

# The 5 Most Influential Data Visualizations of All Time

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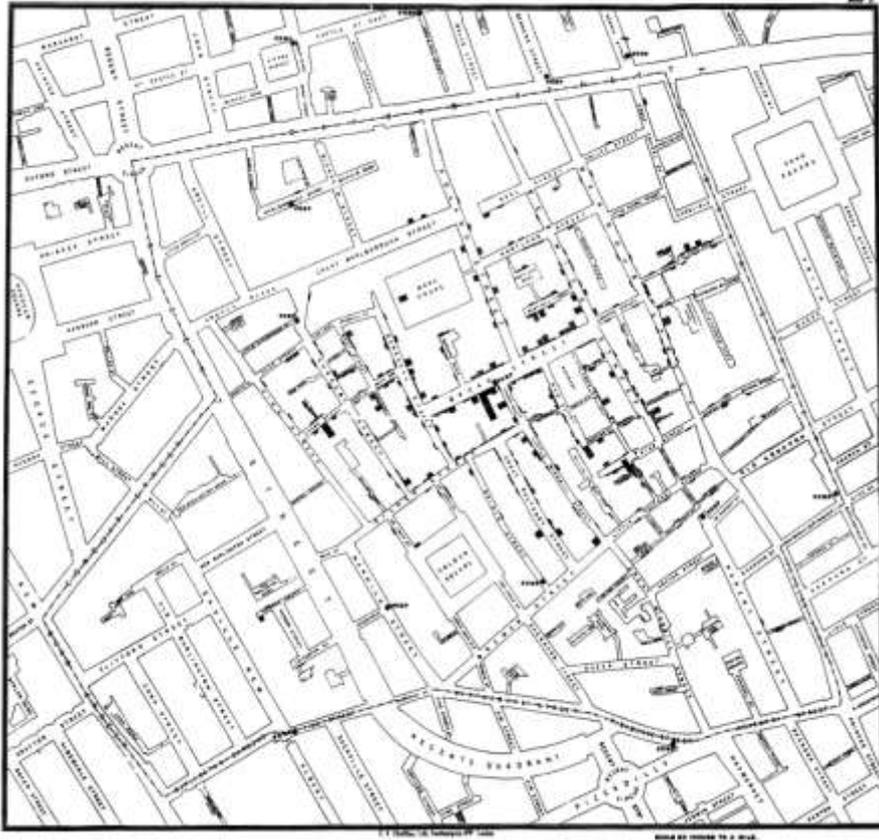
# About these visualizations

