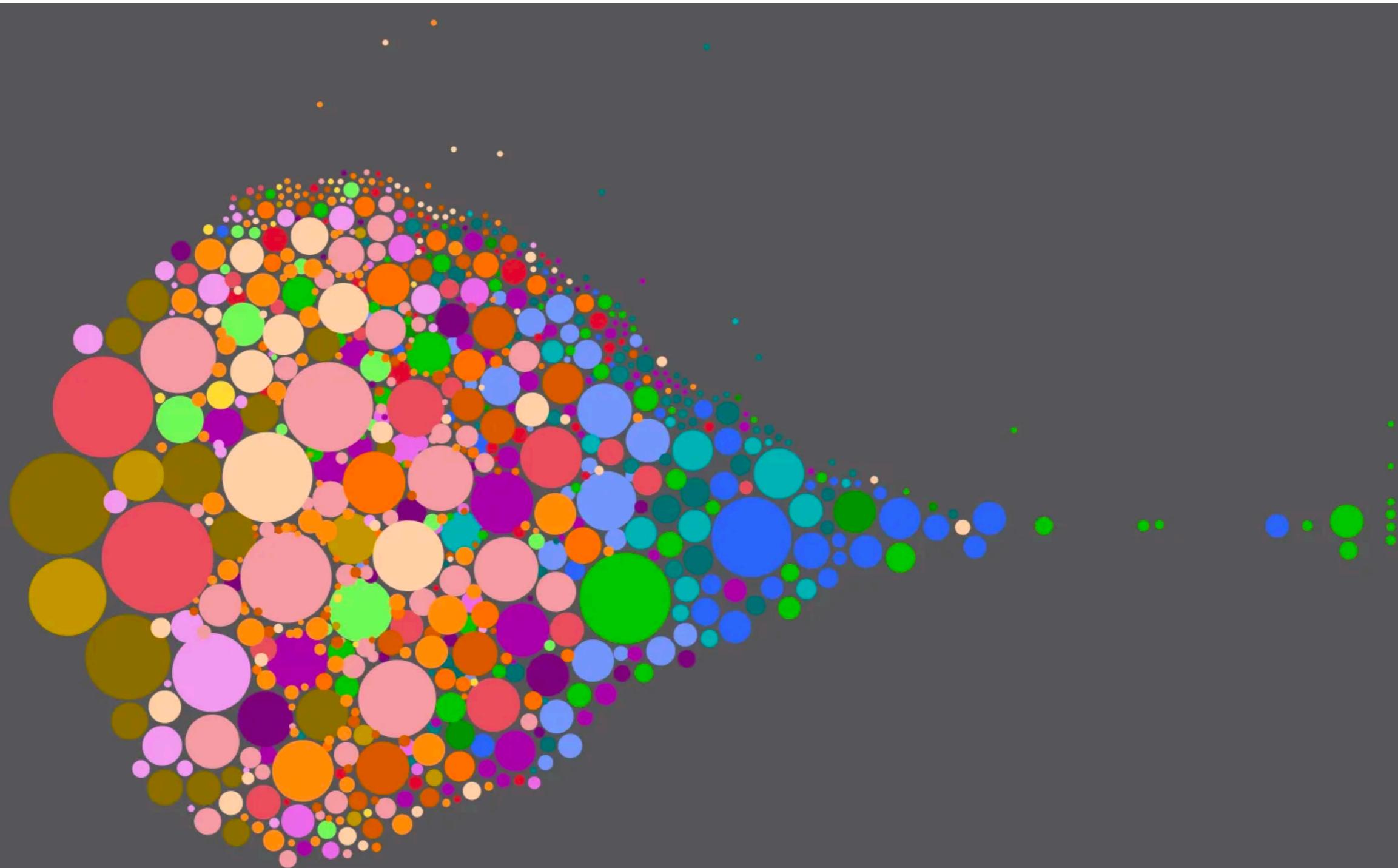


# DataVis dzisiaj

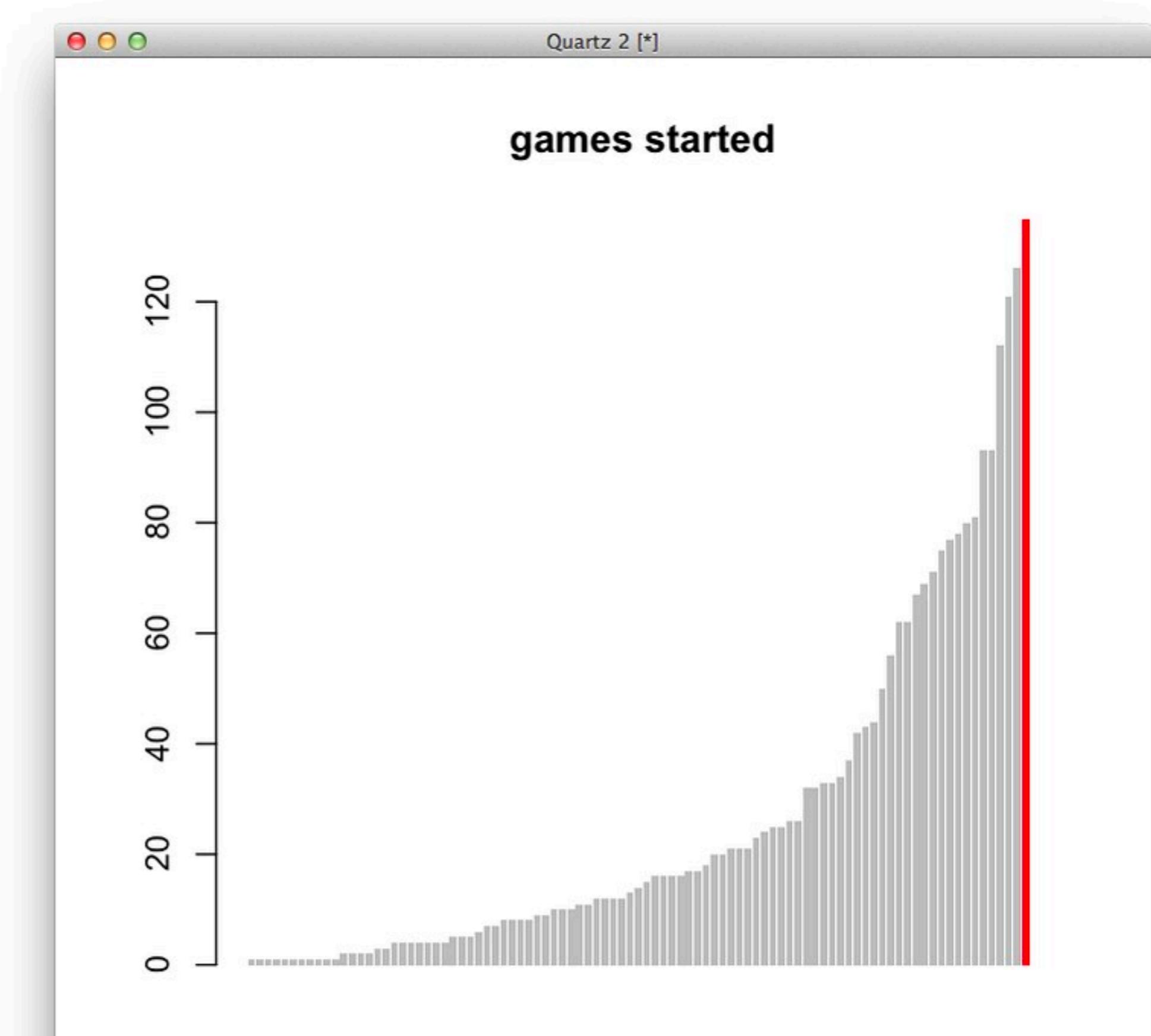


FLOWINGDATA





# *chartsnthings*

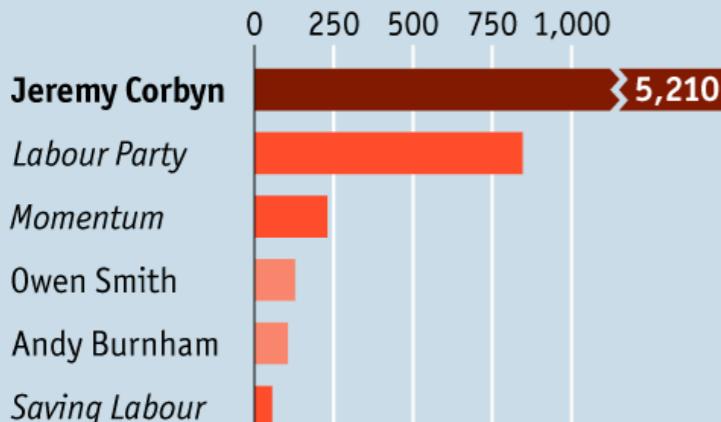


# Mistakes, we've drawn a few

## Original

### Left-click

Average number of likes per Facebook post  
2016



Source: Facebook

## Better

### Left-click

Average number of likes per Facebook post  
2016, '000

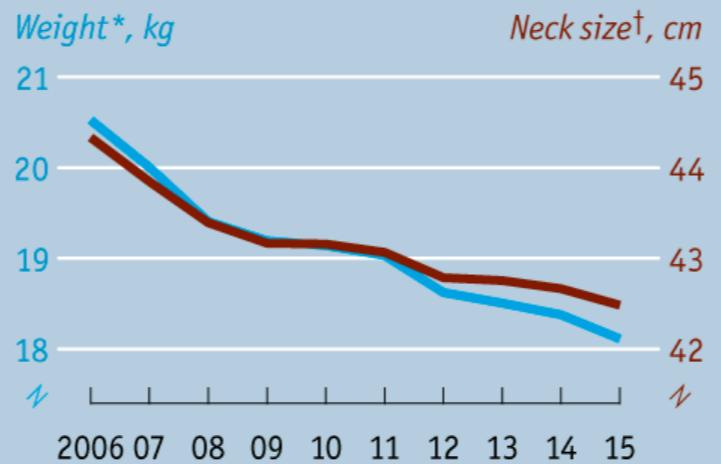


Source: Facebook

## Original

### Fit as a butcher's dog

Characteristics of dogs registered with the UK's Kennel Club, average when fully grown



