

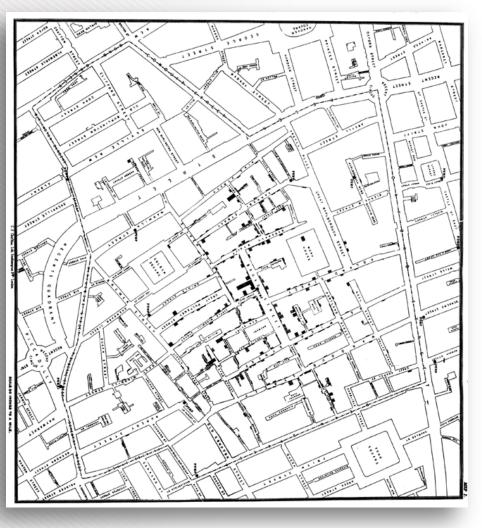
#### About these visualizations

more deeply. That understanding breeds good decisions Data visualization allows us all to see and understand our data

prone to misunderstandings and missed opportunities. Without data visualization and data analysis, we are all more

visualizations that changed how people thought about the world. The following slides will show you 5 powerful, beautiful

#### 5. London Cholera Map – John Snow



1854. London. Cholera strikes. In just 10 days, over 500 people have been killed in one neighborhood. The mysterious cluster of deaths is especially terrifying because no one understands the source.

No one besides John Snow, an epidemiologist who realized the water supply was spreading the disease.

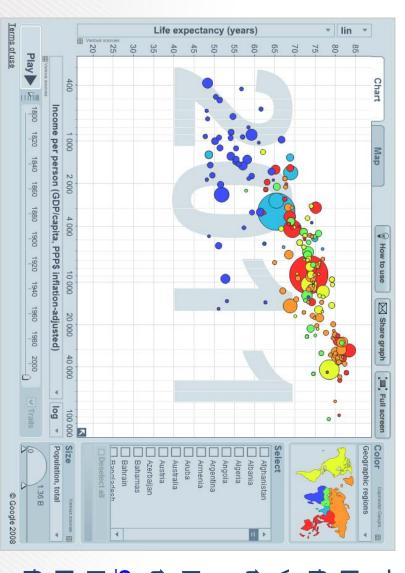
#### 5. London Cholera Map – John Snow



He plotted every death on a map with ingenious mapped bar charts (see left) and was able to show that the closer to the Broad Street water pump he plotted, the greater the number of deaths.

The information helped convince the public a true sewage system was needed and spurred the city to action.