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

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

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

# 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.

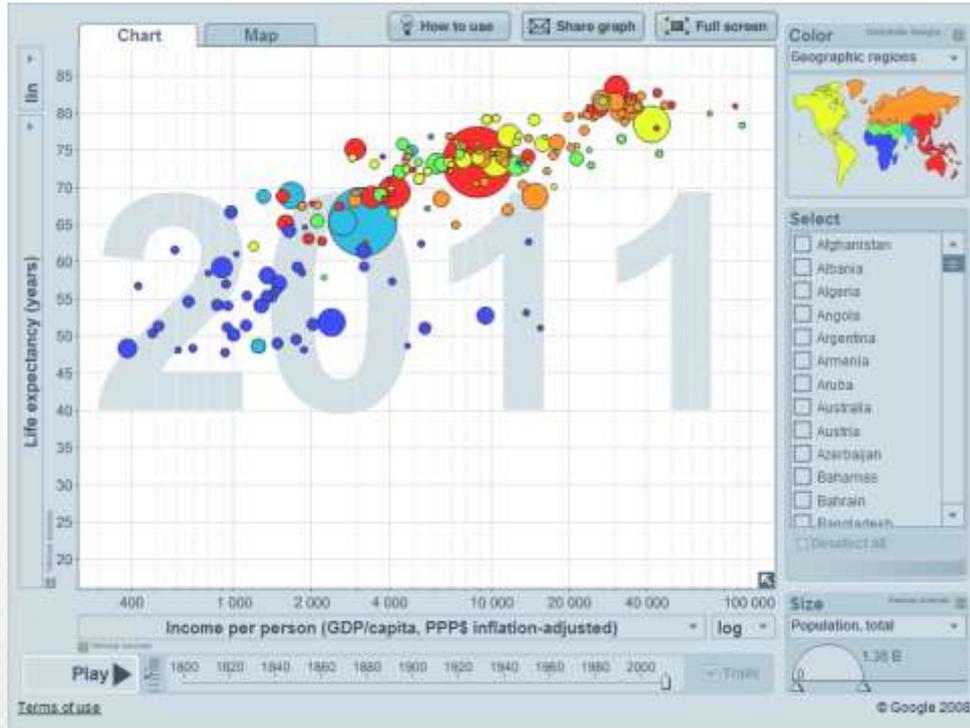
# 5. London Cholera Map – John Snow



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

*Carte Figurative des pertes successives en hommes de l'Armée Française dans la Campagne de Russie 1812-1813.*

Dessiné par M. MINARD, Inspecteur Général des Ponts et Chaussées en retraite. Paris, le 20 Novembre 1869.

Les nombres d'hommes présents sont représentés par les longueurs des zones colorées à raison d'un millimètre pour dix mille