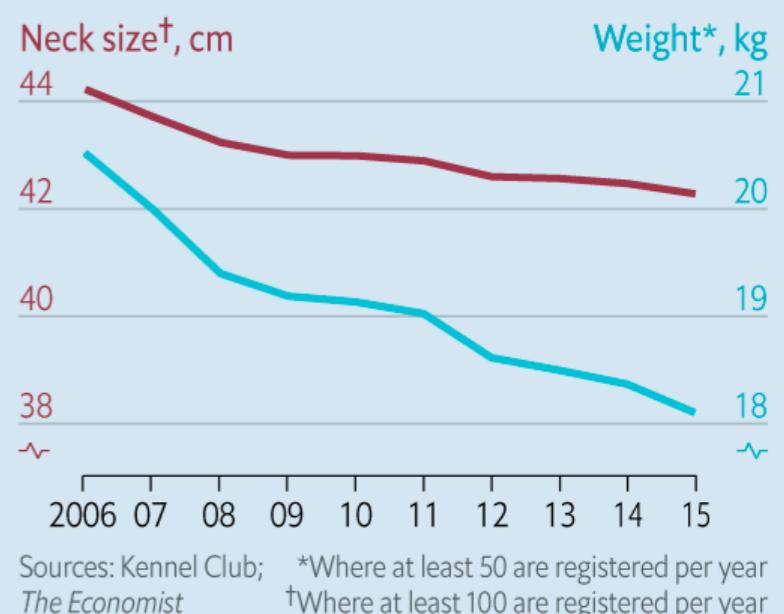
Sources: Kennel Club;  
*The Economist*

\*Where at least 50 are  
registered per year    †Where at  
least 100 are registered per year

## Better

### Fit as a butcher's dog

Characteristics of dogs registered with the UK's Kennel Club, average when fully grown



Sources: Kennel Club;  
*The Economist*

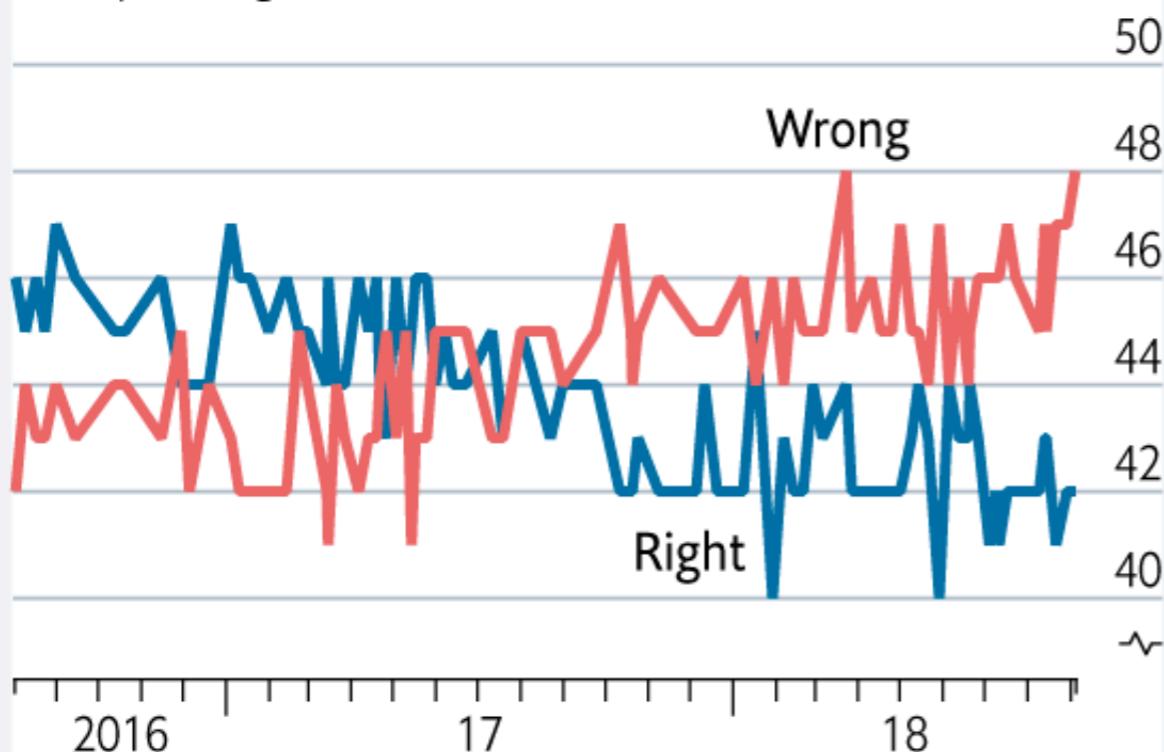
\*Where at least 50 are registered per year  
†Where at least 100 are registered per year

## Original

### Bremorse

"In hindsight, do you think Britain was right or wrong to vote to leave the EU?"

% responding



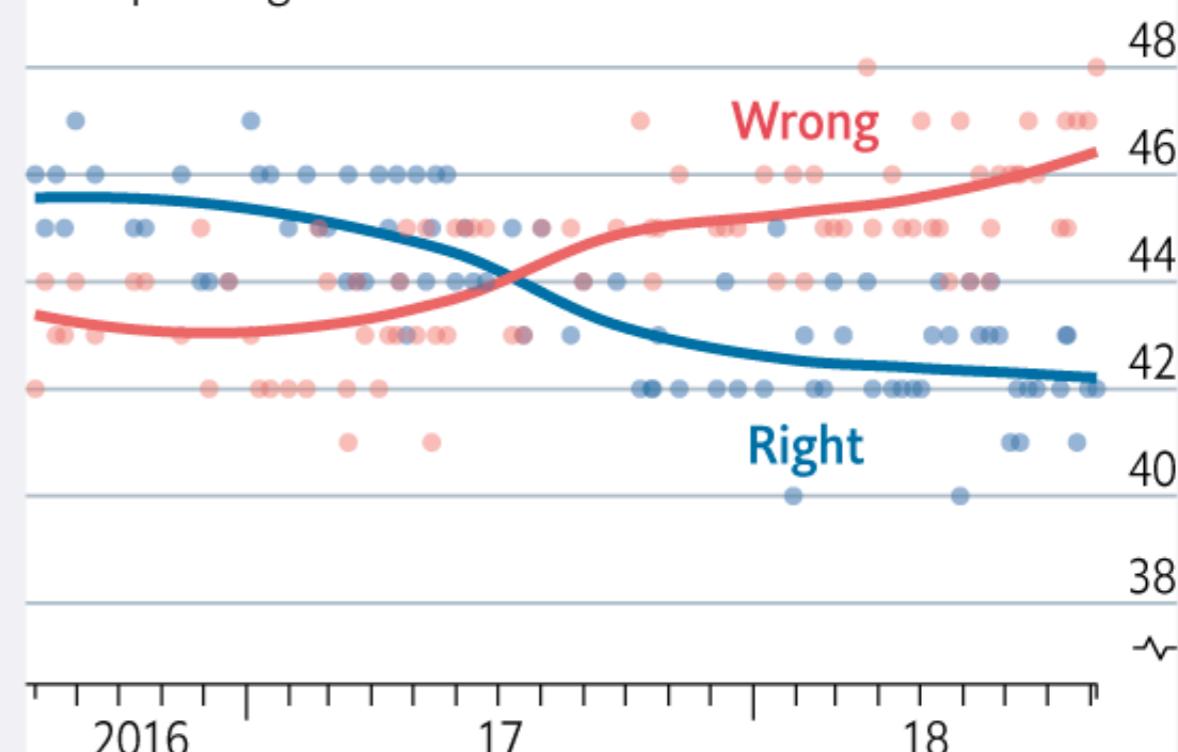
Source: NatCen Social Research

## Better

### Bremorse

"In hindsight, do you think Britain was right or wrong to vote to leave the EU?"