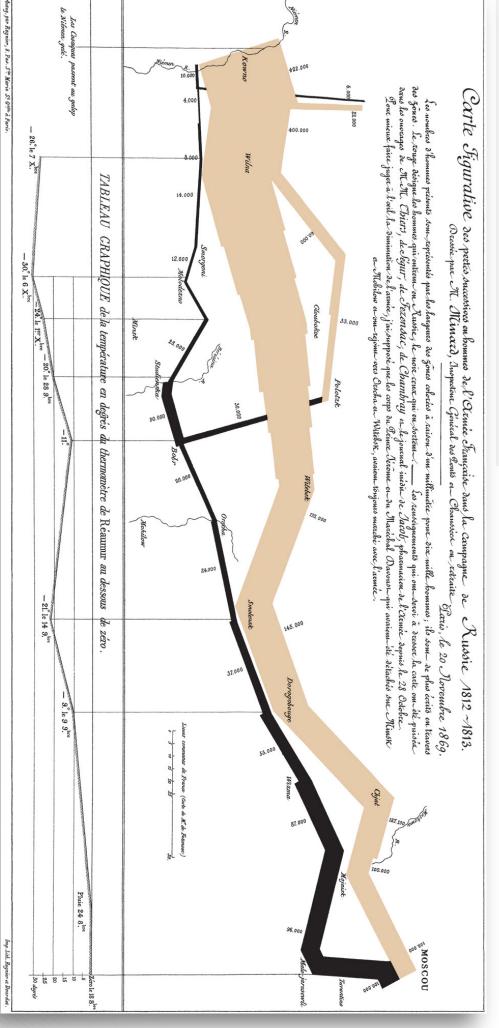
#### 4. Gapminder – Rosling



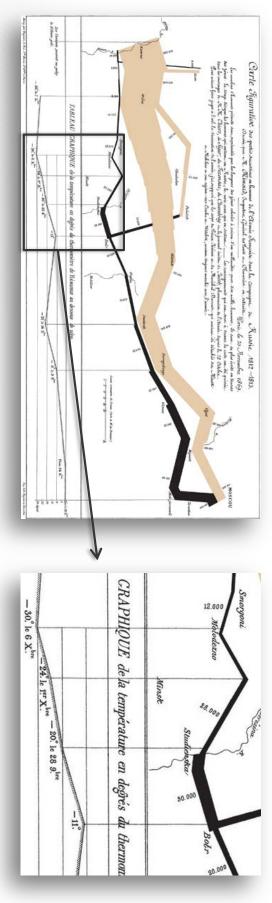
The Swedish scientist Hans Rosling had been working with developmental data for over 30 years — but it took a great visualization and a 2007 TED talk for him to share his passion with the world.

His original viz (now one of many) shows the relationship between income and life expectancy. The data is simple but Rosling's visual storytelling has allowed him to spread his passion for this fascinating, overlooked data to millions.

# 3. March on Moscow – Charles Minard

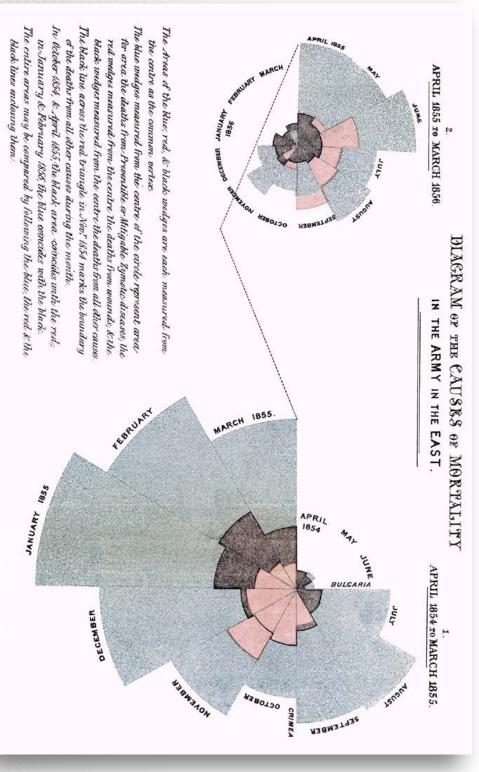


#### 3. March on Moscow — Charles Minard

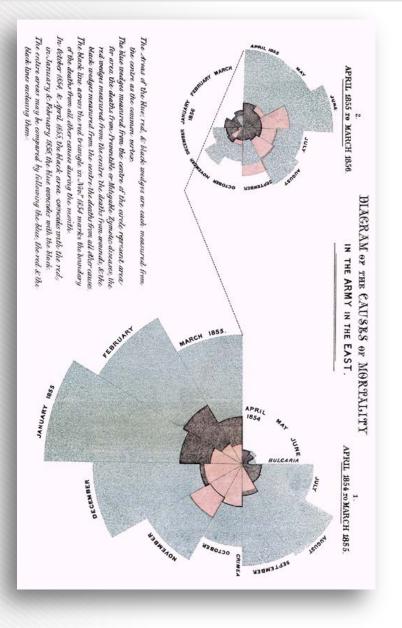


glory, the Parisian engineer Charles Minard chose to remind his country of the soldiers died. Fifty years later, while his country yearned for their former Imperial shows how cold ultimately defeated Napoleon's army. This viz still inspires those who see it to ponder the true cost of war. horrors of war with data. The simple but fascinating temperature line below the viz In 1812, Napoleon marched to Moscow in order to conquer the city. 98% of his