hommes; ils sont de plus écrits en travers des zones. Le rouge désigne les hommes qui ont été en Russie; le noir ceux qui en sont restés. Les renseignements qui ont servi à dresser la carte ont été puisés dans les ouvrages de M. M. Chiers, de Ségur, de Fezensac, de Chambray et le journal inédit de Jacob, pharmacien de l'Armée depuis le 28 Octobre. Pour mieux faire juger à l'œil la diminution de l'armée, j'ai supprimé que les corps du Général Jérôme et du Maréchal Davoust, qui avaient été détachés sur le Niémen et Mielow et qui rejoignirent les Czar et Wittobk, aussitôt qu'ils furent partis avec l'armée.

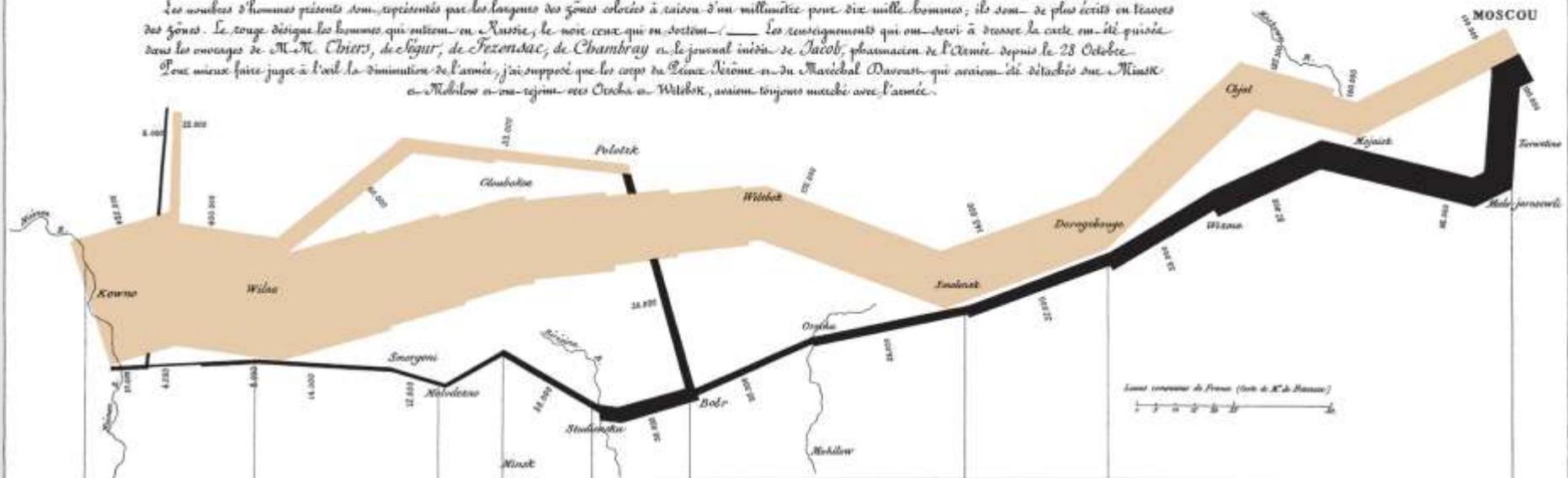
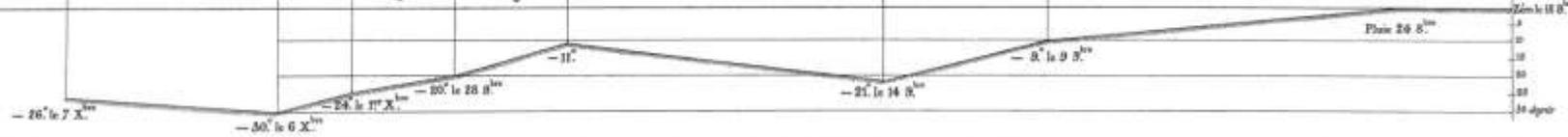


