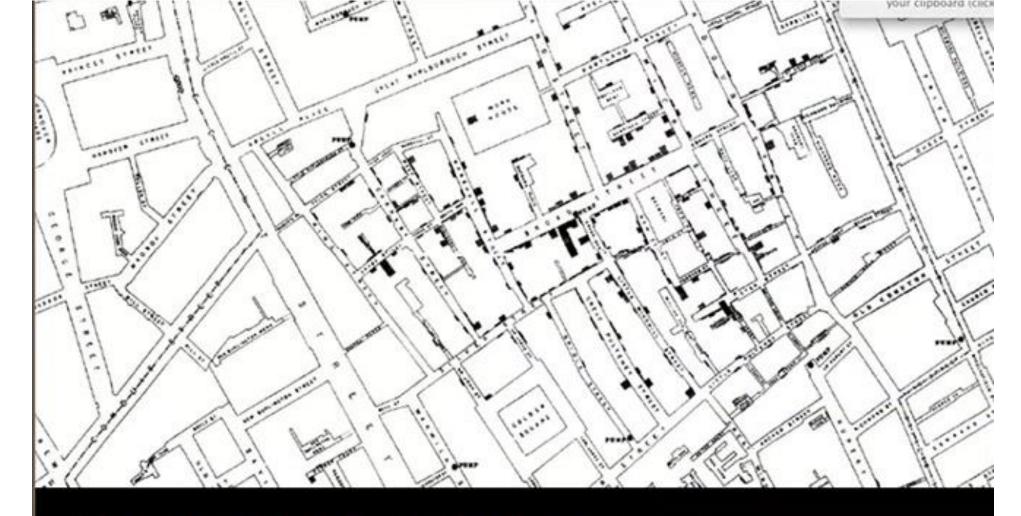




Health coverage map

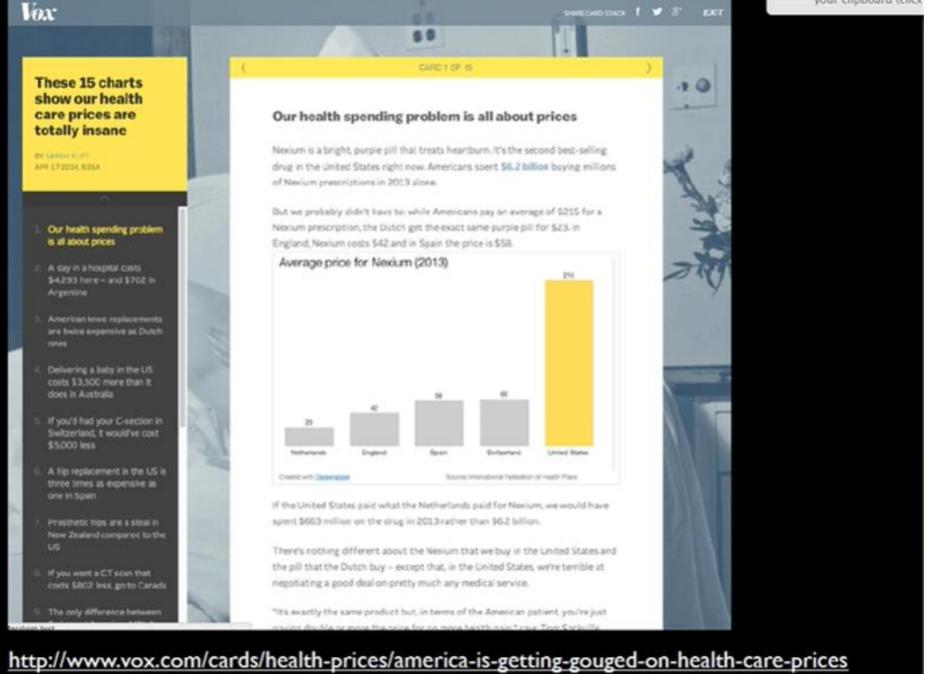
Why is this topic?





