Taller de visualización de datos
Pamplona, 2020

Sesiones

- Sesión 1 .- Introducción a la visualización de datos
- Sesión 2 .- Visualización de datos con Tableau (I)
- Sesión 3 .- Visualización de datos con Tableau (II)
- Sesión 4 .- Visualización y análisis de información geográfica con QGIS (I)
- Sesión 5 .- Visualización y análisis de información geográfica con QGIS (II)

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Recursos

https://github.com/alabarga/dataviz-colsocpona-2020

Visualización de datos

782356
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94560156
01000100100
000012
01296712
91236742323
01001100
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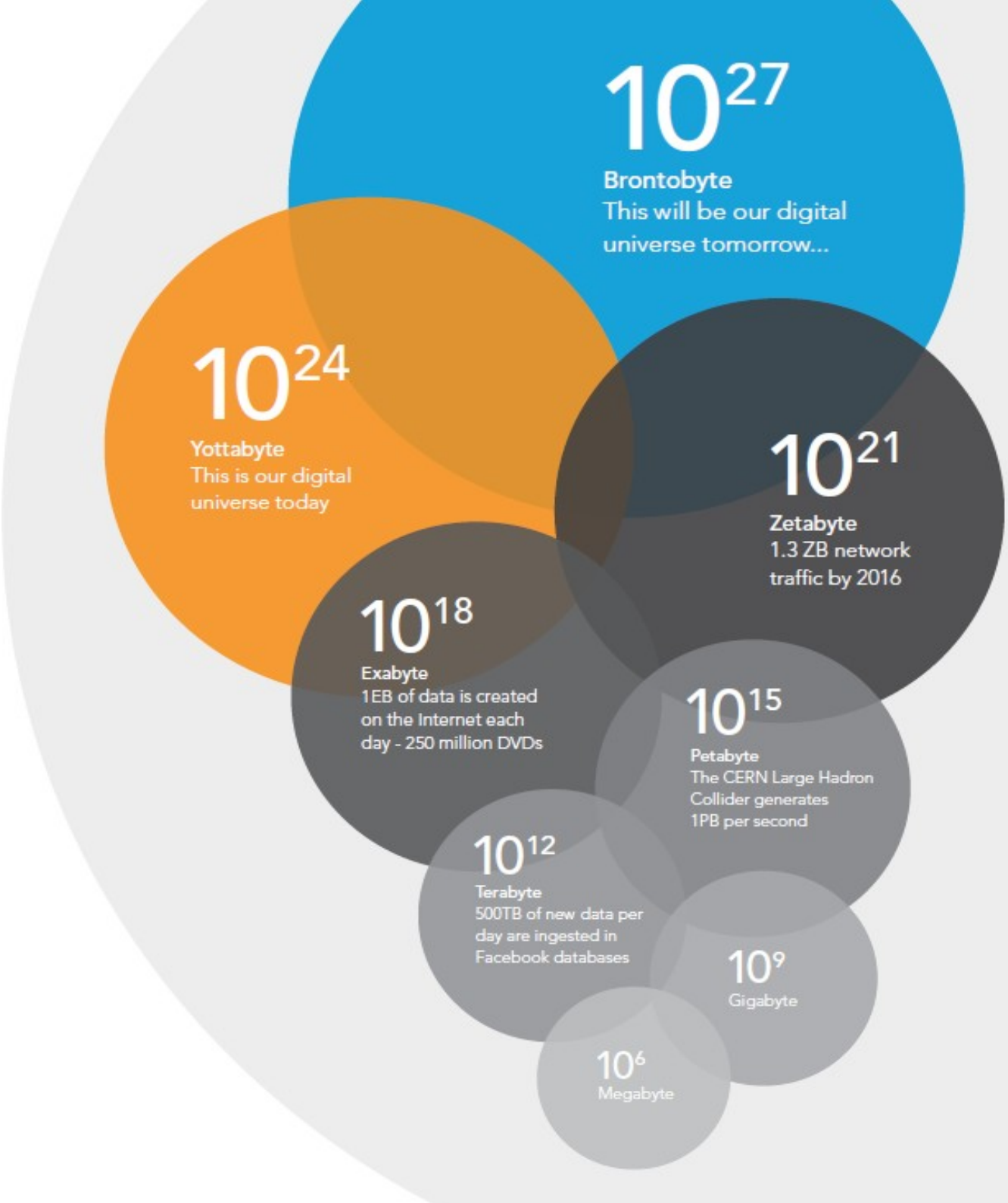
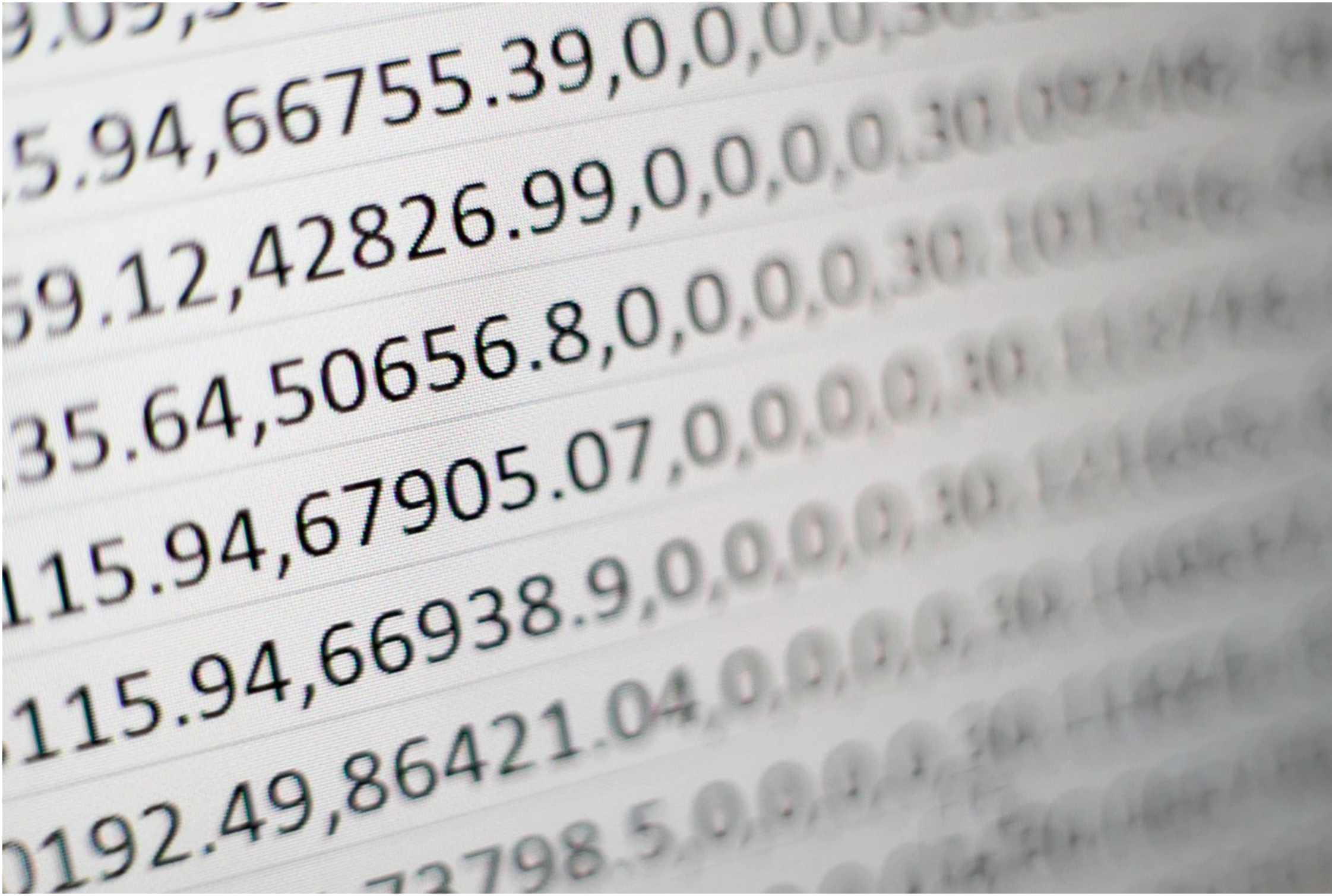

10^{27}
Brontobyte
This will be our digital universe tomorrow...
10^{24}
Yottabyte
This is our digital universe today
10^{21}
Zetabyte
1.3 ZB network traffic by 2016
10^{18}
Exabyte
1EB of data is created on the Internet each day - 250 million DVDs
10^{15}
Petabyte
The CERN Large Hadron Collider generates 1PB per second
10^{12}
Terabyte
500TB of new data per day are ingested in Facebook databases
10^{9}
Gigabyte
10^{6}
Megabyte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2009 Sales (thousands of U.S. $)

Region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Domestic	1,983	2,343	2,593	2,283	2,574	2,838	2,382	2,634	2,938	2,739	2,983	3,493	31,783
International	574	636	673	593	644	679	593	139	599	583	602	690	7,005
Total	2,557	2,979	3,266	2,876	3,218	3,517	2,975	2,773	3,537	3,322	3,585	4,183	38,788

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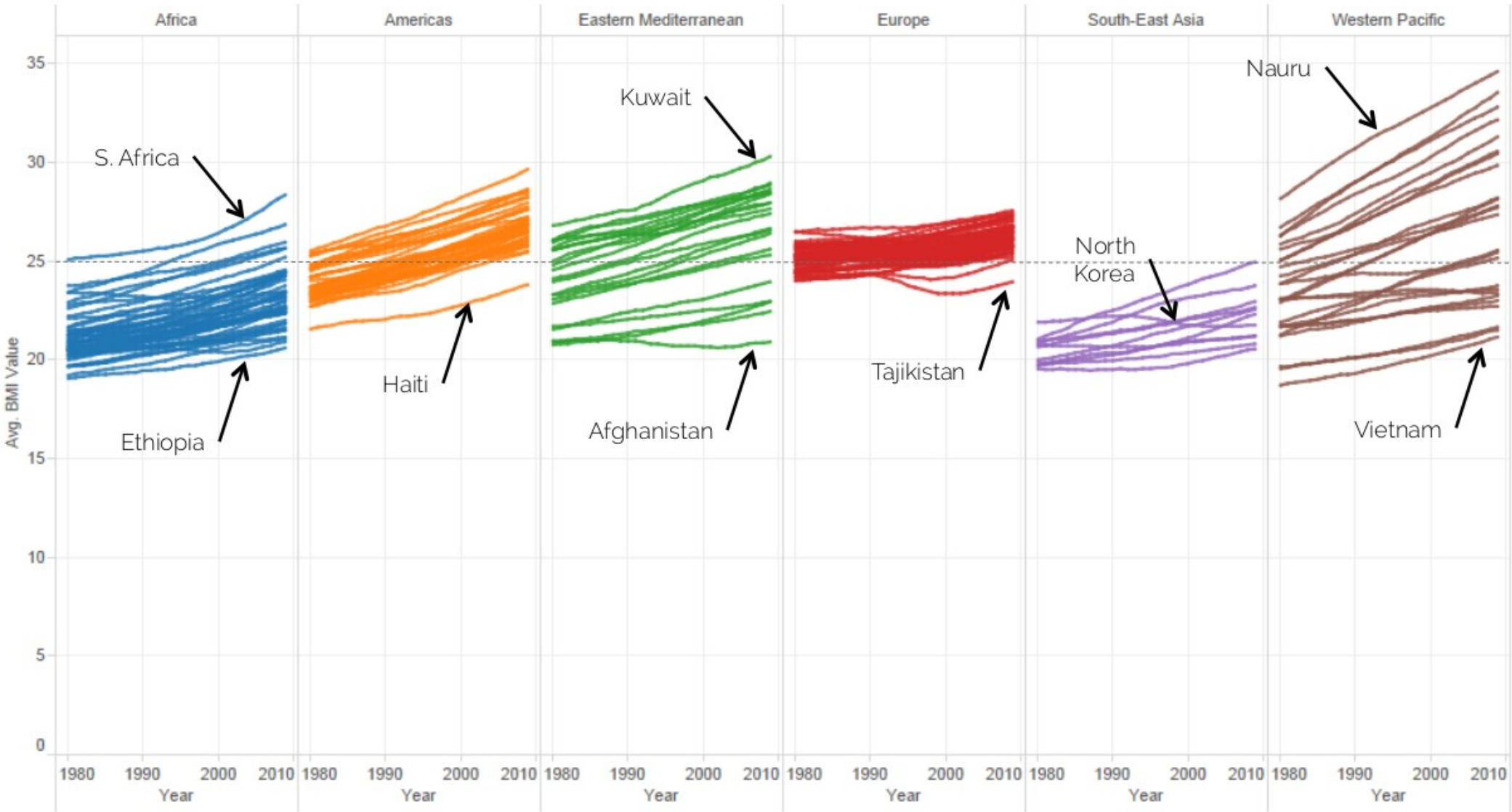
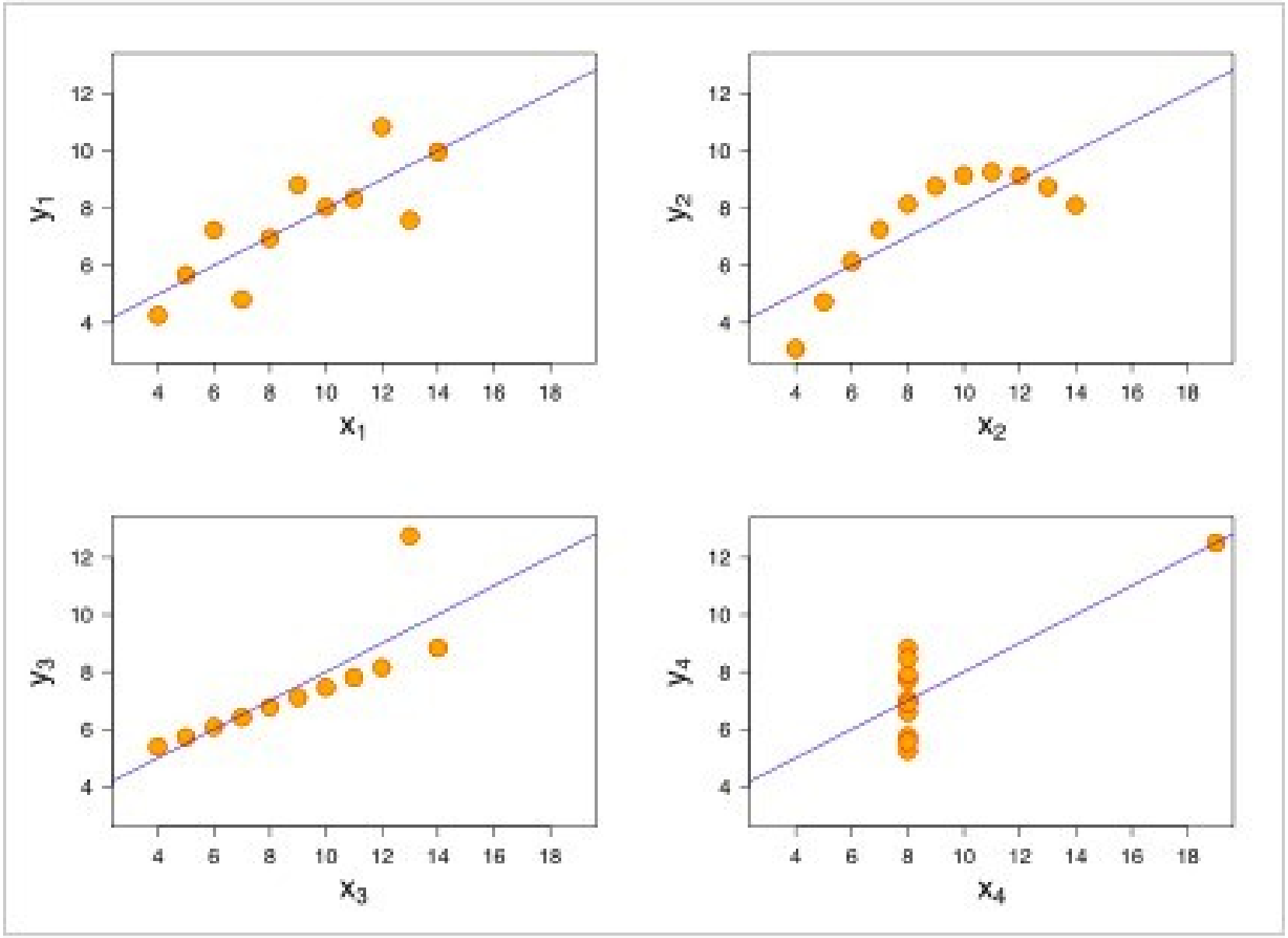
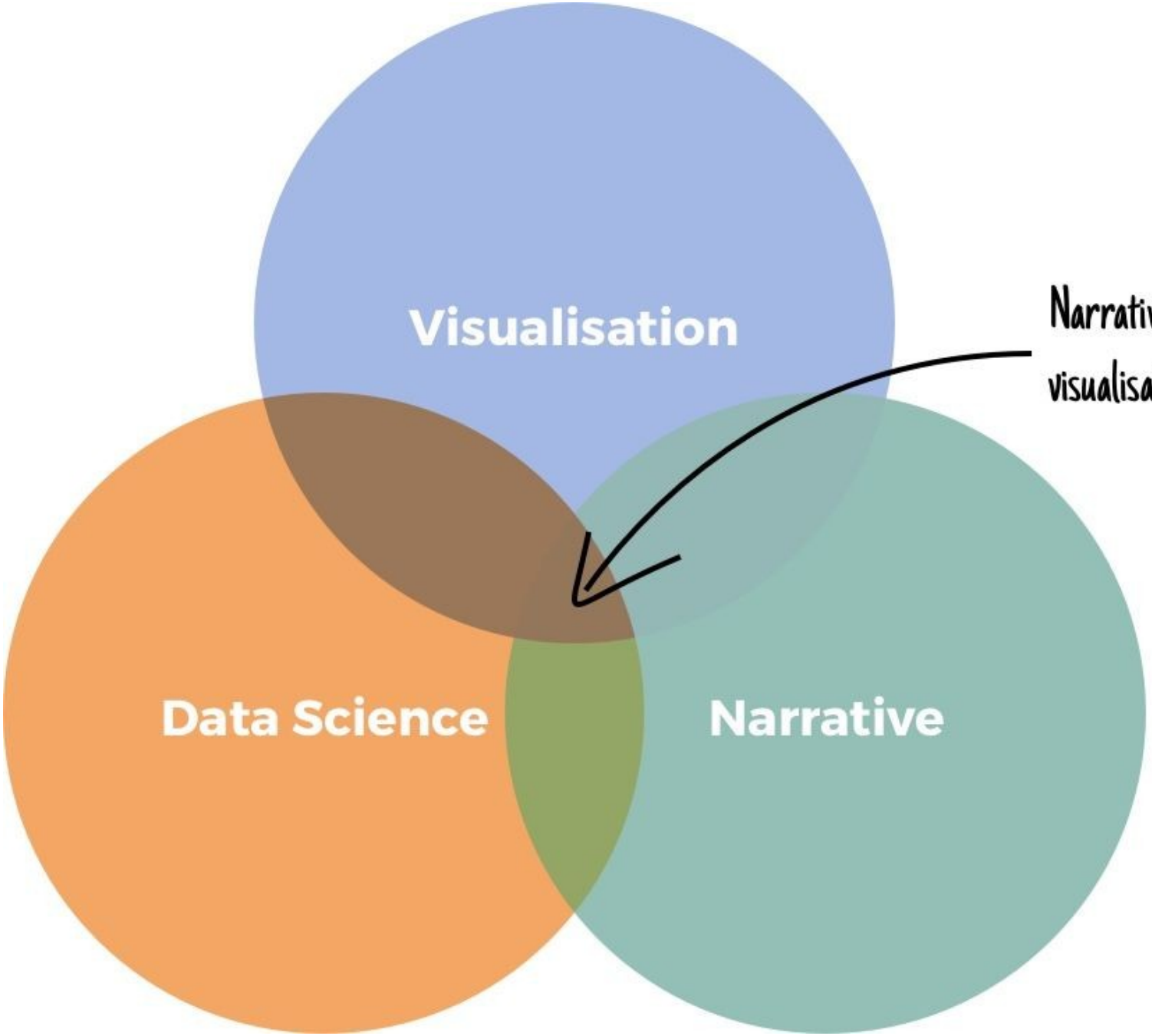

Africa
Americas
Eastern Mediterranean
Europe
South-East Asia
Western Pacific
Avg. BMI Value
35
30
25
20
15
10
5
0
1980
1990
2000
2010
Year
S. Africa
Ethiopia
Haiti
Kuwait
Afghanistan
Tajikistan
North Korea
Nauru
Vietnam


y1
x1
y2
x2
y3
x3
y4
x4
4
6
8
10
12
14
16
18

Anscombe's quartet

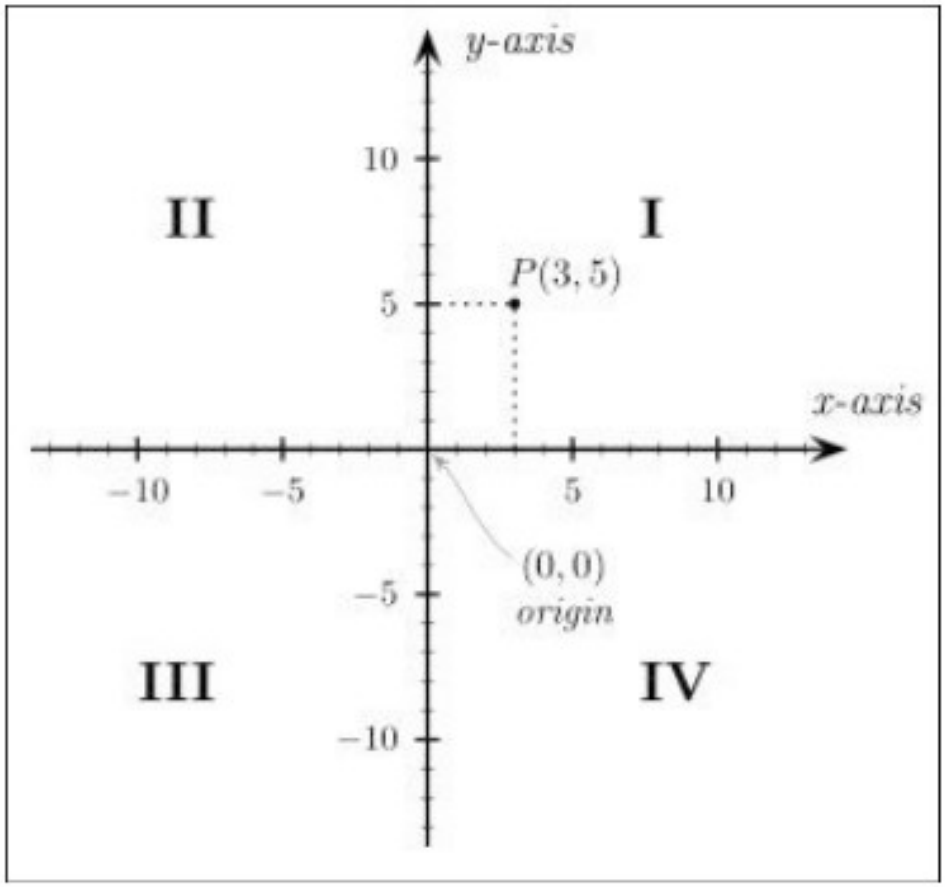
I		II		III		IV	
x	y	x	y	x	y	x	y
10.0	8.04	10.0	9.14	10.0	7.46	8.0	6.58
8.0	6.95	8.0	8.14	8.0	6.77	8.0	5.76
13.0	7.58	13.0	8.74	13.0	12.74	8.0	7.71
9.0	8.81	9.0	8.77	9.0	7.11	8.0	8.84
11.0	8.33	11.0	9.26	11.0	7.81	8.0	8.47
14.0	9.96	14.0	8.10	14.0	8.84	8.0	7.04
6.0	7.24	6.0	6.13	6.0	6.08	8.0	5.25
4.0	4.26	4.0	3.10	4.0	5.39	19.0	12.50
12.0	10.84	12.0	9.13	12.0	8.15	8.0	5.56
7.0	4.82	7.0	7.26	7.0	6.42	8.0	7.91
5.0	5.68	5.0	4.74	5.0	5.73	8.0	6.89

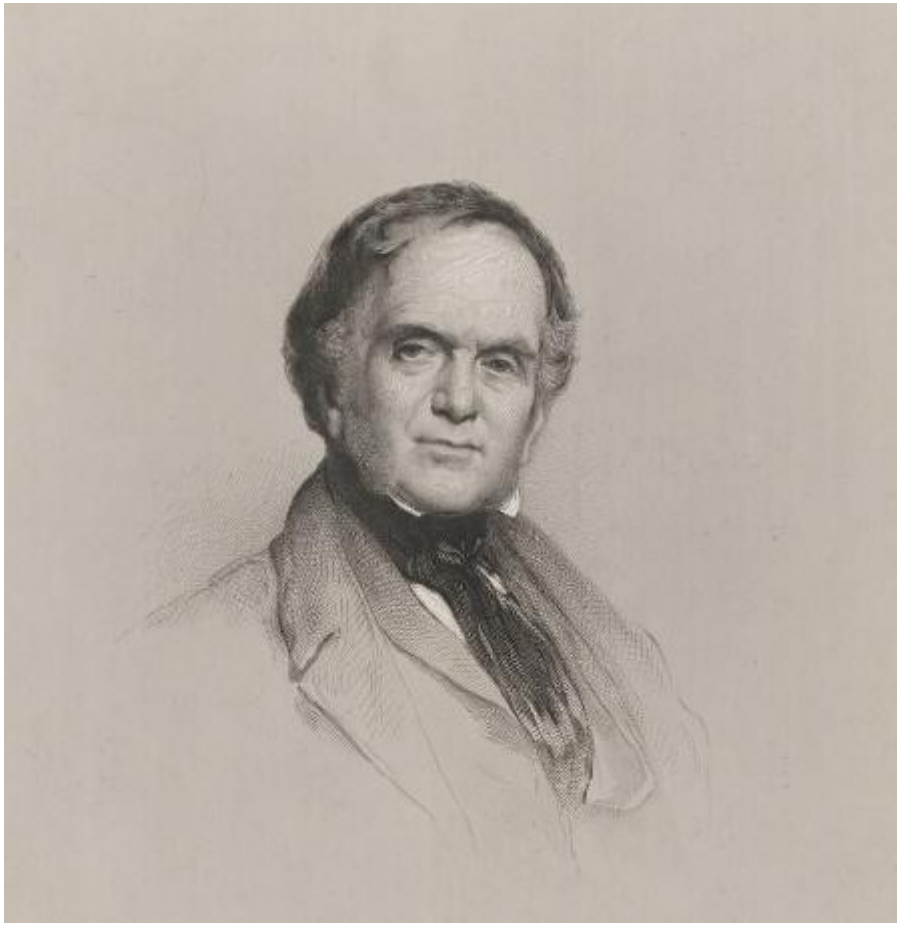
Property	Value
Mean of x in each case	9 (exact)
Variance of x in each case	11 (exact)
Mean of y in each case	7.50 (to 2 decimal places)
Variance of y in each case	4.122 or 4.127 (to 3 decimal places)
Correlation between x and y in each case	0.816 (to 3 decimal places)
Linear regression line in each case	$y = 3.00 + 0.500x$ (to 2 and 3 decimal places, respectively)



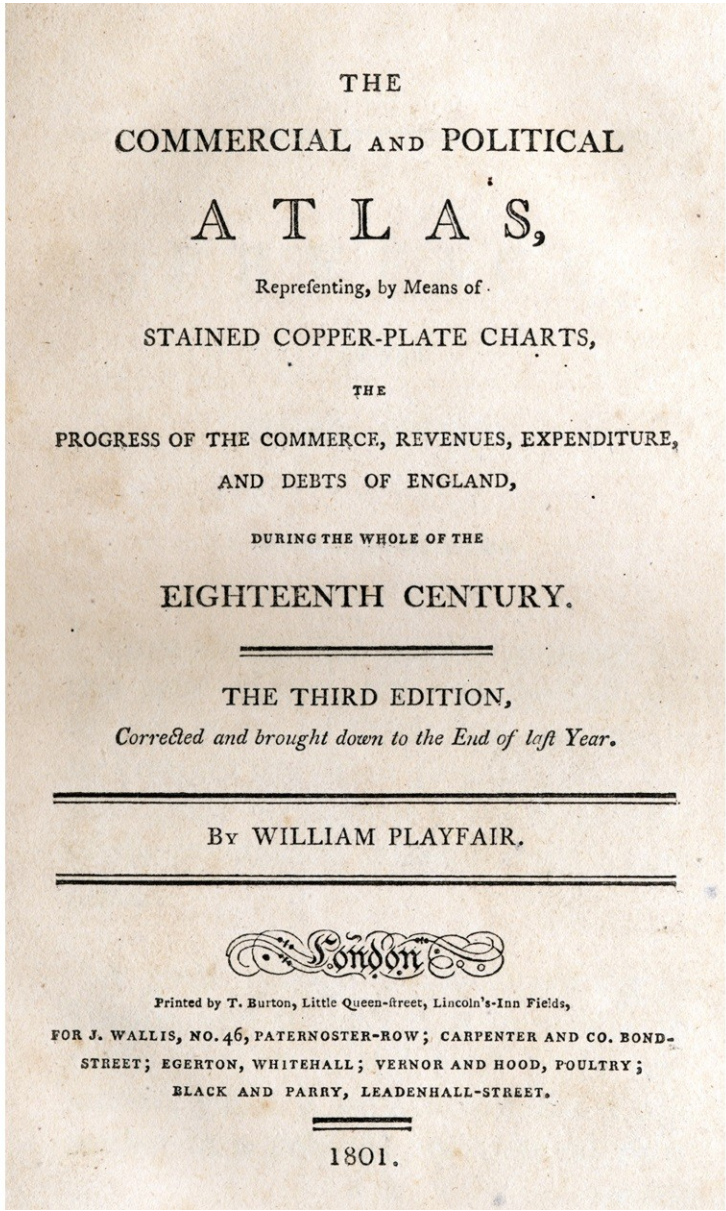
Narrative is the key vehicle to convey insights, with visualisations and data being important proof points

Un poco de historia


y-axis
x-axis
10
5
−5
−10
−10
−5
5
10
II
I
III
IV
P(3, 5)
(0, 0)
origin



William Playfair
Escocia, 1759



THE

COMMERCIAL AND POLITICAL

ATLAS,

Representing, by Means of

STAINED COPPER-PLATE CHARTS,

THE

PROGRESS OF THE COMMERCE, REVENUES, EXPENDITURE,

AND DEBTS OF ENGLAND,

DURING THE WHOLE OF THE

EIGHTEENTH CENTURY.