% responding



Source: NatCen Social Research

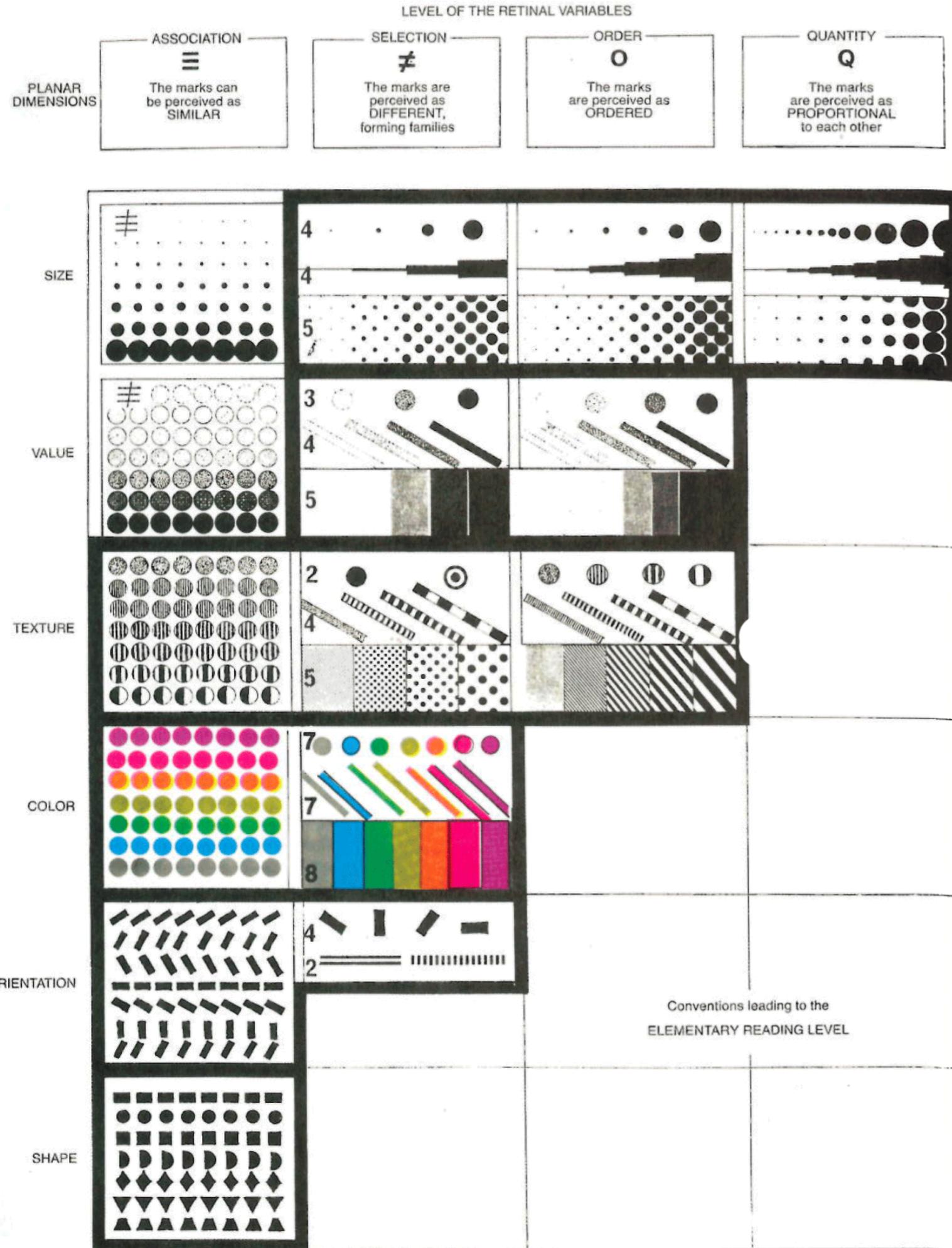
# Początki



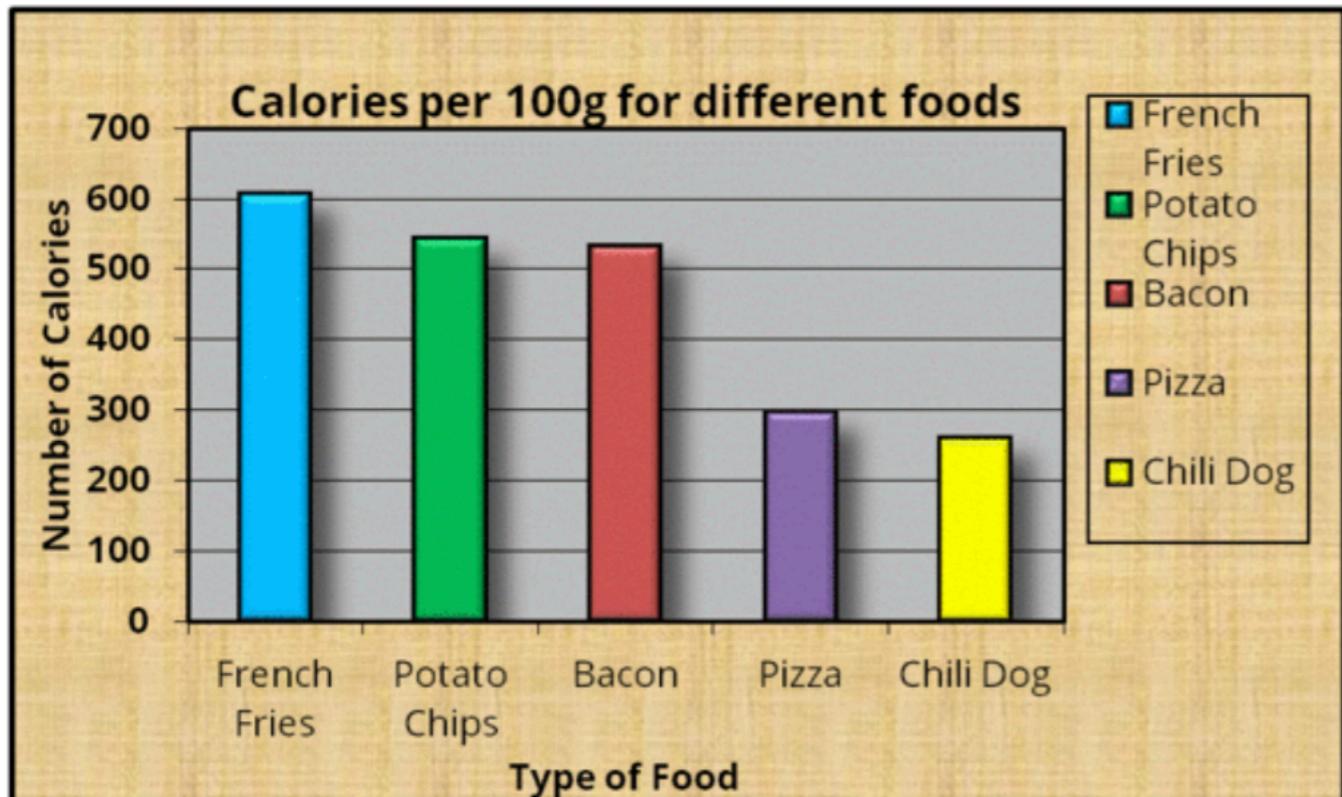
JACQUES BERTIN

# Semiology of Graphics

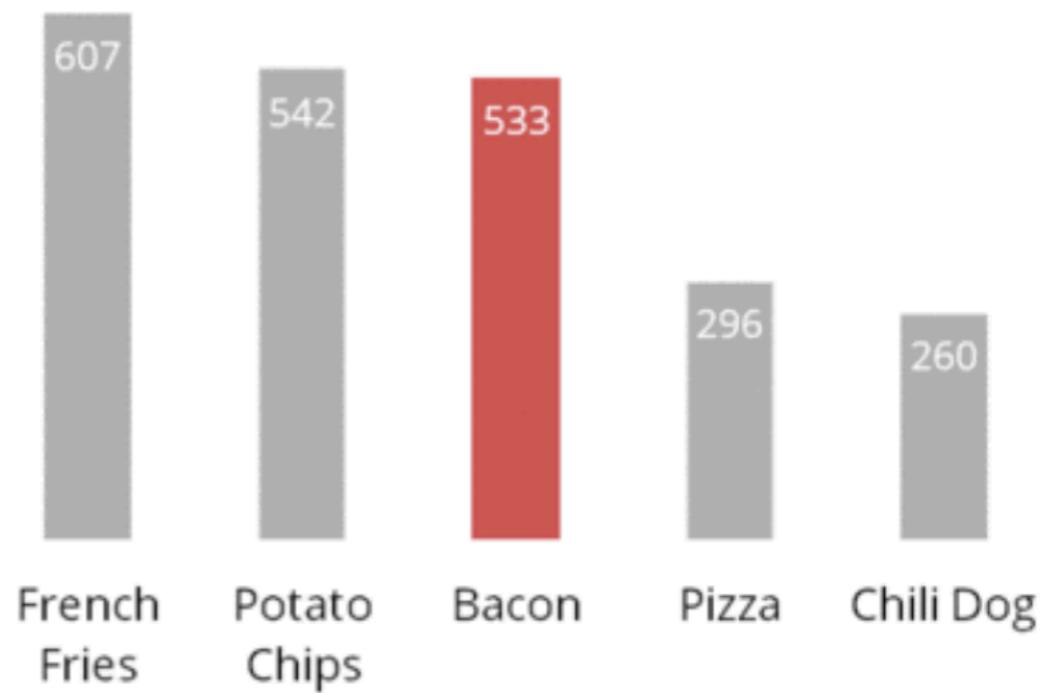
*diagrams  
networks  
maps*



# Data-ink ratio

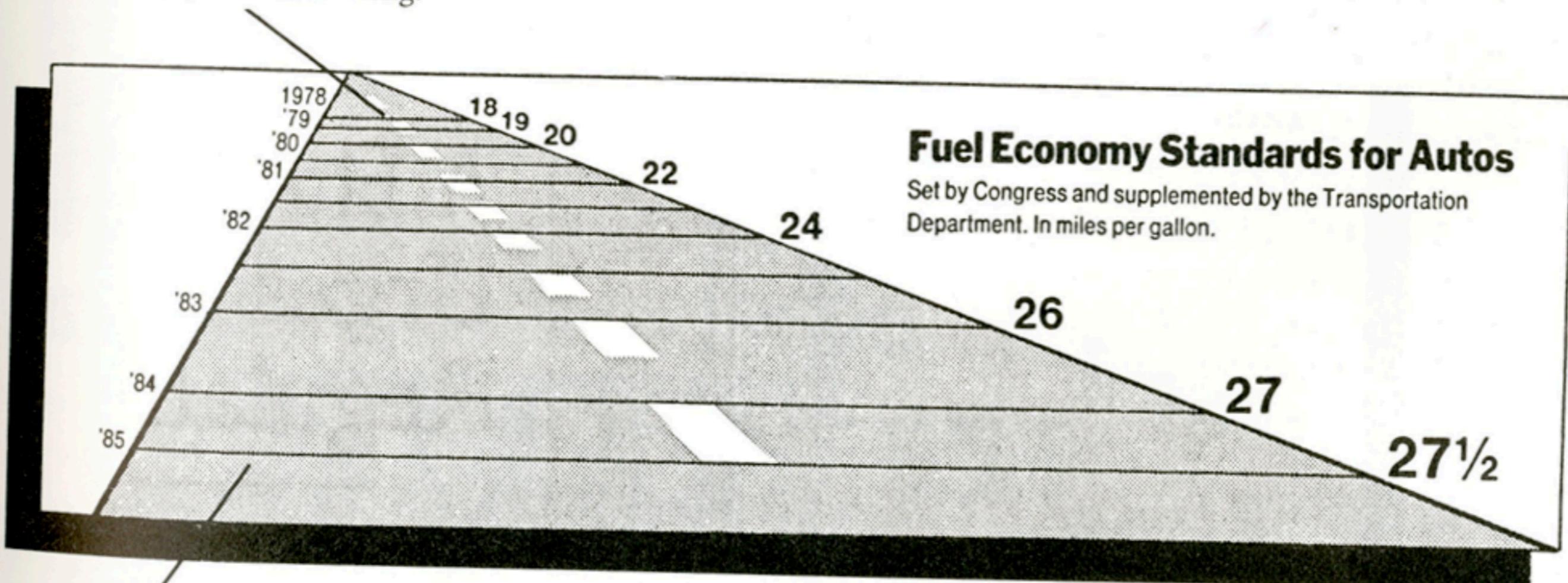


Calories per 100g



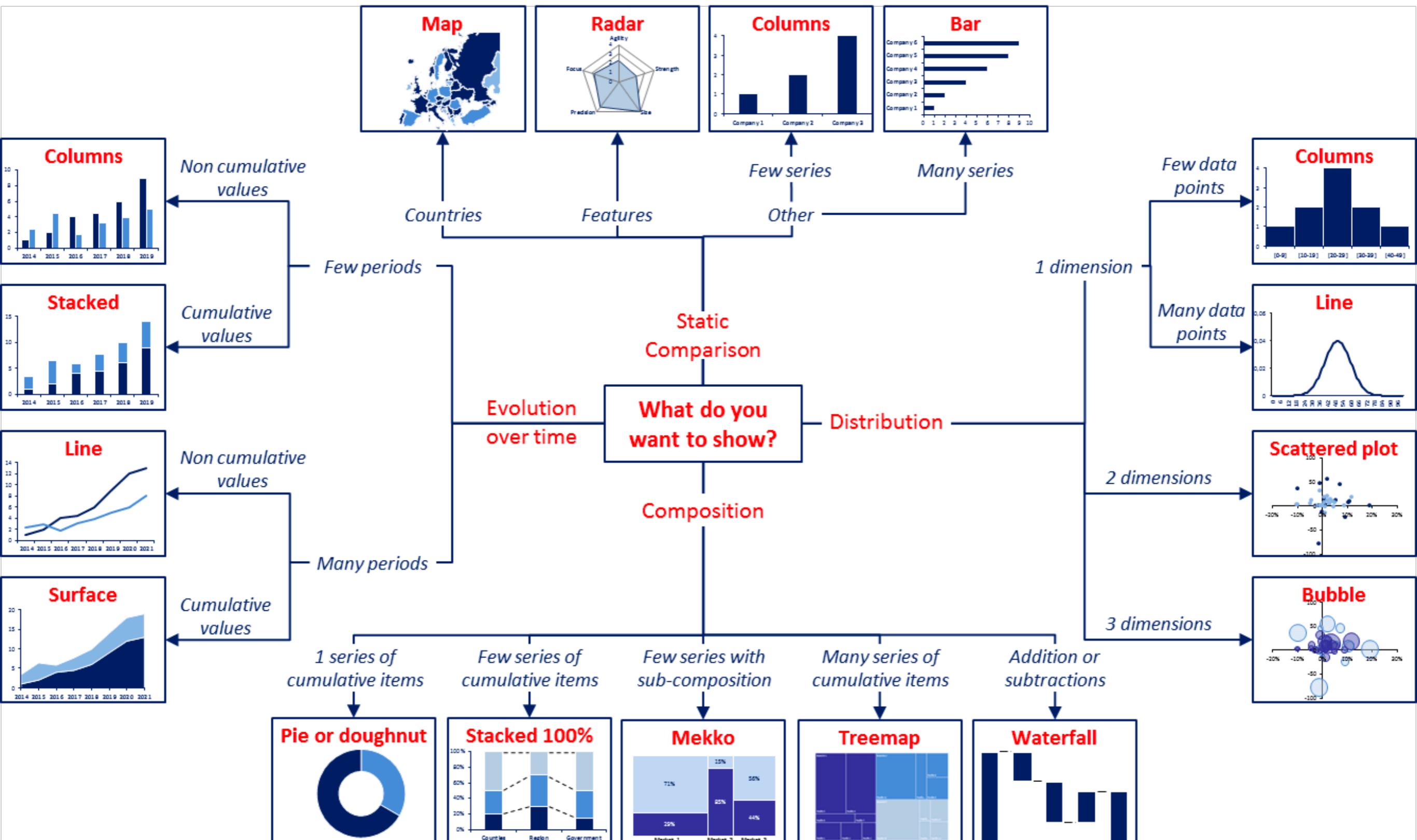
# Lie factor

This line, representing 18 miles per gallon in 1978, is 0.6 inches long.



This line, representing 27.5 miles per gallon in 1985, is 5.3 inches long.

$$\text{Lie Factor} = \frac{\text{Effect in Graphic} = 5.3/06}{\text{Effect in data} = 27.5/18} = \frac{8.8}{1.5} = 5.9$$



# Charles Minard, Inwazja Napoleona na Rosję (1869)

*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 perdus sont représentés par les largeurs des zones colorées à raison d'un millimètre pour dix mille hommes; ils sont de plus écrits en tête des zones. Le rouge désigne les hommes qui ont été tués en Russie; le noir ceux qui en sont sortis. — Les renseignements qui ont servi à dresser la carte ont été pris dans les ouvrages de M. M. Chiers, de Ségur, de Fezensac, de Chambray et le journal médical de Jacob, pharmacien de l'Armée depuis le 28 Octobre.

Pour mieux faire juger à l'œil la diminution de l'armée, j'ai supposé que les corps du Prince Jérôme et du Maréchal Davout qui avaient été détachés sur Minsk et Malibow et avaient rejoint vers Ossaka en Wilno, avaient toujours marché avec l'armée.