RECOMMENDATION I

Stories are always more complicated than they seem at first. So don't oversimplify



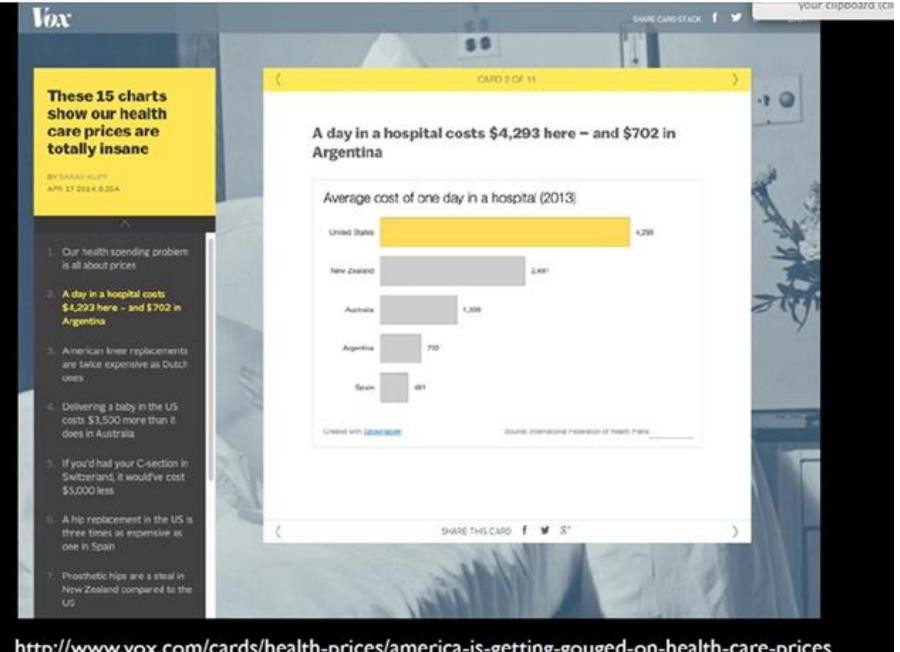
2013 Survey Overview



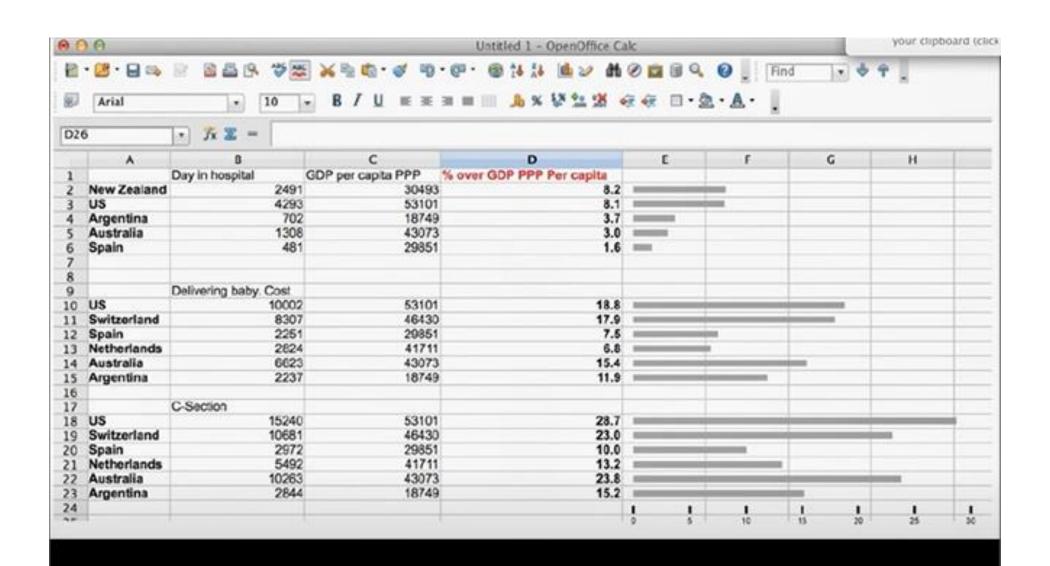
In response to interest from member plans, this year's survey includes pricing for several specialty prescription drugs, along with prices for other prescription drugs and a variety of medical procedures. Prices for each country are submitted by participating federation member plans, and are drawn from public or commercial sectors as follows:

