# Historia grafiki statystycznej

Wstęp do Eksploracji Danych

# Zacznijmy bardzo daleko...

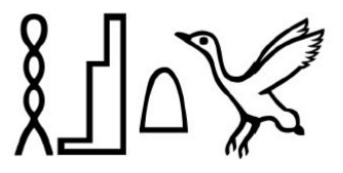


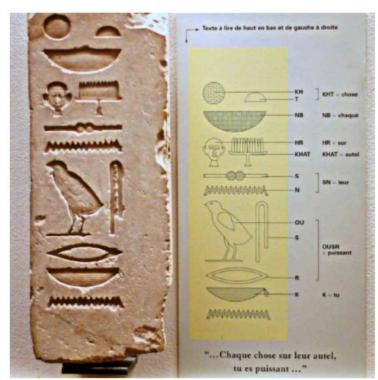




... 17 tysięcy lat temu.

# Hieroglify

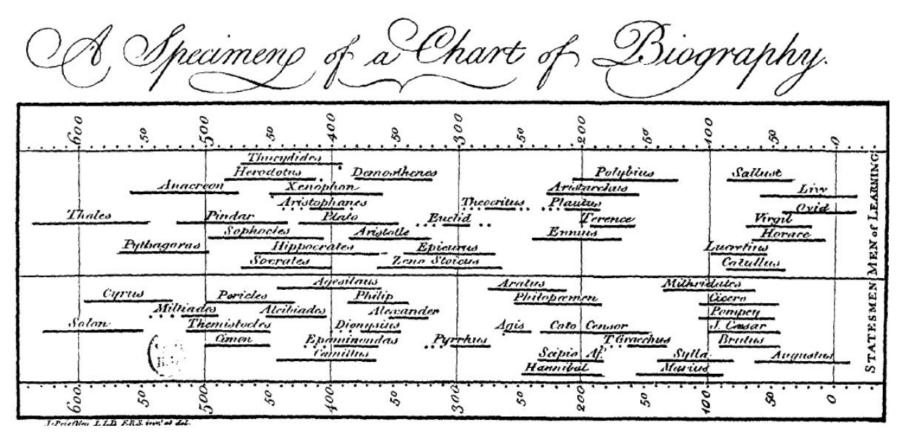




Tekst należy czytać od lewej do prawej, z góry na dół.

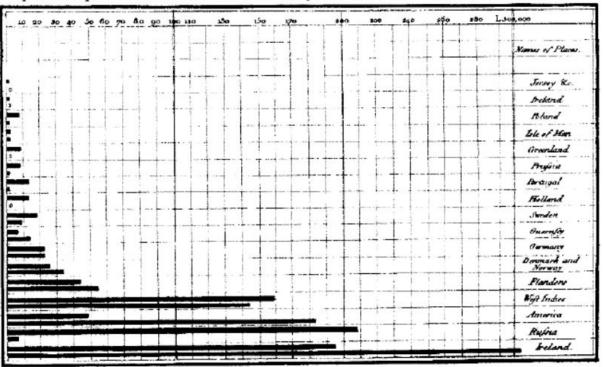
- = rzecz
- = wszystkie
- = ołtarz
- = ich
- = potężny
- = ty
- Wszystko na ich ołtarz, jesteś potężny

# Joseph Priestley



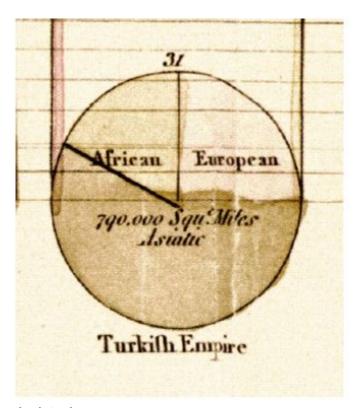
# William Playfair

Exports and imports of SCOTLAND to and from different parts for one Year from Christmas 1780 to Christmas 1781

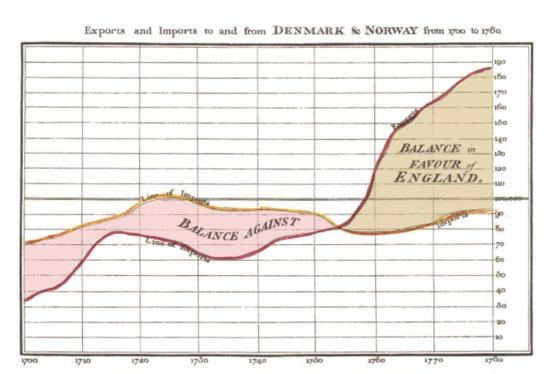


The I'pright dirifions are Ten Thoufand Pounds each. The Black Lines are Exports the Ribbedlines Imports.

