



# Techniki Wizualizacji Danych

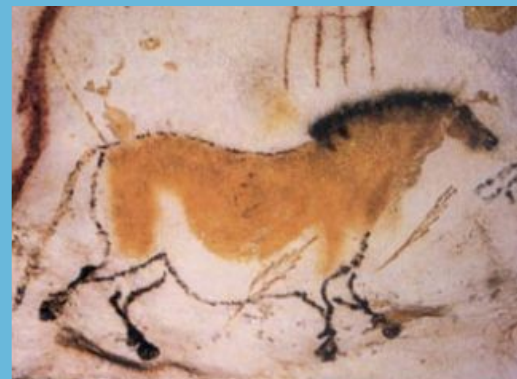
Politechnika Warszawska

Anna Kozak



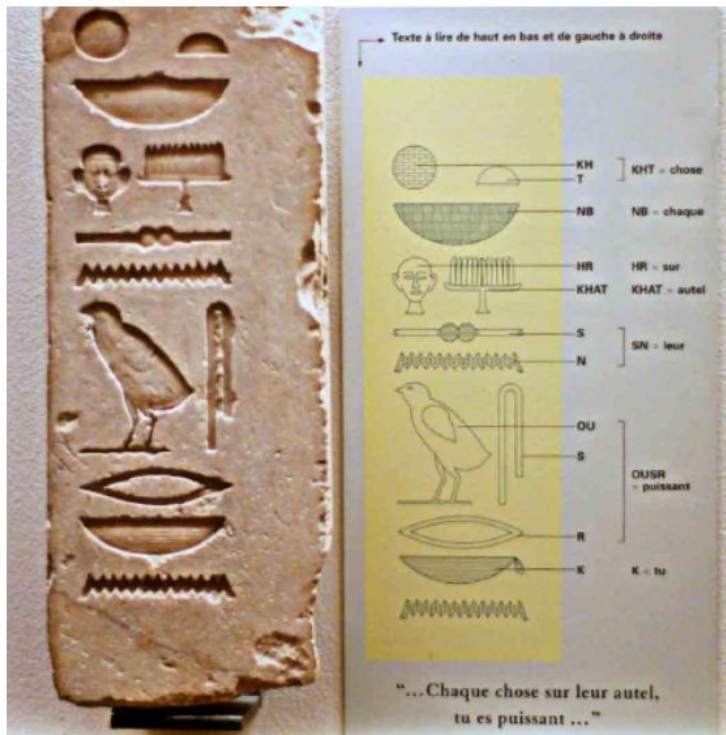
# Historia grafiki statystycznej

# Zaczniemy bardzo daleko...



## ... 17 tysięcy lat temu.

# Hieroglify



Tekst należy czytać od lewej do prawej, z góry na dół.