THE THIRD EDITION,

Corrected and brought down to the End of last Year.

By WILLIAM PLAYFAIR.

London

Printed by T. Burton, Little Queen-ſtreet, Lincoln's-Inn Fields,

FOR J. WALLIS, NO. 46, PATERNOSTER-ROW; CARPENTER AND CO. BOND-STREET; EGERTON, WHITEHALL; VERNOR AND HOOD, POULTRY; BLACK AND PARRY, LEADENHALL-STREET.

1801.

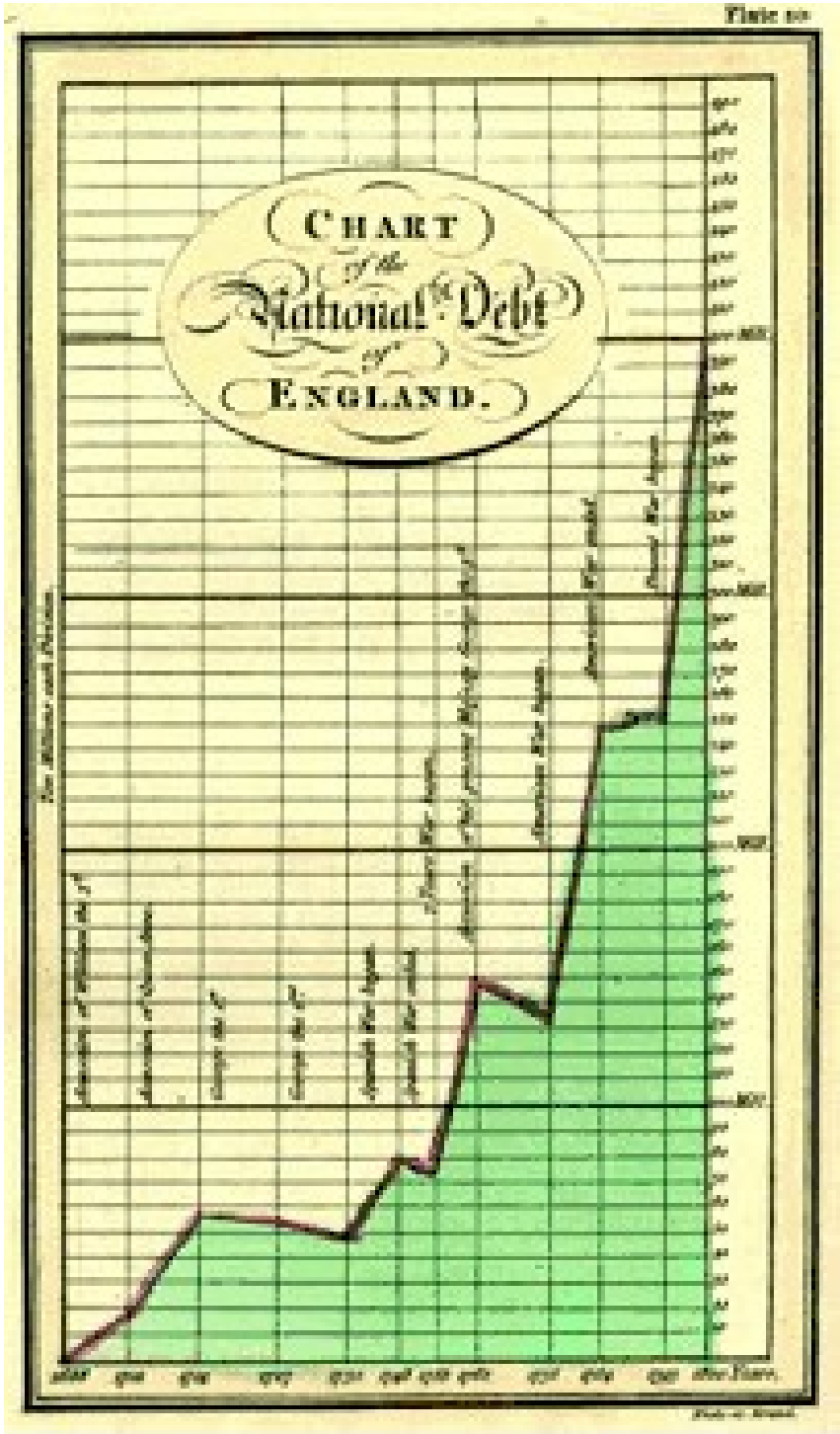
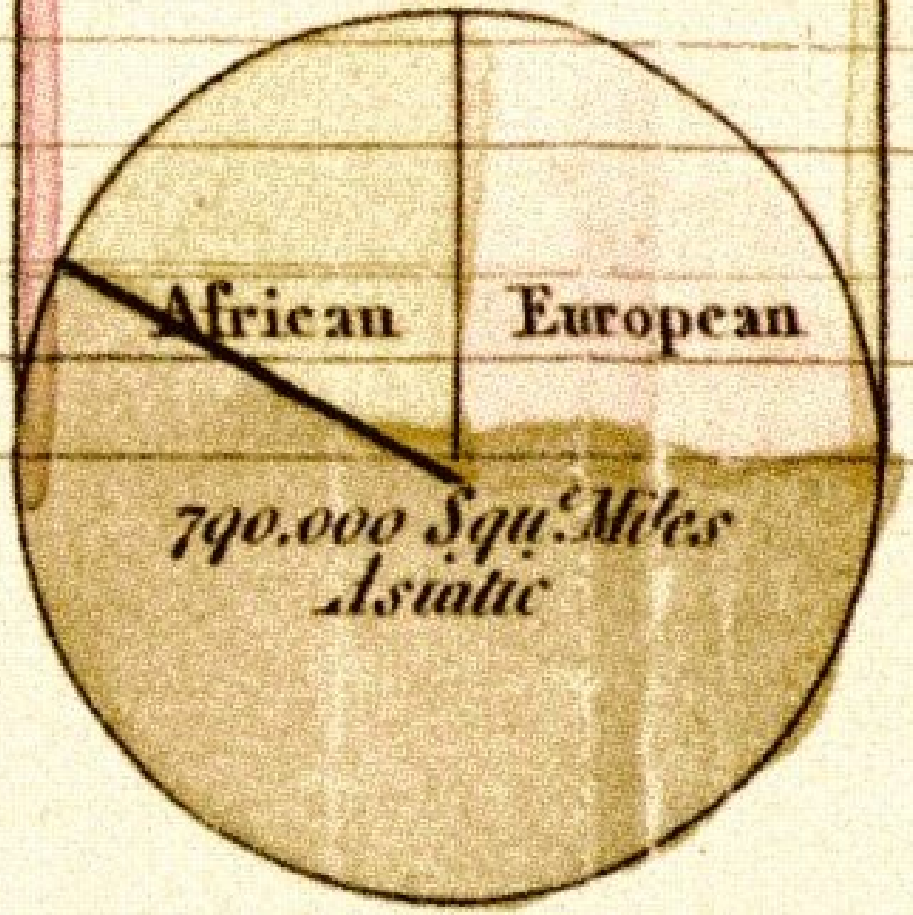
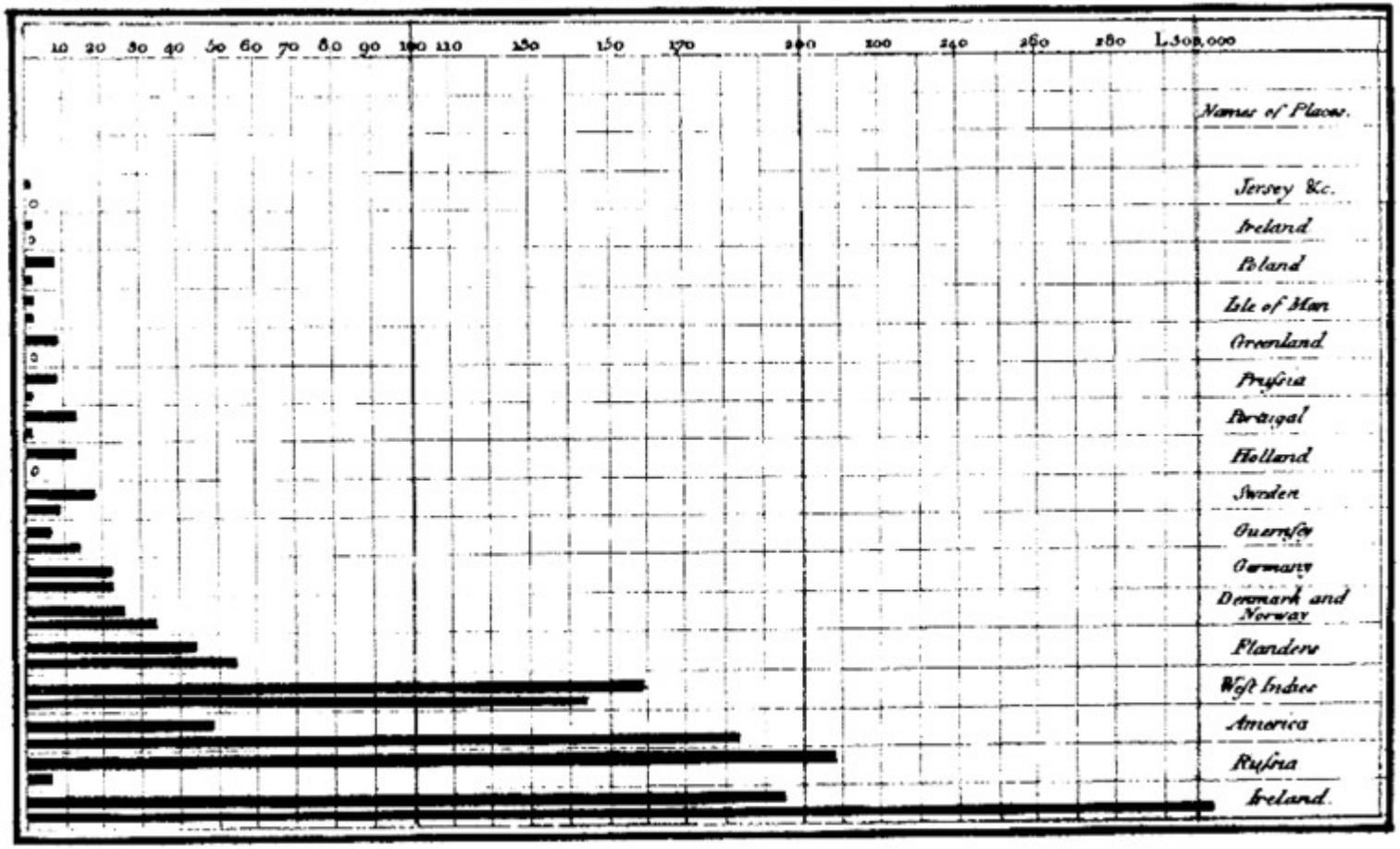


Plate 10
CHART
of the
National Debt
of
ENGLAND.
Sum Millions and Pounds.
Accession of William the 3rd
Accession of Queen Anne
George the 1st
George the 2nd
Seven Years War begun
Seven Years War ended
American War begun
American War ended
Accession of the present Royal Family
American War begun
American War ended
French War begun
1688
1700
1710
1720
1730
1740
1750
1760
1770
1780
1790
After Peace.



Turkish Empire

Exports and Imports of **SCOTLAND** to and from different parts for one Year from Christmas 1780 to Christmas 1781.

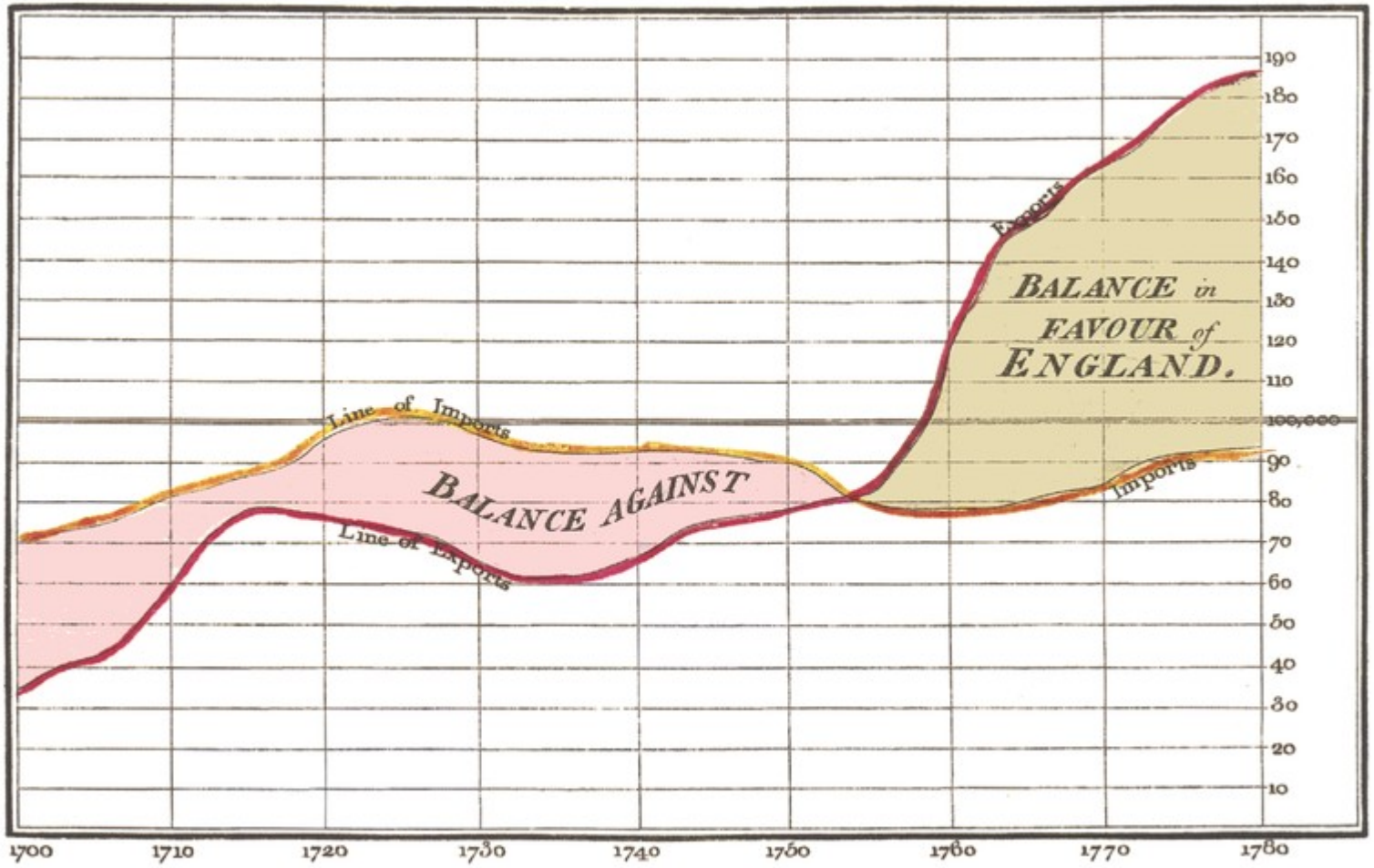


The Upright divisions are Ten Thousand Pounds each. The Black Lines are Exports the Ribbed lines Imports.

Published as the Act directs June 7th 1786 by Wm Playfair

Neale sculp. 352 Strand. London.

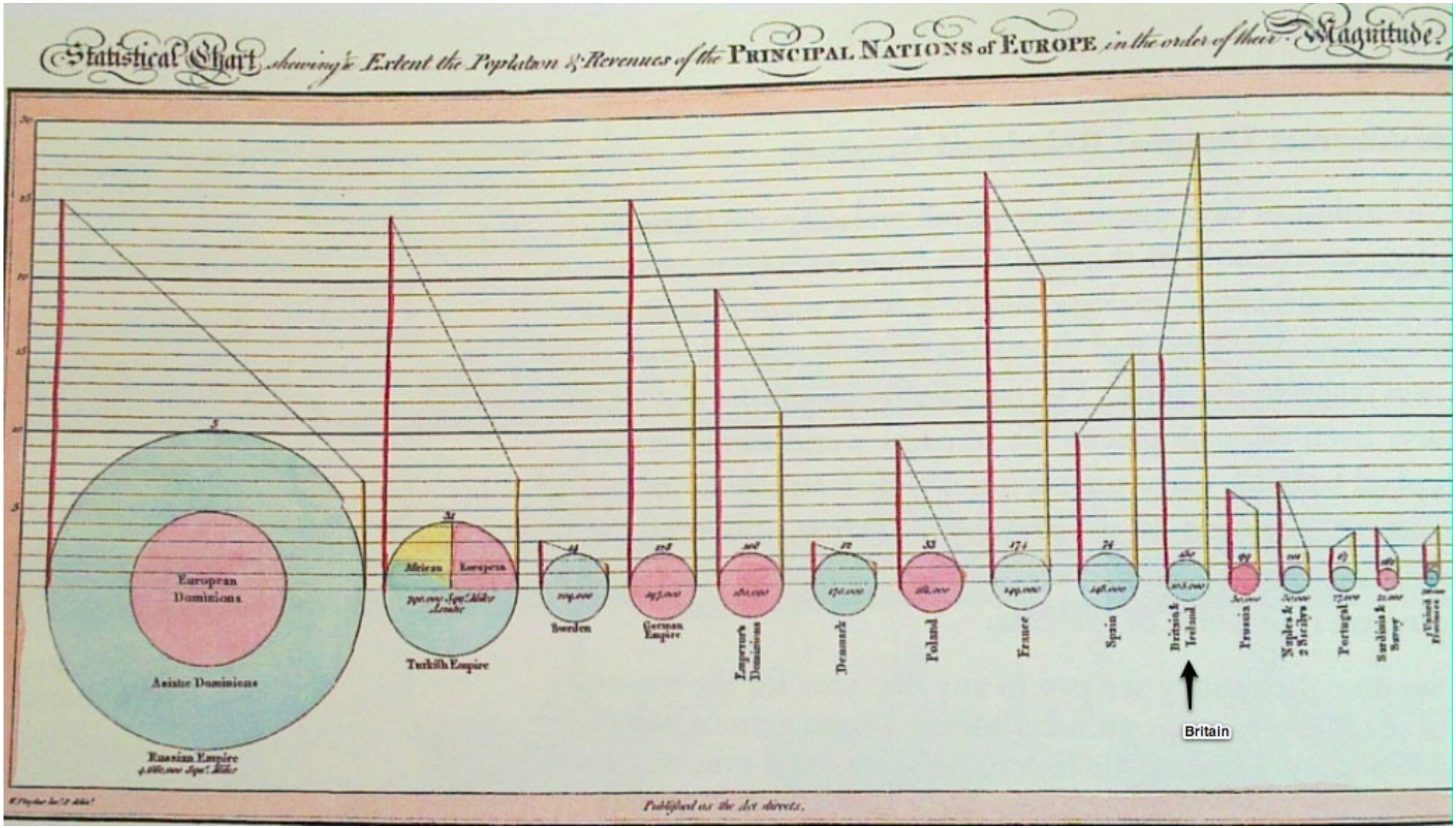
Exports and Imports to and from DENMARK & NORWAY from 1700 to 1780.



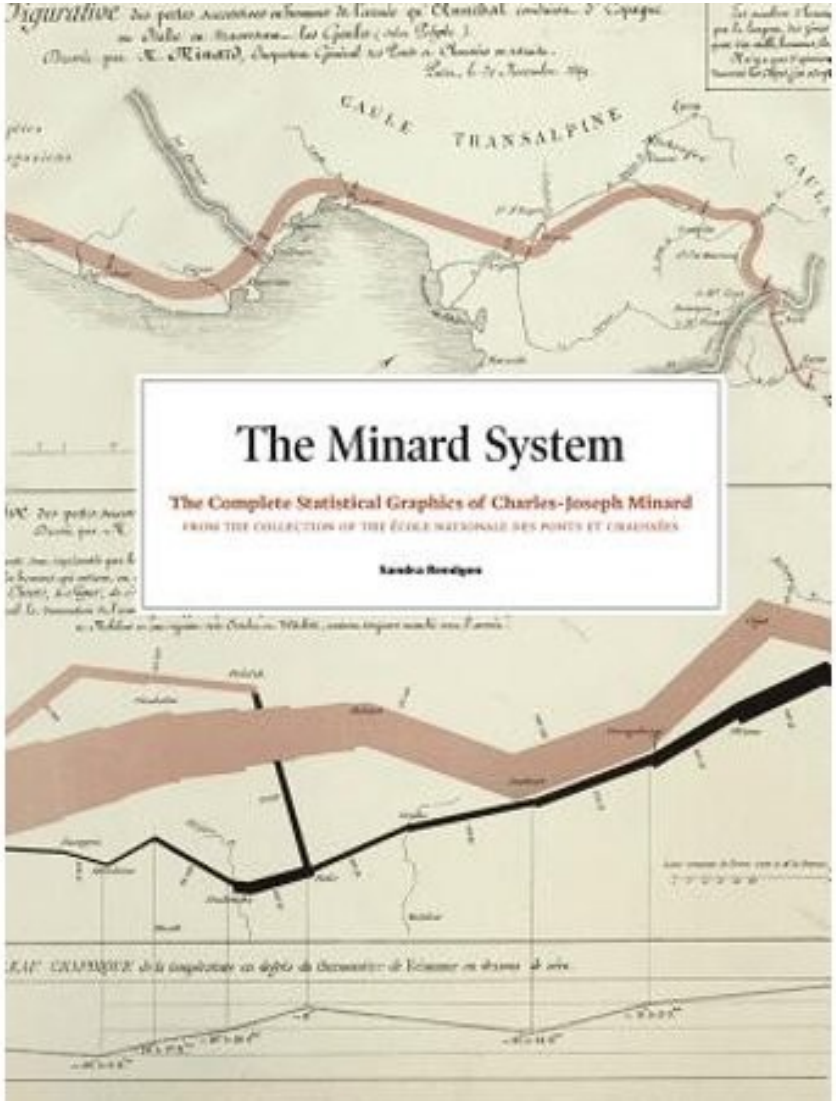
The Bottom line is divided into Years, the Right hand line into £10,000 each.

Published as the Act directs, 1st May 1786. by Wm. Playfair

Neale sculpt 352, Strand, London.


Statistical Chart shewing the Extent the Population & Revenues of the PRINCIPAL NATIONS of EUROPE in the order of their Magnitude.
European Dominions
Asiatic Dominions
Russian Empire
Turkish Empire
Sweden
German Empire
Denmark
Poland
France
Spain
Britain & Ireland
Prussia
Portugal
Britain
Published as the Act directs.

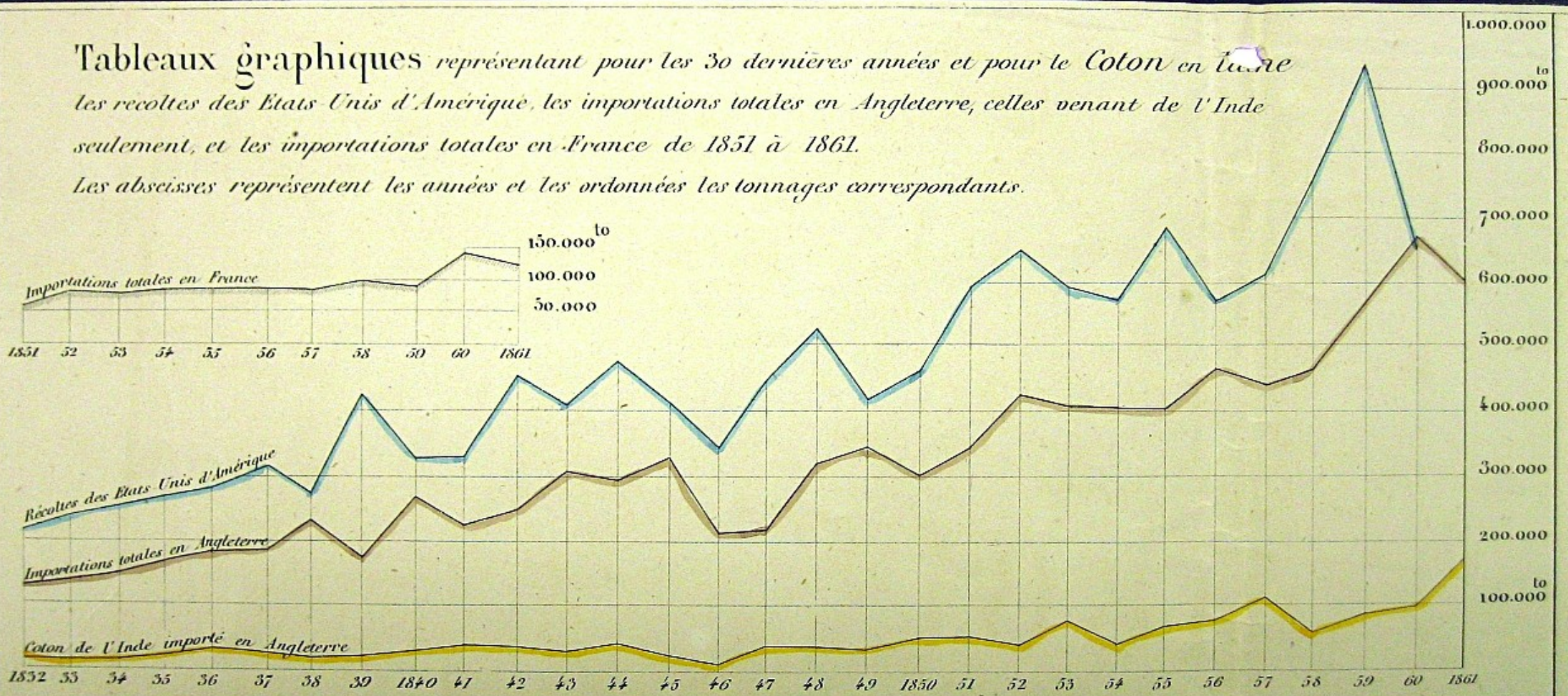
Charles Joseph Minard
Francia, 1781



Tableaux graphiques *représentant pour les 30 dernières années et pour le* Coton *en laine*

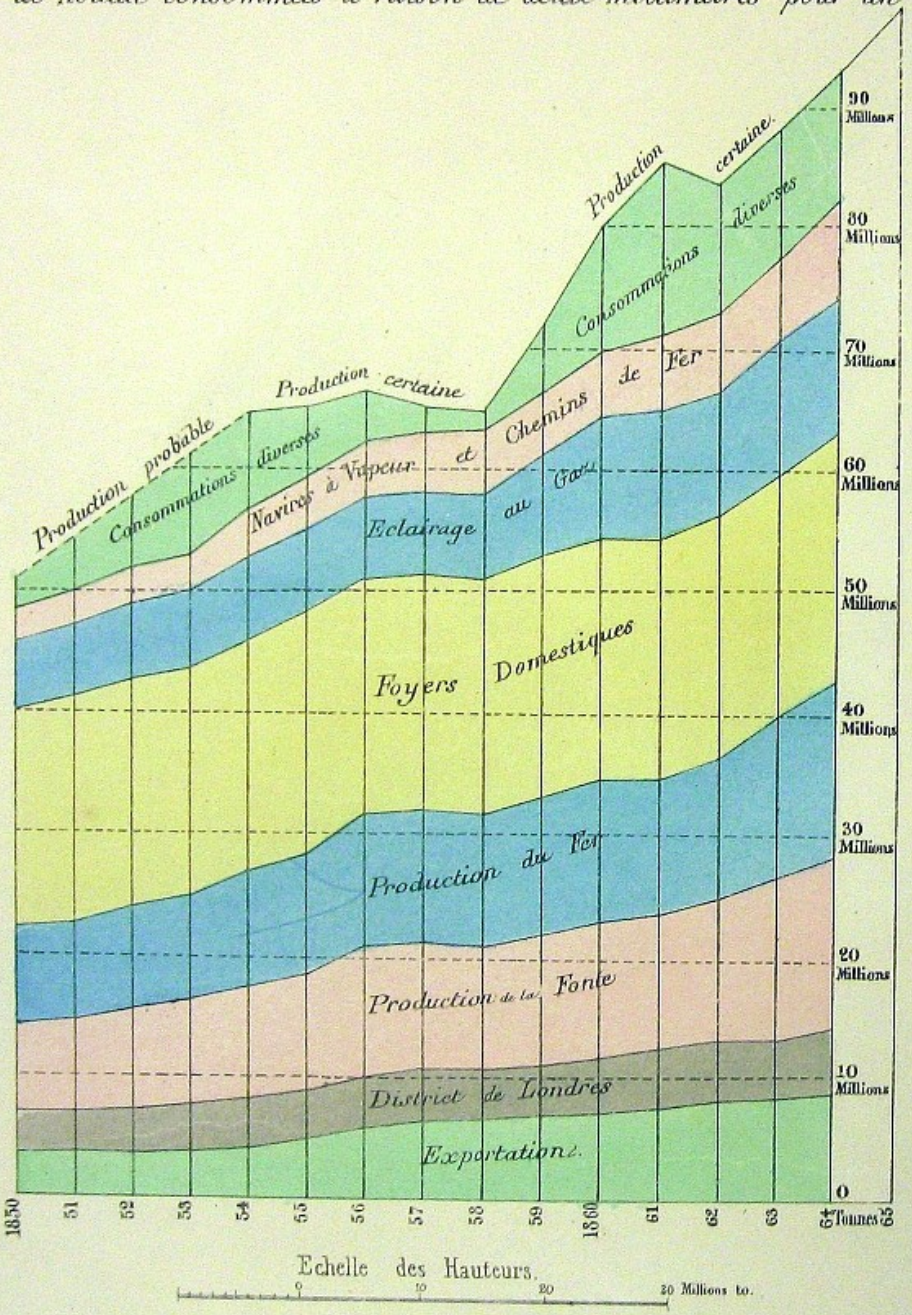
les recoltes des Etats Unis d'Amérique, les importations totales en Angleterre, celles venant de l'Inde seulement, et les importations totales en France de 1851 à 1861.