TABLEAU GRAPHIQUE de la température en degrés du thermomètre de Réaumur au dessous de zéro.

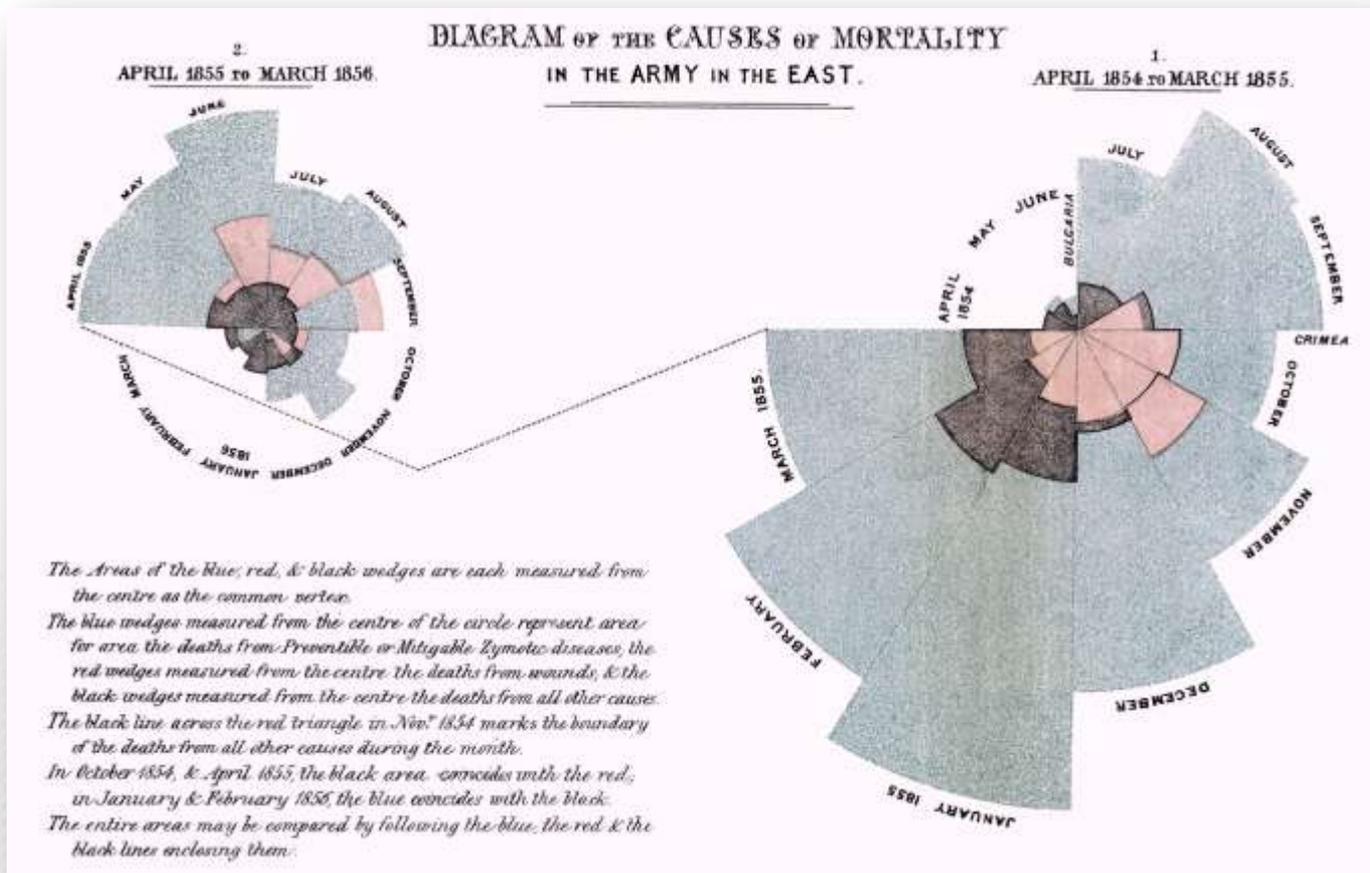


Dessiné par Minard, à Paris, le 17 Mars 1812.

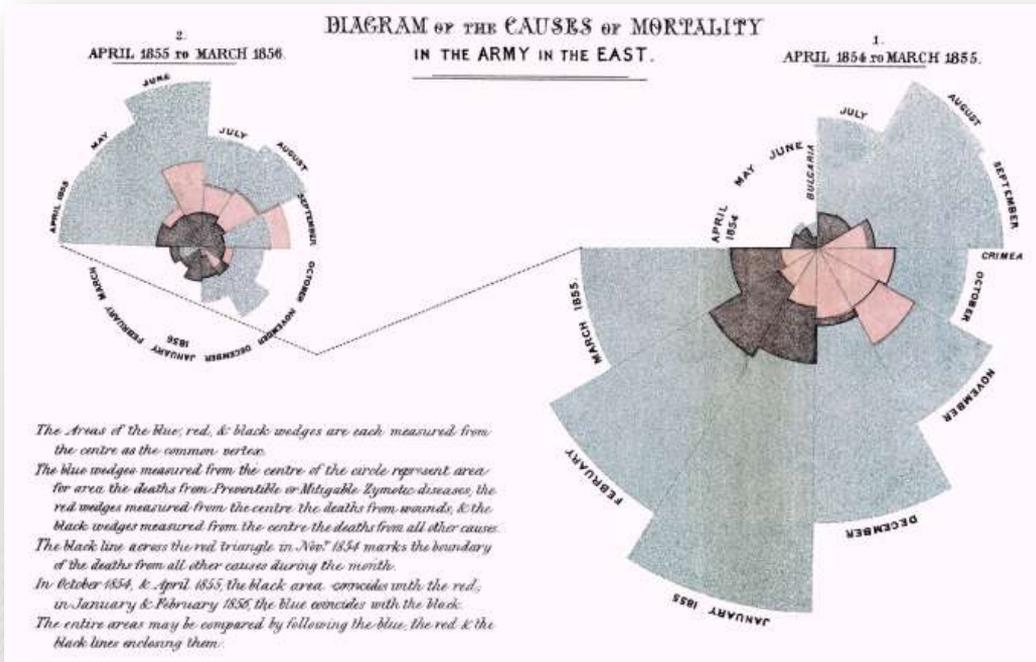
Imp. de la République.