= rzecz

= wszystkie

= ołtarz

= ich

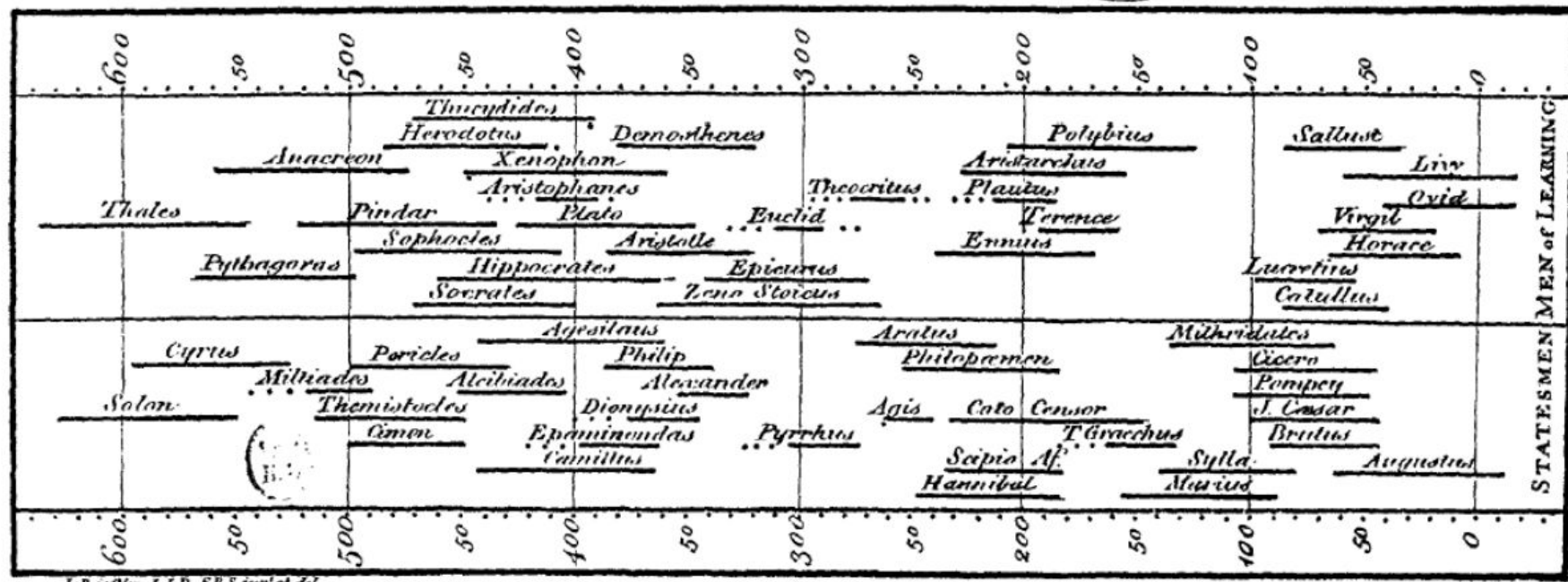
= potężny

= ty

= Wszystko na ich ołtarz, jesteś potężny

# Joseph Priestley

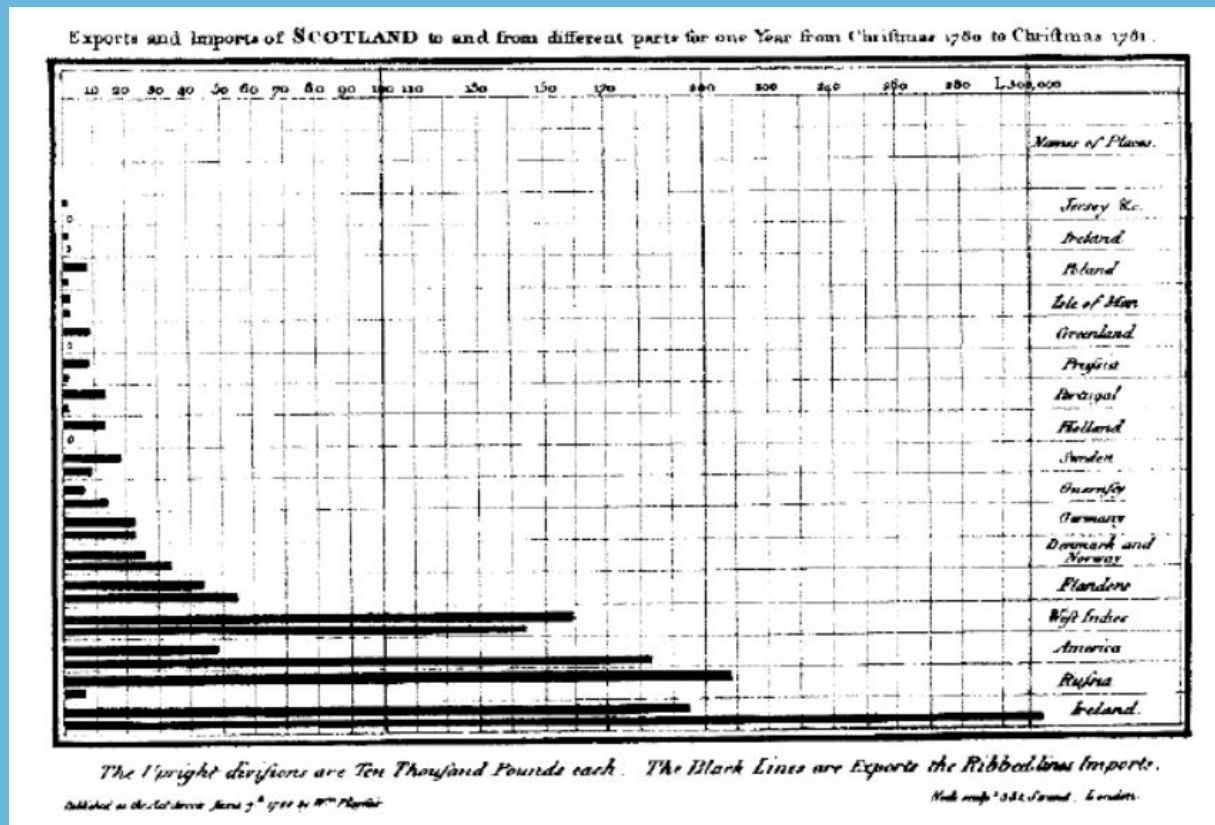
## A Specimen of a Chart of Biography.



