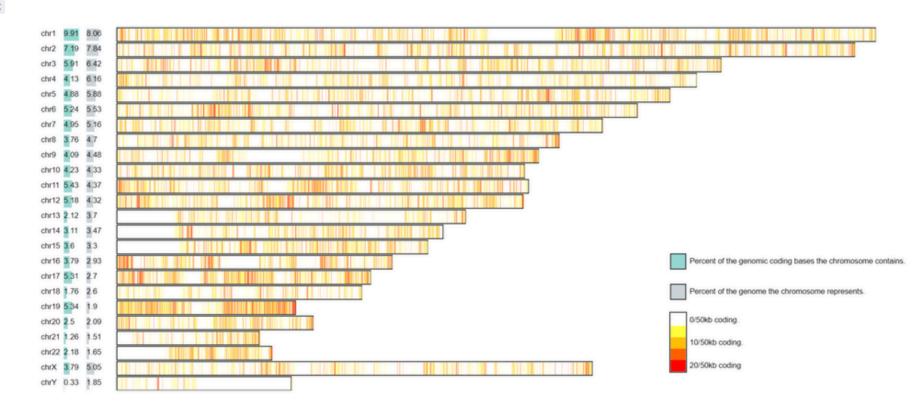
Displaying Data

OC



https://www.reddit.com/r/dataisbeautiful/comments/7myjiu/where_on_our_chromosomes_the_most_coding_gene/

 Entire wiki cluster on displaying data: https://en.wikipedia.org/wiki/Data visualization

 One of my favourite ways to procrastinate: https://www.reddit.com/r/dataisbeautiful/

The other way: Fivethirtyeight:

https://fivethirtyeight.com

Displaying Data

The importance of displaying your data cannot be over-emphasized

http://www.ted.com/talks/hans_rosling_shows_the_best_stats_you_ve_ever_seen.html

http://www.ted.com/talks/lang/en/david_mccandless_the_beauty_of_data_visualization.html

http://www.ted.com/talks/peter_donnelly_shows_how_stats_fool_juries.html

http://www.ted.com/talks/ben_goldacre_battling_bad_science.html

<u>http://www.ted.com/talks/</u>
<u>ben goldacre what doctors don t know about the drugs they prescribe.html</u>

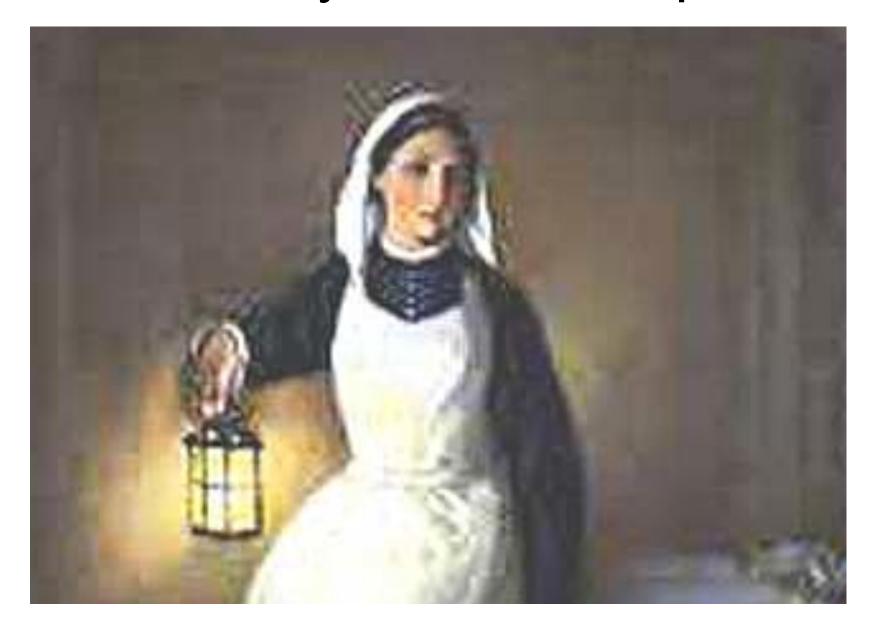
Statistics has its roots in **Biology**

A modern problem in biology is **too much data** and not enough people who can interpret it effectively