Les abscisses représentent les années et les ordonnées les tonnages correspondants.



Consommations approximatives de la Houille dans la Grande Bretagne de 1850 à 1864.

Les abscisses représentent les années et les ordonnées les quantités annuelles de houille consommée.
Les couleurs indiquent les espèces de consommations. Les longueurs d'ordonnées comprises dans une couleur sont les quantités de houille consommées à raison de deux millimètres pour un million de tonnes.



Données *admises pour former le* Tableau *ci-contre.*

Consommations. —— Sources des Renseignements.

Exportations. — *Mineral statistics 1865 page 214 et Renseignements Parlementaires.*

District de Londres. —— *id.* —— *page 213*

Produits de la Fonte. —— *id* —— *page 215 et pour les années avant 1855 calculée à raison de 3to de houille pour 1to de fonte, en admettant les quantités annuelles de fonte du* Coal question *page 192.*

Production du fer — *Mineral statistics — page 215 et pour les années avant 1855 — calculée à raison de 3to 35 de houille pour 1 tonne de fonte convertie en fer; et admettant 9/10es de la fonte produite convertis en fer.*

Foyers domestiques. — *En y comprenant les petites manufactures.*
On l'estimait en 1848 à 19 millions de tonnes, (A) qu'on peut réduire à 18 millions to. pour les foyers seuls, mais qu'on peut porter à 20 millions pour la population de 1864.

Eclairage au Gaz. — *Consommation estimée généralement du 1/3e au 1/8e de la production totale.*

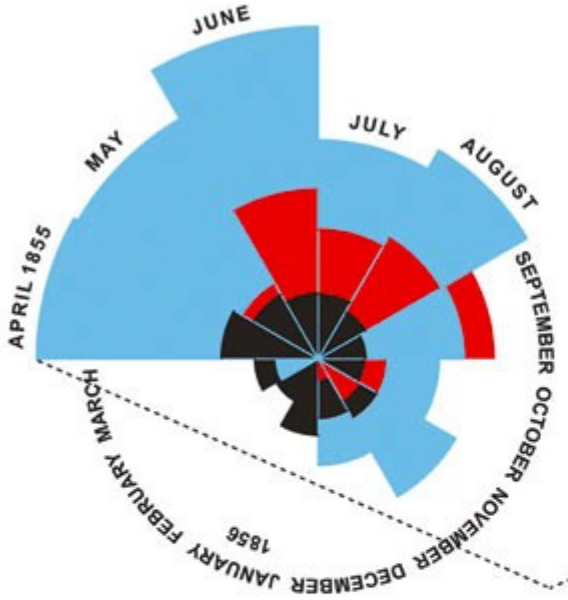
Exploitation des Chemins de Fer. — *En supposant pour consommation totale 10k par Kilomètre parcouru par les trains d'après les renseignements parlementaires.*

Navigation à vapeur. — *Calculée à raison de 5k houille par cheval vapeur et par heure, le nombre de chevaux étant celui du Steam Vessels pour 1864, et les steamers étant supposés marcher la moitié de l'année;*
Avant 1864 j'ai supposé les consommations proportionnelles aux tonnages annuels des steamers du statistical abstract et du Board of trade.

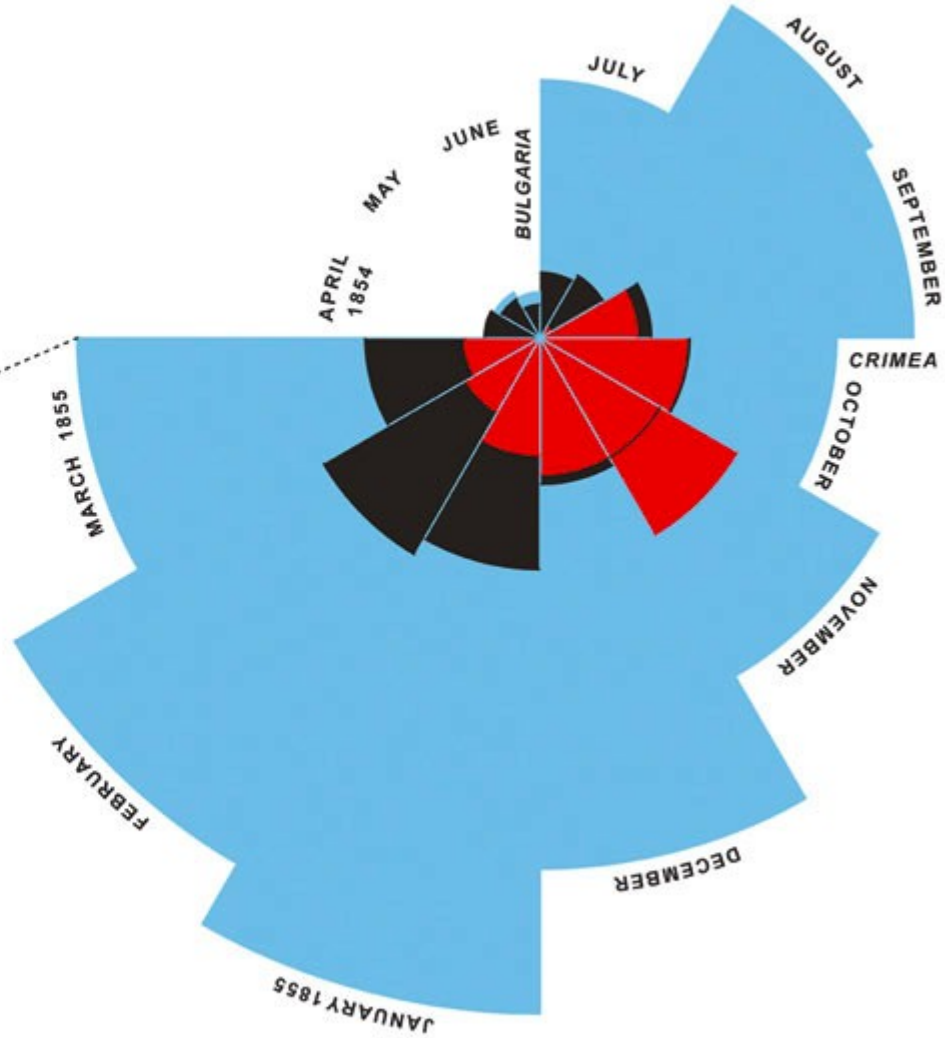
(A) *Voir l'excellent article houille de Mr Lamé Fleury, Dictionnaire du Commerce Page 111.*

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

2.
APRIL 1855 TO MARCH 1856.



1.
APRIL 1854 TO MARCH 1855.



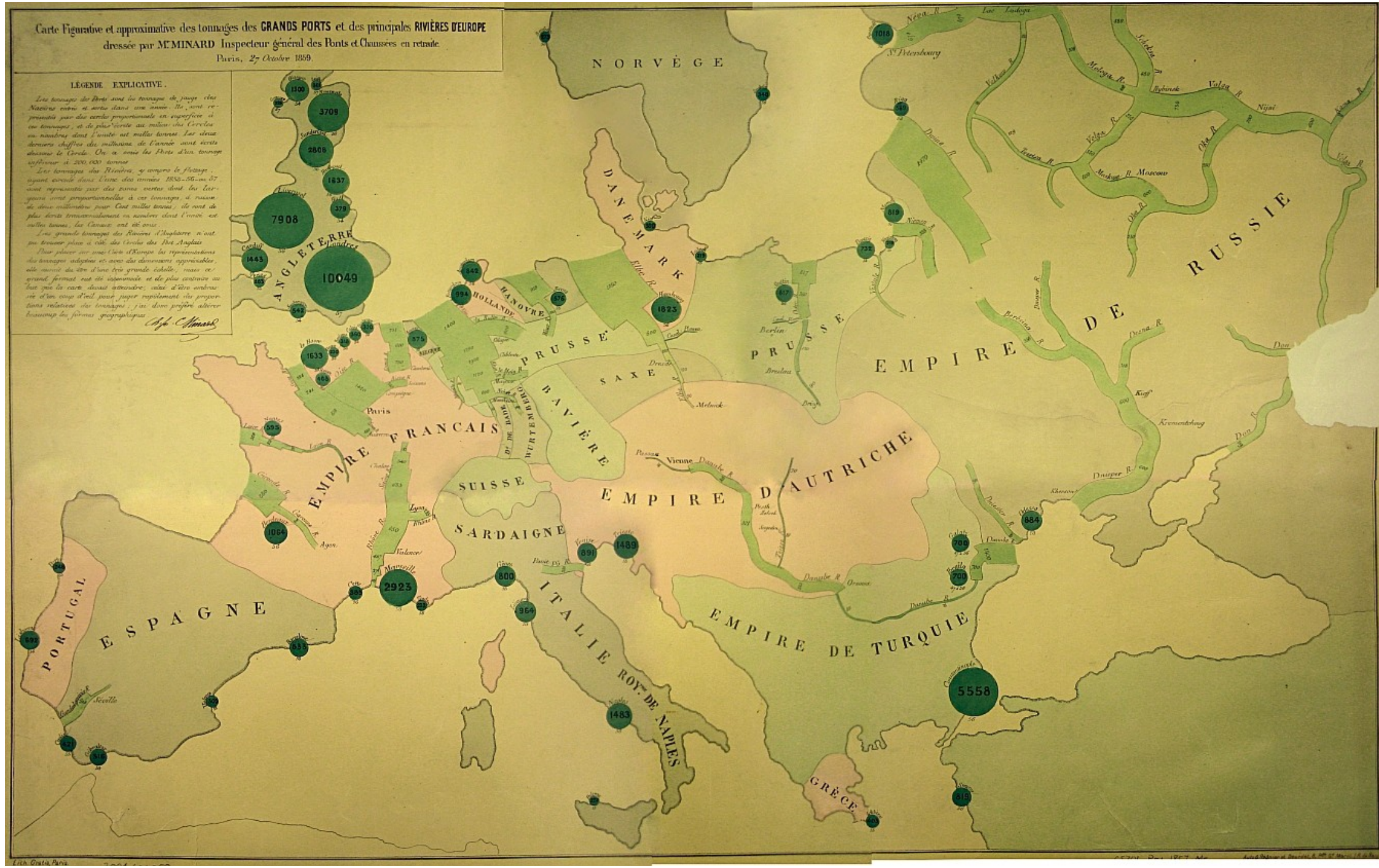
The Areas of the blue, red, & black wedges are each measured from the centre as the common vertex

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 Novr 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*


Carte Figurative et approximative des tonnages des GRANDS PORTS et des principales RIVIÈRES D'EUROPE
dressée par Mr. MINARD Inspecteur général des Ponts et Chaussées en retraite.
Paris, 27 Octobre 1859.
LÉGENDE EXPLICATIVE.
Les tonnages des Ports sont les tonnages de jauge des Navires entrés et sortis dans une année. Ils sont représentés par des cercles proportionnels en superficie à ces tonnages, et de plus écrits au milieu des Cercles en nombres dont l'unité est mille tonnes. Les deux derniers chiffres des millièmes de l'année sont écrits dessous le Cercle. On a omis les Ports d'un tonnage inférieur à 200.000 tonnes.
Les tonnages des Rivières, y compris le flottage, ayant circulé dans l'une des années 1855-56-ou 57 sont représentés par des zones vertes dont les largeurs sont proportionnelles à ces tonnages, à raison de deux millimètres pour Cent mille tonnes; ils sont de plus écrits numériquement en nombres dont l'unité est mille tonnes, les Canaux ont été omis.
Les grands tonnages des Rivières d'Angleterre n'ont pu trouver place à côté des Cercles des Ports Anglais.
Pour placer sur une Carte d'Europe les représentations des tonnages adoptées et avec des dimensions appréciables, elle devrait au être d'une très grande échelle, mais ce grand format est de disproportion et de plus contraire au but que la carte devrait atteindre; celui d'être embrassée d'un coup d'œil pour juger rapidement des proportions relatives des tonnages; j'ai donc préféré altérer beaucoup les formes géographiques.
NORVÈGE
ANGLETERRE
DANEMARK
HOLLANDE
HANOVRE
PRUSSE
SAXE
BAVIÈRE
WURTEMBERG
BADE
SUISSE
SARDAIGNE
EMPIRE FRANÇAIS
EMPIRE D'AUTRICHE
EMPIRE DE RUSSIE
EMPIRE DE TURQUIE
ITALIE ROYME DE NAPLES
ESPAGNE
PORTUGAL
GRÈCE
Paris
Vienne
Berlin
St Petersbourg
Moscou
Liverpool
Cardiff
Londres
Le Havre
Nantes
Bordeaux
Marseille
Gênes
Livourne
Venise
Trieste
Hambourg
Anvers
Rotterdam
Amsterdam
Odessa
Galatz
Ibraïla
Seville
Cadix
Malaga
Alicante
Valence
Barcelone
Lisbonne
Porto
Rouen
Nantes
Bordeaux
Lyon
Marseille
Toulon
Cette
Nice
Genève
Bâle
Mayence
Francfort
Cologne
Hambourg
Brême
Stettin
Breslau
Dresde
Prague
Munich
Vienne
Pesth
Trieste
Venise
Milan
Turin
Naples
Palermo
Messine
Cagliari
Corfou
Constantinople
Smyrne
Athènes
Salonique
Varsovie
Cracovie
Kiew
Kazan
Moscou
Saint-Petersbourg
Riga
Reval
Helsingfors
Stockholm
Christiania
Copenhague
Lisbonne
Cadix
Malaga
Alicante
Valence
Barcelone
Marseille
Gênes
Livourne
Venise
Trieste
Odessa
Galatz
Ibraïla
Constantinople
Smyrne
Athènes
Salonique
Corfou
Palermo
Messine
Naples
Cagliari
Nice
Cette
Toulon
Bordeaux
Nantes
Le Havre
Rouen
Anvers
Rotterdam
Amsterdam
Hambourg
Brême
Stettin
Breslau
Dresde
Prague
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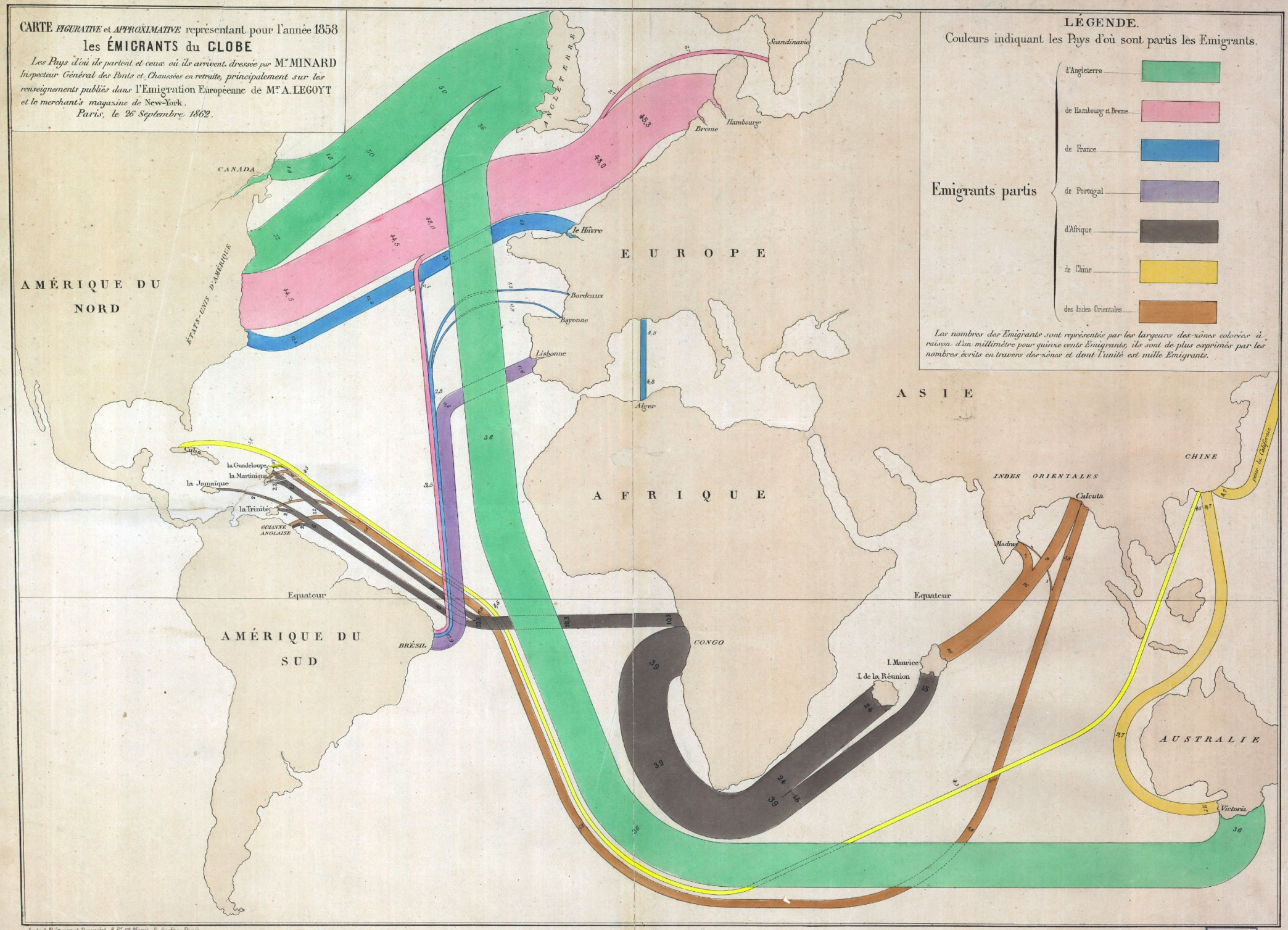
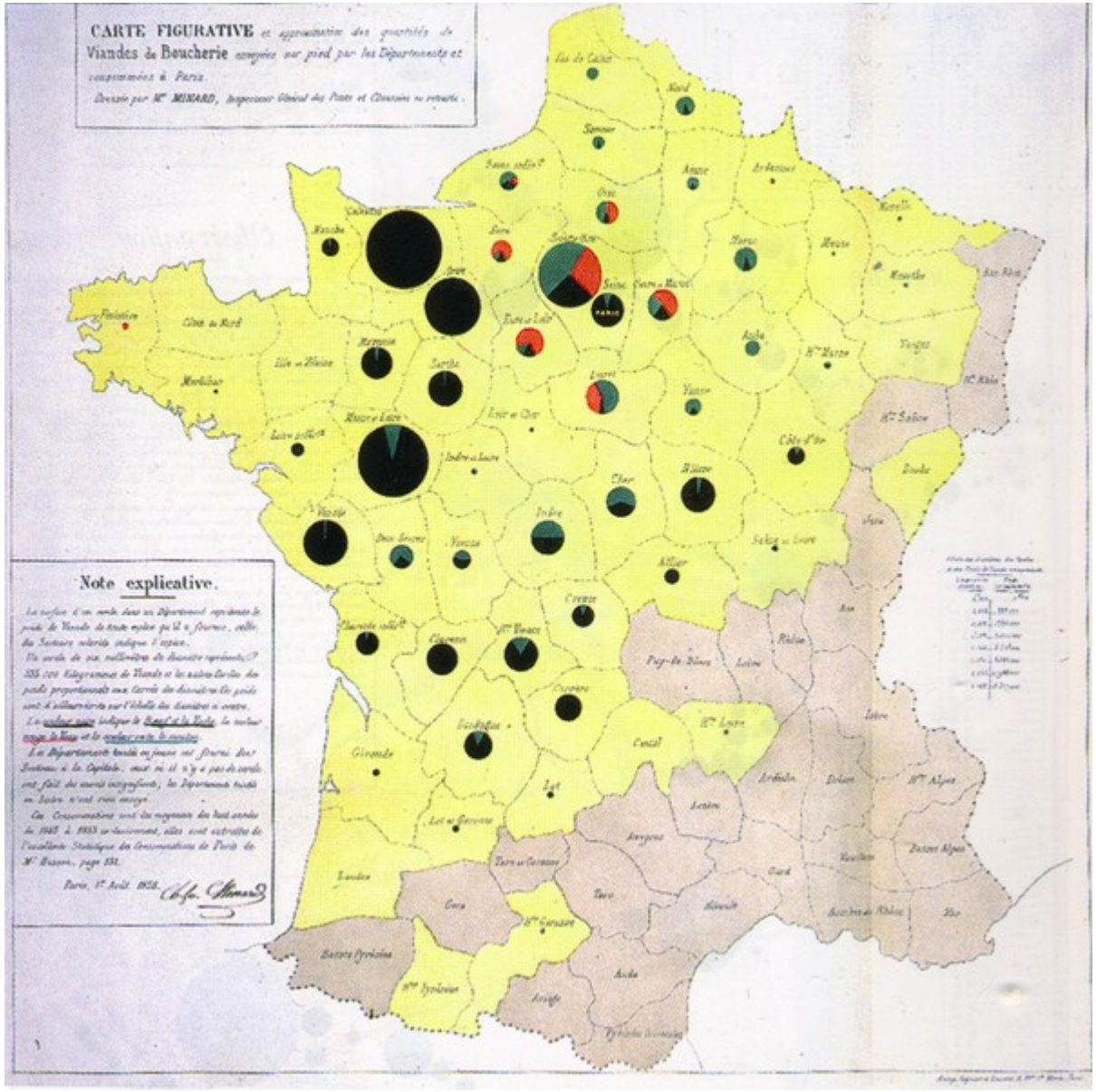
Trieste
Venise
Milan
Turin
Genève
Bâle
Mayence
Francfort
Cologne



Autog. Régnier et Dourdet, 8, Rue Ste Marie, R. du Bac, Paris.

Division of Maps
Library of Congress


CARTE FIGURATIVE et approximation des quantités de Viandes de Boucherie consommées sur pied par les Départements et consommées à Paris.
Dressée par Mr MINARD, Inspecteur Général des Ponts et Chaussées en retraite.
Note explicative.
Le surface d'un cercle dans un Département représente le poids de Viande de toute espèce qui lui a fourni, celle du Sectateur colorié indique l'espèce.
Un cercle de six millimètres de diamètre représente 225 000 Kilogrammes de Viande et les autres cercles des poids proportionnels aux carrés des diamètres. Ces poids sont d'ailleurs écrits sur l'Échelle des diamètres ci contre.
Le couleur noire indique le Bœuf et la Vache, la couleur rouge le Veau et le couleur verte le mouton.
Les Départements bordés en jaune ont fourni des Bœufs à la Capitale, mais ici il n'y a pas de cercle, cet fait des moutons intégrifiants; les Départements bordés en Indigo n'ont rien envoyé.
Ces Consommations sont les moyennes des huit années de 1845 à 1853 inclusivement, elles sont extraites de l'excellente Statistique des Consommations de Paris de Mr Husson, page 132.
Paris, 1er Août 1858.
Les de Calais
Nord
Somme
Seine Inf.re
Aisne
Ardennes
Oise
Meuse
Moselle
Bas Rhin
Calvados
Manche
Eure
Seine et Marne
Seine
PARIS
Marne
Haute Marne
Vosges
Haut Rhin
Finistère
Côtes du Nord
Ille et Vilaine
Morbihan
Mayenne
Sarthe
Eure et Loir
Loiret
Aube
Haute Saône
Doubs
Loire Inférieure
Maine et Loire
Loir et Cher
Yonne
Côte d'Or
Indre et Loire
Cher
Nièvre
Vienne
Indre
Deux Sèvres
Vienne
Saône et Loire
Jura
Allier
Creuse
Charente Inférieure
Charente
Haute Vienne
Puy de Dôme
Loire
Rhône
Ain
Corrèze
Cantal
Haute Loire
Dordogne
Gironde
Lot
Ardèche
Drôme
Isère
Lot et Garonne
Lozère
Aveyron
Vaucluse
Basses Alpes
Landes
Tarn et Garonne
Gard
Var
Gers
Tarn
Hérault
Bouches du Rhône
Haute Garonne
Basses Pyrénées
Aude
Hautes Pyrénées
Ariège
Pyrénées Orientales

Carte Figurative des pertes successives en hommes de l'Armée Française dans la campagne de Russie 1812–1813.

Dressée 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 largeurs des zônes colorées à raison d'un millimètre pour dix mille hommes; ils sont de plus écrits en travers des zônes. Le rouge désigne les hommes qui entrent en Russie, le noir ceux qui en sortent. —— Les renseignements qui ont servi à dresser la carte ont été puisés dans les ouvrages de M.M. Thiers, 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 supposé que les corps du Prince Jérôme et du Maréchal Davoust qui avaient été détachés sur Minsk et Mobilow et ont rejoint vers Orscha et Witebsk, avaient toujours marché avec l'armée.