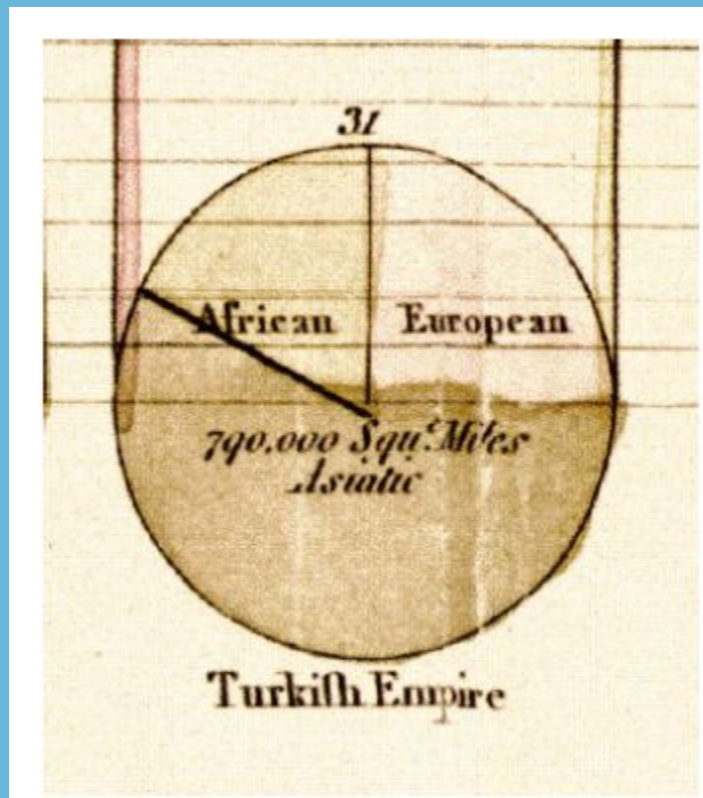
J. Priestley, L.L.D. F.R.S. inv. et del.