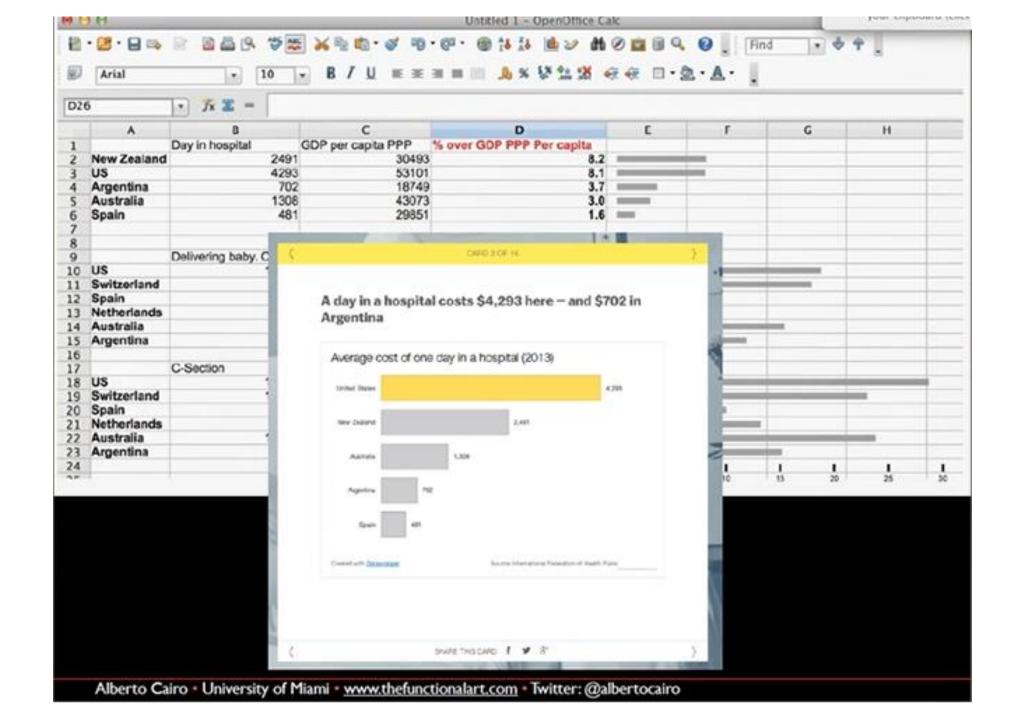
- Prices for the United States are calculated from a database with over 100 million claims that reflect prices negotiated and paid between thousands of providers and almost a hundred commercial health plans
- Prices for Australia, Argentina, and Spain are from the private sector, with data provided by one private health plan in each country
- Prices for Canada and Netherlands are from the public sector, with data provided by one private health plan in each country
- Medical procedure prices for Switzerland, England and New Zealand are from the private sector; prescription drug prices
 are based on public sector prices. Prices are provided by one private health plan in each country

Comparisons across different countries are complicated by differences in sectors, fee schedules, and systems. In addition, a single plan's prices may not be representative of prices paid by other plans in that market.



http://www.vox.com/cards/health-prices/america-is-getting-gouged-on-health-care-prices





"The first principle is that you must not fool yourself--and you are the easiest person to fool"

Richard Feynman, 1974, Caltech Graduation Address http://www.lhup.edu/~DSIMANEK/cargocul.htm

EUROPE

Ukraine Parliament Moves Swiftly to Dismantle President's Government

By DAVID M. HERSZENHORN HEB 23, 2014





KIEV, Ukraine — A day after President Viktor F. Yanukovych fled the Ukrainian capital and was removed from power by a unanimous vote in Parliament, lawmakers moved swiftly on Sunday to dismantle the remaining vestiges of his government by firing top cabinet members, including the foreign minister.

With Parliament, led by the speaker, Oleksandr V. Turchynov, firmly in control of the federal government — if not yet the country as a whole — lawmakers began an emergency session on Sunday by adopting a law restoring state ownership of Mr. Yanukovych's opulent presidential palace, which he had privatized.