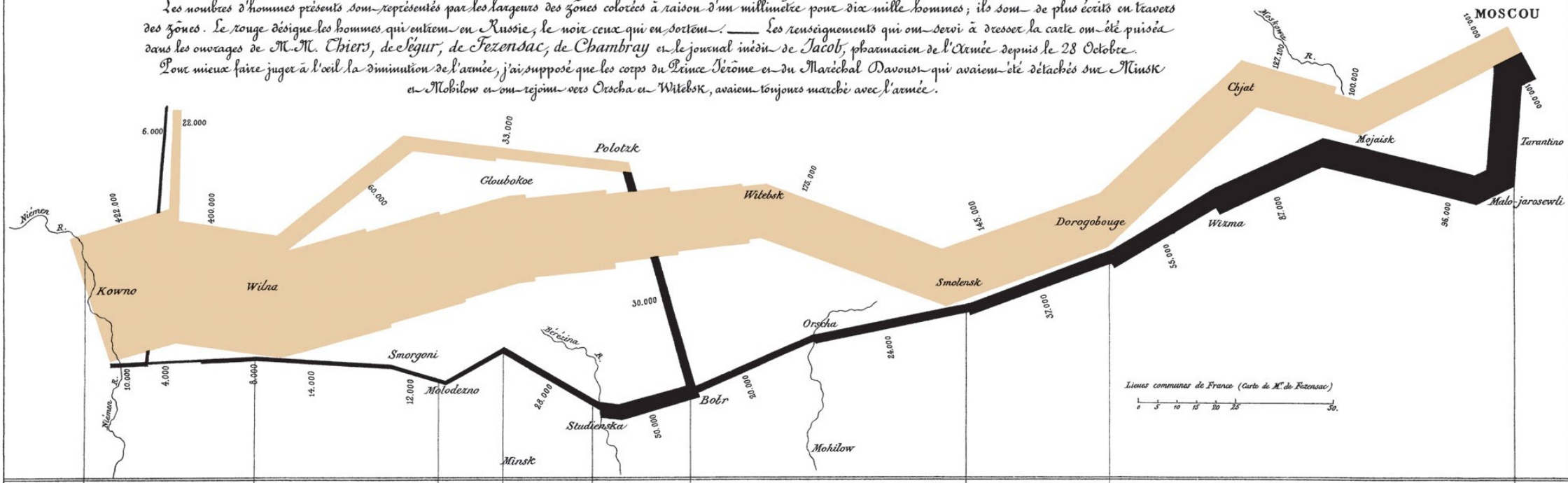
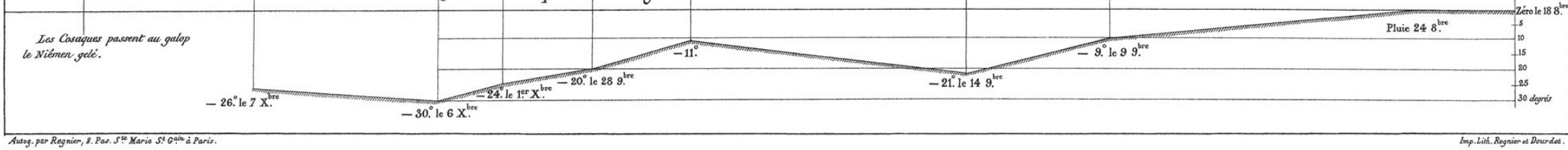
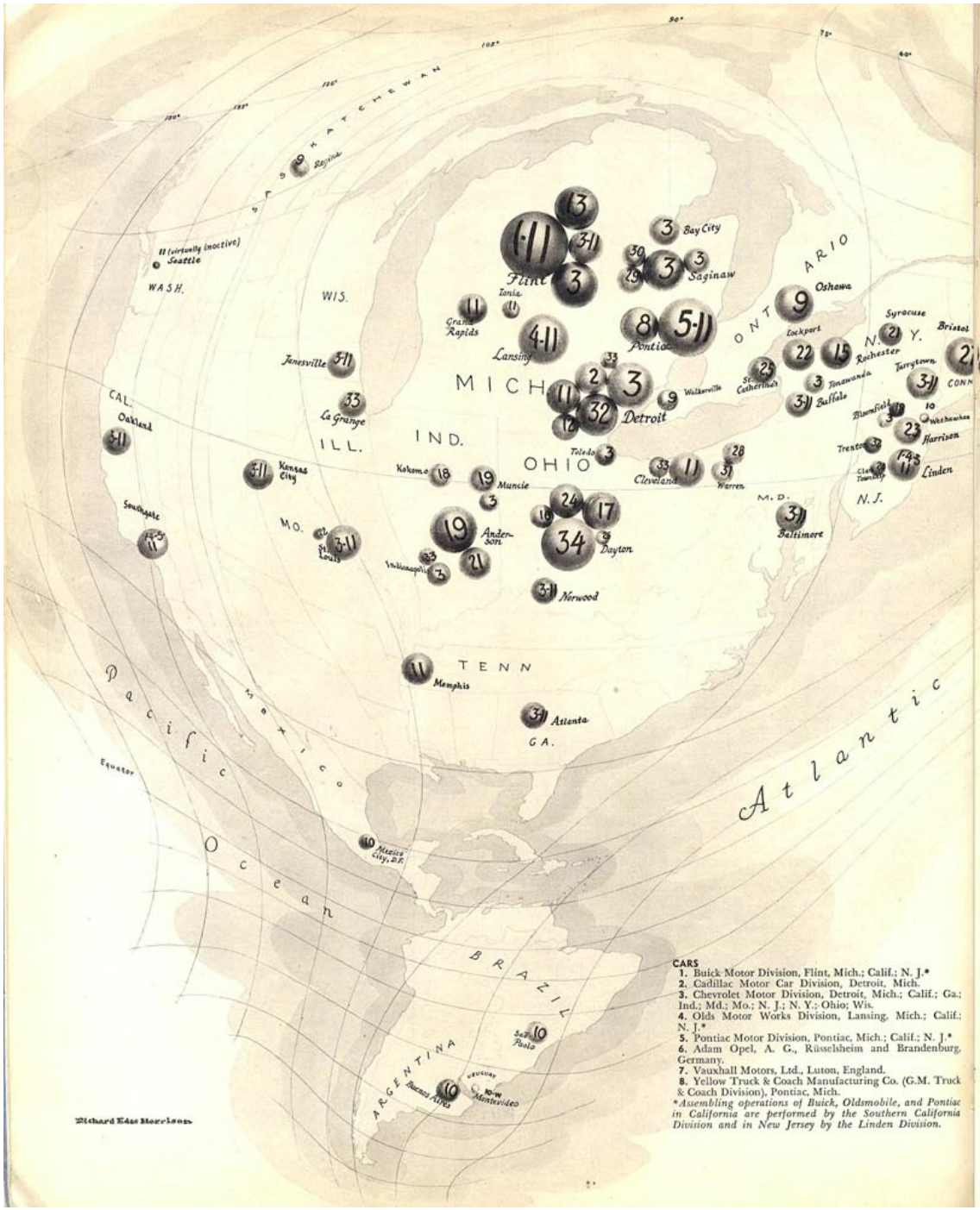


TABLEAU GRAPHIQUE de la température en degrés du thermomètre de Réaumur au dessous de zéro.

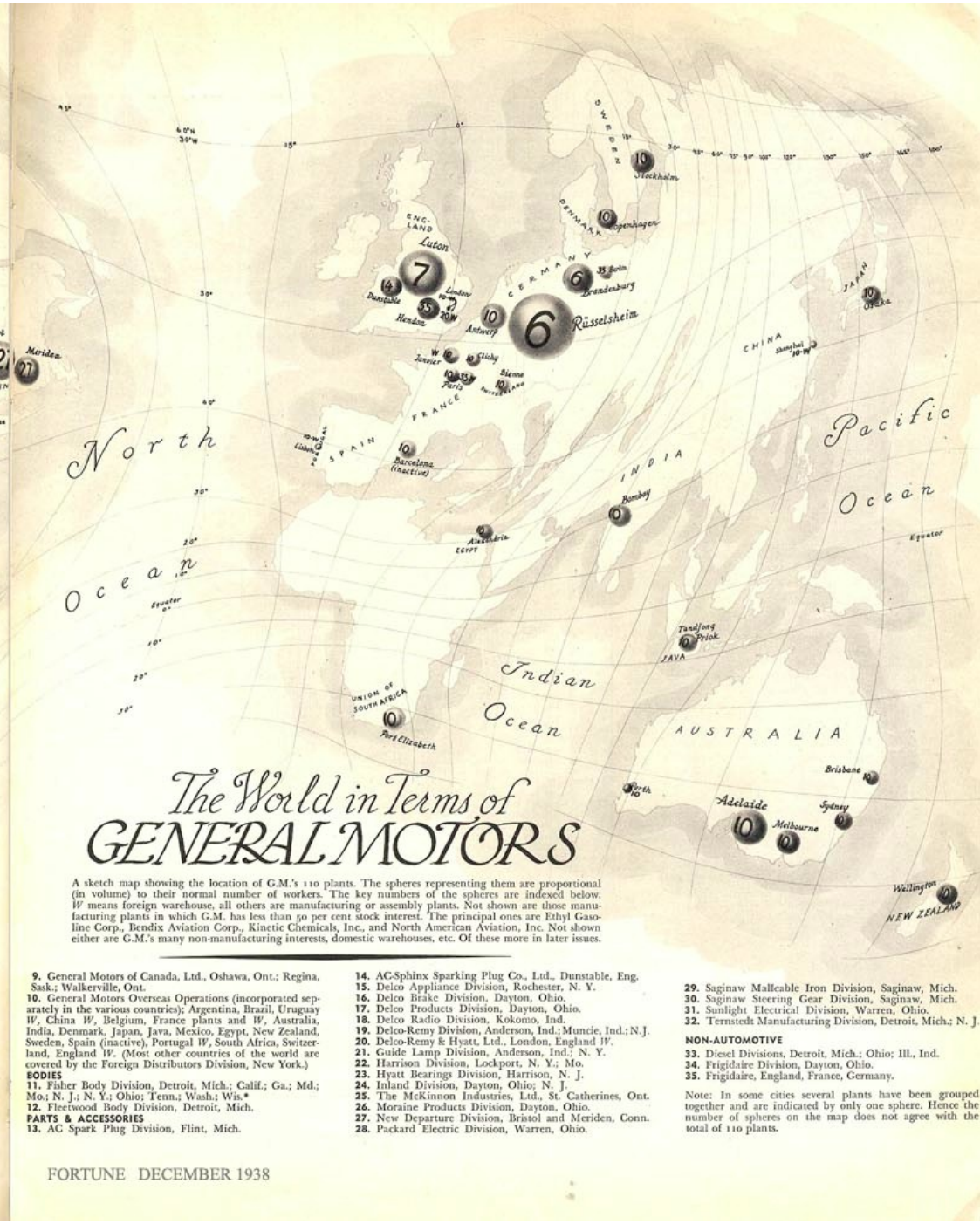


Autog. par Regnier, 8. Pas. Ste Marie St Gain à Paris.

Imp. Lith. Regnier et Dourdet.



Richard Edes Harrison



The World in Terms of GENERAL MOTORS

A sketch map showing the location of G.M.'s 110 plants. The spheres representing them are proportional (in volume) to their normal number of workers. The key numbers of the spheres are indexed below. *W* means foreign warehouse, all others are manufacturing or assembly plants. Not shown are those manufacturing plants in which G.M. has less than 50 per cent stock interest. The principal ones are Ethyl Gasoline Corp., Bendix Aviation Corp., Kinetic Chemicals, Inc., and North American Aviation, Inc. Not shown either are G.M.'s many non-manufacturing interests, domestic warehouses, etc. Of these more in later issues.

CARS

1. Buick Motor Division, Flint, Mich.; Calif.; N. J.*
2. Cadillac Motor Car Division, Detroit, Mich.
3. Chevrolet Motor Division, Detroit, Mich.; Calif.; Ga.; Ind.; Md.; Mo.; N. J.; N. Y.; Ohio; Wis.
4. Olds Motor Works Division, Lansing, Mich.; Calif.; N. J.*
5. Pontiac Motor Division, Pontiac, Mich.; Calif.; N. J.*
6. Adam Opel, A. G., Rüsselsheim and Brandenburg, Germany.
7. Vauxhall Motors, Ltd., Luton, England.
8. Yellow Truck & Coach Manufacturing Co. (G.M. Truck & Coach Division), Pontiac, Mich.

**Assembling operations of Buick, Oldsmobile, and Pontiac in California are performed by the Southern California Division and in New Jersey by the Linden Division.*

9. General Motors of Canada, Ltd., Oshawa, Ont.; Regina, Sask.; Walkerville, Ont.
10. General Motors Overseas Operations (incorporated separately in the various countries); Argentina, Brazil, Uruguay *W*, China *W*, Belgium, France plants and *W*, Australia, India, Denmark, Japan, Java, Mexico, Egypt, New Zealand, Sweden, Spain (inactive), Portugal *W*, South Africa, Switzerland, England *W*. (Most other countries of the world are covered by the Foreign Distributors Division, New York.)

BODIES

11. Fisher Body Division, Detroit, Mich.; Calif.; Ga.; Md.; Mo.; N. J.; N. Y.; Ohio; Tenn.; Wash.; Wis.*
12. Fleetwood Body Division, Detroit, Mich.

PARTS & ACCESSORIES

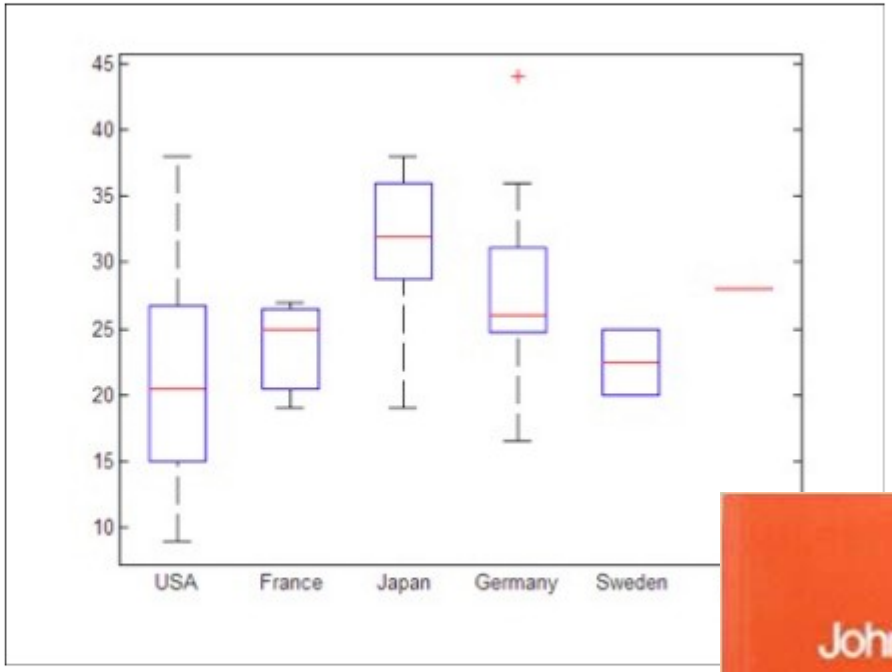
13. AC Spark Plug Division, Flint, Mich.
14. AC-Sphinx Sparking Plug Co., Ltd., Dunstable, Eng.
15. Delco Appliance Division, Rochester, N. Y.
16. Delco Brake Division, Dayton, Ohio.
17. Delco Products Division, Dayton, Ohio.
18. Delco Radio Division, Kokomo, Ind.
19. Delco-Remy Division, Anderson, Ind.; Muncie, Ind.; N.J.
20. Delco-Remy & Hyatt, Ltd., London, England *W*.
21. Guide Lamp Division, Anderson, Ind.; N. Y.
22. Harrison Division, Lockport, N. Y.; Mo.
23. Hyatt Bearings Division, Harrison, N. J.
24. Inland Division, Dayton, Ohio; N. J.
25. The McKinnon Industries, Ltd., St. Catherines, Ont.
26. Moraine Products Division, Dayton, Ohio.
27. New Departure Division, Bristol and Meriden, Conn.
28. Packard Electric Division, Warren, Ohio.
29. Saginaw Malleable Iron Division, Saginaw, Mich.
30. Saginaw Steering Gear Division, Saginaw, Mich.
31. Sunlight Electrical Division, Warren, Ohio.
32. Ternstedt Manufacturing Division, Detroit, Mich.; N. J.

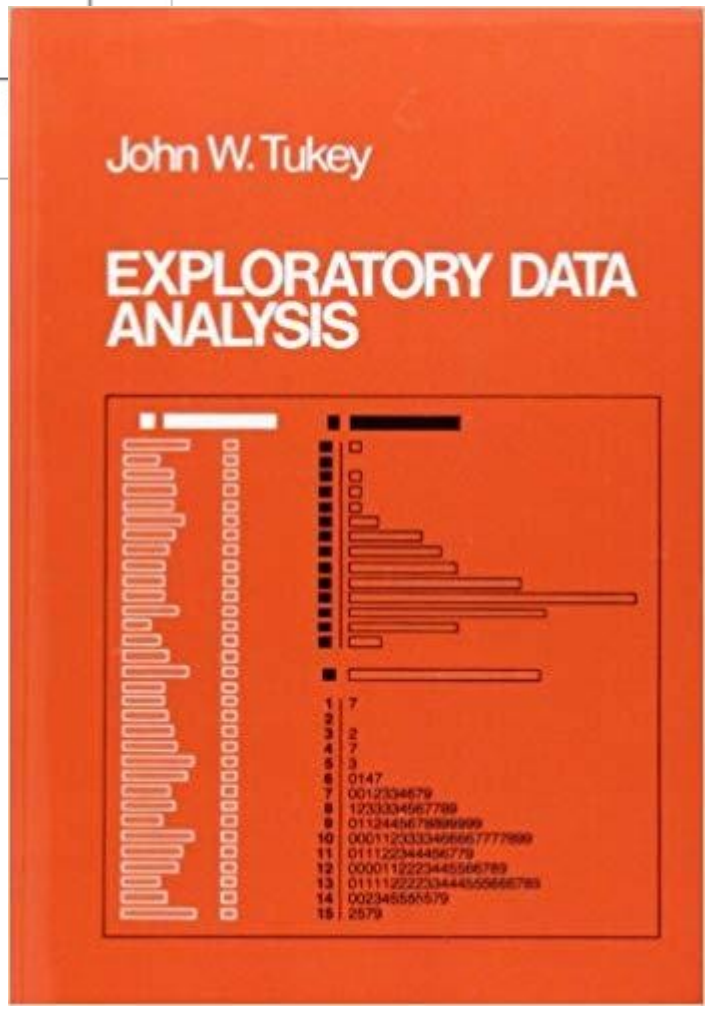
NON-AUTOMOTIVE

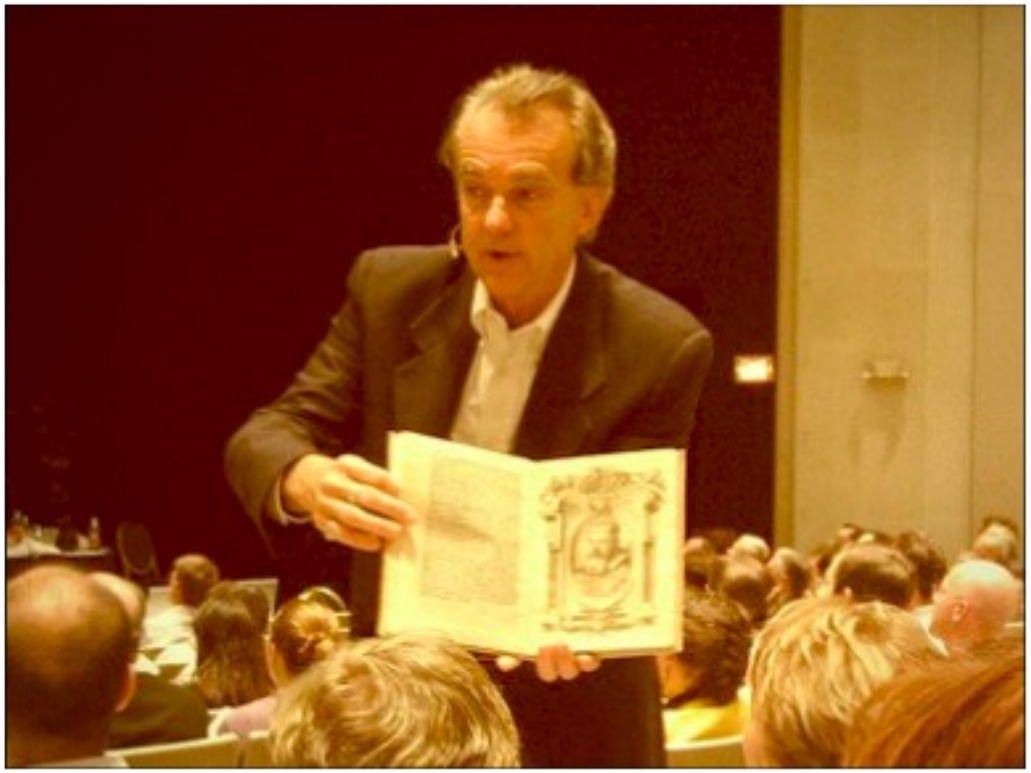
33. Diesel Divisions, Detroit, Mich.; Ohio; Ill., Ind.
34. Frigidaire Division, Dayton, Ohio.
35. Frigidaire, England, France, Germany.

Note: In some cities several plants have been grouped together and are indicated by only one sphere. Hence the number of spheres on the map does not agree with the total of 110 plants.