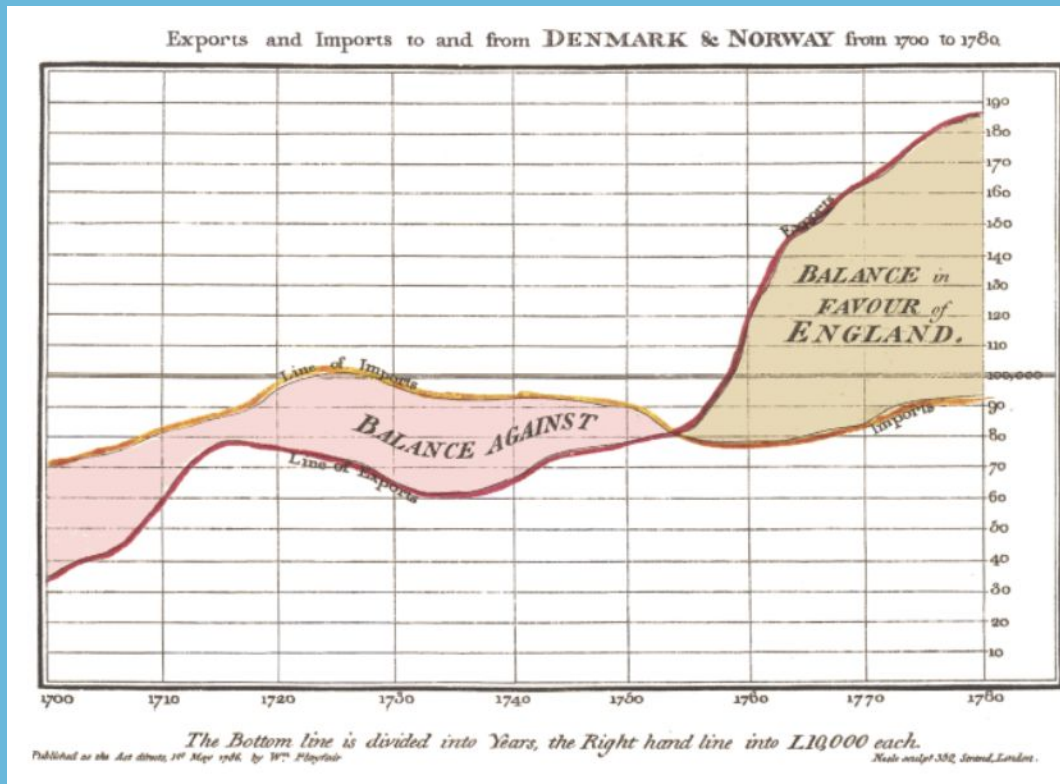
# William Playfair



# William Playfair