## 2. War Mortality – Florence Nightingale



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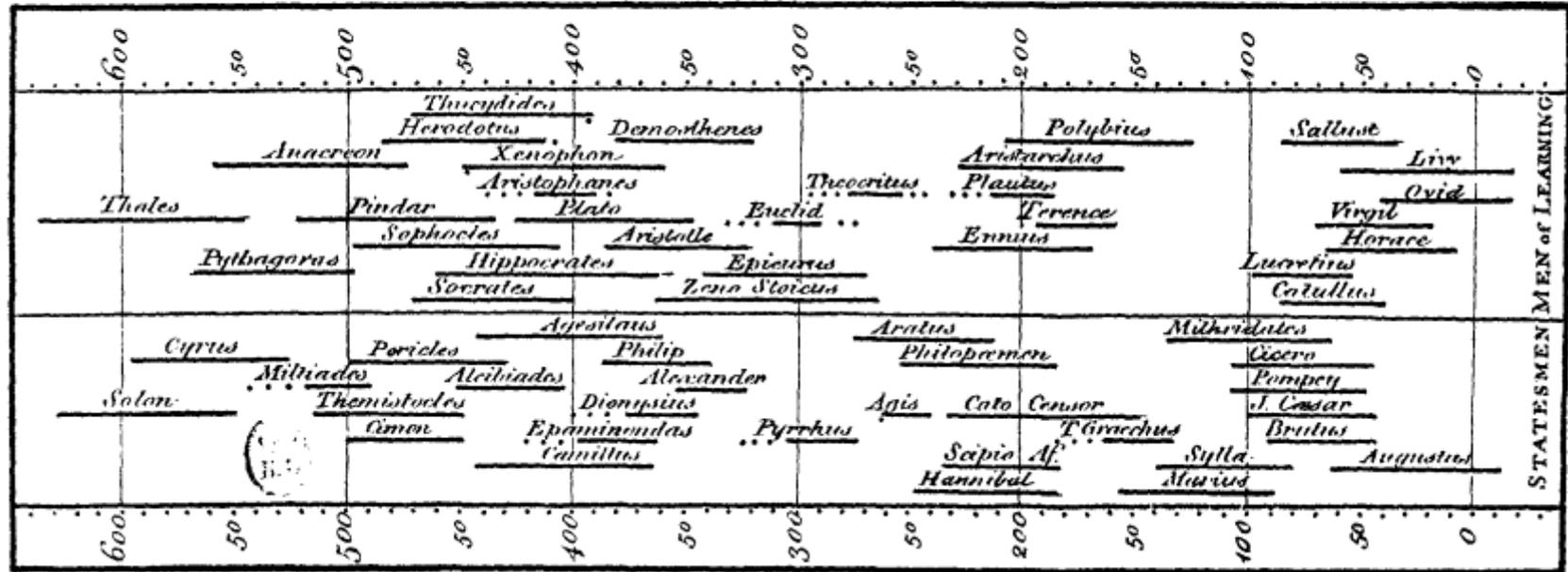


1855. The Crimea. Britain is fighting a battle with both Russia and disease. As a nurse, how do you convince an army to invest in hospitals and healthcare instead of guns and ammunition?

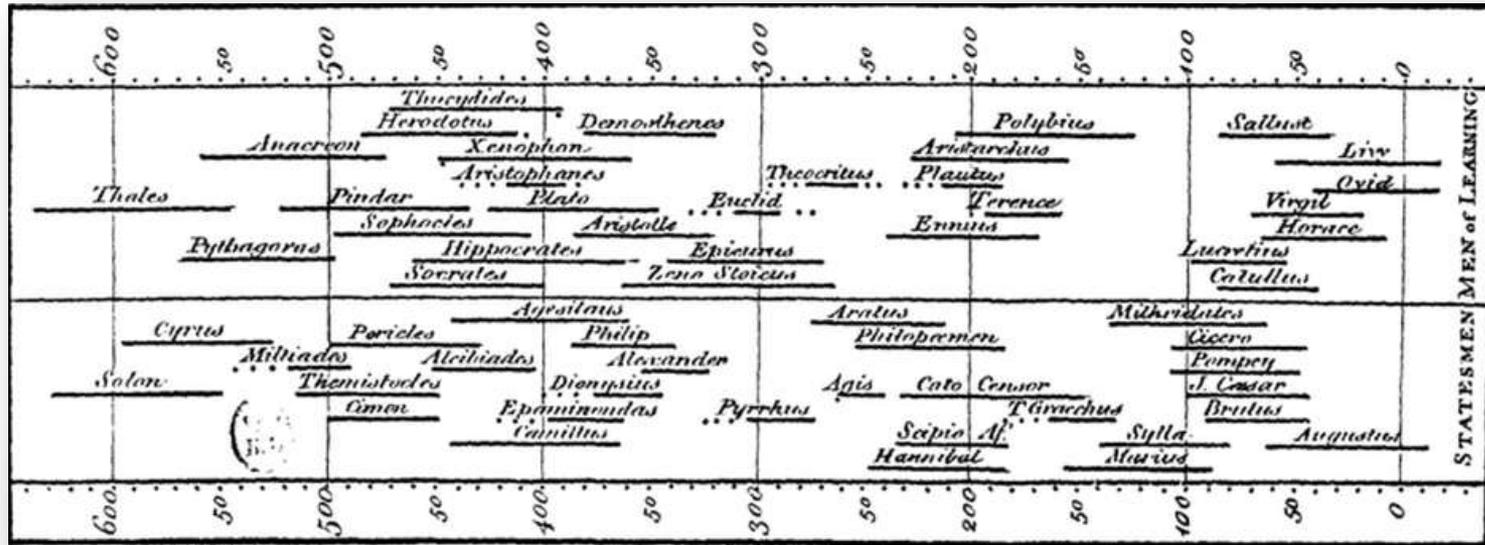
[Florence Nightingale](#) told her story with data by showing the staggering amount of deaths due to preventable disease (shown in blue/grey). After this viz, sanitation became a major priority for the British Army.