# William Playfair



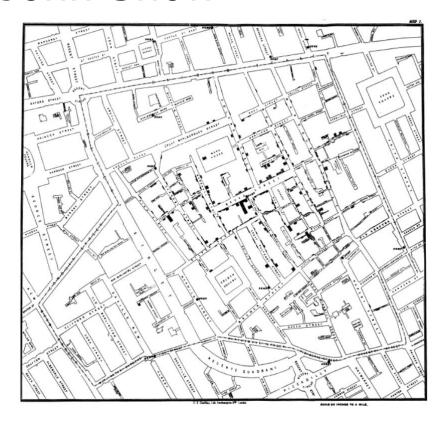
# William Playfair

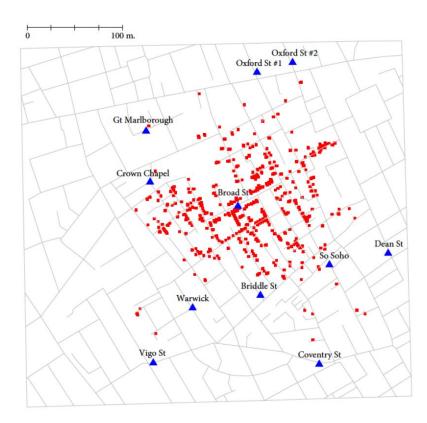


The Bottom line is divided into Years, the Right hand line into L19000 each.

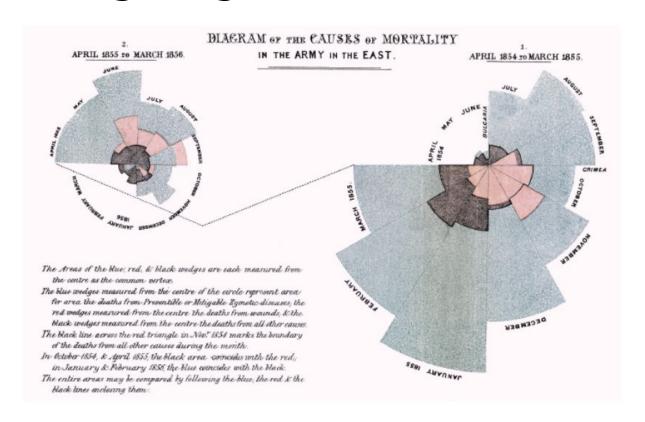
National as the Ast diving 1st May 1966, by W. Playstair