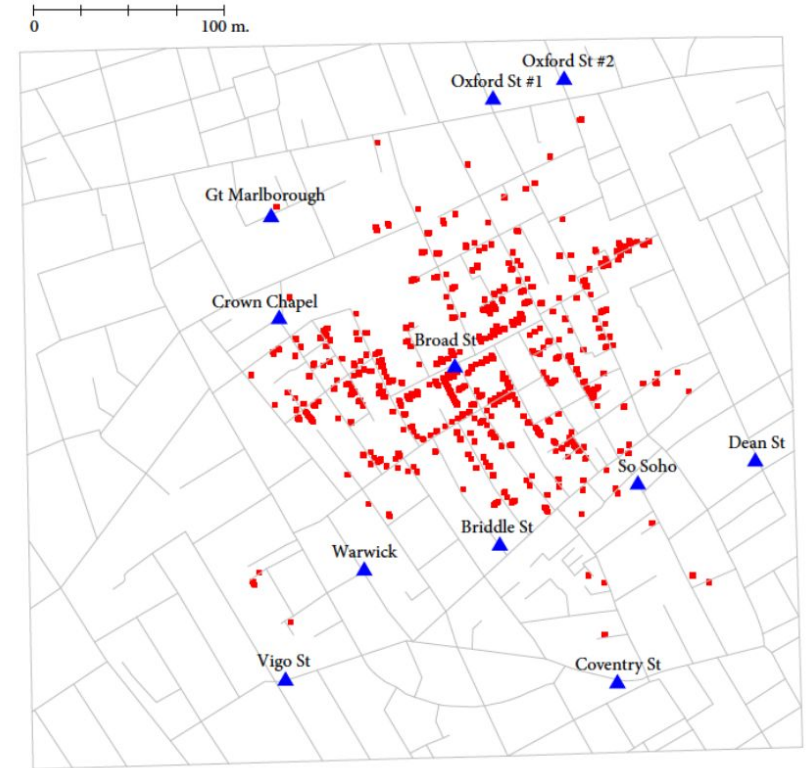
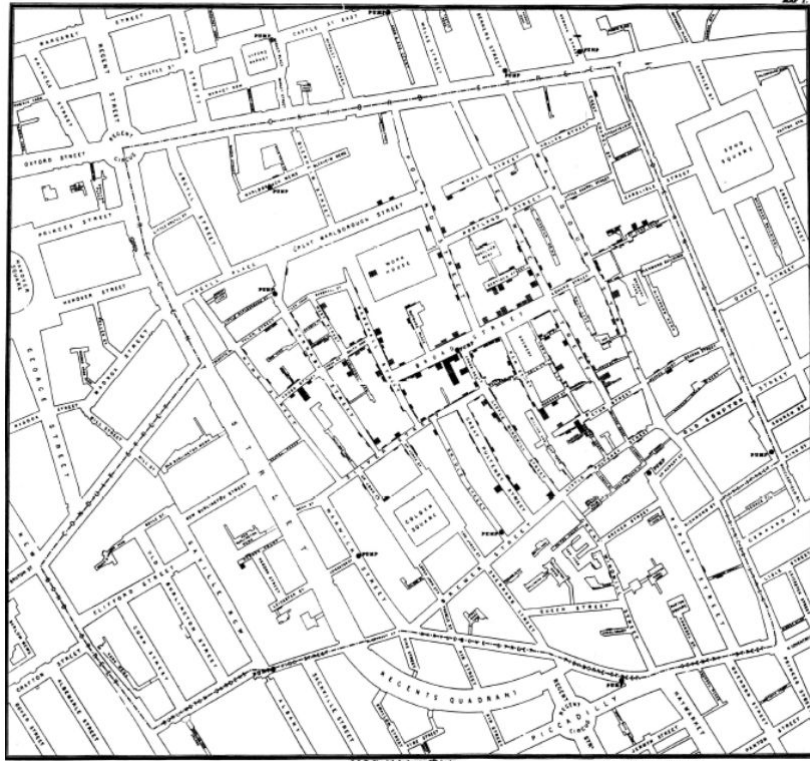