# 1. Chart of Biography – Joseph Priestley

## *A Specimen of a Chart of Biography.*

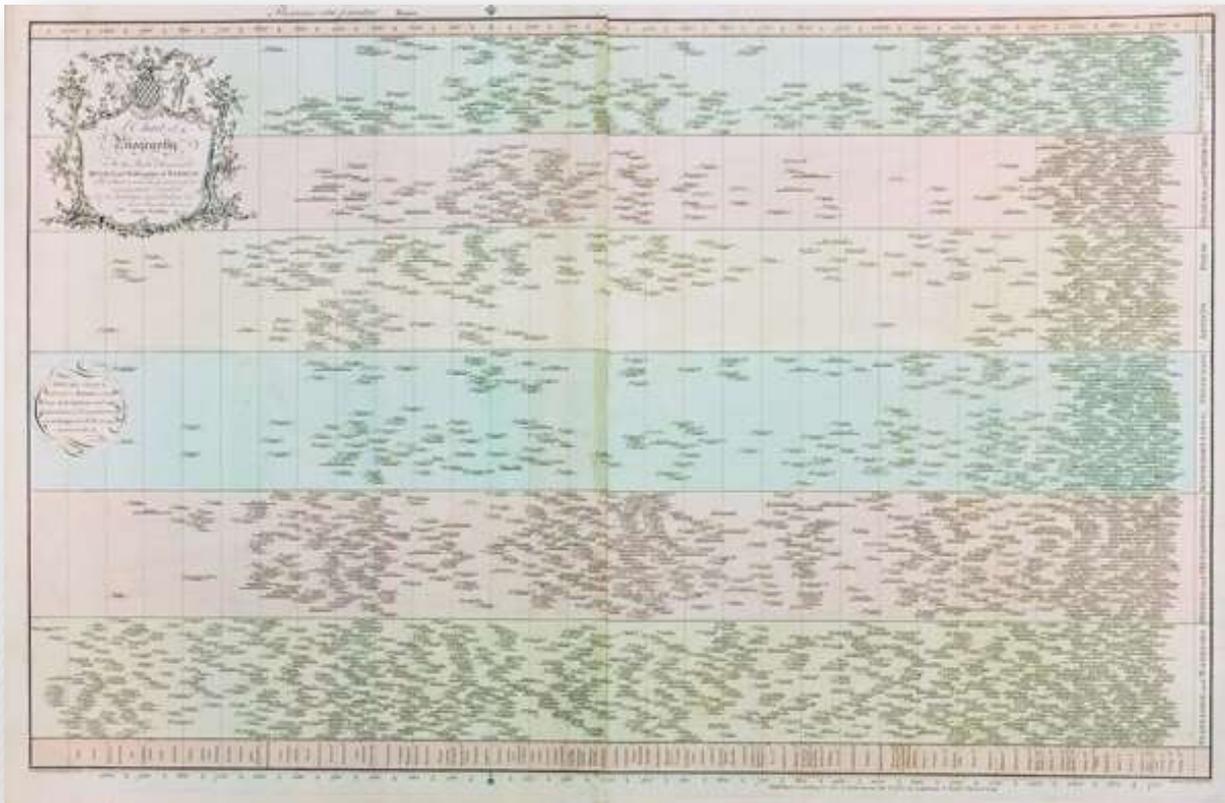


# 1. Chart of Biography – Joseph Priestley



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

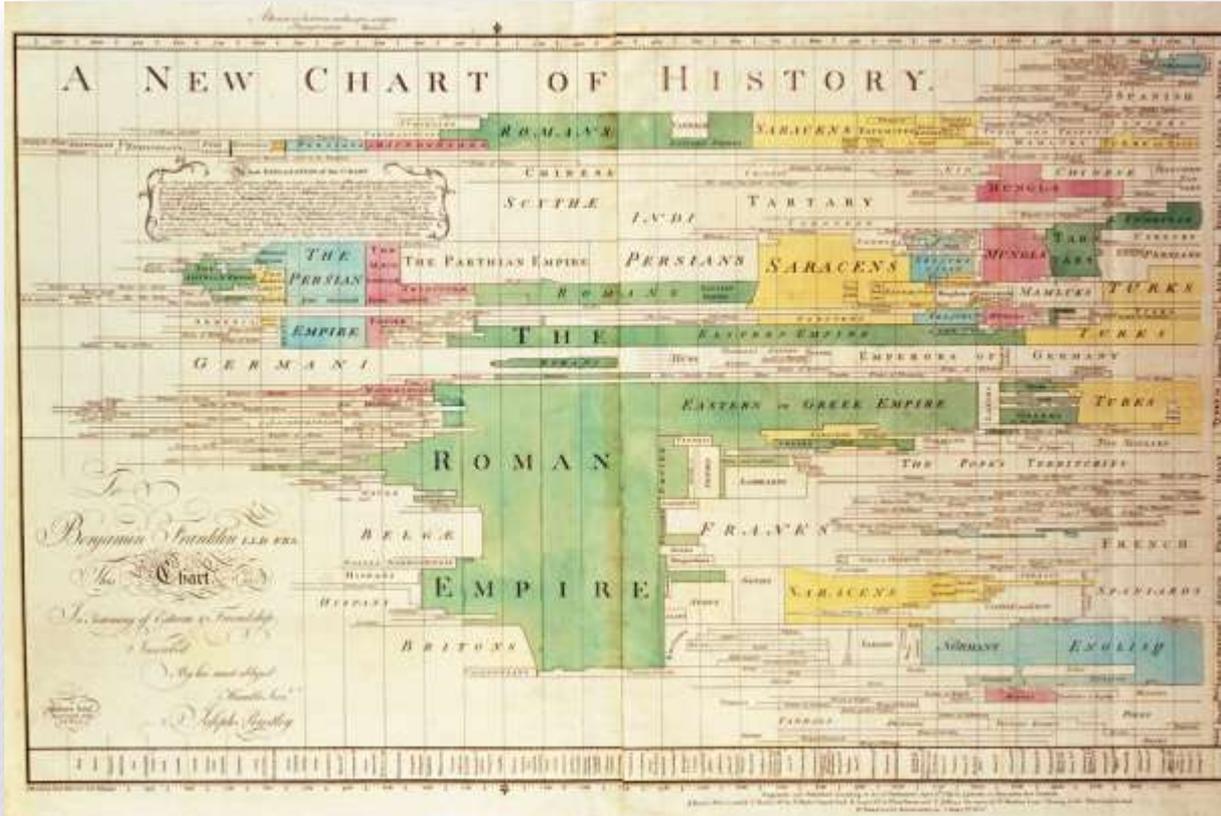
# 1. Chart of Biography – Joseph Priestley



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.

# 1. Chart of Biography – Joseph Priestley



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.



○ “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/tcc12conf/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>