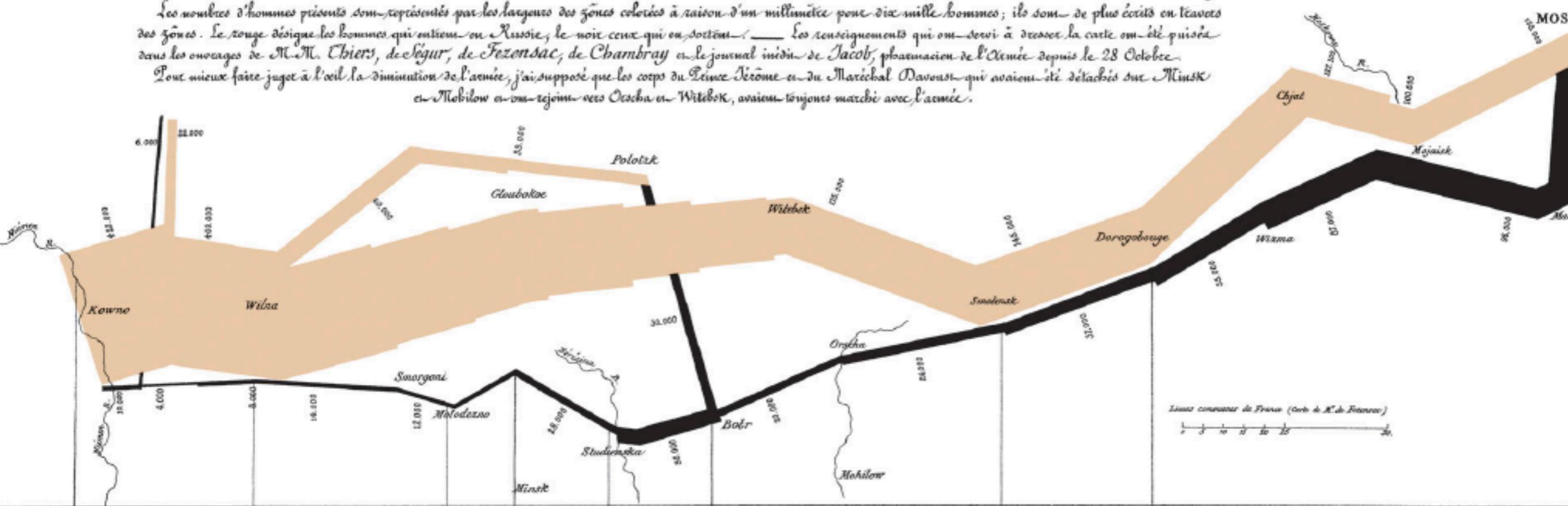


TABLEAU GRAPHIQUE de la température en degrés du thermomètre de Réaumur au dessous de zéro.

Les cosaques passent au galop  
le Niemen gelé.

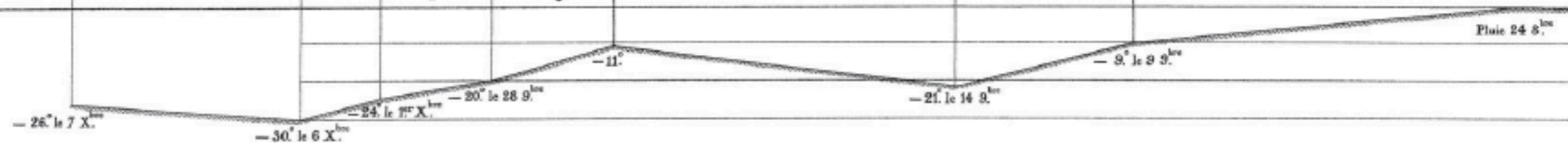
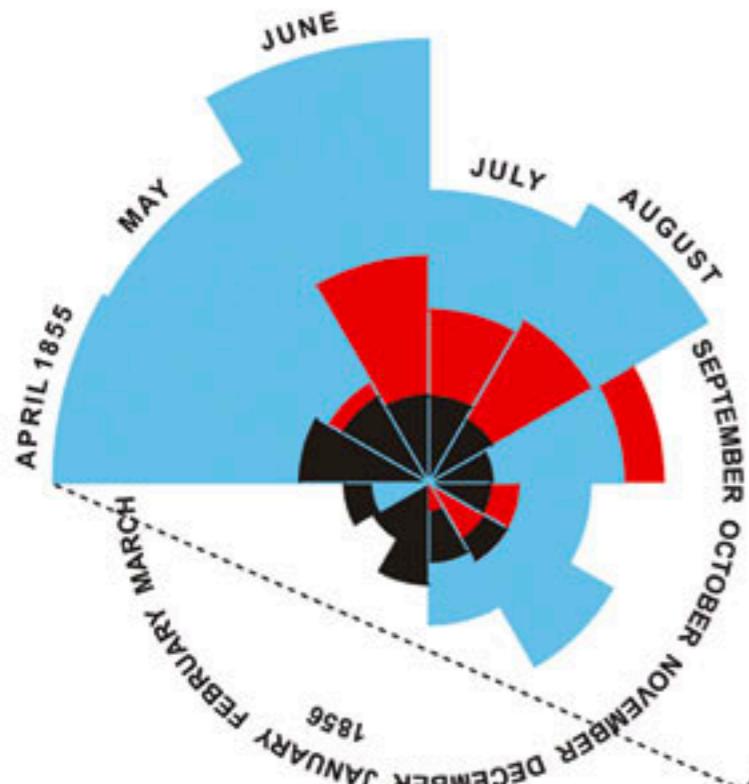
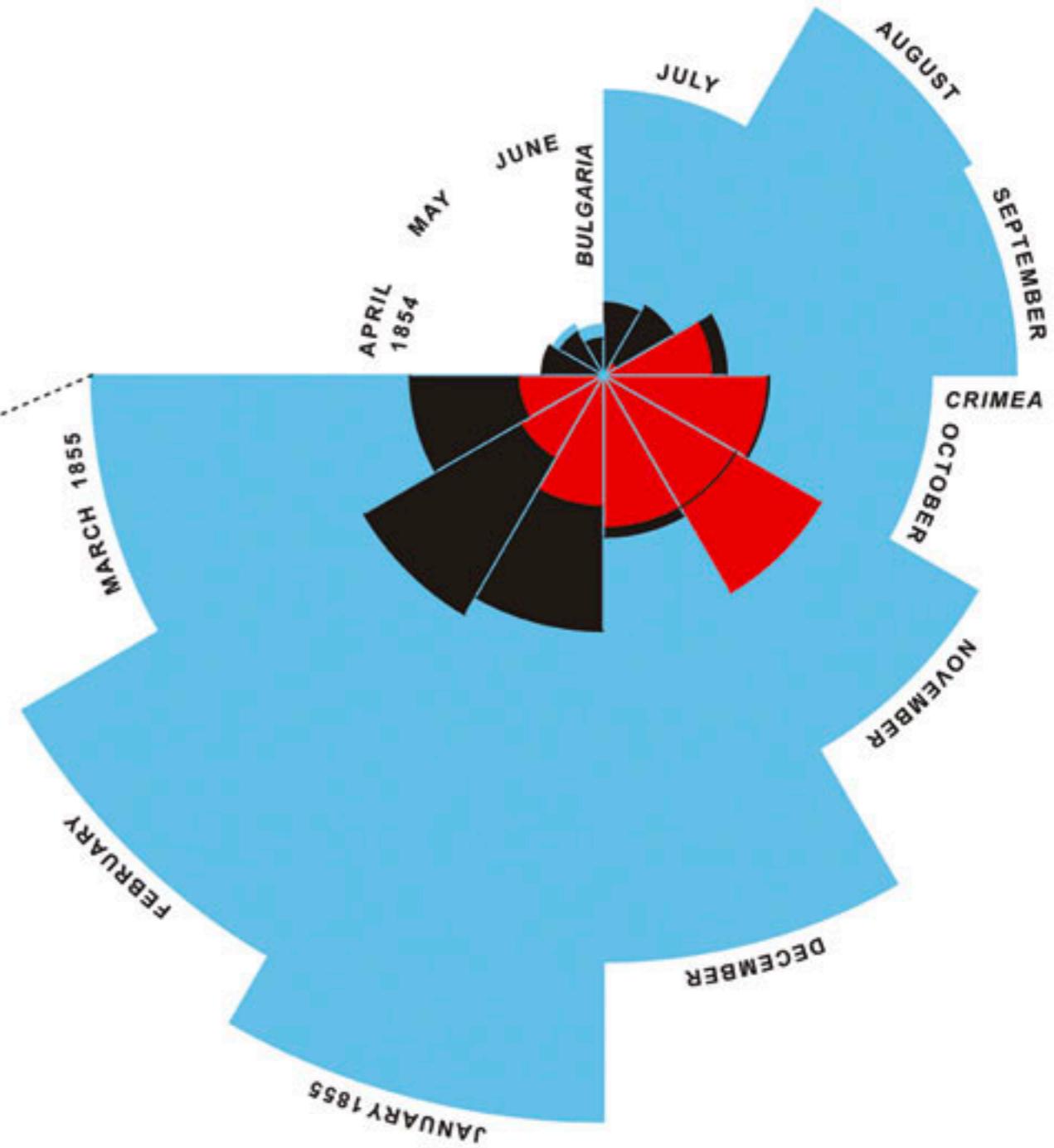


DIAGRAM OF THE CAUSES OF MORTALITY  
IN THE ARMY IN THE EAST.