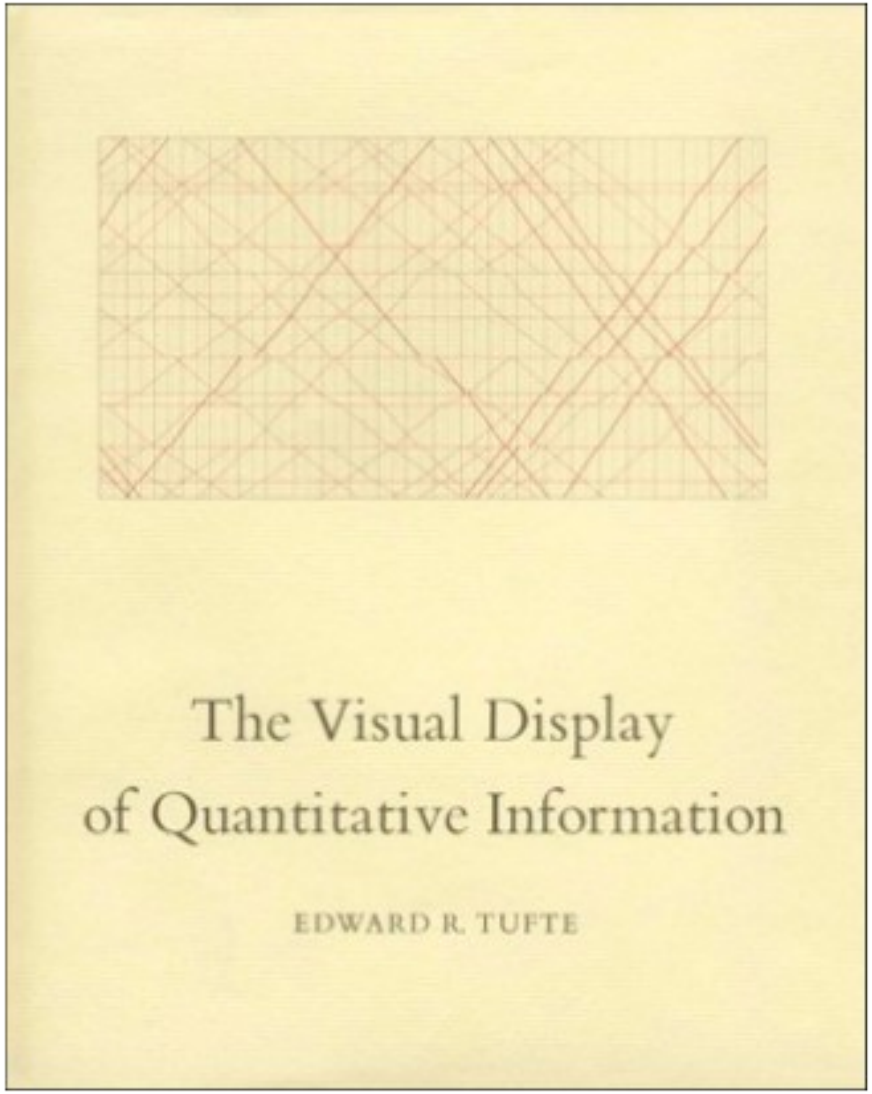
John Tukey
EEUU, 1915



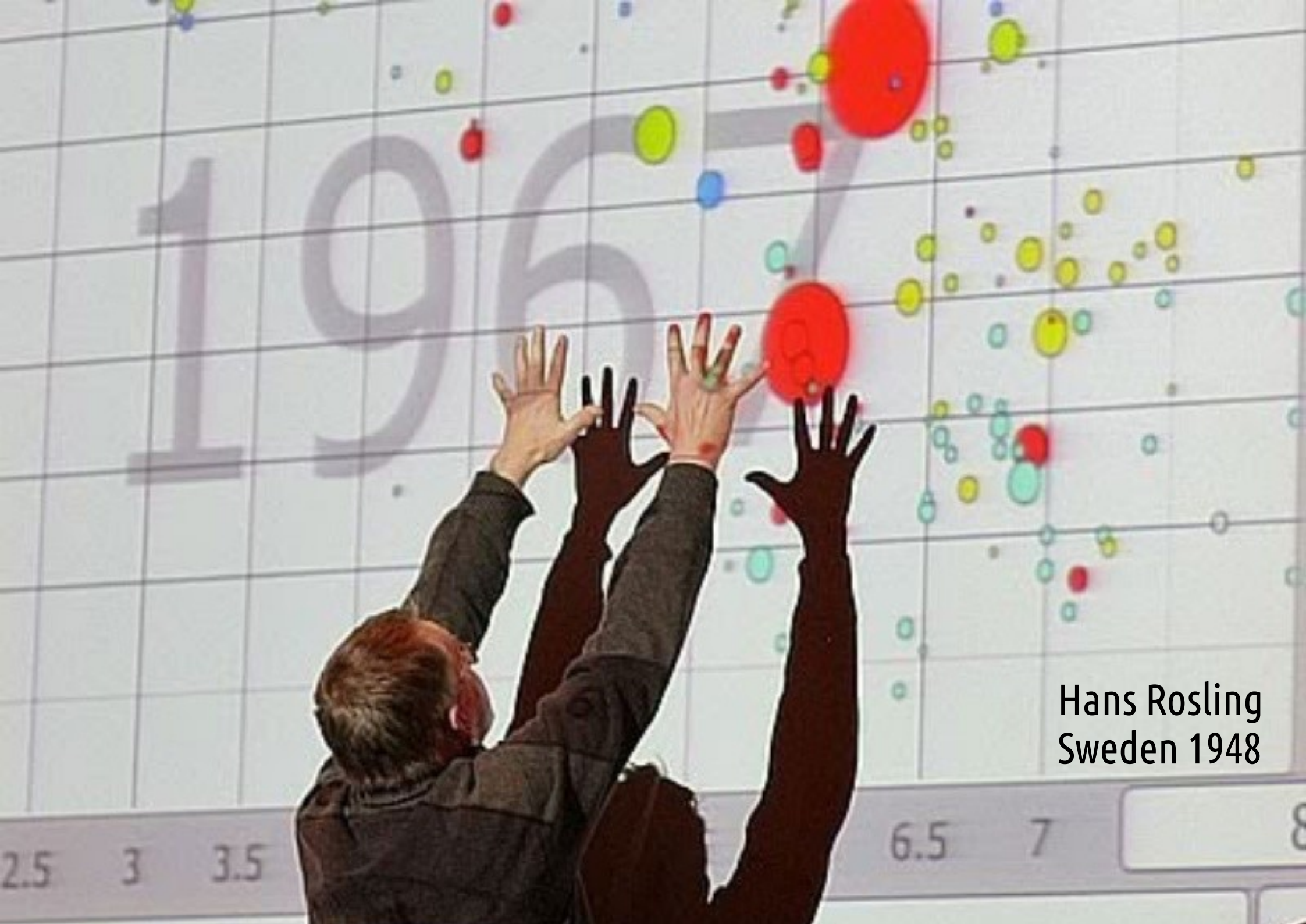


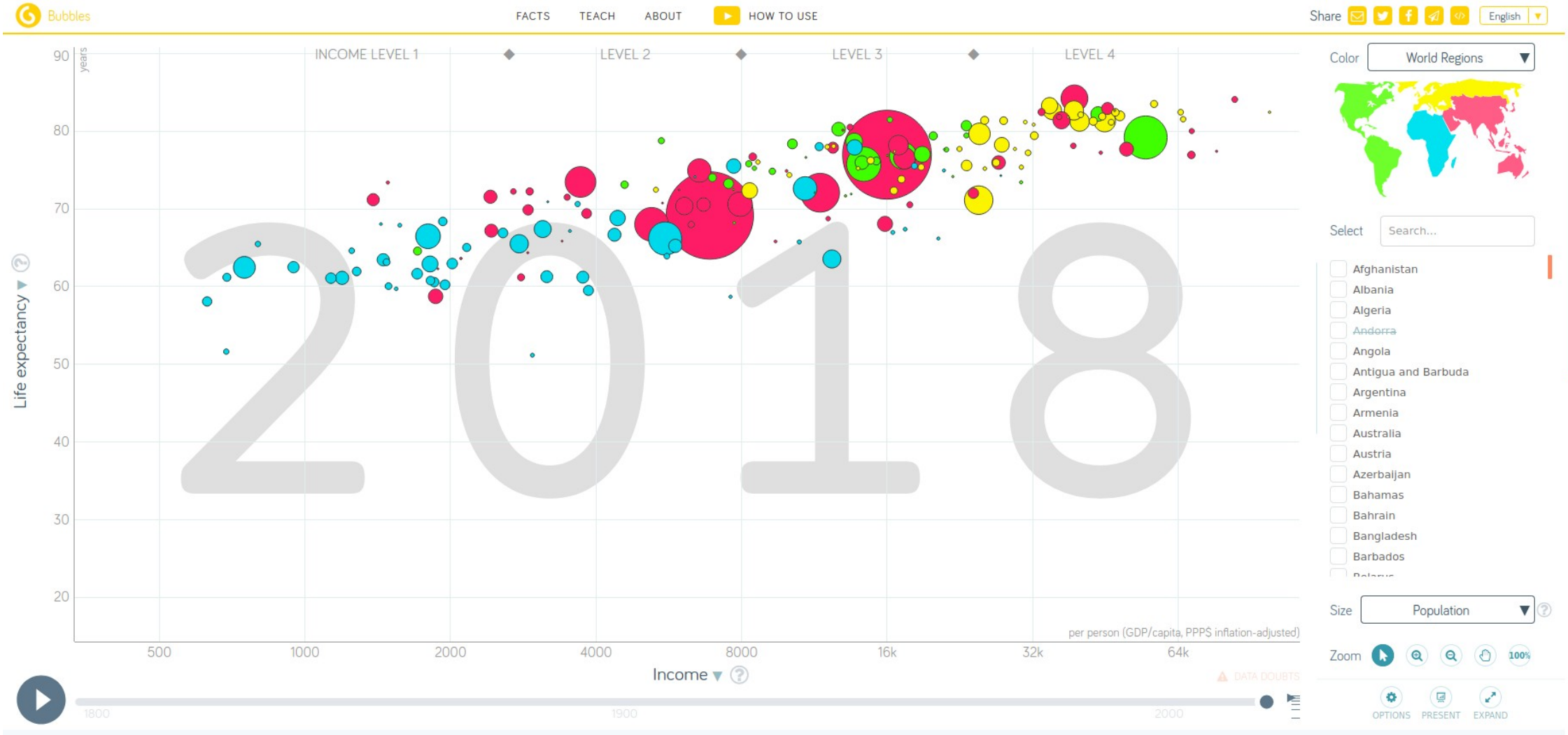


Edward R. Tufte
EEUU, 1942

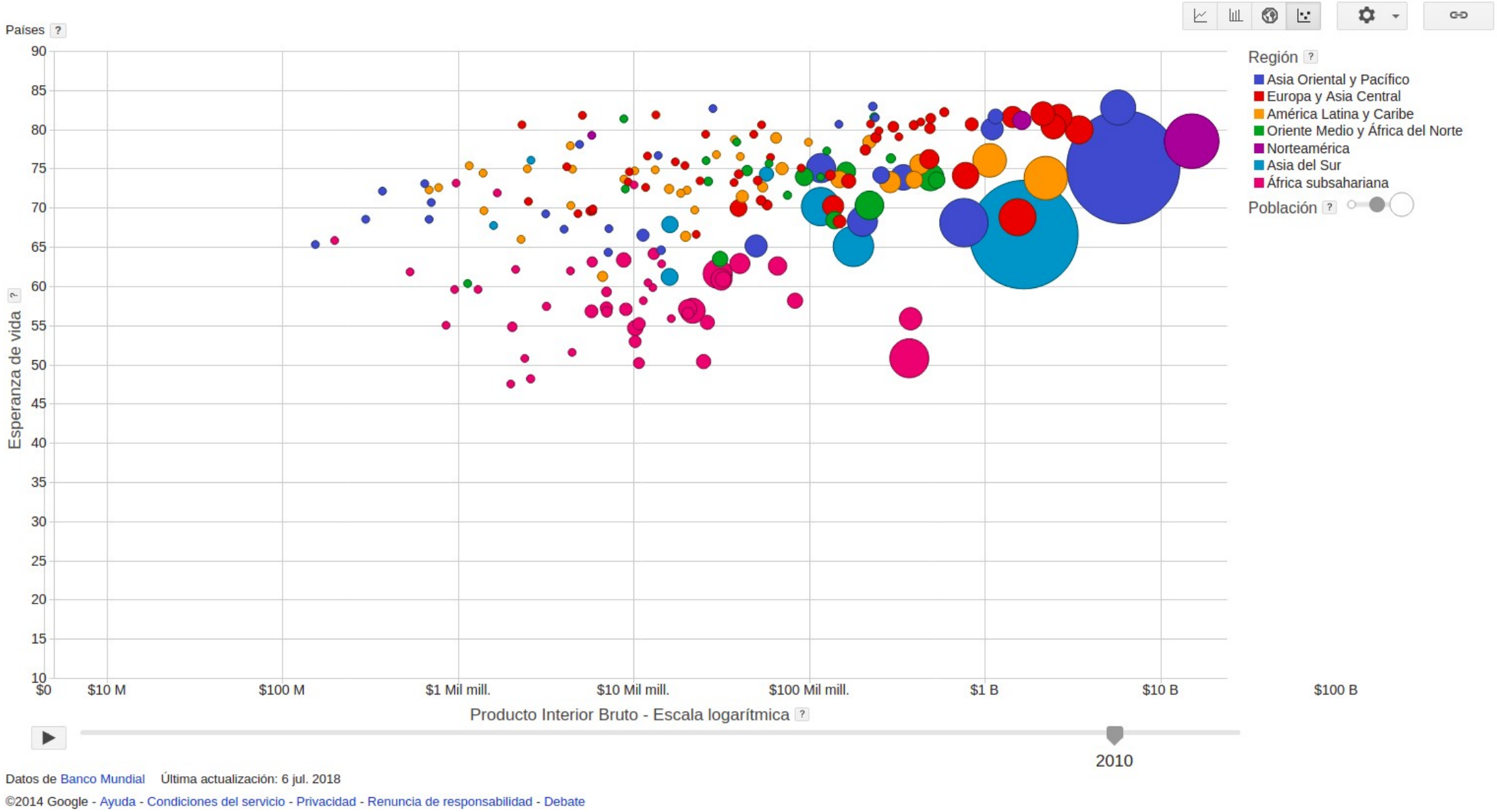


Graphical excellence is that which gives to the viewer the greatest number of ideas in the shortest time with the least ink in the smallest space.”


1967
2.5
3
3.5
6.5
7
Hans Rosling
Sweden 1948

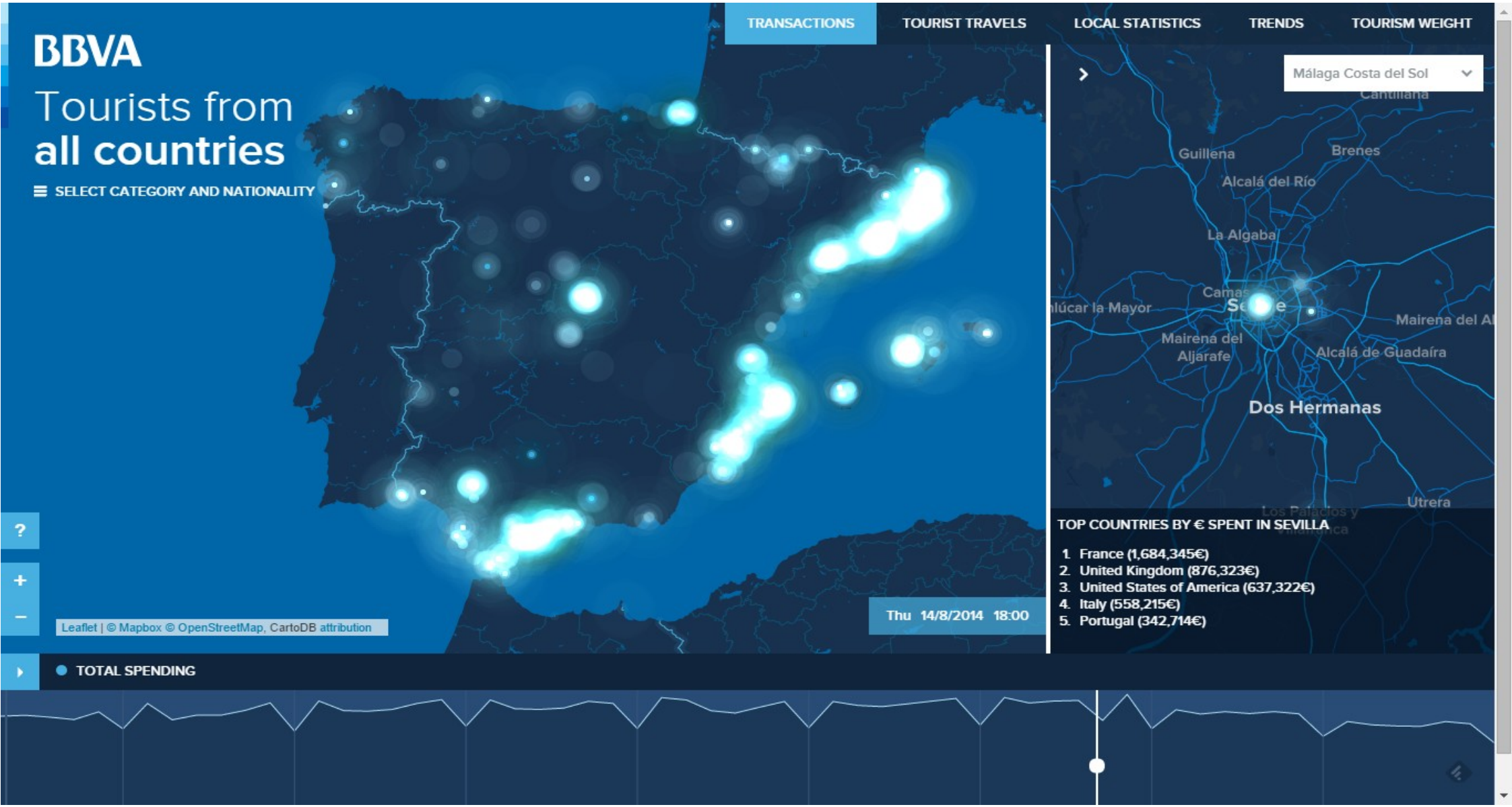


https://www.gapminder.org/tools/#$chart-type=bubbles

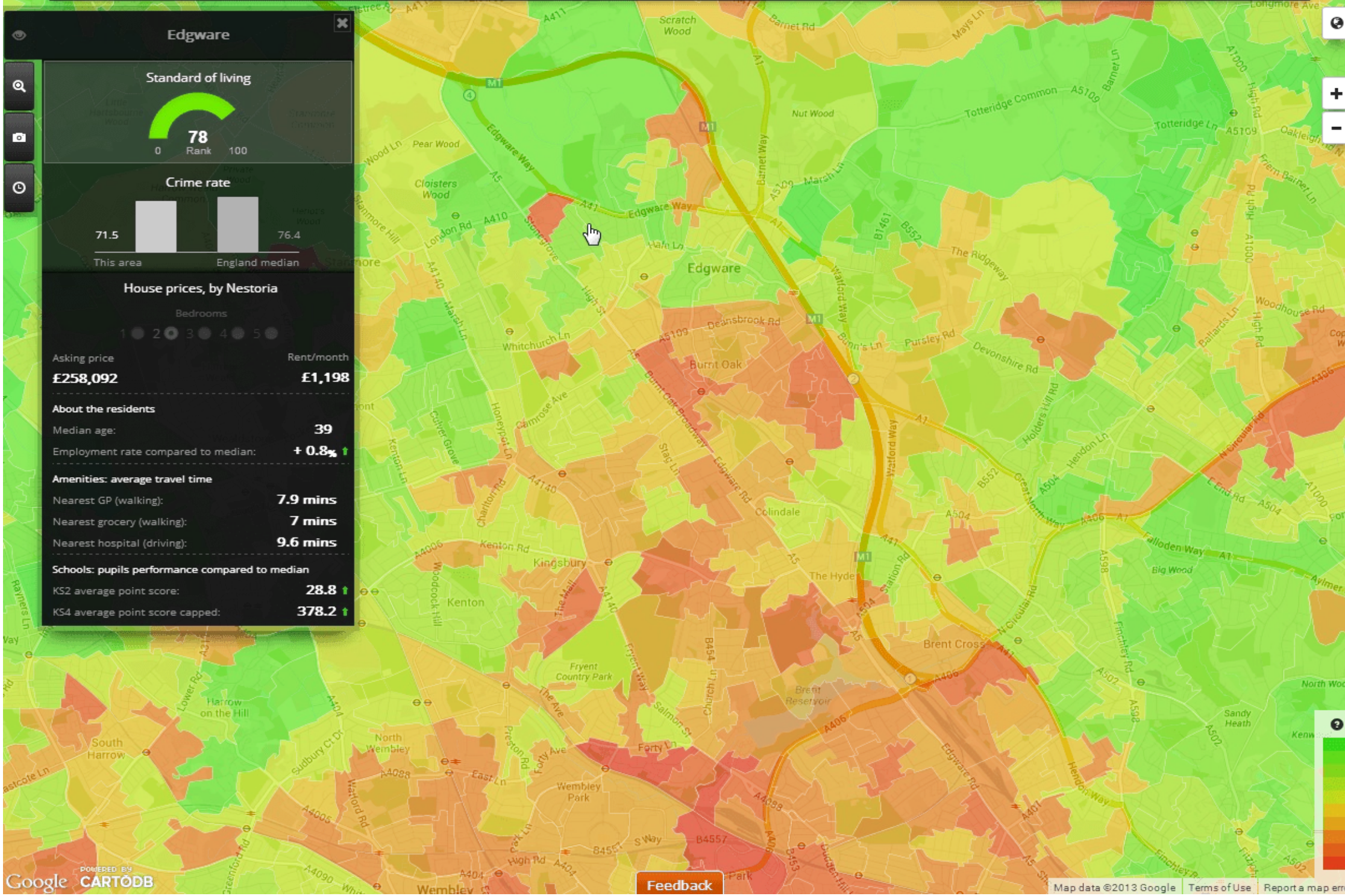


https://www.google.com/publicdata/directory

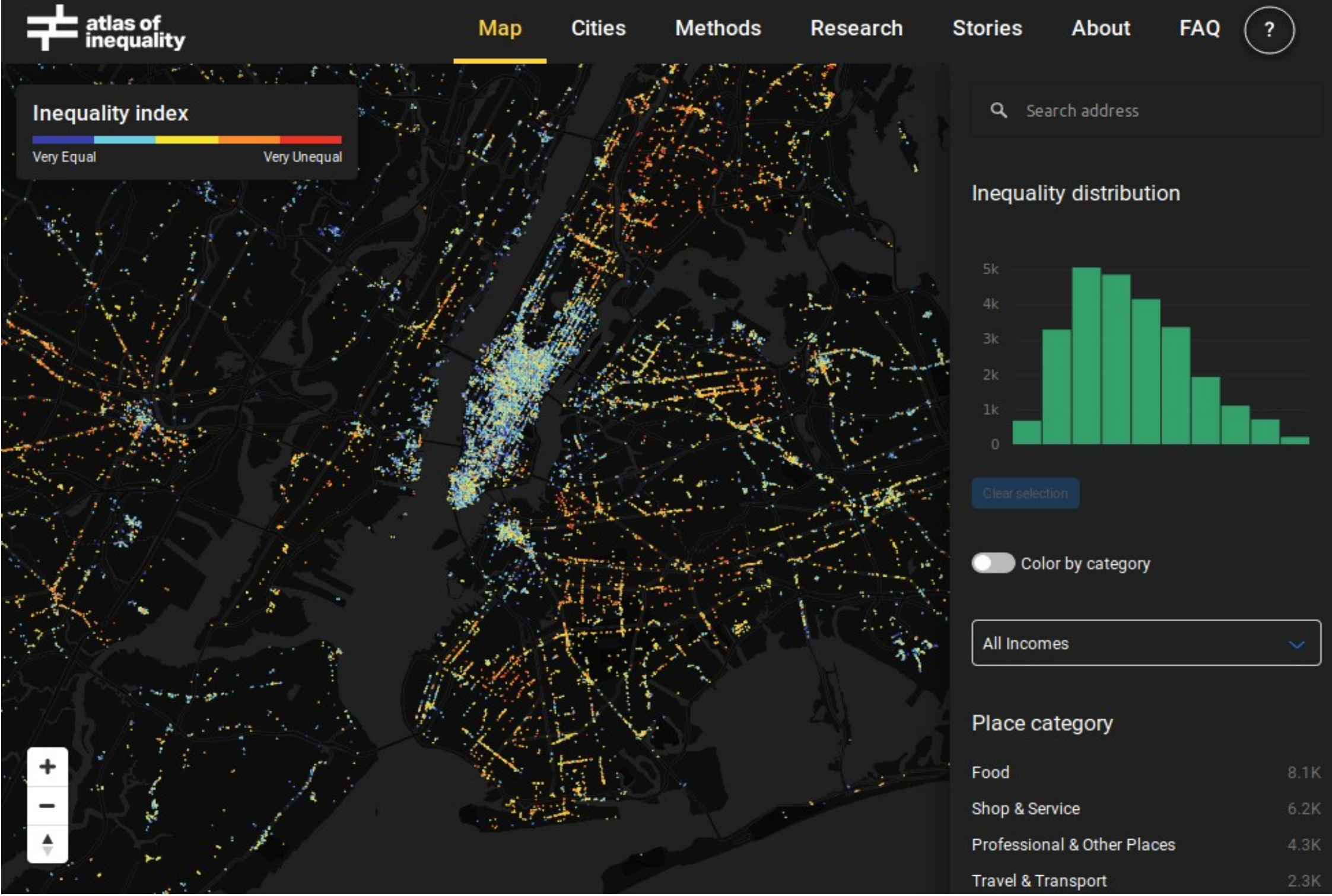
http://mwcimpact.com/


BBVA
Tourists from
all countries
SELECT CATEGORY AND NATIONALITY
TRANSACTIONS
TOURIST TRAVELS
LOCAL STATISTICS
TRENDS
TOURISM WEIGHT
Málaga Costa del Sol
Guillena
Brenes
Alcalá del Río
La Algaba
Mairena del Aljarafe
Alcalá de Guadaíra
Dos Hermanas
Utrera
TOP COUNTRIES BY € SPENT IN SEVILLA
1. France (1,684,345€)
2. United Kingdom (876,323€)
3. United States of America (637,322€)
4. Italy (558,215€)
5. Portugal (342,714€)
Thu 14/8/2014 18:00
Leaflet | © Mapbox © OpenStreetMap, CartoDB attribution
TOTAL SPENDING

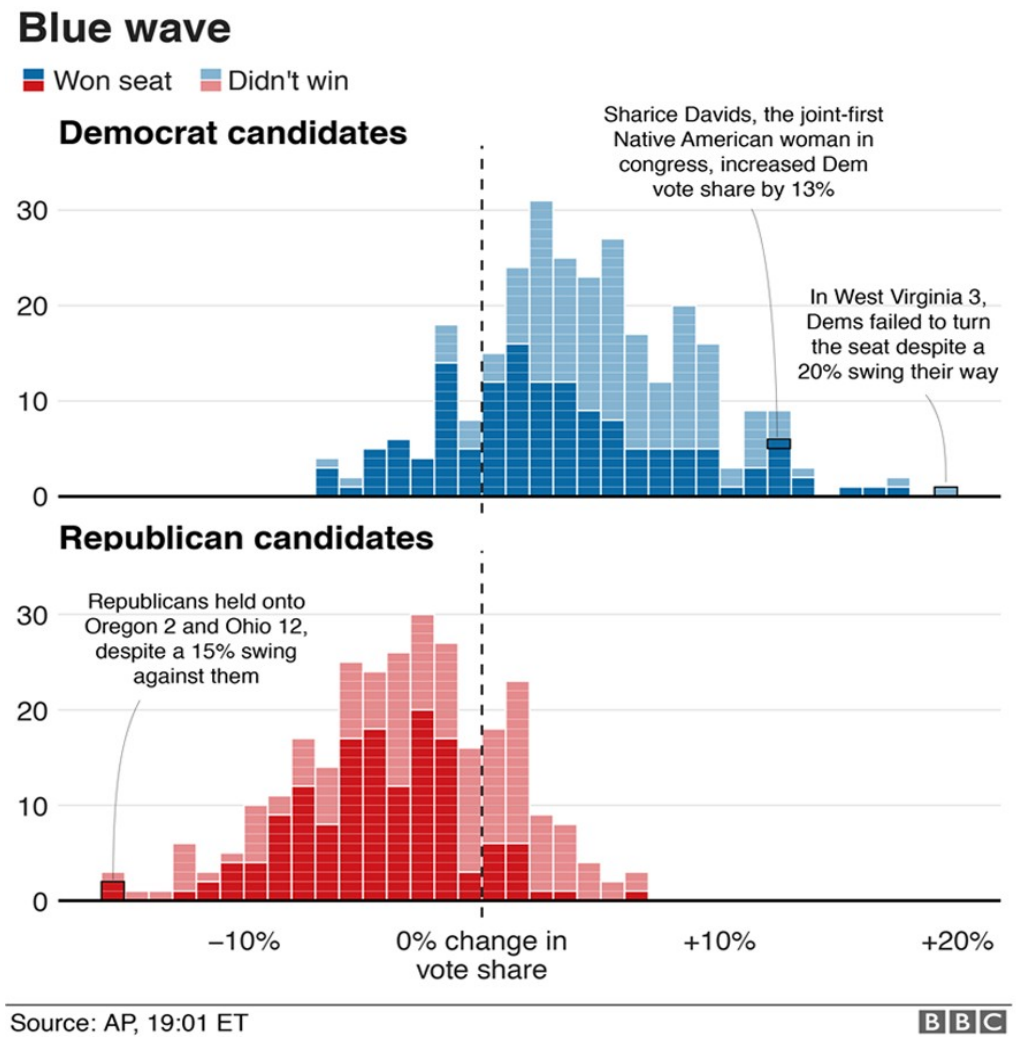
http://www.nytimes.com/interactive/dining/new-york-health-department-restaurant-ratings-map.html?_r=0

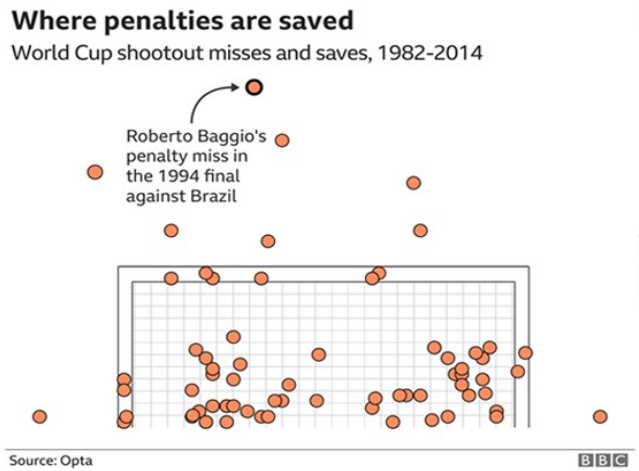


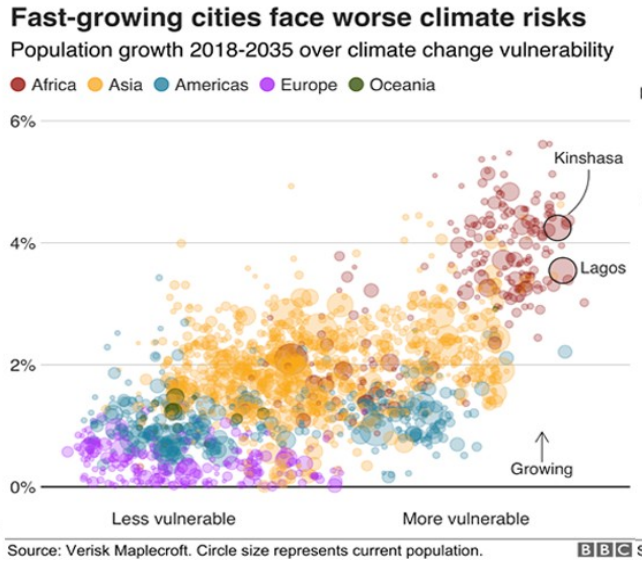
http://illustreets.co.uk/



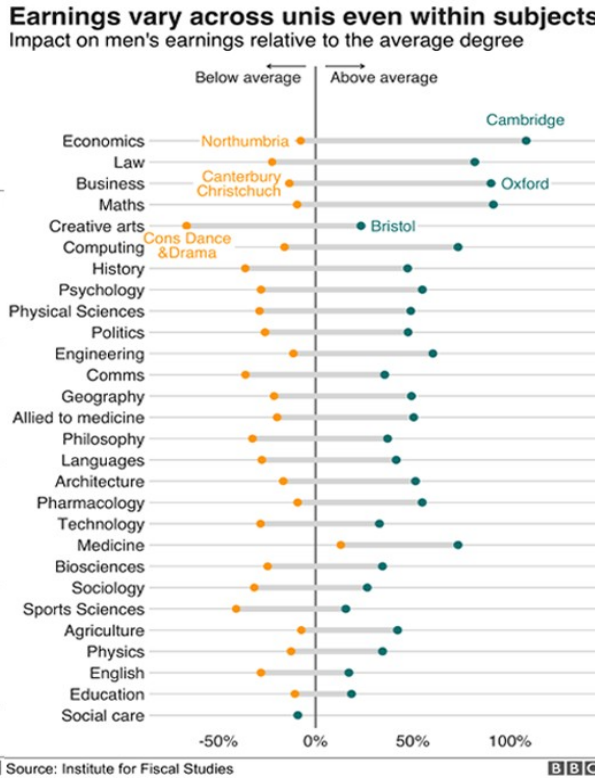
https://inequality.media.mit.edu/


Blue wave
Won seat
Didn't win
Democrat candidates
Sharice Davids, the joint-first Native American woman in congress, increased Dem vote share by 13%
In West Virginia 3, Dems failed to turn the seat despite a 20% swing their way
30
20
10
0
Republican candidates
Republicans held onto Oregon 2 and Ohio 12, despite a 15% swing against them
30
20
10
0
–10%
0% change in vote share
+10%
+20%
Source: AP, 19:01 ET
BBC


Where penalties are saved
World Cup shootout misses and saves, 1982-2014
Roberto Baggio's penalty miss in the 1994 final against Brazil
Source: Opta
BBC

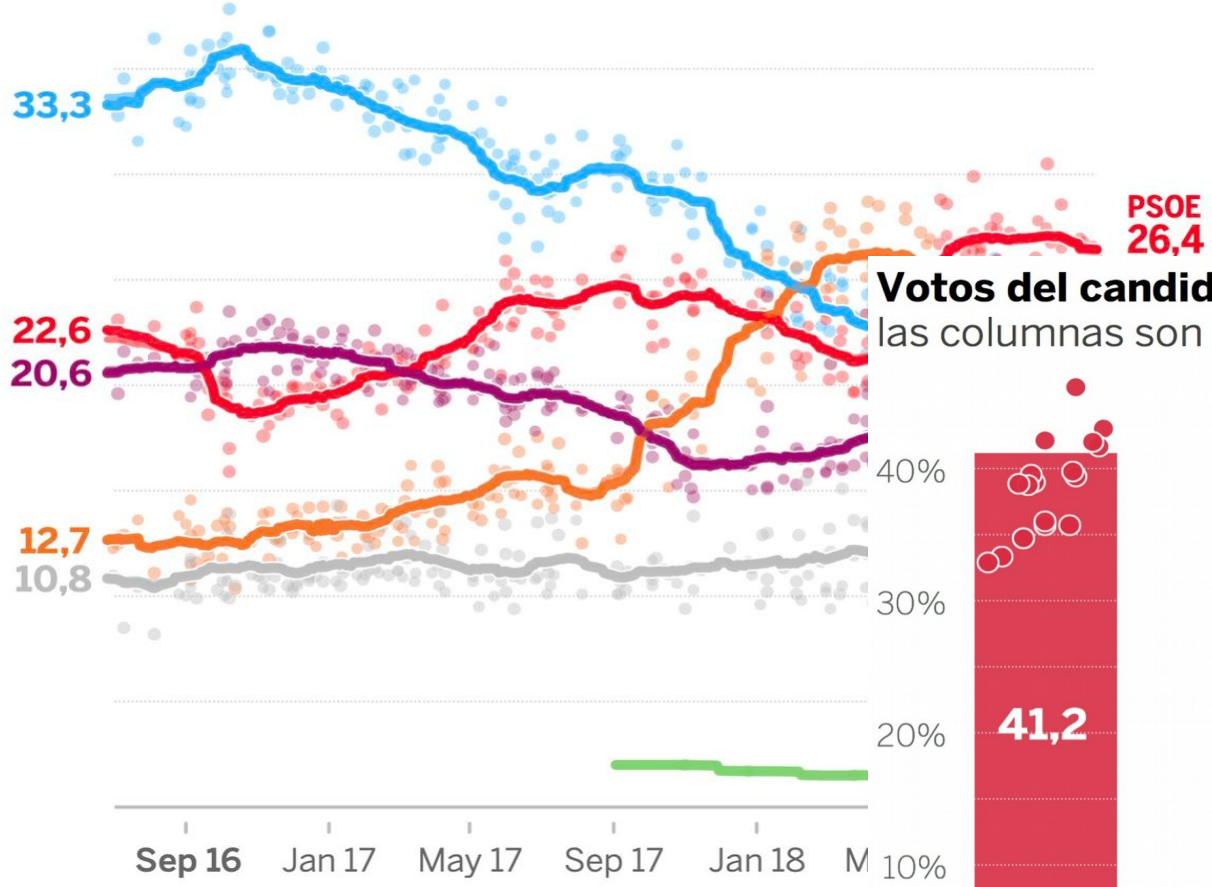

Fast-growing cities face worse climate risks
Population growth 2018-2035 over climate change vulnerability
Africa
Asia
Americas
Europe
Oceania
6%
4%
2%
0%
Kinshasa
Lagos
Growing
Less vulnerable
More vulnerable
Source: Verisk Maplecroft. Circle size represents current population.
BBC