# William Playfair

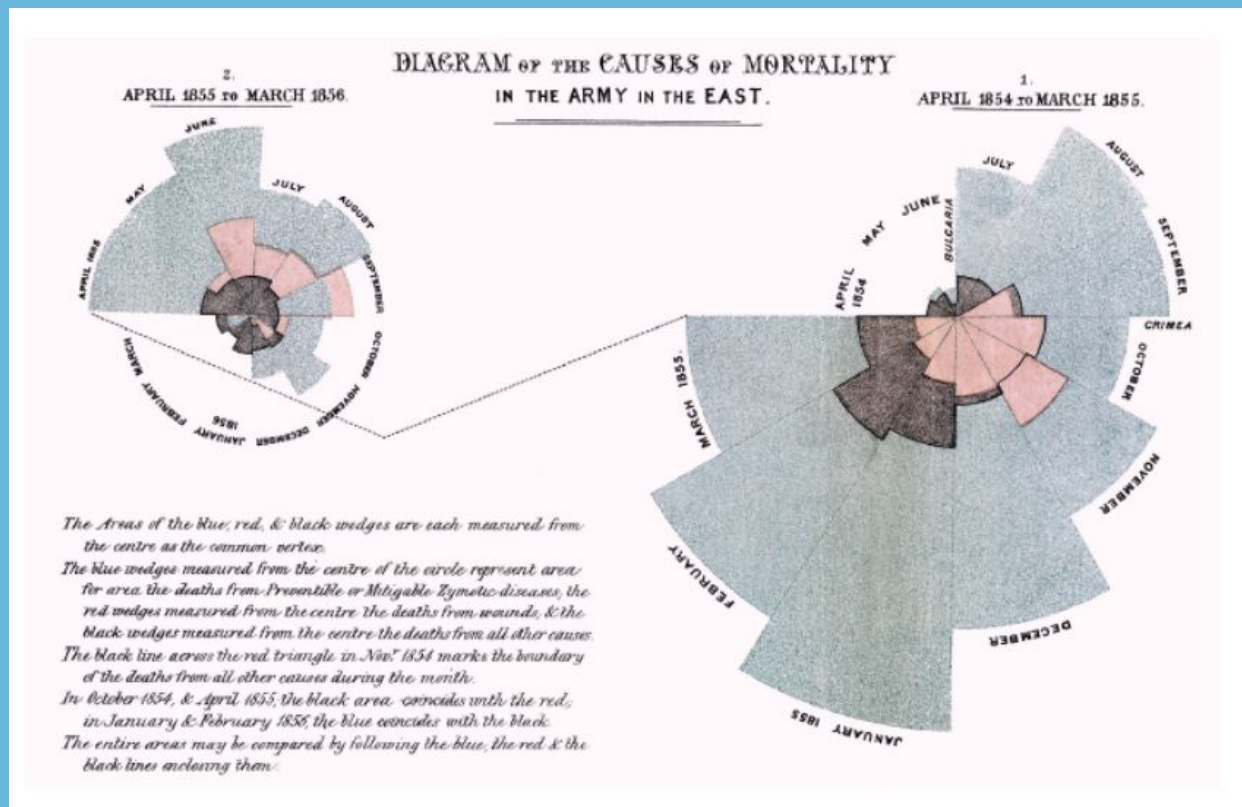




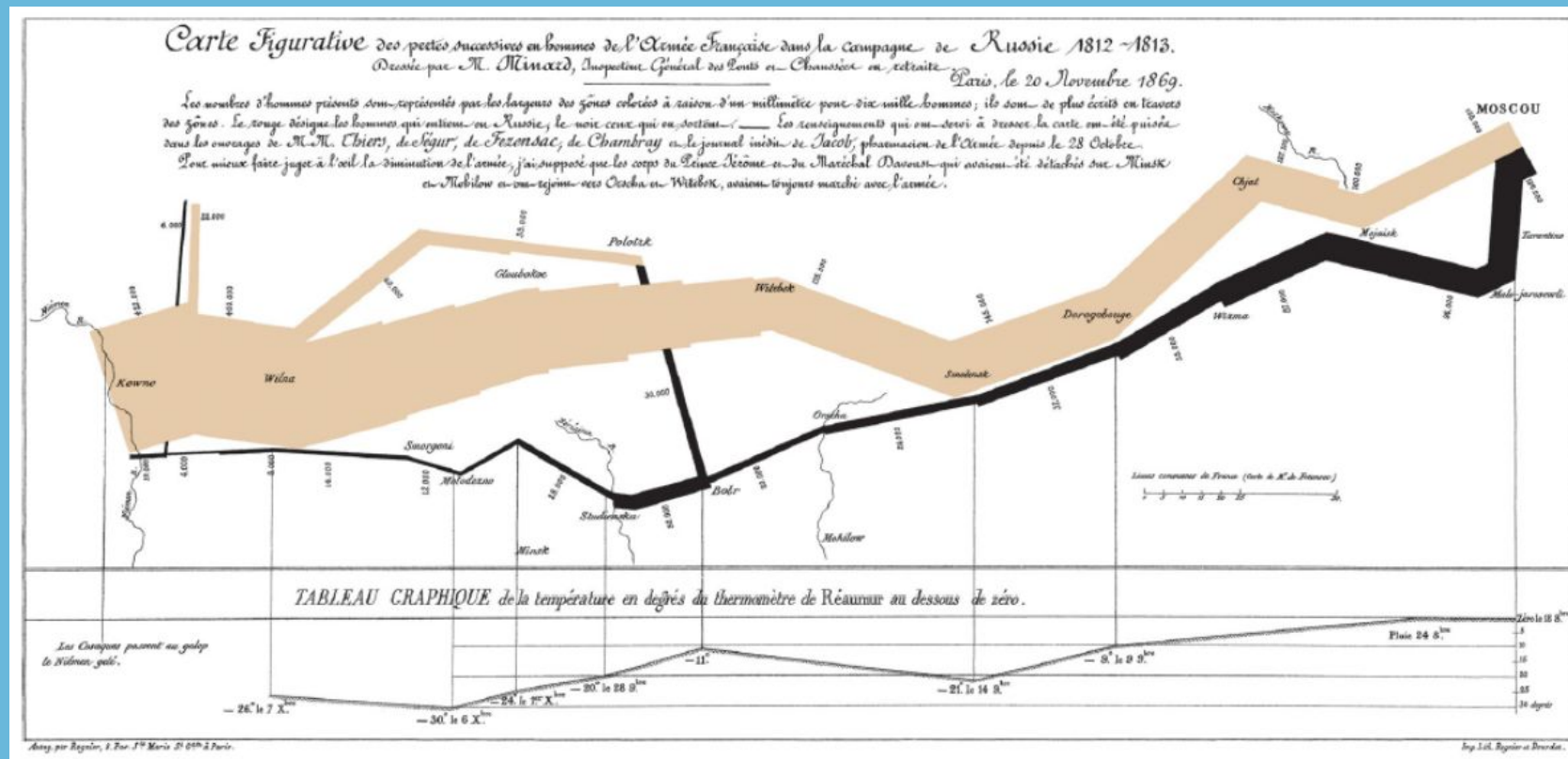
# John Snow



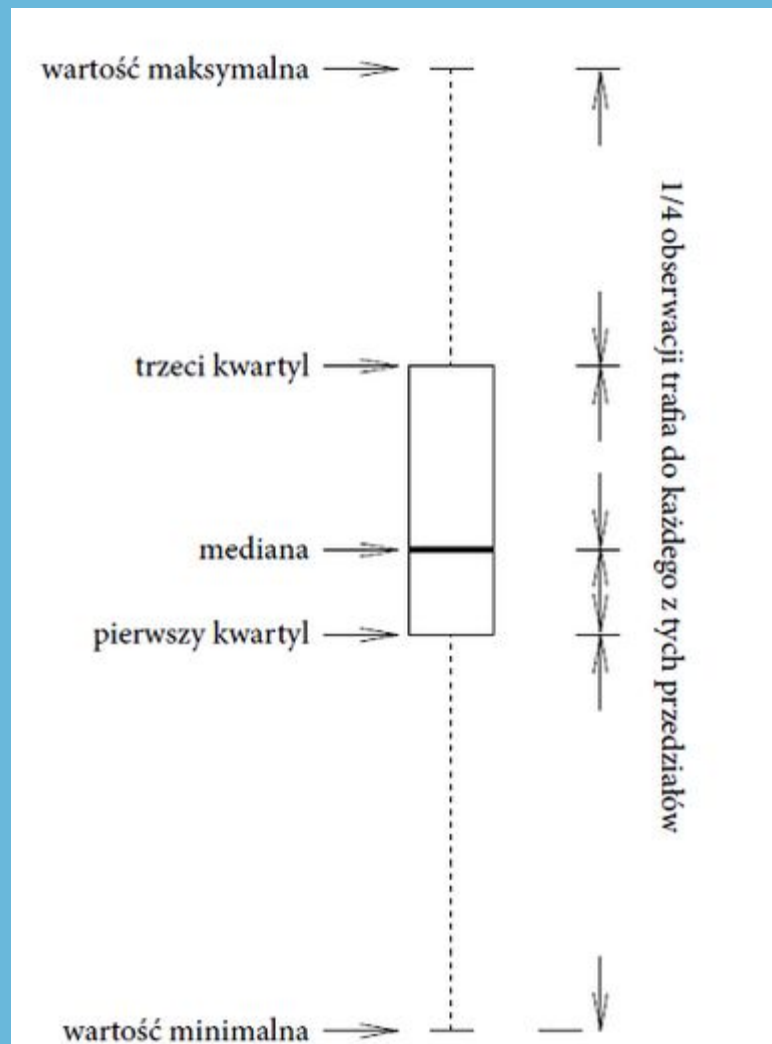