2.  
APRIL 1855 TO MARCH 1856.



1.  
APRIL 1854 TO MARCH 1855.



*The Areas of the blue, red, & black wedges are each measured from the centre as the common vertex*

*The blue wedges measured from the centre of the circle represent area for area the deaths from Preventible or Mitigable Zymotic Diseases, the red wedges measured from the centre the deaths from wounds, & the black wedges measured from the centre the deaths from all other causes*

*The black line across the red triangle in Nov' 1854 marks the boundary of the deaths from all other causes during the month*

*In October 1854, & April 1855, the black area coincides with the red, in January & February 1856, the blue coincides with the black*

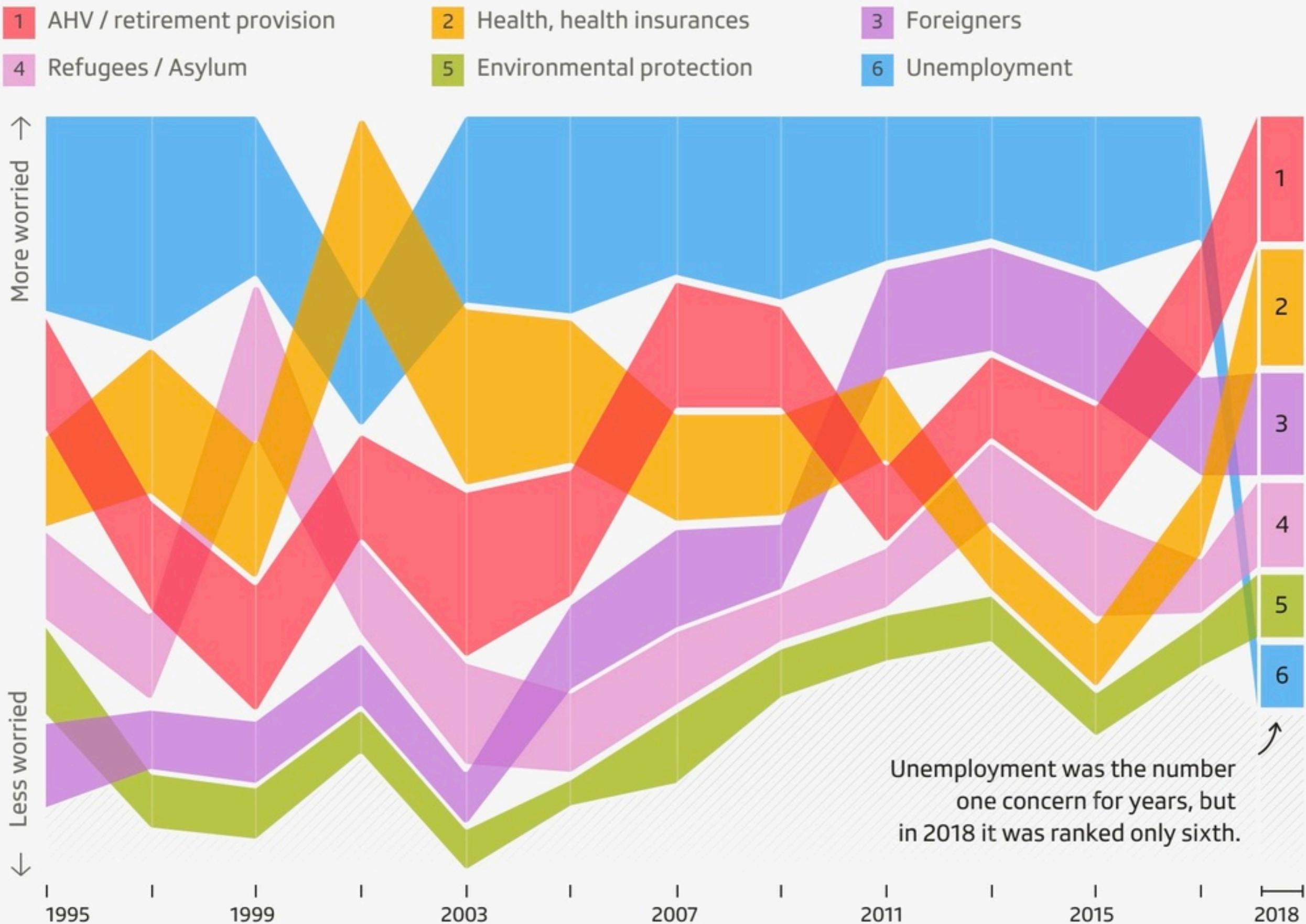
*The entire areas may be compared by following the blue, the red & the black lines enclosing them. ©hugh-small.co.uk*