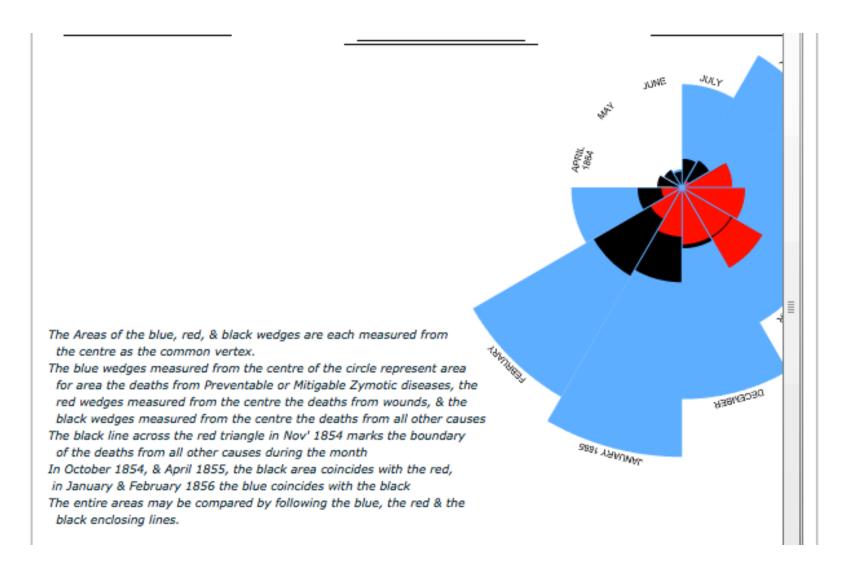
A second issue: how to convey (complicated) results **EFFECTIVELY?**