MPs rejected Theresa May's deal by 230 votes
For
Con (196)
202
Lab 3, Ind 3
Against
Con rebels (118)
Labour (248)
432
SNP 35, Lib Dem 11, DUP 10, Plaid 4, Green 1, Ind 5
Source: Commons Votes Services. Excludes 'tellers', the Speaker and deputies
BBC


Earnings vary across unis even within subjects
Impact on men's earnings relative to the average degree
Below average
Above average
Economics
Law
Business
Maths
Creative arts
Computing
History
Psychology
Physical Sciences
Politics
Engineering
Comms
Geography
Allied to medicine
Philosophy
Languages
Architecture
Pharmacology
Technology
Medicine
Biosciences
Sociology
Sports Sciences
Agriculture
Physics
English
Education
Social care
Northumbria
Canterbury Christchuch
Cons Dance &Drama
Cambridge
Oxford
Bristol
-50%
0%
50%
100%
Source: Institute for Fiscal Studies
BBC

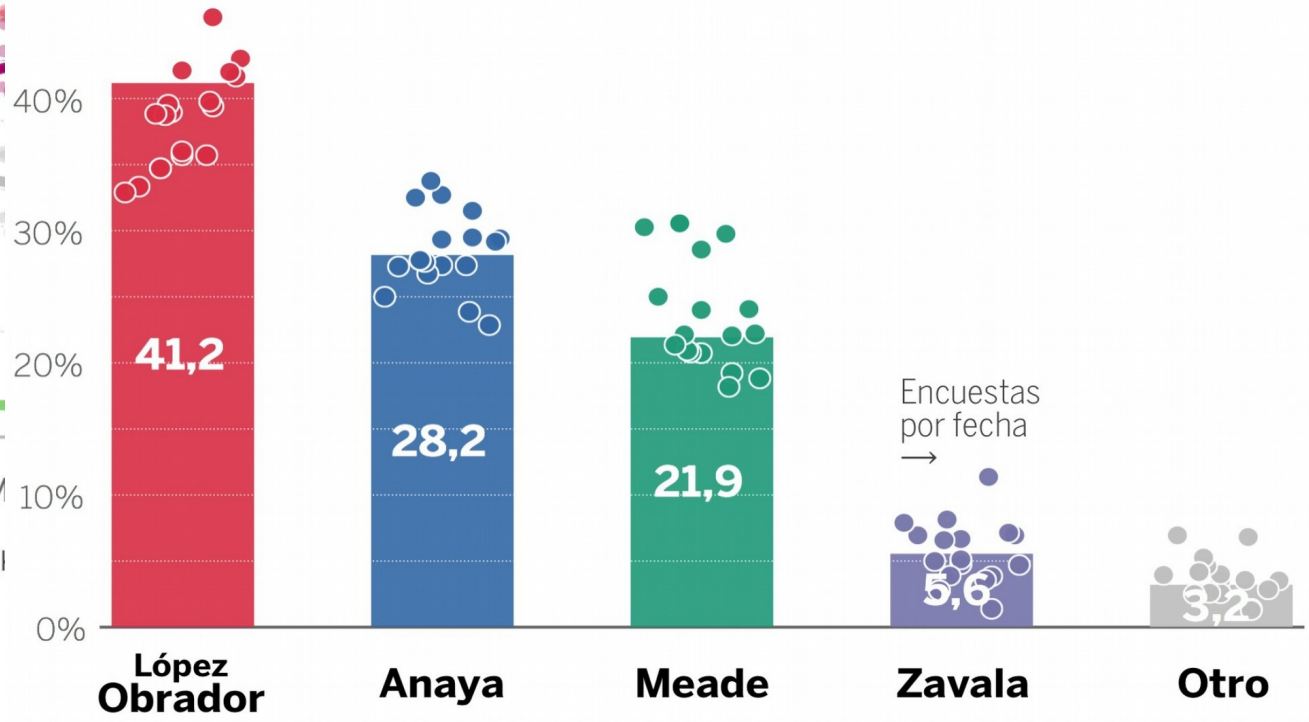
Así se mueven las encuestas

Estimación de voto; promedio ponderado



Fuente: Wikipedia y elaboración propia

Votos del candidato en cada encuesta, las columnas son el promedio

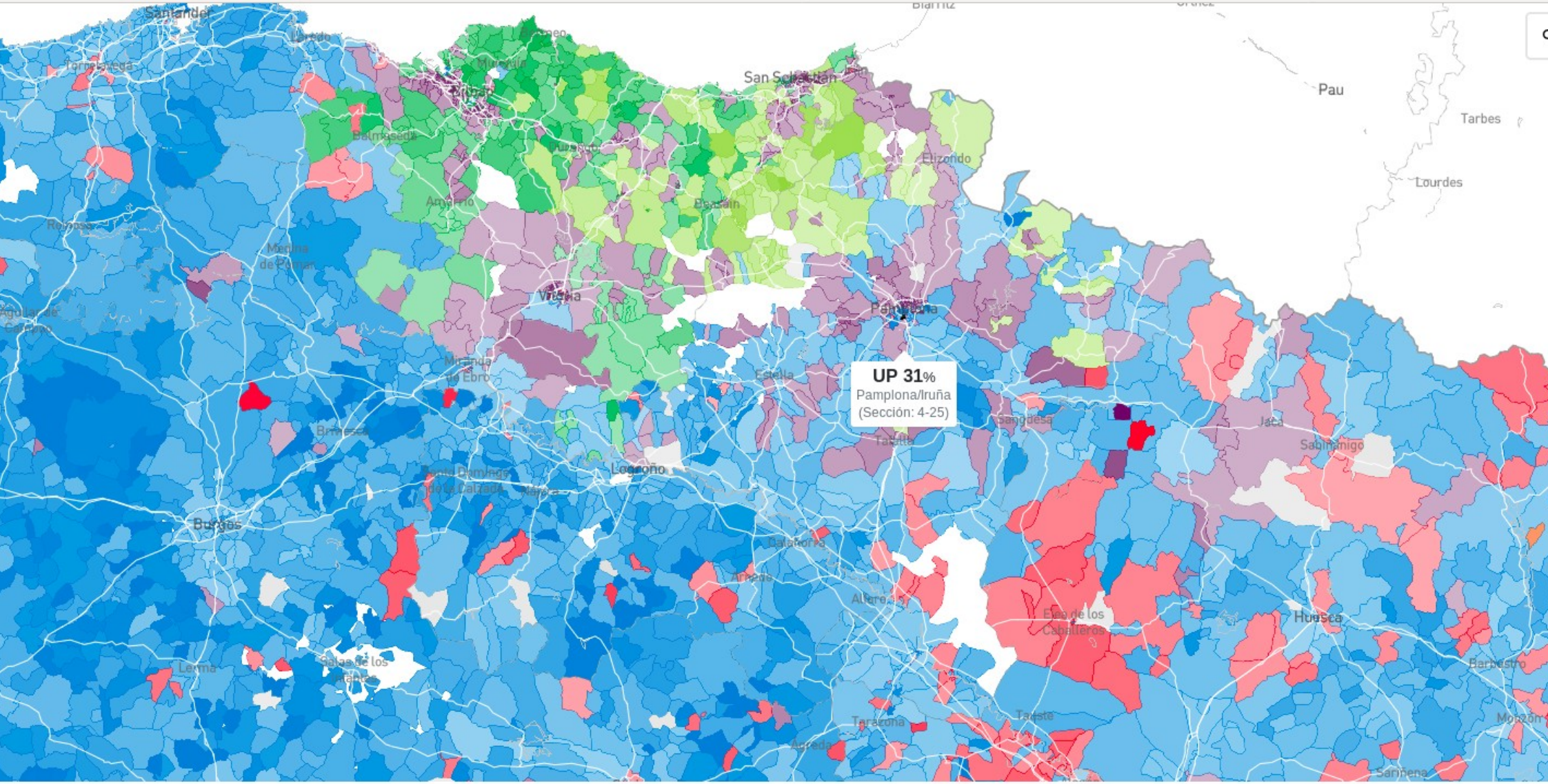


Fuente: Oraculus y elaboración propia

KIKO LLANERAS / EL PAÍS

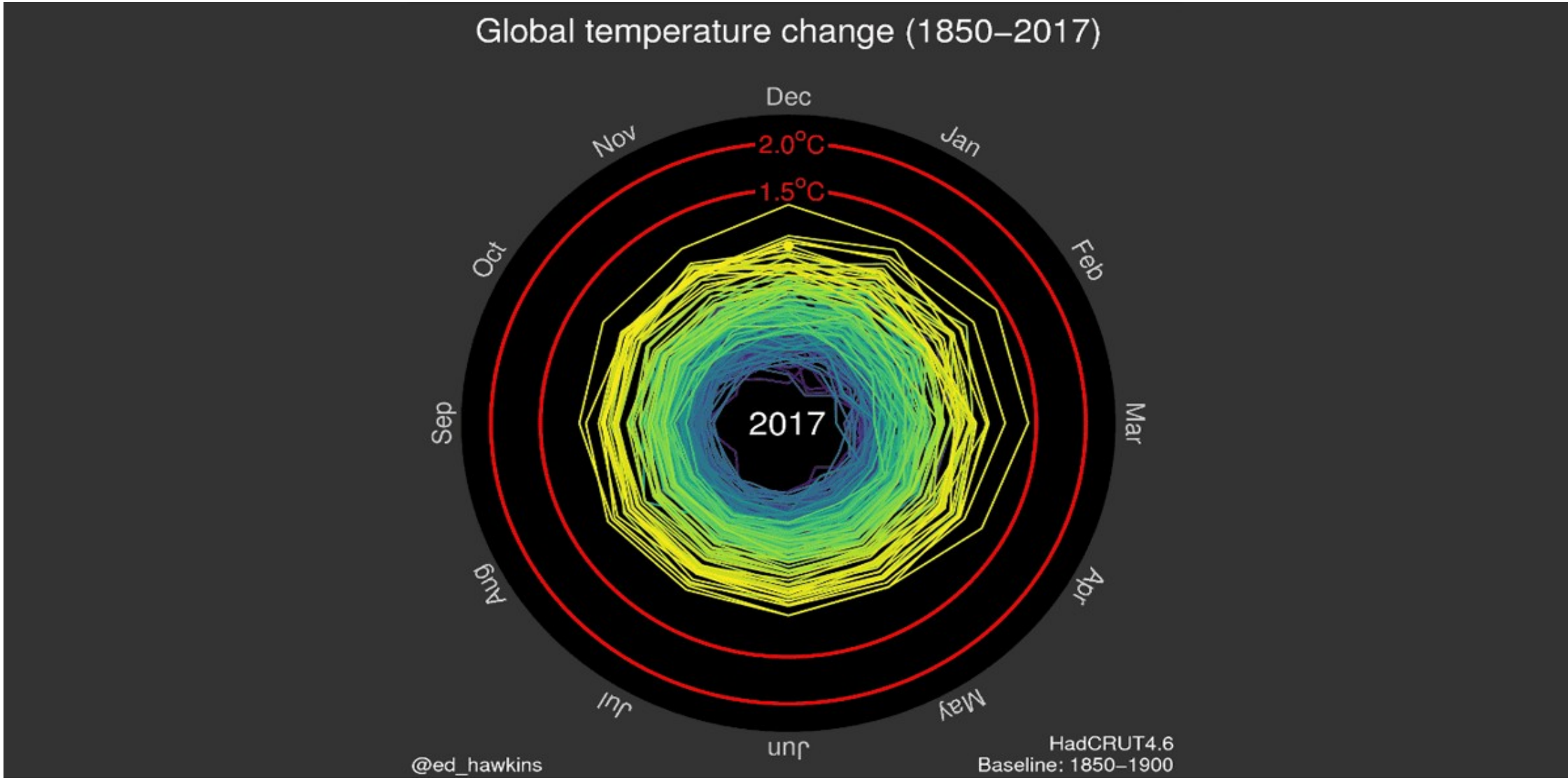
https://widgets.elpais.com/mapbox/participacion-elecciones/index.html

enzar a usar Firef...



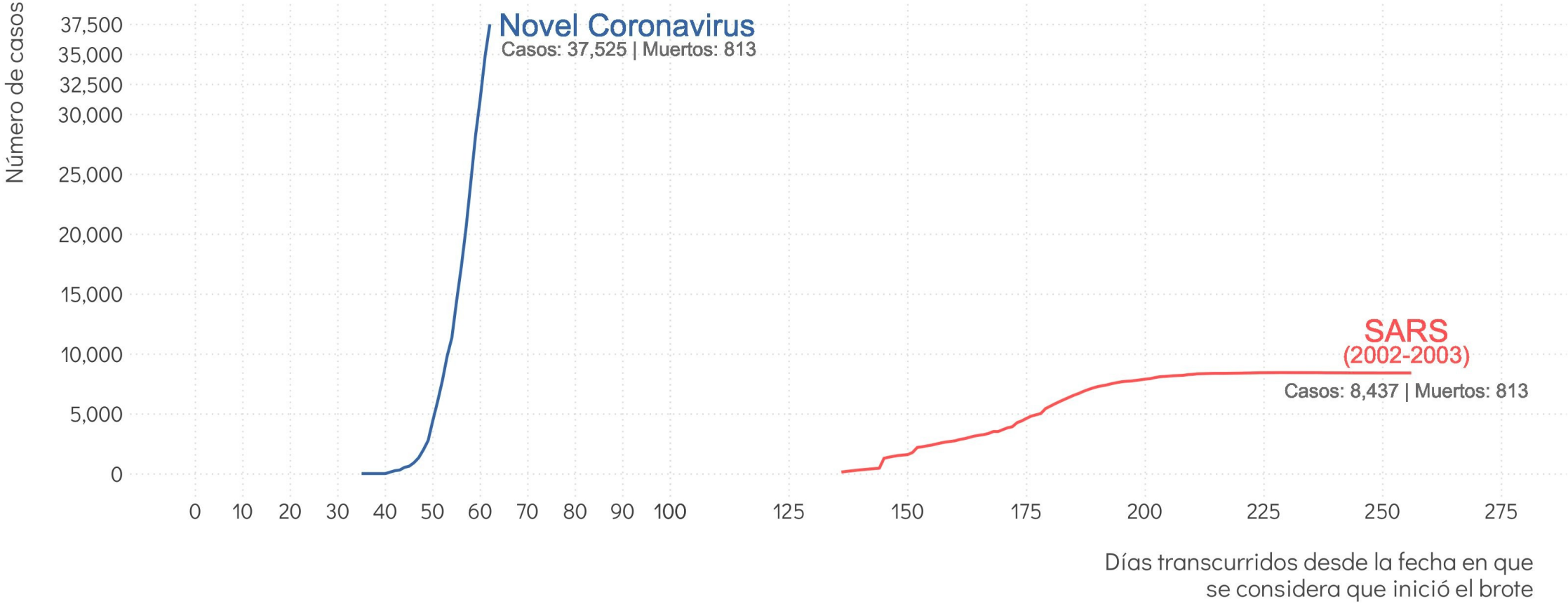
Pamplona/Iruña (Distrito: 4, secc: 25)

Participación	73 %	Censo	1.695 Habitantes
PP	28 %	ERC	0 %
PSOE	16 %	CDC	0 %
UP	31 %	PNV	0 %
Cs	6 %	Bildu	11 %
VOX	0 %	CC	0 %


Global temperature change (1850–2017)
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
2.0°C
1.5°C
2017
@ed_hawkins
HadCRUT4.6
Baseline: 1850–1900

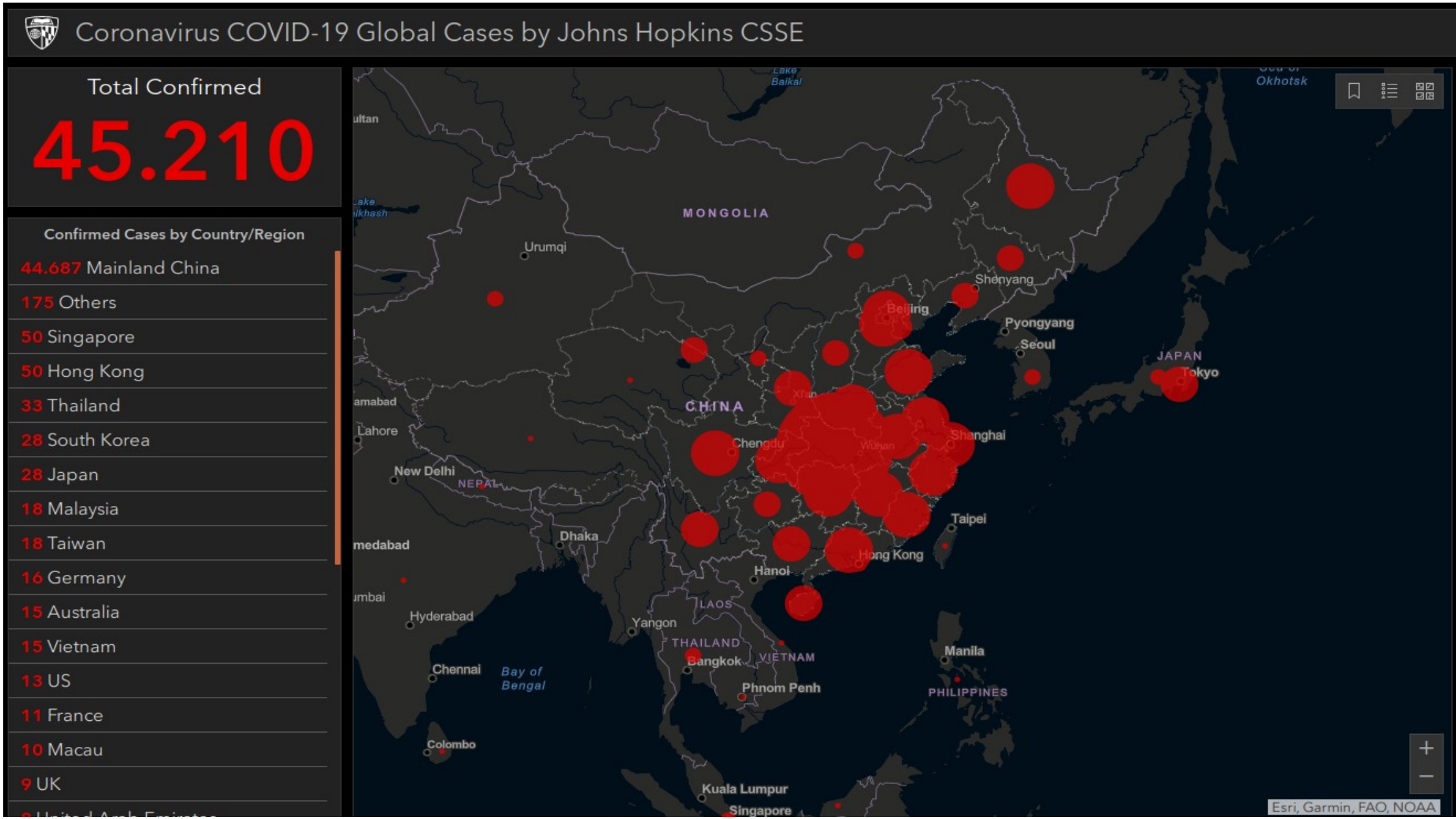
Numero de casos confirmados reportados de Novel Coronavirus (2019-nCoV) y SARS desde el comienzo de la respectiva epidemia

Cifras a las 21 hrs. del 8 de febrero de 2020 (CDMX)



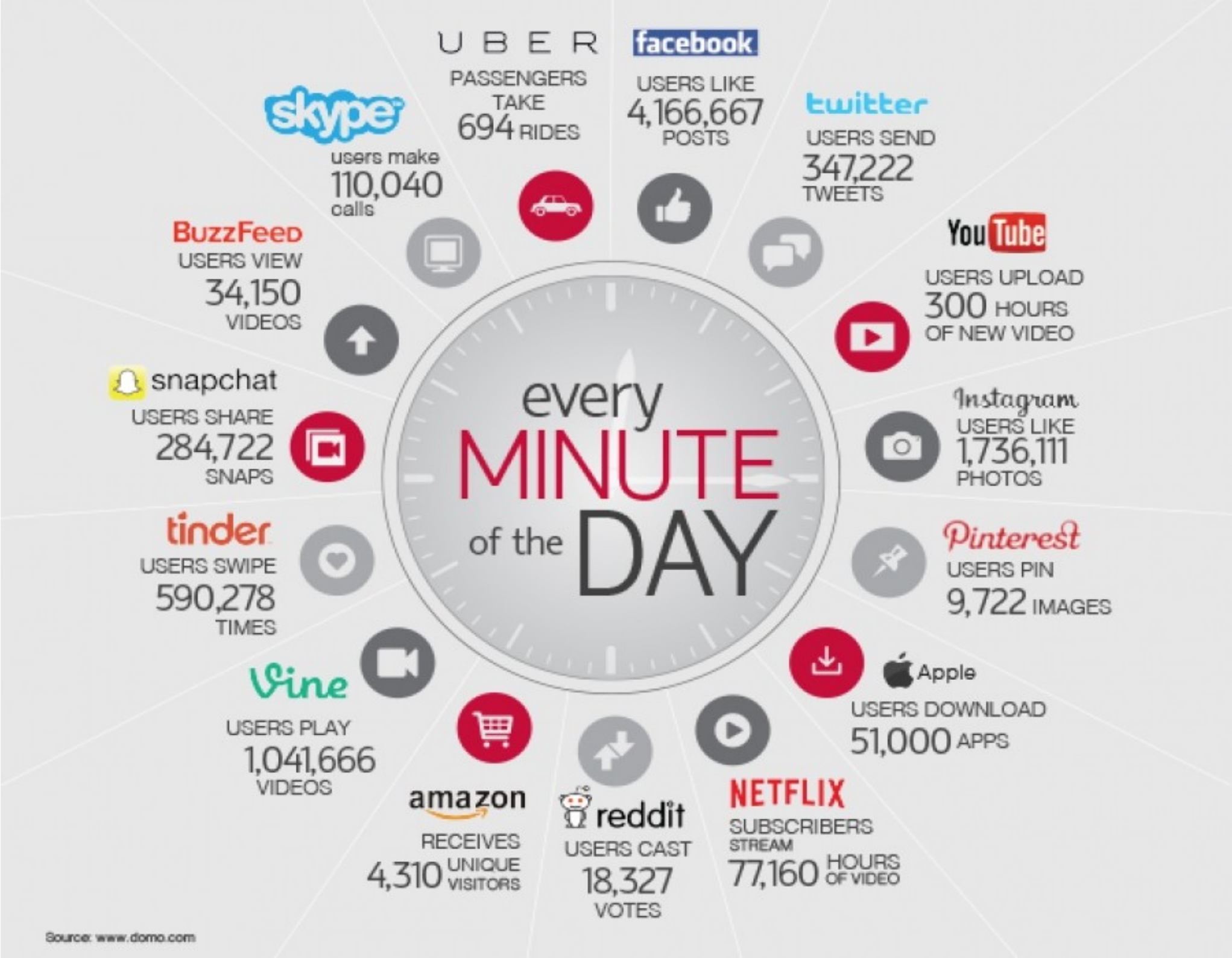
Elaborado por @segasi para el Buró de Investigación de ADN40 / Fuentes: OMS, el CSSE de la Universidad de Johns Hopkins y BNO News

Nota: En el caso del brote de SARS, la OMS inicialmente consideró que éste comenzó el 1 de febrero de 2003, pero el 28 de marzo de ese año determinó que la epidemia había iniciado el 1 de noviembre de 2002. En el caso del Novel coronavirus, se considera que el brote inició el 8 de diciembre de 2019.



https://gisanddata.maps.arcgis.com/apps/opsdashboard/index.html#/bda7594740fd40299423467b48e9ecf6

Los datos


every MINUTE of the DAY
UBER
PASSENGERS TAKE 694 RIDES
facebook
USERS LIKE 4,166,667 POSTS
twitter
USERS SEND 347,222 TWEETS
YouTube
USERS UPLOAD 300 HOURS OF NEW VIDEO
Instagram
USERS LIKE 1,736,111 PHOTOS
Pinterest
USERS PIN 9,722 IMAGES
Apple
USERS DOWNLOAD 51,000 APPS
NETFLIX
SUBSCRIBERS STREAM 77,160 HOURS OF VIDEO
reddit
USERS CAST 18,327 VOTES
amazon
RECEIVES 4,310 UNIQUE VISITORS
Vine
USERS PLAY 1,041,666 VIDEOS
tinder
USERS SWIPE 590,278 TIMES
snapchat
USERS SHARE 284,722 SNAPS
BuzzFeed
USERS VIEW 34,150 VIDEOS
skype
users make 110,040 calls
Source: www.domo.com

A
B

CLOSED

OPEN

Open Data

Buscar

Tema

- Cualquiera -

Categoría

- Cualquiera -

Formato

- Cualquiera -

Aplicar

Suscríbete a esta búsqueda

Avales

TEMA
Economía y finanzas

FECHA DE ACTUALIZACIÓN
31/12/2017

Formatos disponibles

ODS XLS

Gastos de Caja Fija 2017

TEMA
Administración pública

FECHA DE ACTUALIZACIÓN
20/06/2018

Formatos disponibles

XLS CSV ODS

Gastos de viaje

TEMA
Administración pública

FECHA DE ACTUALIZACIÓN
27/06/2018

Formatos disponibles

ODS XLS

Vehículos Oficiales 2017

TEMA
Administración pública

FECHA DE ACTUALIZACIÓN
05/06/2018

Formatos disponibles

CSV ODS XLS

Indicador	Periodo	Valor/ Índice	Variación Anual
IPC	2018.05	103,8	+2,1%
Producto Interior Bruto	2018 T1		+3,3%
Nº de Ocupados. EPA	2018 T1	276.100	-1,45%
Afiliados Seguridad Social	2018.04	272.138	+2,7%

Indicadores de Coyuntura Económica de Navarra

INFORMACIÓN ESTADÍSTICA

POBLACIÓN Y DEMOGRAFÍA

ENTORNO FÍSICO Y UNIDADES

SOCIEDAD

CUENTAS ECONÓMICAS

SECTORES ECONÓMICOS

CIENCIA Y TECNOLOGÍA

RECOPILACIONES ESTADÍSTICAS

Empleo

El Observatorio realiza permanentemente el análisis de las principales estadísticas de mercado de trabajo en Navarra. En su elaboración se tienen en cuenta diversas fuentes, y representan una lectura fiable y sencilla de los datos estadísticos más relevantes.

Todos los apartados contienen datos e informes descargables que se irán activando a medida que se disponga de la información.