# John Snow

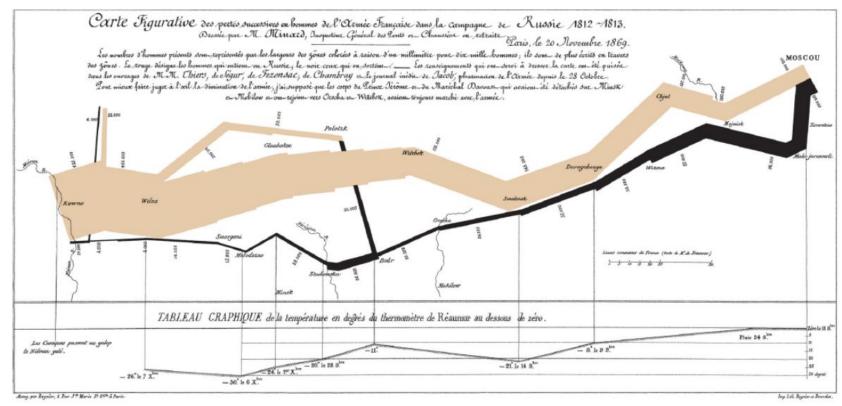




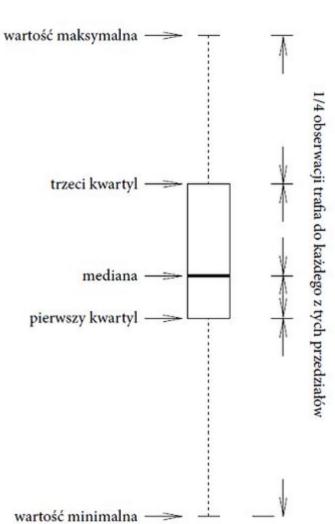
# Florence Nightingale

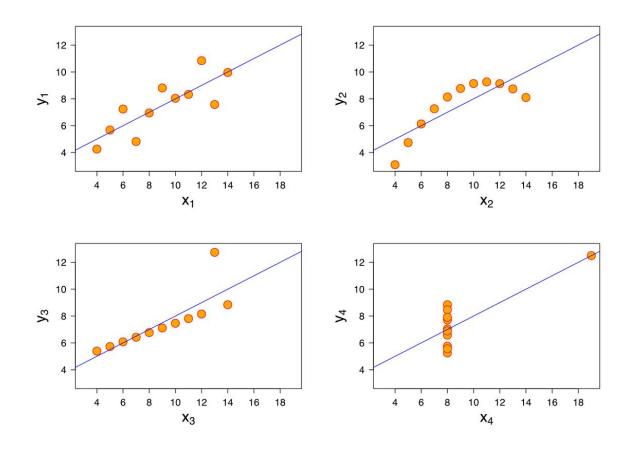


### **Charles Minard**



# John Tukey



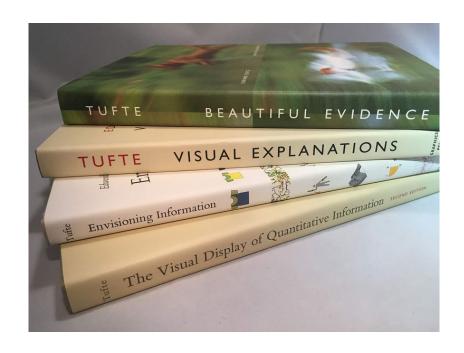


Kwartet Anscombe'a

http://www.biecek.pl/Eseje/indexHistoria.html

# **Edward Tufte**

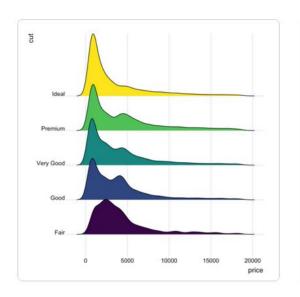
www.edwardtufte.com

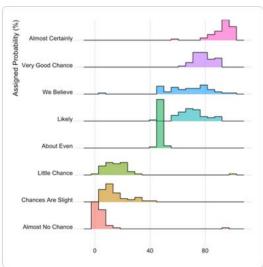


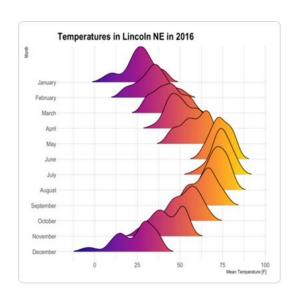


Inne rodzaje wykresów

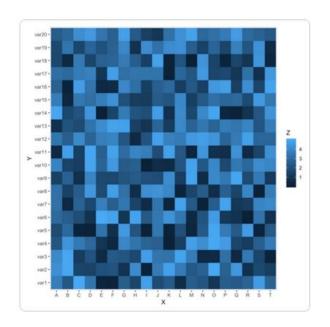
#### Ridgeline chart

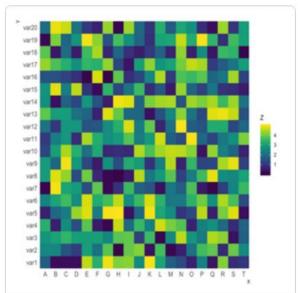