# 2. War Mortality - Florence Nightingale

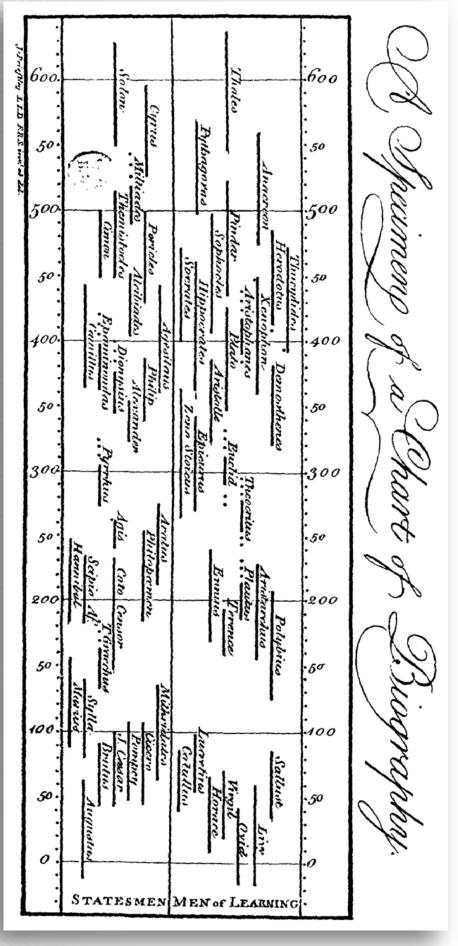


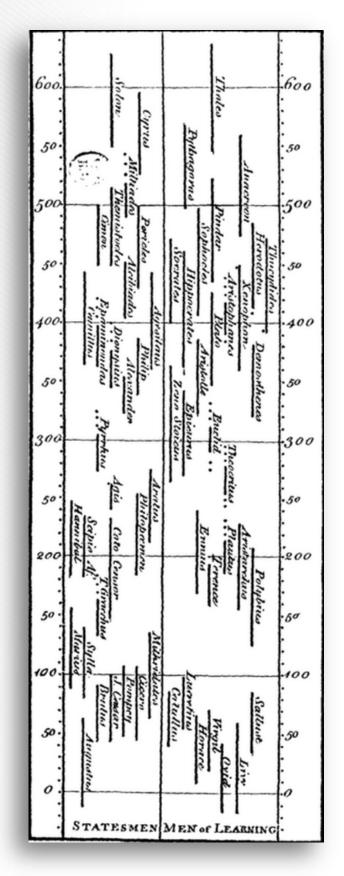
# 2. War Mortality – Florence Nightingale



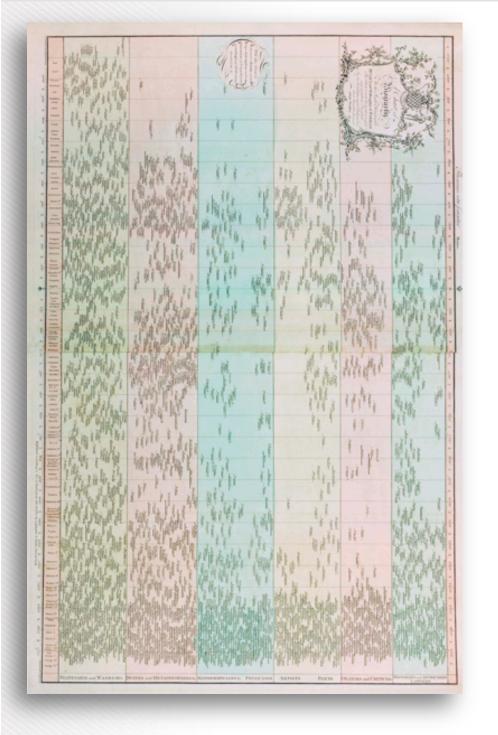
1855. The Crimea. Britain is fighting a battle with both Russia and disease. As a nurse, how do you convince an army to invest in hospitals and healthcare instead of guns and ammunition?