Información desagregada a nivel:

Comunidad Foral de Navarra

- Paro y contratos registrados
- Ocupaciones
- Afiliaciones a la Seguridad Social

Municipio

- Paro y Contratos
- Informe Anual del Mercado Laboral
- Afiliación a la Seguridad Social

Meteorología y climatología de Navarra

Gobierno de Navarra

AEMet

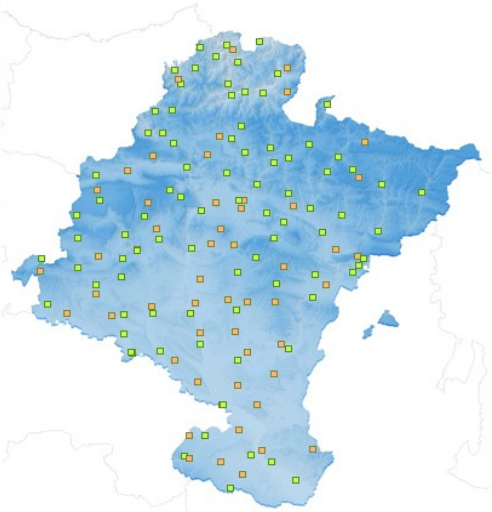
- Inicio
- Predicciones
- Mapas temáticos
- Datos de estaciones
  - > Datos en tiempo real
  - > Evolución último mes
  - > Resúmenes diarios
  - > Gráficos
  - > Mapas de días pasados
  - > Mapas meteorológicos
  - > Resúmenes climatológicos
  - > Descargar datos
- Climatología
- Energías renovables
- Archivo
- Definiciones
- Enlaces

:: Mapa de la web ::

Datos de estaciones:

Datos de estaciones

Consulta de los datos registrados en las estaciones meteorológicas



Automáticas | Manuales (AEMET)

A
- Ablitas MAPAMA
- Adiós MAPAMA
- Aguilar de Codés GN
- Aibar MAPAMA
- Ancín INTIA
- Aoiz GN
- Aralar GN
- Arangoiti GN
- Arazuri INTIA
- Artajona MAPAMA

B C D E F G I L M O P S T U V Y

GN: Gobierno de Navarra
MAPAMA: Ministerio de Agricultura y Pesca, Alimentación y Medio Ambiente
INTIA: Instituto Navarro de Tecnologías e Infraestructuras Agroalimentarias
AEMET: Agencia Estatal de Meteorología
UPNA: Universidad Pública de Navarra

Red de estaciones

Datos medios de estaciones del día de ayer

Estación	Dióxido de azufre (µg/m³)	Monóxido de carbono (mg/m³)	Dióxido de nitrógeno (µg/m³)	Partículas en suspensión < 10 µm (µg/m³)	Ozono (µg/m3)
Alsasua	4	0,4	13	22	79
Funes	5	0,2	4	18	100
Leitza	3	0,5	5	29	62
Olite	- -	- -	7	19	98
Pamplona - Iturrama	4	0,1	8	15	94
Pamplona - Plaza de la Cruz	4	0,5	22	19	70
Pamplona - Rotxapea	- -	- -	6	24	94
Sangüesa	4	- -	7	23	95
Tudela	5	0,2	5	14	105

Estaciones de medición y control en Navarra

Obtenga información actualizada de las estaciones de la red de control de la calidad del aire.

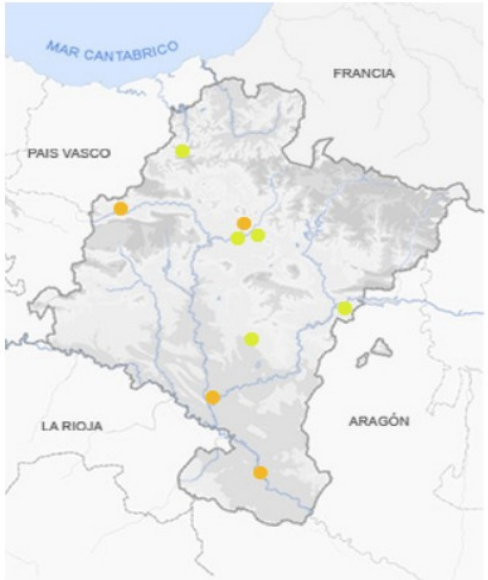
Los datos que se pueden consultar están pendientes de validación, y por tanto pueden no ser correctos.

- Red
- Datos

Ozono troposférico

- Umbral de información superaciones en el año actual
- Máximo de las medidas octohorarias del día. Superaciones en el año actual
- Más información

Situación de estaciones 10/07/2018 16:00



* Pase el ratón sobre cada localidad para ver los últimos valores medidos" La imagen muestra el Índice de Calidad del Aire, según la siguiente leyenda Más información

- Excelente
- Satisfactoria
- Aceptable
- Baja
- Deficiente
- Muy deficiente

Datos según el horario solar

ver datos en tiempo real

TRANSPARENCIA

Información requerida por la ley 19/2013 de 9 de diciembre, de transparencia, acceso a la información pública y buen gobierno

A. Información institucional, organizativa, de planificación y de ejecución

1. Funciones
2. Estructura organizativa y organigrama actualizado
3. Responsables de las áreas
4. Planes y programas anuales y plurianuales
5. Cartas de servicios e indicadores de cumplimiento
6. Memorias municipales
7. Información sobre el cumplimiento de la calidad de los servicios públicos
8. Información sobre el presupuesto y el destino de las principales partidas presupuestarias

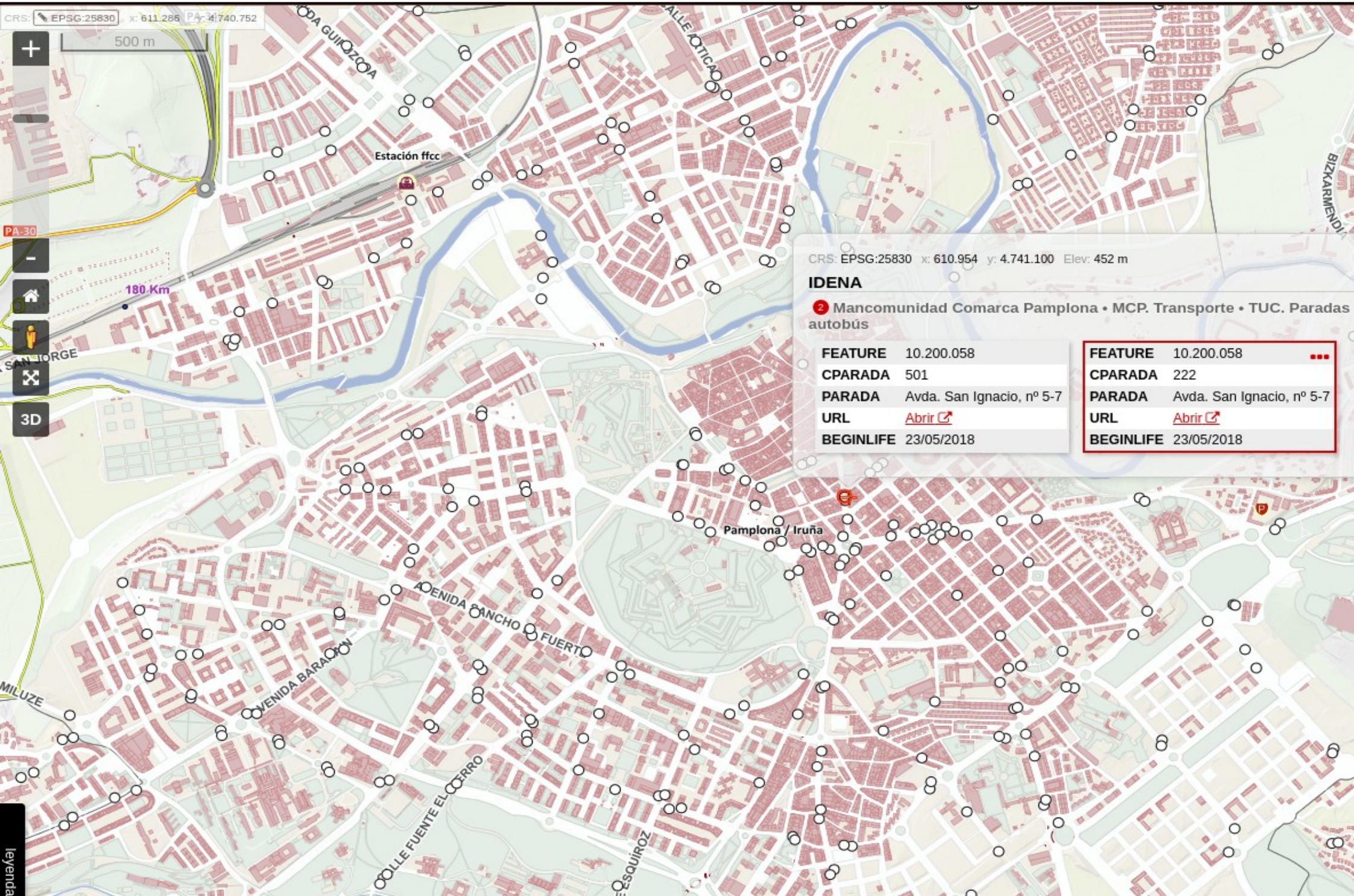
B. Información jurídica

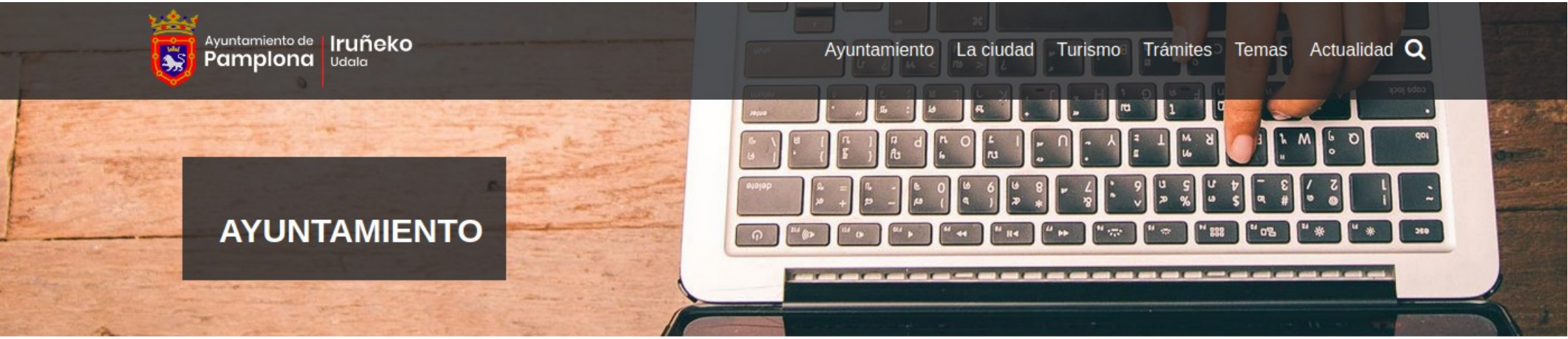
1. Normativa
2. Tablón de edictos electrónicos
3. Sentencias referidas a la actividad del Ayuntamiento

C. Información económica y presupuestaria

1. Patrimonio municipal
2. Contratos
3. Convenios
4. Subvenciones y ayudas públicas concedidas
5. Presupuestos
6. Estados de ejecución
7. Cumplimientos de objetivos de estabilidad presupuestaria. Última información publicada: 2014
8. Liquidación del presupuesto y cuenta general. Última información publicada: 2014
9. Retribuciones percibidas por los concejales
10. Retribuciones percibidas por los altos cargos
11. Resoluciones de autorización o reconocimiento de compatibilidad
12. Declaraciones anuales de bienes y actividades de concejales
13. Declaraciones anuales de bienes y actividades de cargos de libre designación

idena Infraestructura de Datos Espaciales de Navarra





AYUNTAMIENTO > **OPEN DATA**

RESULTADO DE LA BÚSQUEDA

Datos padronales por pais de origen, sexo y edad 2010-2015

Datos padronales de Pamplona ordenados por pais de nacimiento, sexo y edad del año 2010 a 2015 a fecha 1 de Enero

CSV XLS

Datos padronales por barrio, sexo y edad 2010-2015

Datos padronales de Pamplona ordenados por barrio, sexo y edad del año 2010 a 2015 a fecha 1 de Enero

CSV XLS

Datos de padrón por titulación sexo y edad 2010-2015

Datos padronales de Pamplona ordenados por titulación, sexo y edad del año 2010 a 2015 a fecha 1 de Enero

CSV XLS

Datos padronales por Nacionalidad, sexo y edad 2010-2015

Datos padronales de Pamplona ordenados por nacionalidad, sexo y edad del año 2010 a 2015 a fecha 1 de Enero

CSV XLS

NUEVOS FICHEROS

- Contratos 2020
- Actas Mesas de Contratación (2020)
- Contratos > 200.000 (2020)
- Contratos de Obras Públicas (2020)
- Subvenciones aprobadas durante el año 2020

BUSCAR INFORMACIÓN

Buscar

Búsqueda avanzada

Catálogo completo de ficheros

TÉRMINOS DE USO

BUZÓN DE SUGERENCIAS

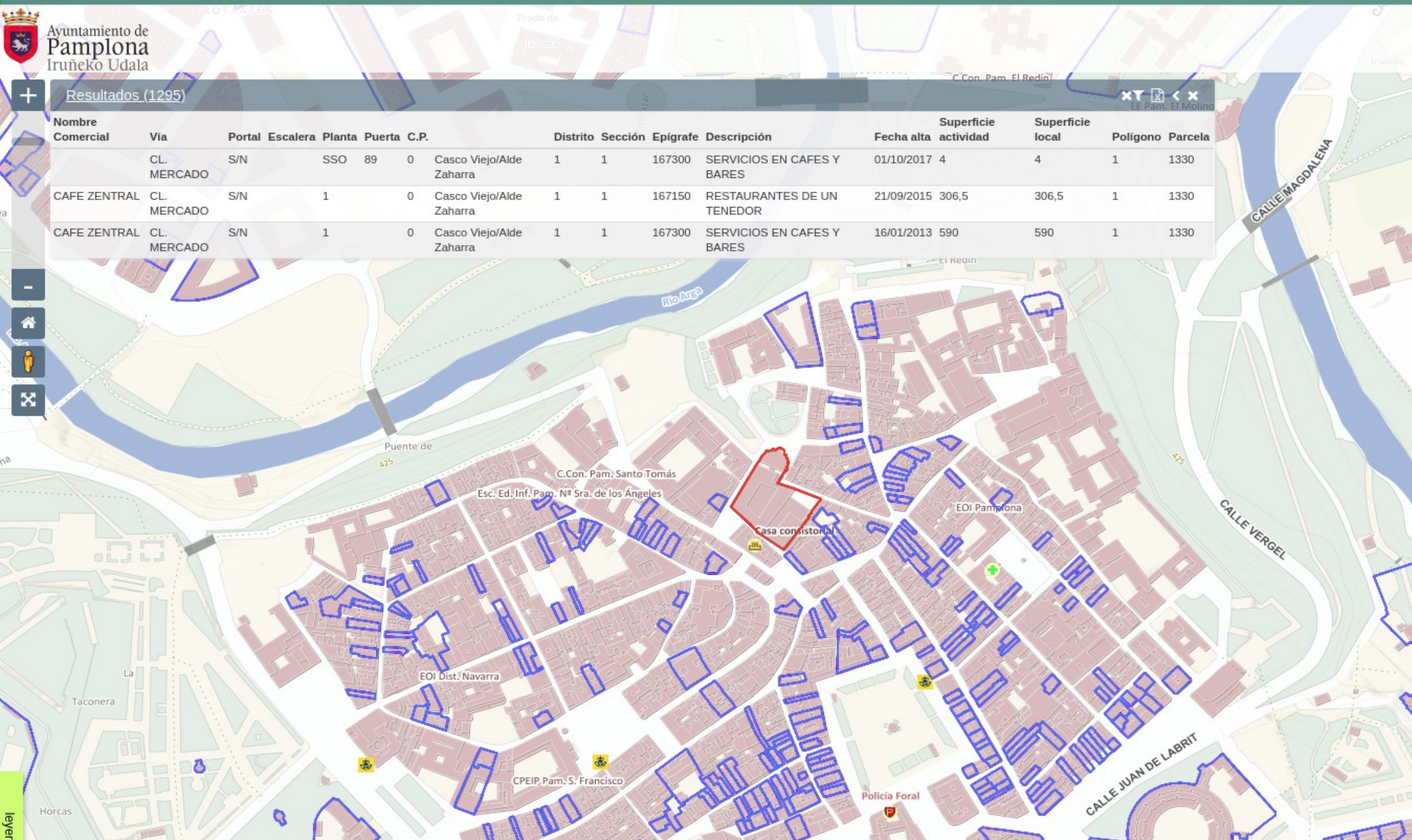
https://opendata.pamplona.es

IRUSKAN Pamplona en un click Iruña klik batean

Ayuntamiento de Pamplona
Iruñeko Udala

Resultados (1295)

Nombre Comercial	Vía	Portal	Escalera	Planta	Puerta	C.P.		Distrito	Sección	Epígrafe	Descripción	Fecha alta	Superficie actividad	Superficie local	Polígono	Parcela
	CL. MERCADO	S/N		SSO	89	0	Casco Viejo/Alde Zaharra	1	1	167300	SERVICIOS EN CAFES Y BARES	01/10/2017	4	4	1	1330
CAFE ZENTRAL	CL. MERCADO	S/N		1		0	Casco Viejo/Alde Zaharra	1	1	167150	RESTAURANTES DE UN TENEDOR	21/09/2015	306,5	306,5	1	1330
CAFE ZENTRAL	CL. MERCADO	S/N		1		0	Casco Viejo/Alde Zaharra	1	1	167300	SERVICIOS EN CAFES Y BARES	16/01/2013	590	590	1	1330



Cifras oficiales de población resultantes de la revisión del Padrón municipal a 1 de enero

Resumen por comunidades autónomas

Población por comunidades y ciudades autónomas y sexo.

Unidades: Personas

Seleccione valores a consultar

Comunidades y Ciudades Autónomas	Sexo	Periodo
Total	Total	2002
01 Andalucía	Hombres	2001
02 Aragón	Mujeres	2000
03 Asturias, Principado de		1999
04 Balears, Illes		1998
05 Canarias		1997
06 Cantabria		1996
Seleccionados: 19 Total: 20	Seleccionados: 1 Total: 3	Seleccionados: 24 Total: 24

Elija forma de presentación de la tabla

	Sexo		
	Periodo		
	.	.	.
Comunidades y Ciudades Autónomas	.	.	.
	.	.	.

Decimales a mostrar: Por defecto

Notas (2)

Total: 19 series y 456 datos

Consultar selección | Consultar todo

Google

spain

Fecha de actualización | Formato de descarga | Derechos de uso | Gratis

Life Expectancy at Birth, Total for Spain
fred.stlouisfed.org
Última actualización: May 3, 2019

Spain Real Residential Property Price Index
www.ceicdata.com

International tourist arrivals in Spain 2019, by country of residence
www.statista.com
Última actualización: Feb 7, 2020

Spain - Aid Effectiveness
data.humdata.org
data.world
Última actualización: Jan 29, 2020

Fertility Rate, Total for Spain
fred.stlouisfed.org
Última actualización: May 3, 2019

El proveedor ha indicado que el acceso a su conjunto de datos puede ser de pago.

statista

International tourist arrivals in Spain 2019, by country of residence

Ver en www.statista.com

Fecha de actualización del conjunto de datos Feb 7, 2020

Conjunto de datos proporcionado por

Statista

Periodo abarcado

2019

Área abarcada

Spain

Descripción

Spain ranked second on the World Tourism Organization's list of most visited countries in the world, with its number of international visitors amounting to nearly 89.4 million in 2018. The Mediterranean country is one of Europe's favorite holiday destinations in 2019 - the United Kingdom, Germany and France appeared in the leading positions of the largest number of international visitors to Spain by country, as confirms the data collected from the Spanish Statistics Institute (INE).

The United Kingdom: a key tourism source market

According to the most recent data, the United Kingdom was the main country of origin of Spain's tourists in the past few years, with the number of tourists that originally reside on the British Isles growing by 6 million since 2010. Despite the fact that the average British visitor has been cutting down the length of their stay during recent years, the daily expenditure by tourists/visitors experienced a sharp increase and reached an average of 127 euros per person in 2018.

Tourism constitutes an essential industry for the Spanish economic system

https://datasetsearch.research.google.com

https://www.youtube.com/watch?v=OM6XllCm_qo

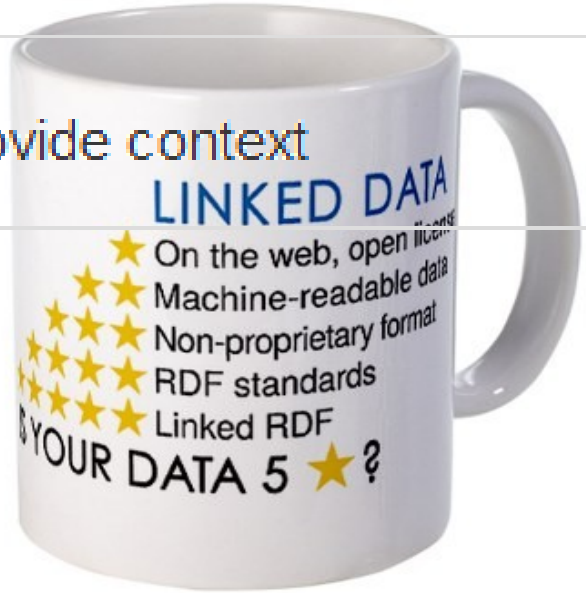
★ make your stuff available on the web (whatever format)

★★ make it available as structured data (e.g. excel instead of image scan of a table)

★★★ non-proprietary format (e.g. csv instead of excel)

★★★★ use URLs to identify things, so that people can point at your stuff

★★★★★ link your data to other people's data to provide context



open data is about MORE THAN DISCLOSURE it must be "Fair"

- Findable
- Accessible
- Interoperable
- Reusable

What is FAIR DATA?

Data and supplementary materials have sufficiently rich metadata and a unique and persistent identifier.

FINDABLE

Metadata and data are understandable to humans and machines. Data is deposited in a trusted repository.

ACCESSIBLE

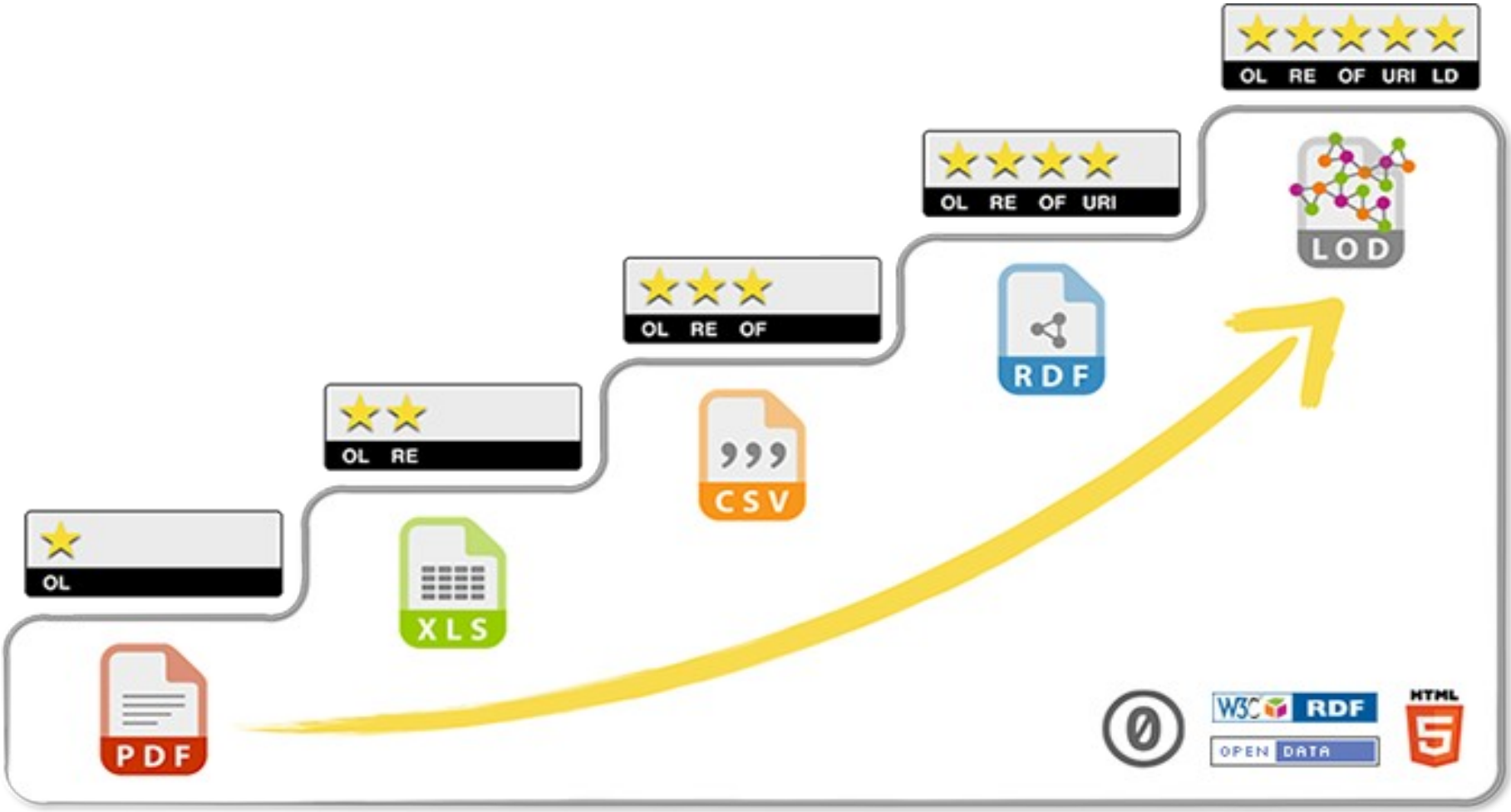
Metadata use a formal, accessible, shared, and broadly applicable language for knowledge representation.

INTEROPERABLE

Data and collections have a clear usage licenses and provide accurate information on provenance.

REUSABLE

How to publish Open Data?



5-Star Linking Open Data Scheme

Resultados de las elecciones al Parlamento de Navarra 2019 agrupados por mesas electorales

DESCRIPCIÓN

Resultados definitivos de las elecciones celebradas el año 2019 agrupados por cada mesa electoral. Se incluye merindad, código de municipio, distrito, sección, mesa (distrito, sección, mesa), censo, participación, abstención, votos válidos, etc. así como los datos que obtuvo cada uno de los partidos políticos (votos y porcentaje).
El código de municipio 990 corresponde al registro de residentes ausentes.
Contiene línea de totales.

FICHA TÉCNICA

> **TEMA:** Administración pública

> **CATEGORÍA:** Elecciones

> **DEPARTAMENTO:** Departamento de Presidencia, Función Pública, Interior y Justicia

> **LUGAR:** Navarra

> **LICENCIA:** Creative Commoms by 4.0

> **FECHA DE CREACIÓN:** 11/06/2019

> **FECHA DE ACTUALIZACIÓN:** 11/06/2019

> **FRECUENCIA DE ACTUALIZACIÓN:** Datos inamovibles

> **ETIQUETAS:** Elecciones, Navarra

Envíanos tu opinión. Comenta este conjunto de datos

DESCARGAS

- XML — eXtensible Markup Language
- JSON — JavaScript Object Notation
- CSV — Comma-separated values
- ODS — OpenDocument Spreadsheet
- XLS — Microsoft Office Excel

Síguenos en Twitter @opendata_na

Suscríbete a los cambios de Open Data

*.xlsx

	A	B	C	D	E	F	G	H	I
1	Codcir	Codmun	Municipio	Mesa	Censo	Certif. Alta	Certif. Correc.	Censo Total	Votos Electores
2	31	1	Abáigar	1-001 -U	80	0	0	80	59
3	31	2	Abárzuza / Abartzuza	1-001 -U	431	0	0	431	290
4	31	3	Abaurregaina / Abaurrea Alta	1-001 -U	117	0	0	117	94
5	31	4	Abaurrepea / Abaurrea Baja	1-001 -U	32	0	0	32	29
6	31	5	Aberin	1-001 -U	281	0	0	281	177
7	31	6	Ablitas	1-001 -A	445	0	0	445	326
8	31	6	Ablitas	1-001 -B	451	0	0	451	341
9	31	6	Ablitas	2-001 -A	495	0	0	495	412
10	31	6	Ablitas	2-001 -B	481	0	0	481	399
11	31	7	Adiós	1-001 -U	126	0	0	126	96
12	31	8	Aguilar de Codés	1-001 -U	64	0	0	64	52
13	31	9	Aibar / Oibar	1-001 -U	669	0	0	669	501
14	31	11	Allín / Allin	1-001 -A	207	0	0	207	165
15	31	11	Allín / Allin	1-001 -B	245	0	0	245	181
16	31	11	Allín / Allin	1-001 -C	252	0	0	252	182
17	31	12	Allo	1-001 -U	765	0	0	765	558
18	31	10	Altsasu / Alsasua	1-001 -A	753	0	0	753	550
19	31	10	Altsasu / Alsasua	1-001 -B	728	0	0	728	517

*.csv

```
Codcir;Codmun;Municipio;Mesa;Censo;Certif. Alta;Certif. Correc.;Censo Total;Votos Totales...
31;1;Abáigar;1-001 -U;80;0;0;80;59;0;59;0;0;18;10;0;4;19;0;0;0;1;0;7
31;2;Abárzuza / Abartzuza;1-001 -U;431;0;0;431;290;0;290;1;3;99;45;4;37;71;1;3;0;2;0;24
31;3;Abaurregaina / Abaurrea Alta;1-001 -U;117;0;0;117;94;0;94;0;1;21;33;1;12;21;2;0;0;0;0;3
31;4;Abaurrepea / Abaurrea Baja;1-001 -U;32;0;0;32;29;0;29;0;0;13;6;0;5;4;0;0;0;0;0;1
31;5;Aberin;1-001 -U;281;0;0;281;177;0;177;2;2;75;23;3;36;22;0;1;0;2;1;10
31;6;Ablitas;1-001 -A;445;0;0;445;326;0;326;5;4;134;9;10;133;20;0;5;0;0;0;6
31;6;Ablitas;1-001 -B;451;0;0;451;341;0;341;3;0;143;8;10;143;10;0;10;2;1;0;11
31;6;Ablitas;2-001 -A;495;0;0;495;412;0;412;7;6;204;3;8;128;26;0;6;4;1;0;19
31;6;Ablitas;2-001 -B;481;0;0;481;399;0;399;1;5;198;7;8;143;17;0;5;0;1;2;12
```

*.xml

```
<table:table-row table:style-name="ro2">
     <table:table-cell table:style-name="ce2" office:value-type="float"
                        office:value="31" calcext:value-type="float">
      <text:p>31</text:p>
     </table:table-cell>
     <table:table-cell table:style-name="ce2" office:value-type="float"
                       office:value="1" calcext:value-type="float">
      <text:p>1</text:p>
     </table:table-cell>
     <table:table-cell table:style-name="ce2" office:value-type="string"
                       calcext:value-type="string">
      <text:p>Abáigar</text:p>
     </table:table-cell>
     <table:table-cell table:style-name="ce2" office:value-type="string"
                       calcext:value-type="string">
      <text:p>1-001 -U</text:p>
     </table:table-cell>
     <table:table-cell table:style-name="ce5" office:value-type="float"
                       office:value="80" calcext:value-type="float">
      <text:p>80</text:p>
     </table:table-cell>
...
</table:table-row>
```

*.json


```
{
  "Codcir": "31",
  "Codmun": 1,
  "Municipio": "Abáigar",
  "Mesa": "1-001 -U",
  "Censo": 80,
  "Certif. Alta": 0,
  "Certif. Correc.": 0,
  "Censo Total": 80,
  "Votos Electores": 59,
  "Votos Interventores": 0,
  "Votos Totales": 59,
  "Votos Nulos": 0,
  "Votos Blancos": 0,
  "NA+": 18,
  "EH Bildu": 10,
  "I-E (n)": 0,
  "PSN-PSOE": 4,
  "GBAI": 19,
  "SAIN": 0,
  "VOX": 0,
  "EQUO": 0,
  "RCN-NOK": 1,
  "Ln": 0,
  "PODEMOS": 7
}
```

CSVJSON
Sponsored by Flatfile.io

JSON to CSV Tools

Save

CSV Importer • Install in minutes
Works with React, Angular, Vue and more...