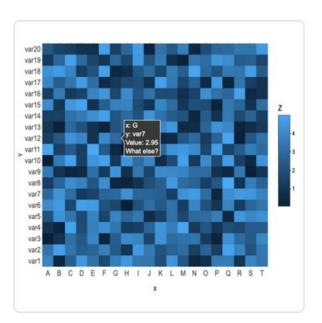




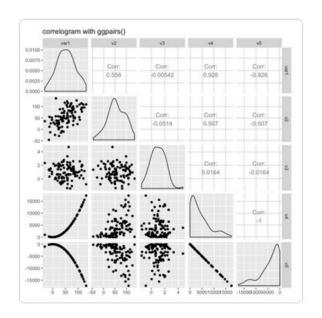
#### Heatmap

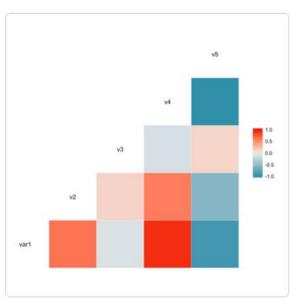


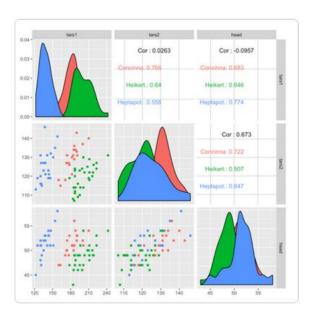




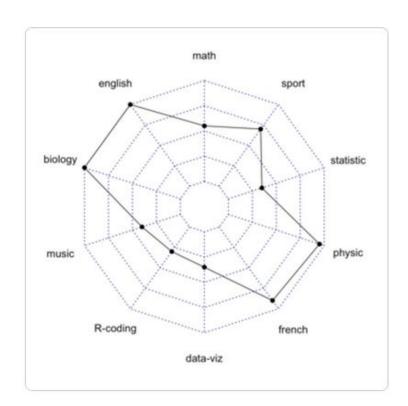
### Correlogram

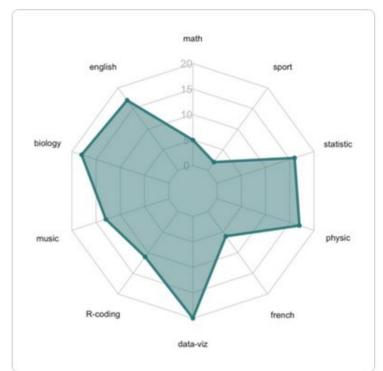






#### Radar chart





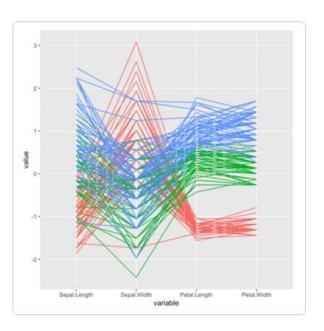
#### Wordcloud

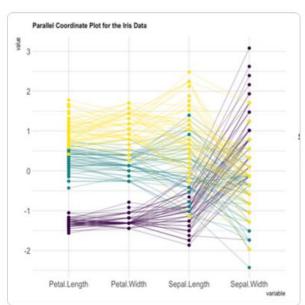


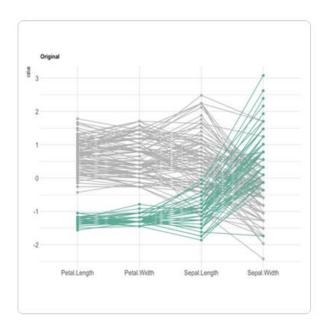




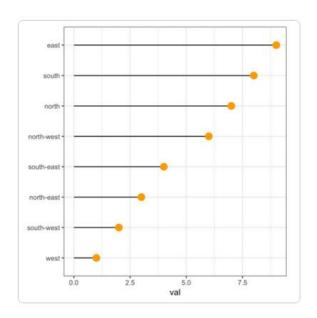
#### Parallel Coordinates chart

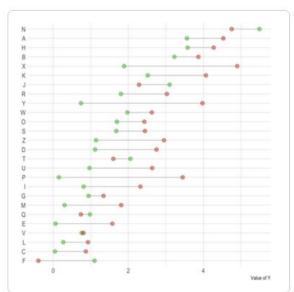


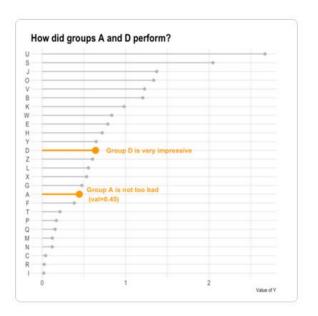