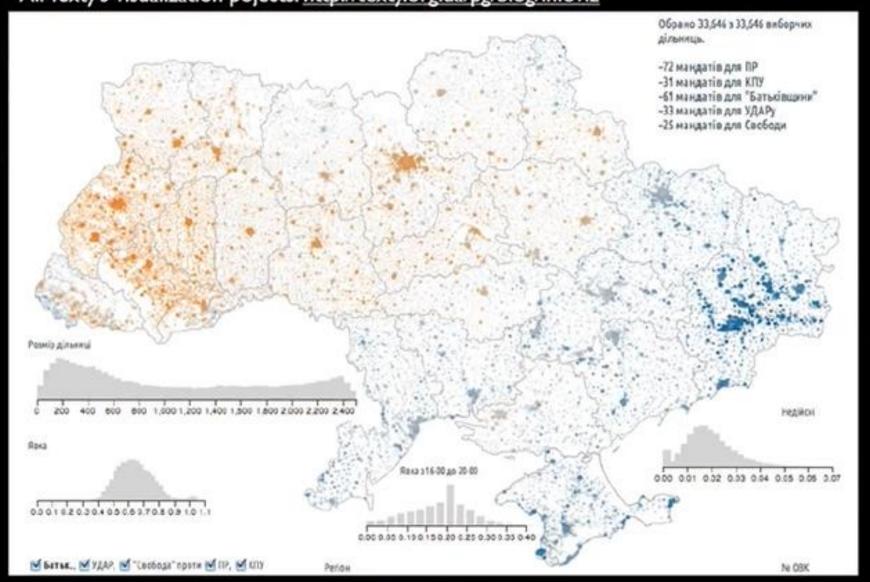
Parliament voted to grant Mr. Turchynov authority to carry out the duties of the



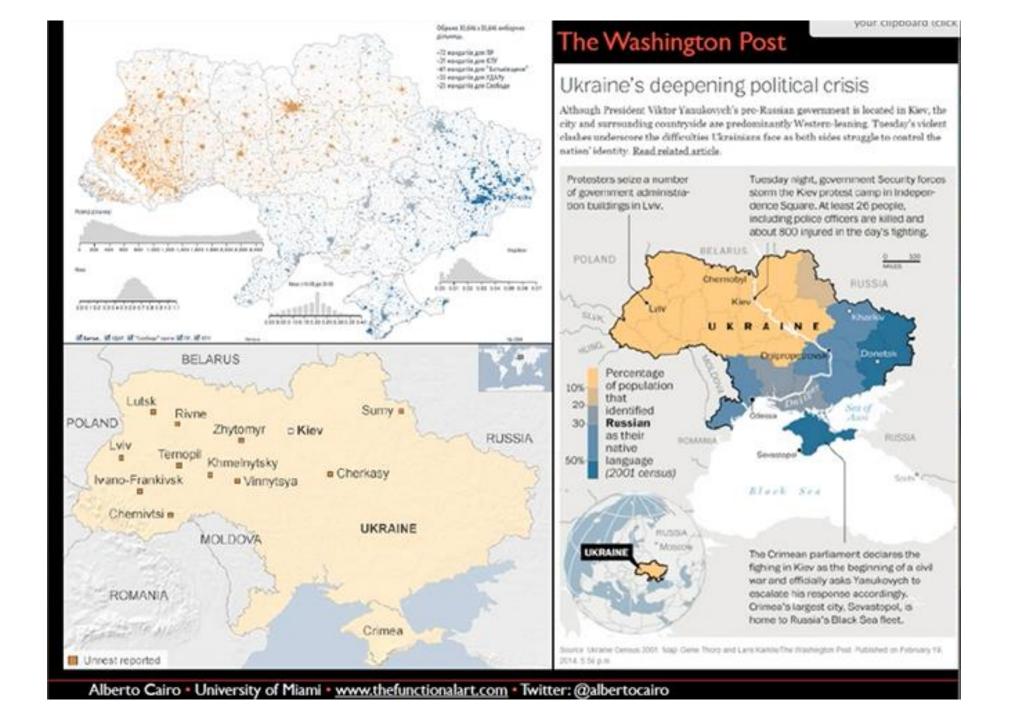
Sergery Ponomianey for The New York Times