# Inspiracje

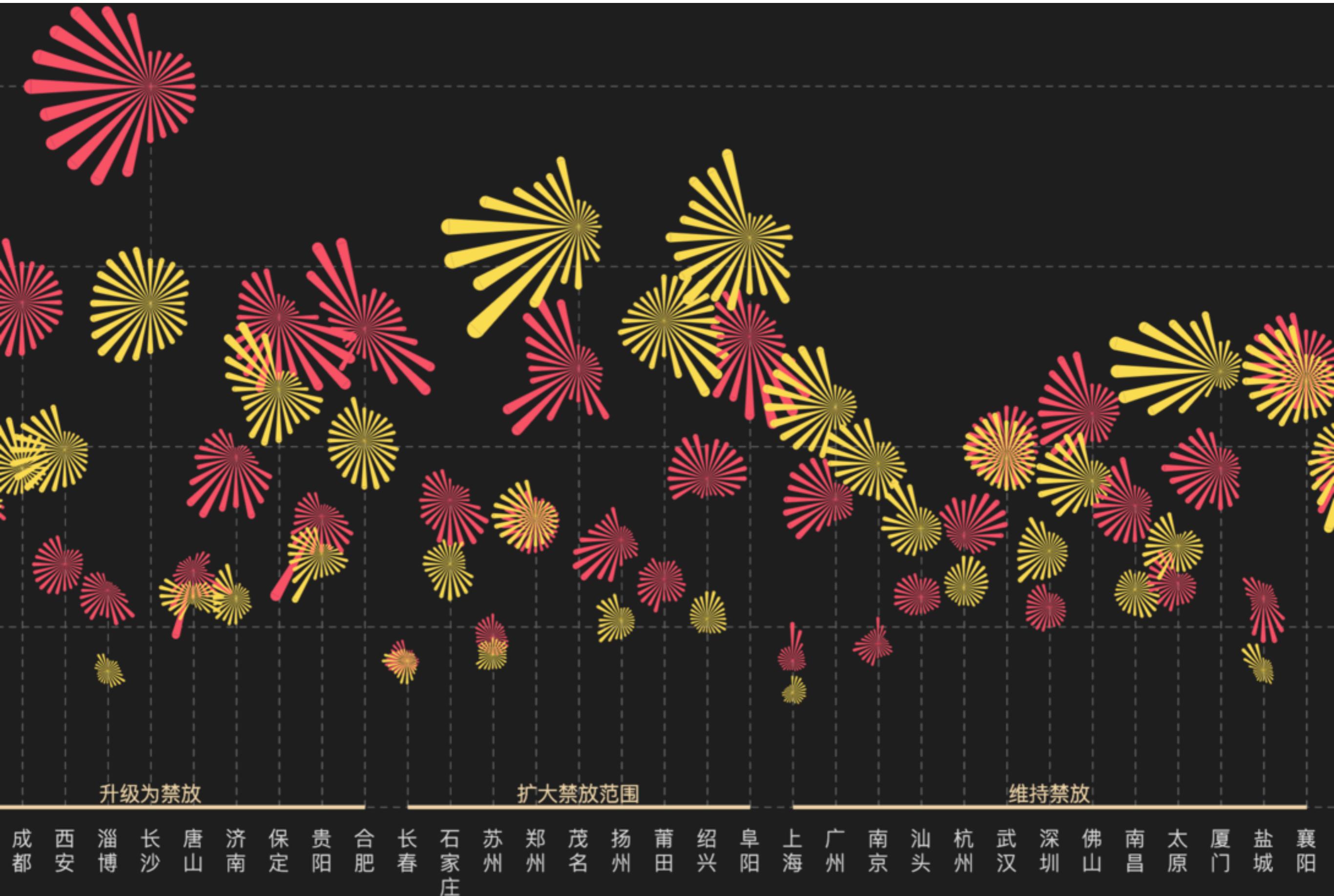


**KANTAR**  
**Information is Beautiful**  
Awards 2019

# What People In Switzerland Worry About



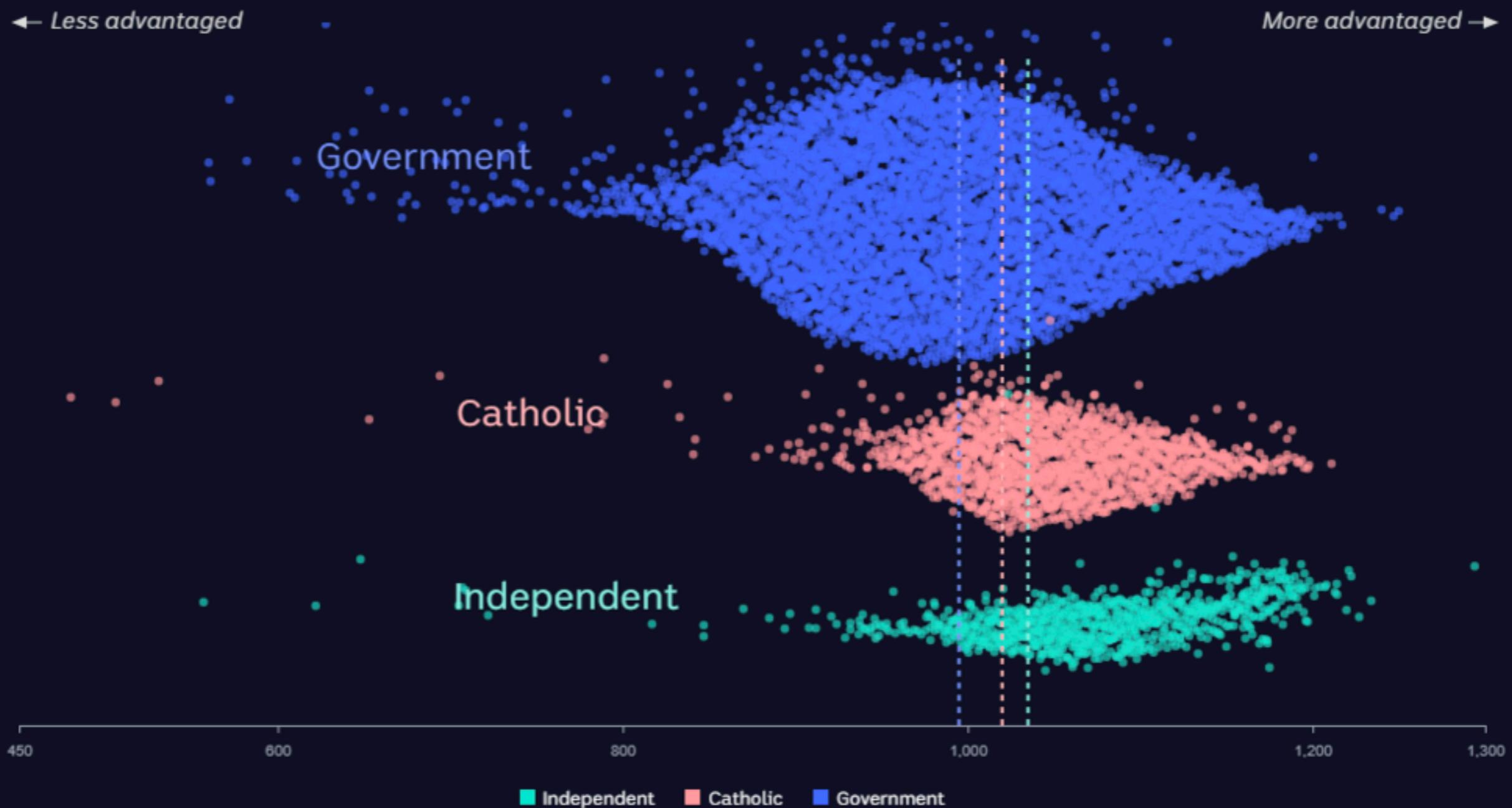
# Fewer Fireworks For Celebration, Better Air Quality To Start The New Year



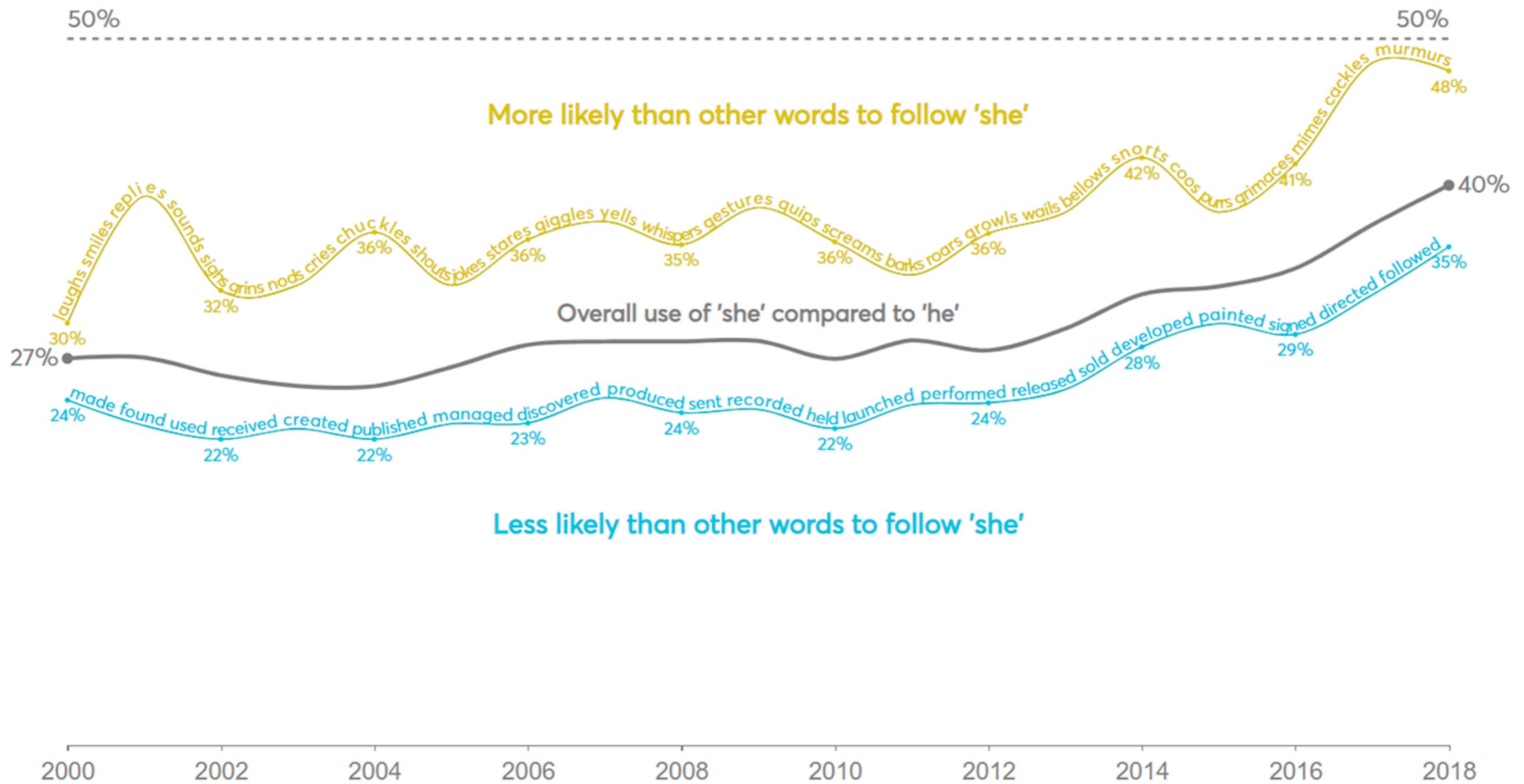
# Counting The Cost Of The Education Revolution