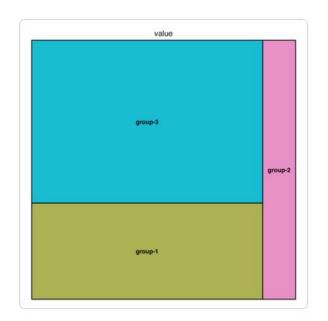
### Lollipop plot

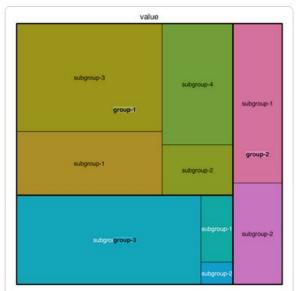


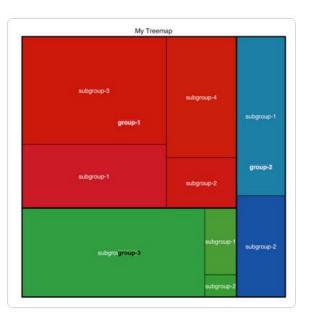




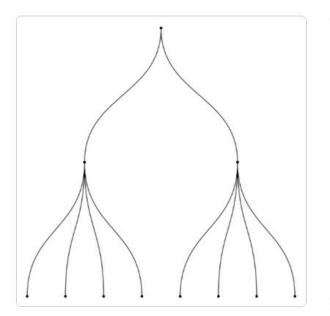
### Treemap plot

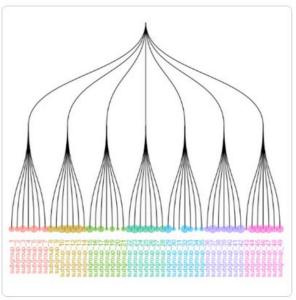


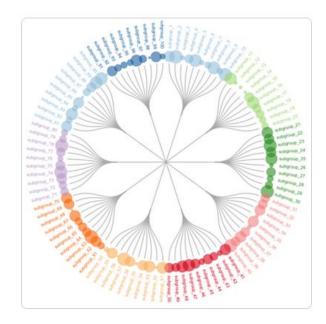




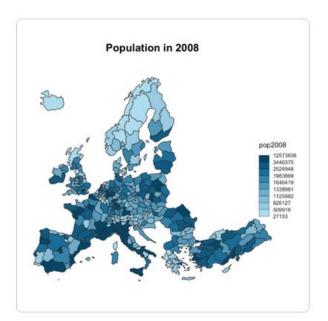
# Dendrogram

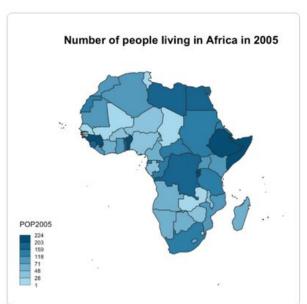


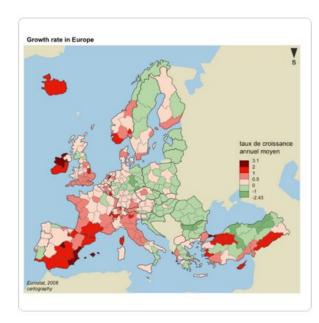




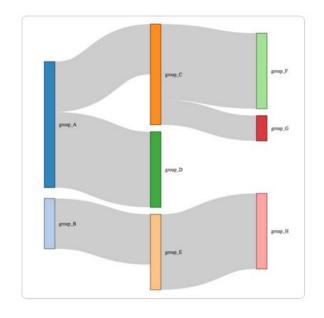
### Choropleth Map

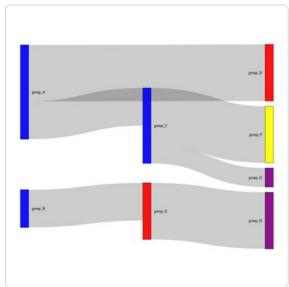


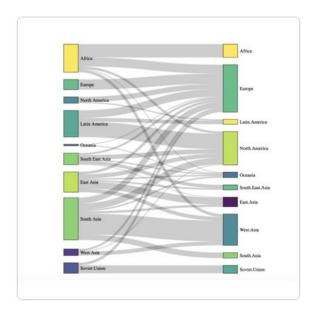




# Sankey Diagram







# Mosaic plot