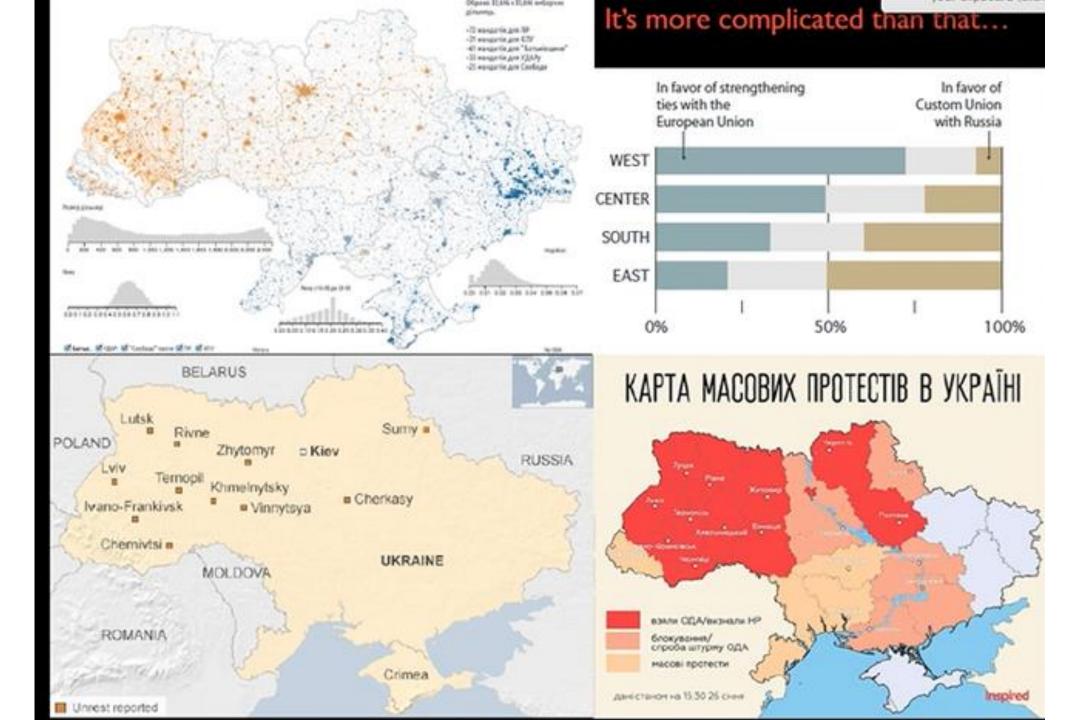
texty.org.ua

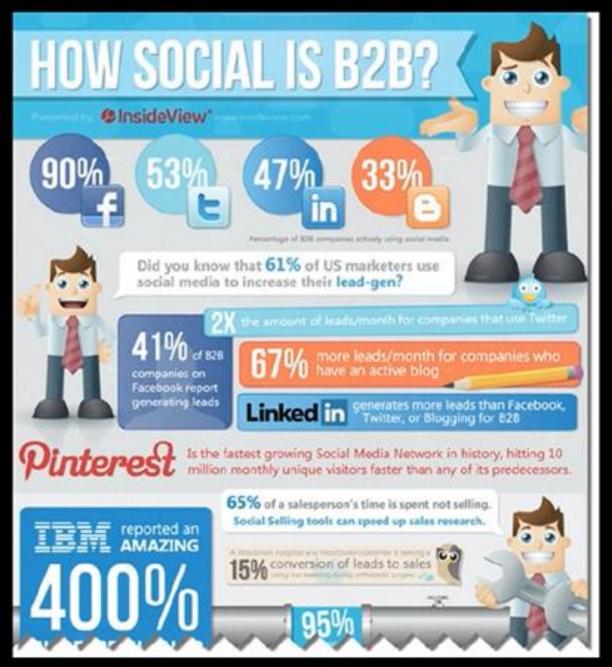
All Texty's visualization pojects: http://texty.org.ua/pg/blog/infoviz











This is why you should distrust "infographics" like this one

They are the equivalent of publishing a headline without a story that offers more detail.