# Florence Nightingale

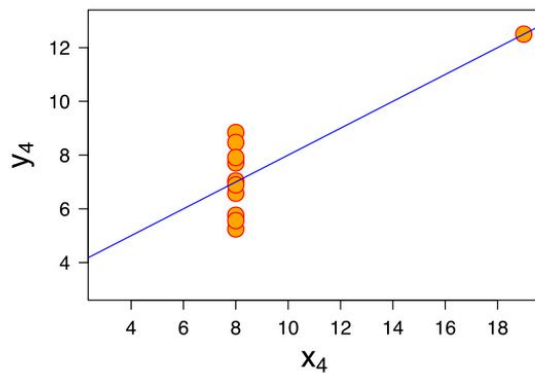
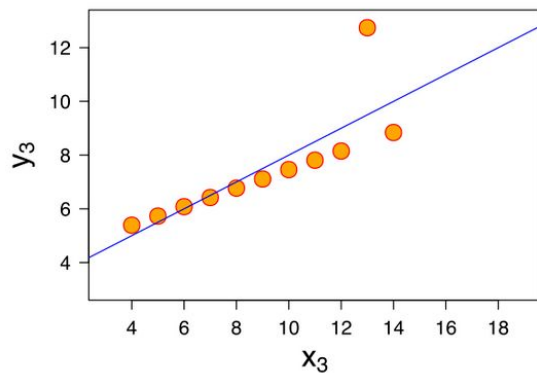
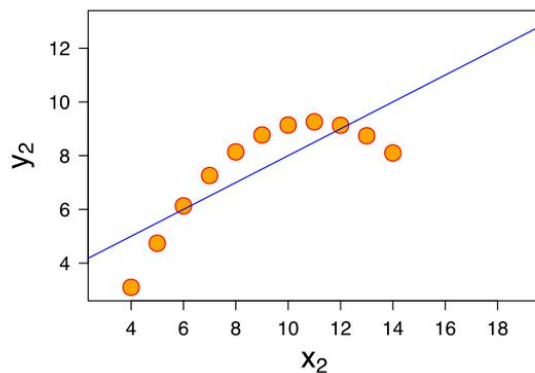
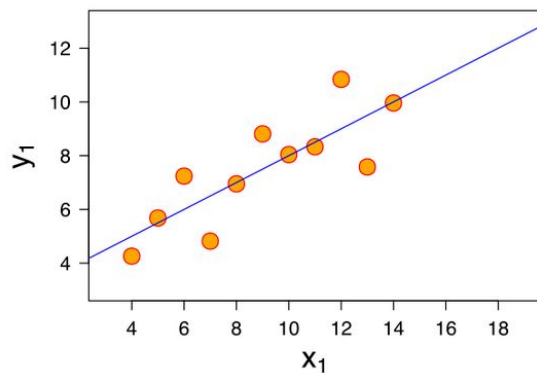


# Charles Minard



# John Tukey





# Kwartet Anscombe'a



# Edward Tufte

[www.edwardtufte.com](http://www.edwardtufte.com)