Florence Nightingale told her story with data by showing the staggering amount of deaths due to preventable disease (shown in blue/grey). After this viz, sanitation became a major priority for the British Army.



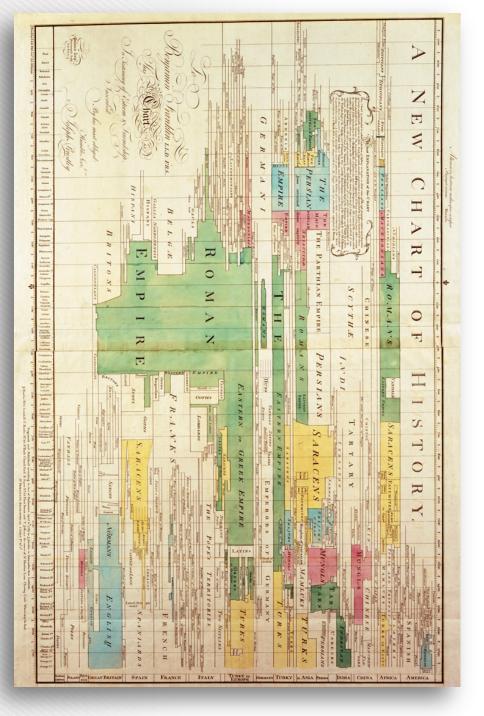


snippet from the first which shows over 2000 historical figures. defined them. His creation ended up becoming two separate but related views. Here is a small teach his students the relationship between the nations of the past and the people that The 18th century English educator and polymath Joseph Priestley had an ambitious goal: to

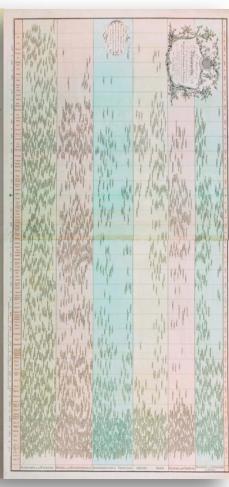


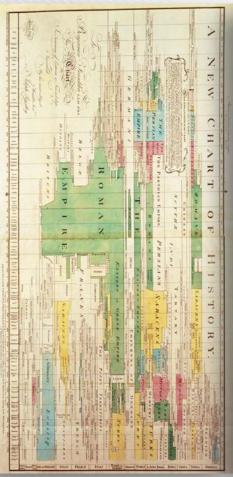
The entire viz is enormous — much too large for this format.

However, what makes this viz especially amazing is that we can still learn from it at the aggregate level when we combine it with the second part of his two part visualization.



Using the same X-axis as the biography chart, this visualization shows the history of the major civilizations of the world over the same time period.



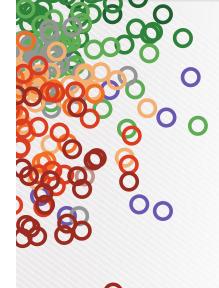


Together, they weave an intricate story. They explain and document both the rise and fall of empires, and the unique thinkers that defined those nations.

Notice, as an example, the clusters of biographies and how they correlate to the major moments in human history — the Greeks, the Romans, the Enlightenment, etc.

"The greatest value of a picture is when it forces us to notice what we never expected to see."

- John Tukey, 1977



#### Want to Learn More?

Watch a presentation about these visualizations:

http://www.tableausoftware.com/tccl2conf/videos/5-influential-visualizations

Read more about these visualizations:

http://www.tableausoftware.com/about/blog/2012/11/top-5-visualizations-all-time-19810

Learn more about data visualization:

http://tableausoftware.com

Special thanks to Andy Cotgreave for creating the original compilation of visualizations.



Learn more about data visualization at http://tableausoftware.com