Advantage distribution of school sectors

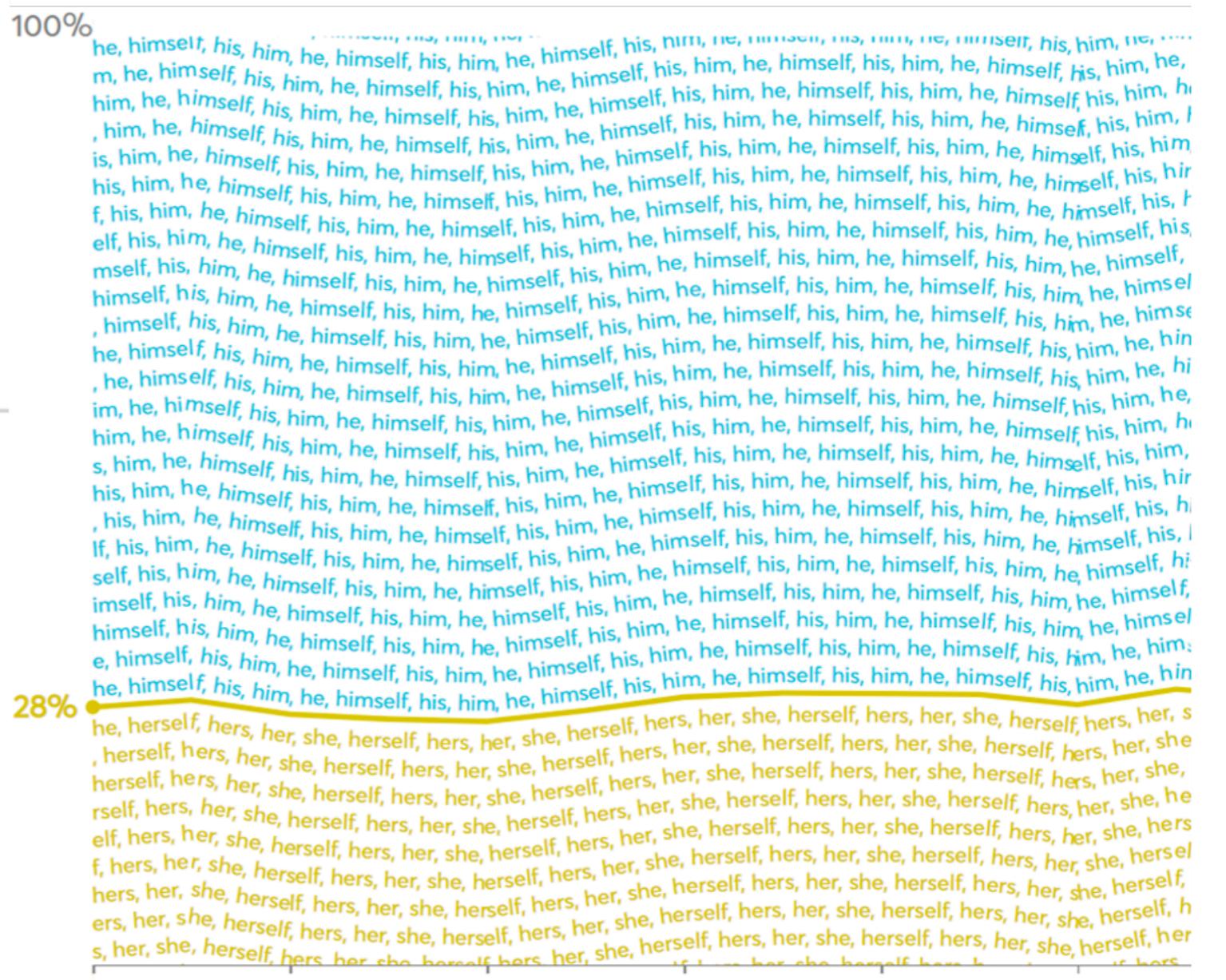
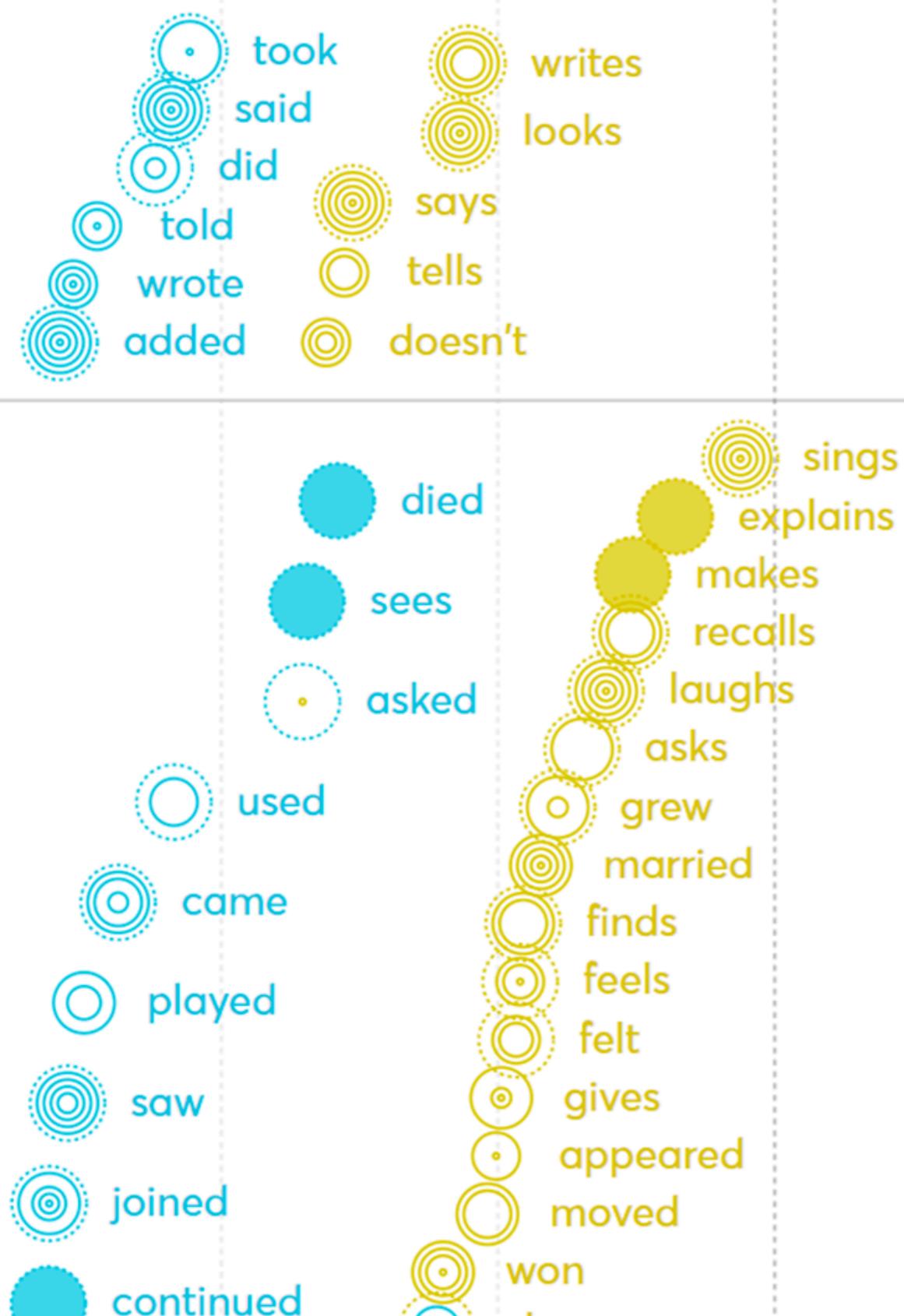
2016



## Groups of words that are **more** and **less** likely to follow 'she'



# She Said More



When **she speaks** of classical culture and religion she...

...film about her memories of Beirut, **she speaks** less of the place itself than...

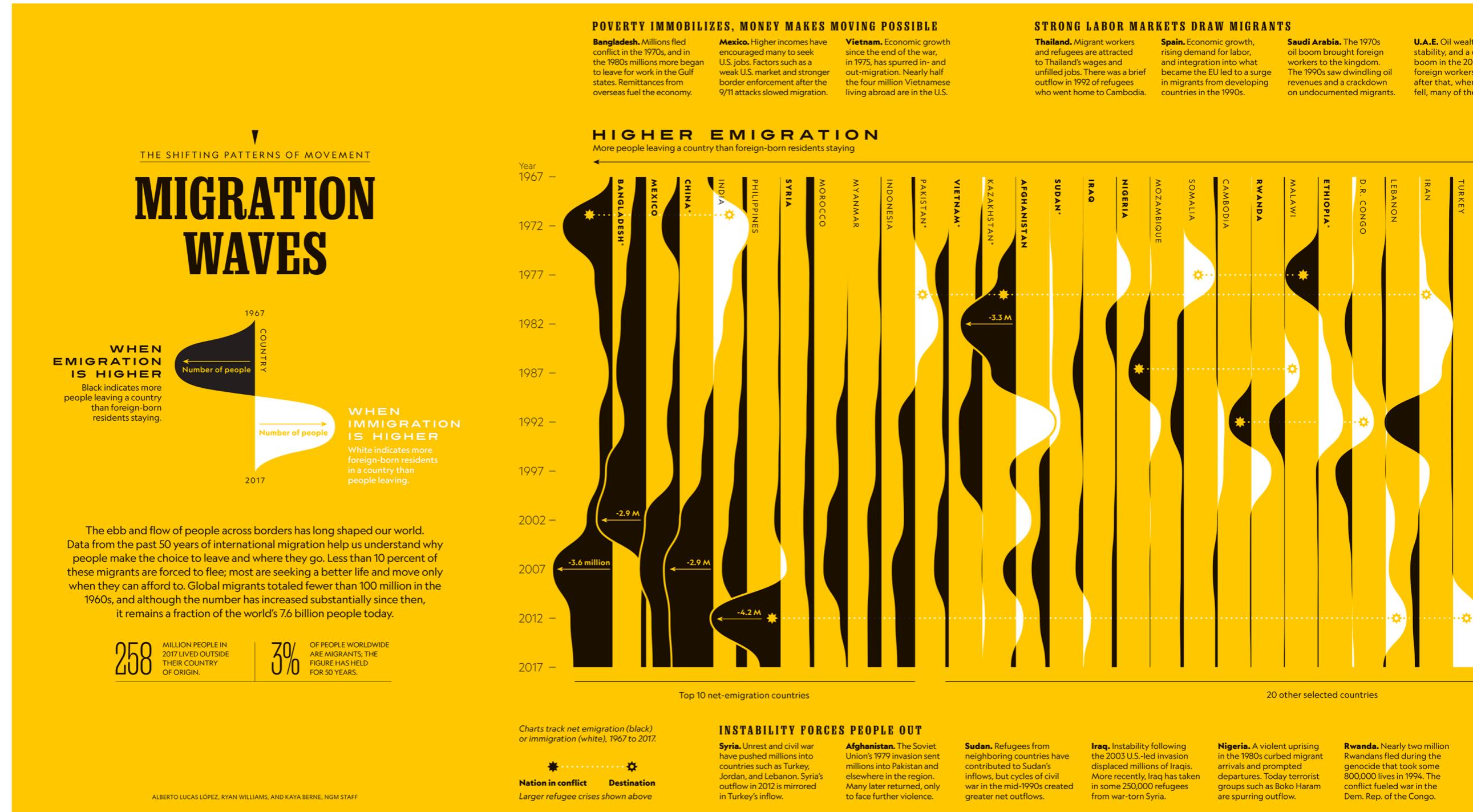
**She speaks** so much about what it means...

When **she speaks** of the destruction wrought on the...

Whoever **she speaks** to, she instantly declares it.

Caught on film, in old age, **she speaks** with extraordinary insight about her work...

# Migration Waves



# Drowning In Plastic: Visualising The World's Addiction To Plastic Bottles



<https://www.informationisbeautifulawards.com/showcase/4009-drowning-in-plastic-visualising-the-world-s-addiction-to-plastic-bottles>