Making sense of complex data: a brief history of effective visualization

The lady with the lamp

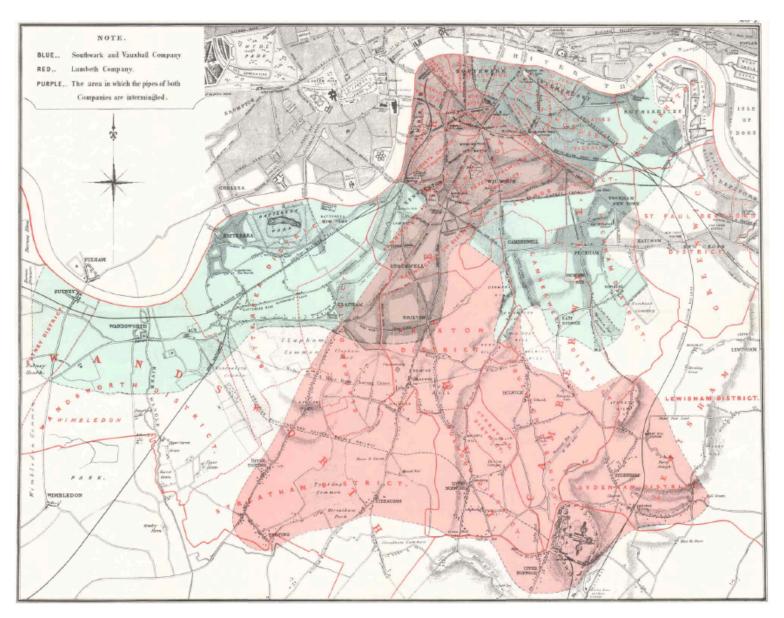


...and the informative graph



http://understandinguncertainty.org/coxcombs

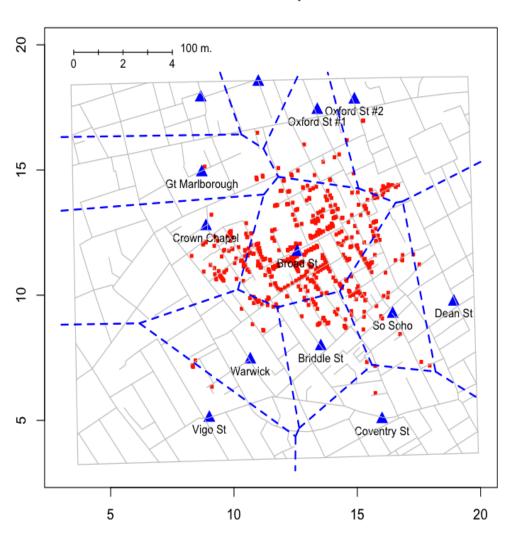
Cholera



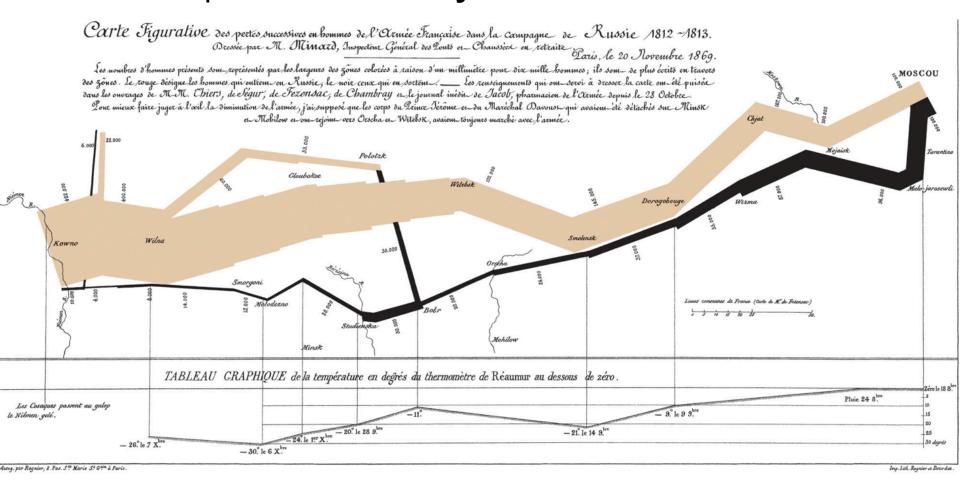
http://www.datavis.ca/R/index.php#heplots

Cholera

Snow's Cholera Map of London



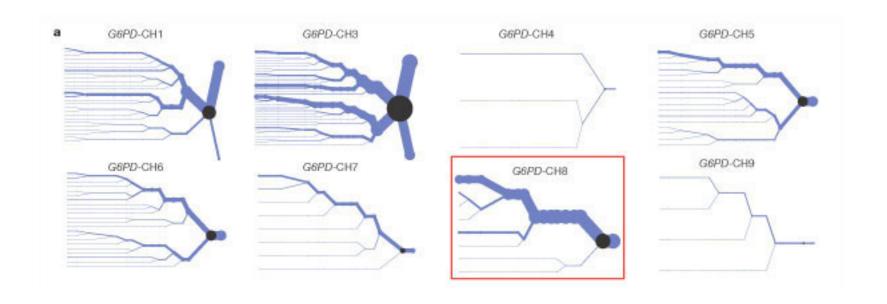
Complex information is interpreted most efficiently and effectively when it is represented **visually**

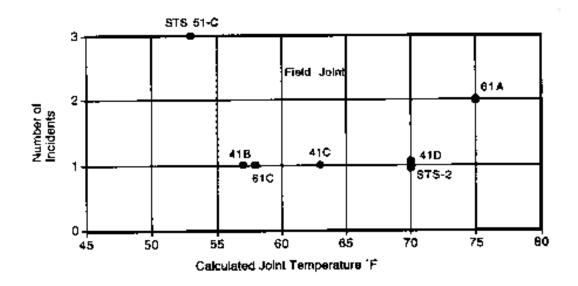


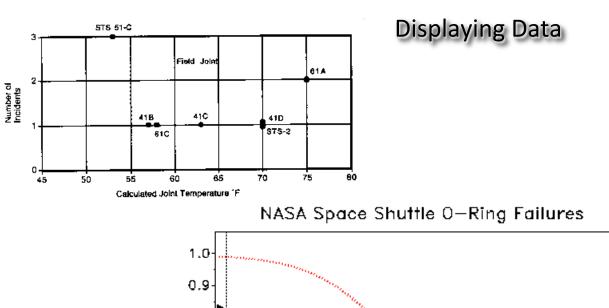
More in depth explanation of Napolean's defeat (and of Charles Minard's famous map) is found here: https://1812.tass.ru/en

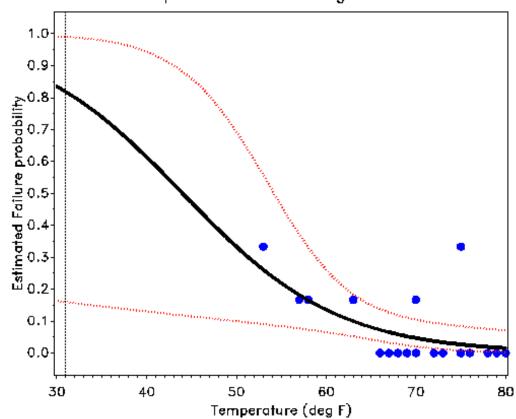
Novel Biological Graphic tools

Haplotype Bifurcation Diagrams









https://www.youtube.com/watch?v=ZOzoLdfWyKw

Missed Opportunities: **Displaying Data** STS 51-C Field Joint 61A 2 Number of Incidents 41C 41B 41D STS-2 81¢ 65 70 75 45 50 55 60 Calculated Ideal Temperature 'F 51C 3 of Incidents 2 4 1 C Number 1 61C O 50 70 45 55 60 65 75 80

http://www.datavis.ca/gallery/missed.php

Calculated Joint Temperature (F)