Convert your JSON to CSV or TSV formatted data.

1) Copy/paste or upload your JSON to convert it. 2) Choose your separator. 3) For Excel, convert to TSV then copy and paste into Excel. 4) Save your result for later or for sharing.

Upload a JSON file

+ Select a file...

Or paste your JSON here


```
[{"gx_link_reciprocal":"0","gx_link_should":"0","source":0,"target":48,"weight":1
.0},
{"gx_link_reciprocal":"0","gx_link_should":"0","source":0,"target":62,"weight":1.
0},
{"gx_link_reciprocal":"0","gx_link_should":"0","source":0,"target":39,"weight":1.
0},
{"gx_link_reciprocal":"0","gx_link_should":"0","source":0,"target":3,"weight":1.0
},
{"gx_link_reciprocal":"1","gx_link_should":"0","source":0,"target":167,"weight":2
.0},
{"gx_link_reciprocal":"1","gx_link_should":"0","source":0,"target":97,"weight":2.
0},
{"gx_link_reciprocal":"0","gx_link_should":"0","source":0,"target":78,"weight":1.
0},
{"gx_link_reciprocal":"1","gx_link_should":"0","source":0,"target":270,"weight":2
.0},
{"gx_link_reciprocal":"1","gx_link_should":"0","source":0,"target":143,"weight":2
.0},
{"gx_link_reciprocal":"1","gx_link_should":"0","source":0,"target":95,"weight":2,
```


Convert Clear

Options *Hover on option for help*

Separator Comma (CSV) Flatten Output CSVJSON variant

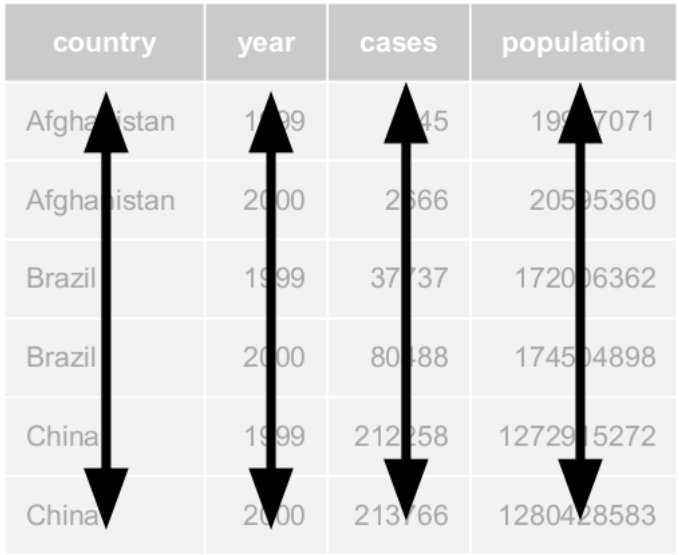
Result


```
"gx_link_reciprocal","gx_link_should","source","target","weight"
"0","0",0,48,1
"0","0",0,62,1
"0","0",0,39,1
"0","0",0,3,1
"1","0",0,167,2
"1","0",0,97,2
"0","0",0,78,1
"1","0",0,270,2
"1","0",0,143,2
"1","0",0,95,2
"1","0",0,222,2
"1","0",0,147,2
"0","0",0,161,1
"1","0",0,163,2
"1","0",0,198,2
"1","0",0,157,2
"0","0",0,160,1
"1","0",0,177,2
```


Download Copy

https://www.csvjson.com/json2csv

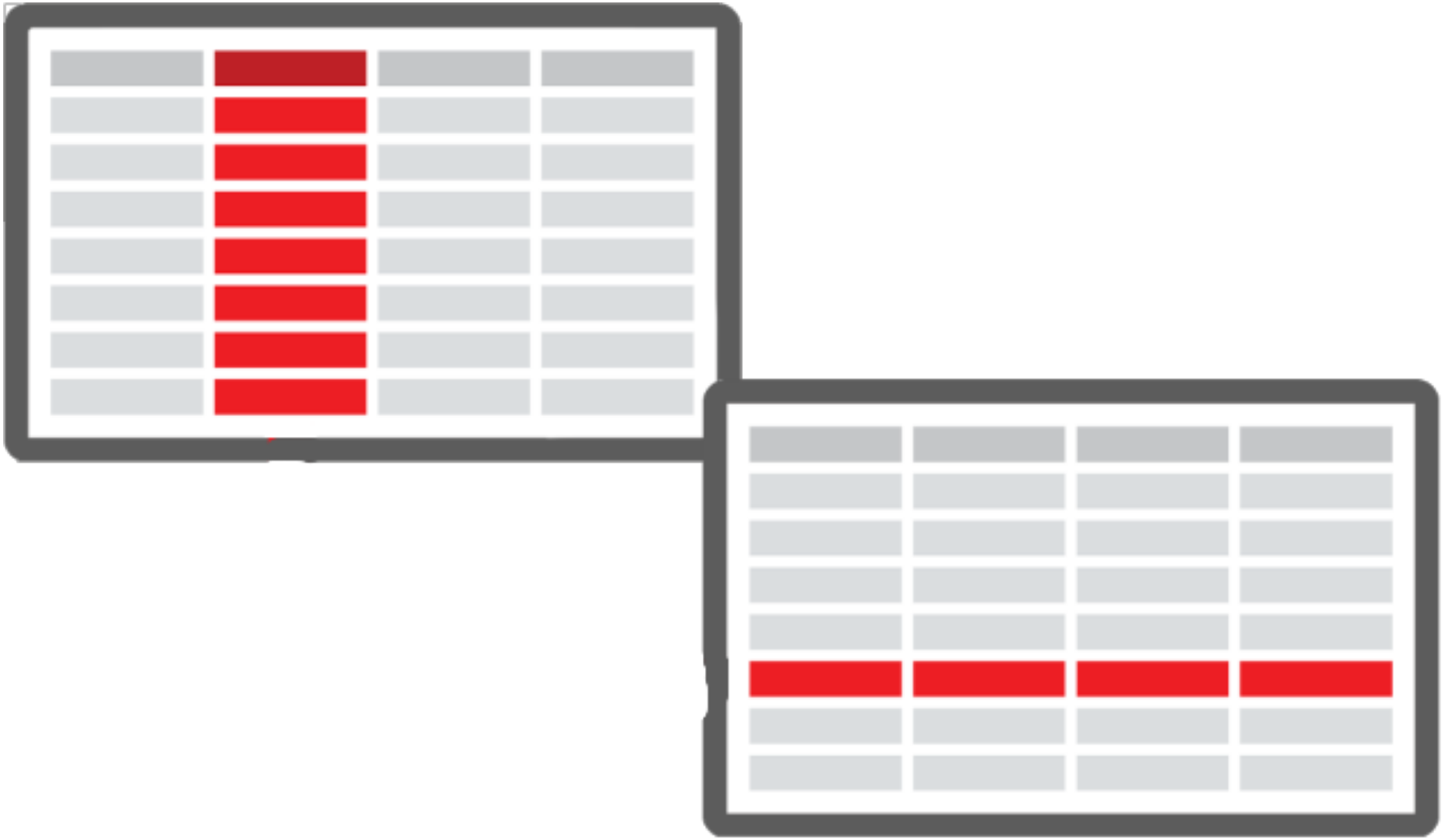
country	year	cases	population
Afghanistan	1999	745	19987071
Afghanistan	2000	2666	20595360
Brazil	1999	37737	172006362
Brazil	2000	80488	174504898
China	1999	212258	1272915272
China	2000	213766	1280428583



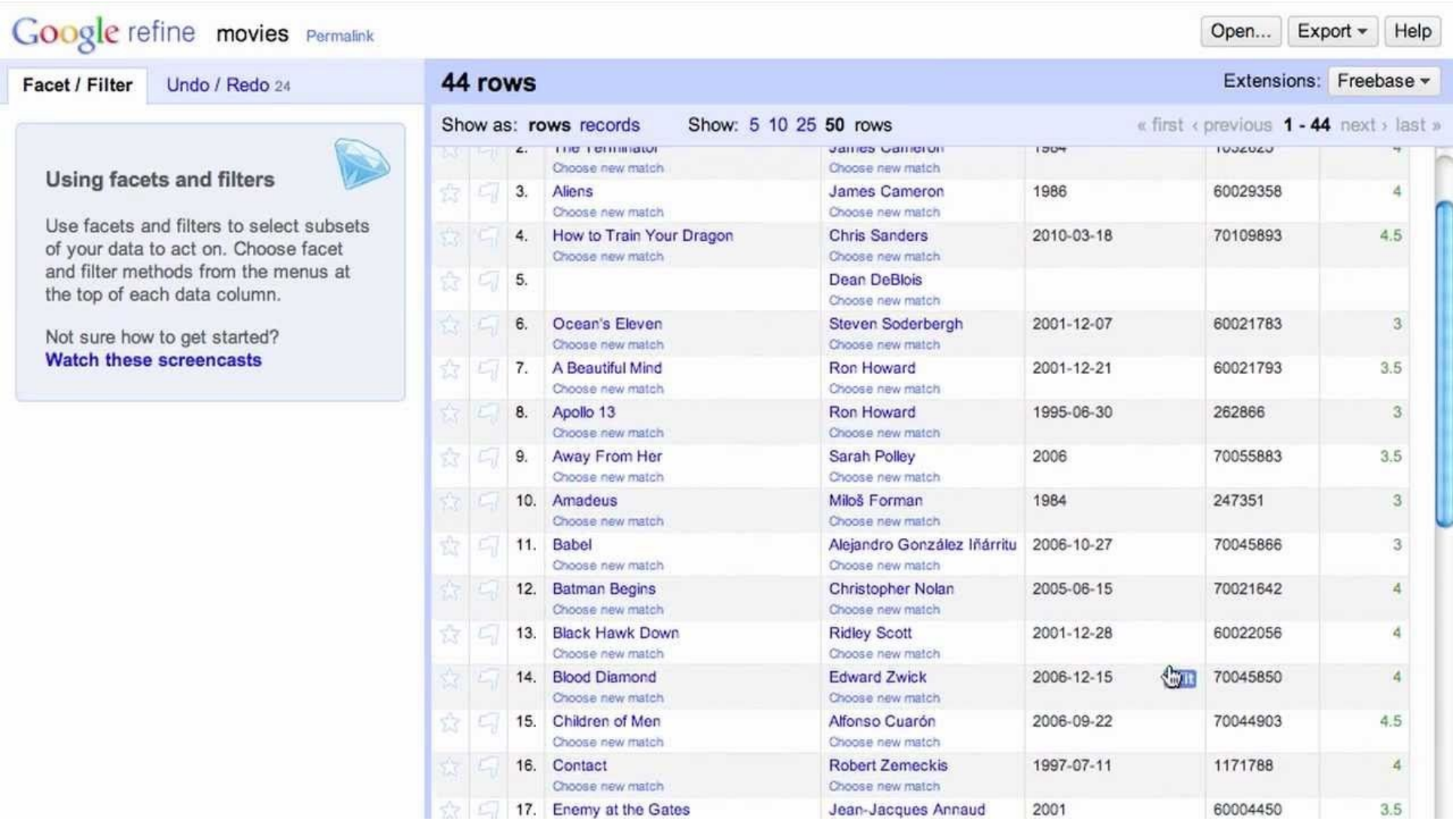
Variables

Observations

pivot/unpivot



OpenRefine



3.	Aliens	James Cameron	1986	60029358	4
4.	How to Train Your Dragon	Chris Sanders	2010-03-18	70109893	4.5
5.		Dean DeBlois			
6.	Ocean's Eleven	Steven Soderbergh	2001-12-07	60021783	3
7.	A Beautiful Mind	Ron Howard	2001-12-21	60021793	3.5
8.	Apollo 13	Ron Howard	1995-06-30	262866	3
9.	Away From Her	Sarah Polley	2006	70055883	3.5
10.	Amadeus	Miloš Forman	1984	247351	3
11.	Babel	Alejandro González Iñárritu	2006-10-27	70045866	3
12.	Batman Begins	Christopher Nolan	2005-06-15	70021642	4
13.	Black Hawk Down	Ridley Scott	2001-12-28	60022056	4
14.	Blood Diamond	Edward Zwick	2006-12-15	70045850	4
15.	Children of Men	Alfonso Cuarón	2006-09-22	70044903	4.5
16.	Contact	Robert Zemeckis	1997-07-11	1171788	4
17.	Enemy at the Gates	Jean-Jacques Annaud	2001	60004450	3.5

♥ grep ♥

Julia Evans
@b0rk

grep lets you search files for text

```
$ grep bananas foo.txt
```

Here are some of my favourite grep command line arguments!

-E aka egrep

Use if you want regexps like ".+" to work. otherwise you need to use ".\+"

-r

recursive! Search all the files in a directory.

-v

invert match: find all lines that don't match

-o

only print the matching part of the line (not the whole line)

-i

case insensitive

-l

only show the filenames of the files that matched

-a

search binaries: treat binary data like it's text instead of ignoring it!

-A **-B** **-C**

Show context for your search.

```
$ grep -A 3 foo
```

will show 3 lines of context after a match

-F

don't treat the match string as a regex

eg `$ grep -F ...`

grep alternatives

ack ag ripgrep

(better for searching code!)

sed

Julia Evans
@b0rk

sed is most often used for replacing text in a file

```
$ sed s/foo/bar/g file.txt
```

can be a regular expression

change a file in place with -i

some more sed incantations...

sed -n 12 p

print 12th line

-n suppresses output so only what you print with 'p' gets printed

sed 5d

delete 5th line

sed /foo/d

delete lines matching /foo/

sed -n 5,30 p

print lines 5-30

sed s#foo#bar#

can be any character

use # as a regex delimeter

sed -n s/foo/bar/p

only print changed lines

sed G

double space a file (good for long error lines)

sed '/foo/a bar'

append 'bar' after lines containing 'foo'

sed 'i 17 panda'

insert "panda" on line 17

awk

JULIA EVANS
@b0rk

awk is a tiny programming language for manipulating columns of data

I only know how to do 2 things with awk but it's still useful!

basic awk program structure

```
BEGIN { ... }
CONDITION {action}
CONDITION {action}
END {...}
```

do action on lines matching CONDITION

extract a column of text with awk

```
awk -F, '{print $5}'
```

column separator

single quotes!

print the 5th column

this is 99% of what I do with awk

SO MANY unix commands print columns of text (ps! ls!)

so being able to get the column you want with awk is GREAT

A few more awk programs ↗

sum the numbers in the 3rd column

action

```
{s += $3}
END {print s}
```

at the end, print the sum!

print every line over 80 characters

```
length($0) > 80
```

condition

(there's an implicit {print} as the action)

División Administrativa. Límites catastrales de los municipios de Navarra actuales

DESCRIPCIÓN

Capa informativa de polígonos con la delimitación catastral de los municipios de Navarra actual.

FICHA TÉCNICA

> **TEMA:** Territorio y urbanismo, Territorio y urbanismo

> **CATEGORÍA:** Geográfica / cartográfica

> **DEPARTAMENTO:** Otros órganos

> **LUGAR:** Navarra

> **LICENCIA:** Creative Commoms by 4.0

> **FECHA DE CREACIÓN:** 30/12/2010

> **FECHA DE ACTUALIZACIÓN:** 24/06/2019

> **FRECUENCIA DE ACTUALIZACIÓN:** Según necesidad

Envíanos tu opinión. Comenta este conjunto de datos

DESCARGAS

SHP Shapefile

Síguenos en Twitter @opendata_na

Suscríbete a los cambios de Open Data

*.shp

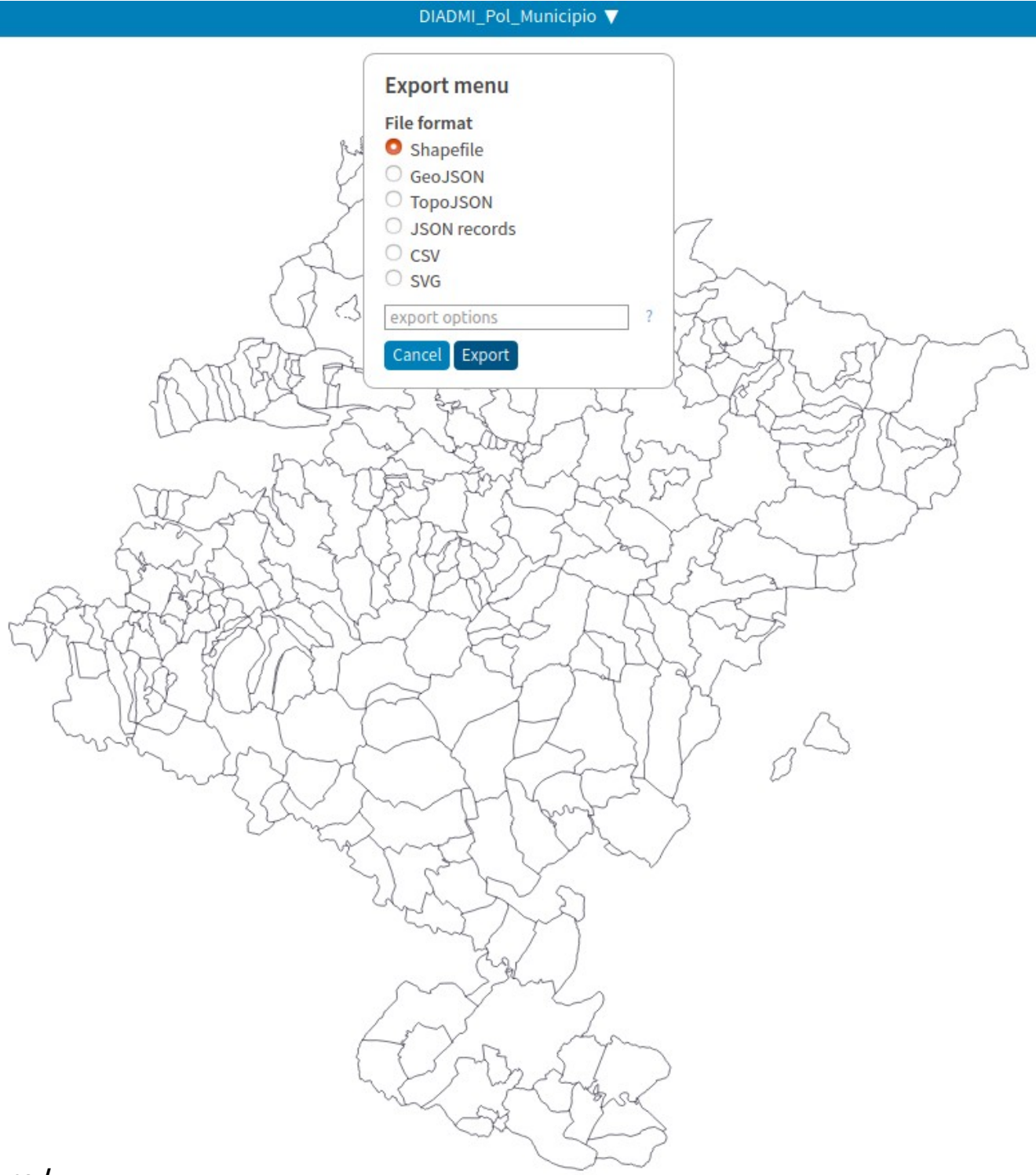
```
unzip MEMHCA_Sym_Fosas.zip
Archive:  MEMHCA_Sym_Fosas.zip
  inflating: MEMHCA_Sym_Fosas.dbf
  inflating: MEMHCA_Sym_Fosas.prj
  inflating: MEMHCA_Sym_Fosas.shp
  inflating: MEMHCA_Sym_Fosas.shx
```

MEMHCA_Sym_Fosas.prj


```
PROJCS["ETRS89 / UTM zone
30N",GEOGCS["ETRS89",DATUM["European_Terrestrial_Reference_System_1989",SPHEROID["GRS
1980",6378137,298.257222101,AUTHORITY["EPSG","7019"]],AUTHORITY["EPSG","6258"]],PRIMEM["Gre
enwich",0,AUTHORITY["EPSG","8901"]],UNIT["degree",0.01745329251994328,AUTHORITY["EPSG","912
2"]],AUTHORITY["EPSG","4258"]],UNIT["metre",1,AUTHORITY["EPSG","9001"]],PROJECTION["Transve
rse_Mercator"],PARAMETER["latitude_of_origin",0],PARAMETER["central_meridian",-
3],PARAMETER["scale_factor",0.9996],PARAMETER["false_easting",500000],PARAMETER["false_nort
hing",0],AUTHORITY["EPSG","25830"],AXIS["Easting",EAST],AXIS["Northing",NORTH]]
```

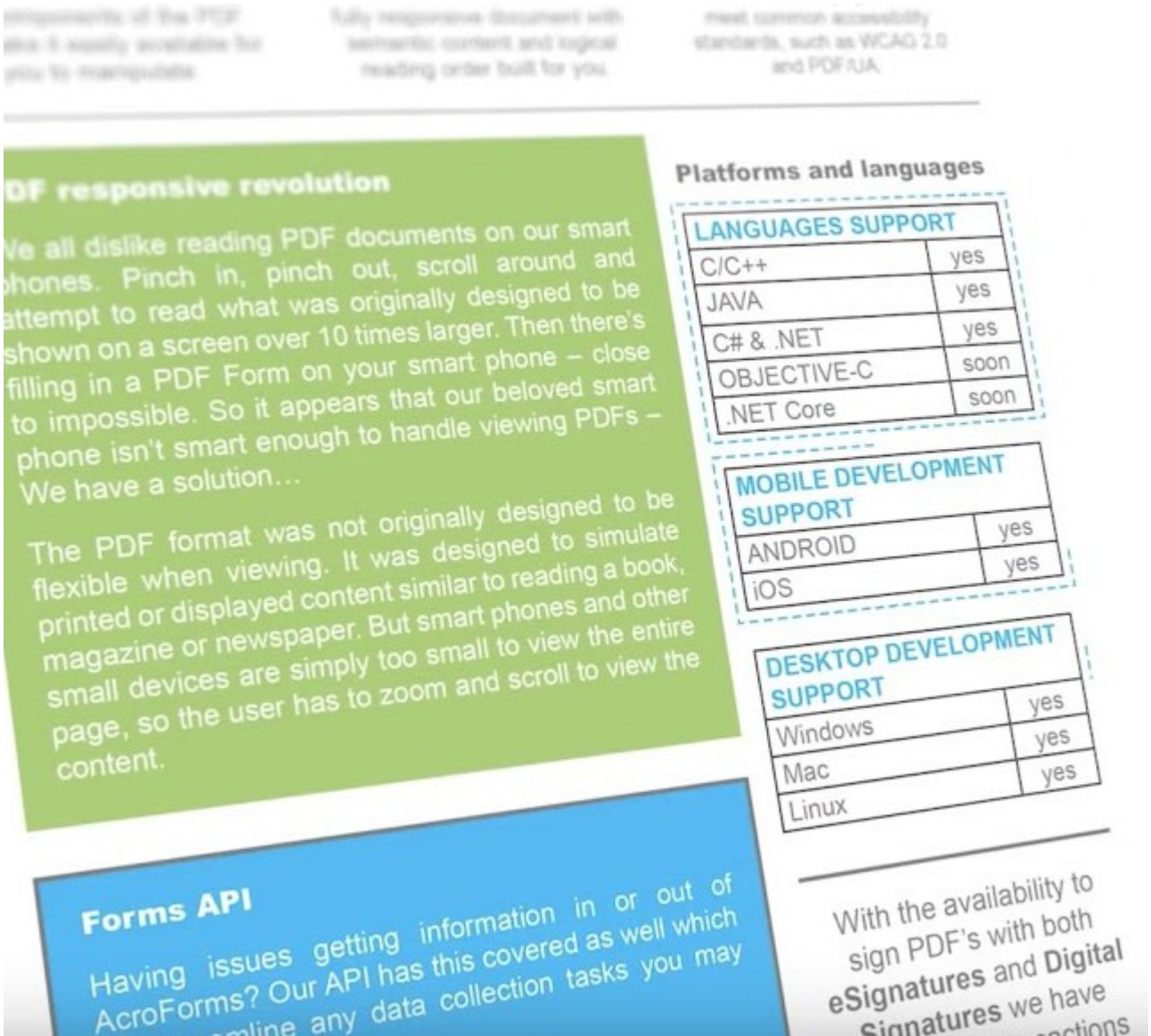
*.json, *.geojson, *.topojson


```
"FeatureCollection"
[
  {
    "type": "Feature",
    "geometry": {
      "type": "Point",
      "coordinates": [
        580388.2073999997,
        4721926.0122
      ]
    },
    "properties": {
      "FEATURE": 50200001,
      "CLUGAR": 31,
      "LUGAR": "Fosa del Caserío de Echávarri",
      "TIPO": "Intervenida",
      "UBICACION": "La fosa podría ubicarse junto en las proximidades al
                    Caserío de Echávarri, en la carretera NA-122 que va
                    de Estella a Aberin.",
      "FECHASUCE": "",
      "URL": "http://fosas.navarra.es/?idfosa=31",
      "NUMVICTIMA": 8,
      "MUNICIPIO": "Estella-Lizarra",
      "RADIO": 250,
      "BEGINLIFE": "30/11/2019"
    }
  },
…
]
```



https://mapshaper.org/

*.pdf



components of the PDF are easily available for you to manipulate

fully responsive document with semantic content and logical reading order built for you

meet common accessibility standards, such as WCAG 2.0 and PDF/UA

DF responsive revolution

We all dislike reading PDF documents on our smart phones. Pinch in, pinch out, scroll around and attempt to read what was originally designed to be shown on a screen over 10 times larger. Then there's filling in a PDF Form on your smart phone – close to impossible. So it appears that our beloved smart phone isn't smart enough to handle viewing PDFs – We have a solution…

The PDF format was not originally designed to be flexible when viewing. It was designed to simulate printed or displayed content similar to reading a book, magazine or newspaper. But smart phones and other small devices are simply too small to view the entire page, so the user has to zoom and scroll to view the content.

Platforms and languages

LANGUAGES SUPPORT	
C/C++	yes
JAVA	yes
C# & .NET	yes
OBJECTIVE-C	soon
.NET Core	soon

MOBILE DEVELOPMENT SUPPORT	
ANDROID	yes
iOS	yes

DESKTOP DEVELOPMENT SUPPORT	
Windows	yes
Mac	yes
Linux	yes

Forms API

Having issues getting information in or out of AcroForms? Our API has this covered as well which streamline any data collection tasks you may

With the availability to sign PDF's with both **eSignatures** and **Digital Signatures** we have

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Import one or more PDFs

Browse… Import

Imported PDFs

File Name	Size	Pages	Date Added	Remove	Process
20200210-sitrep-21-ncov.pdf	932 kB	6	11 Feb 2020 22:49	✖	Extract Data

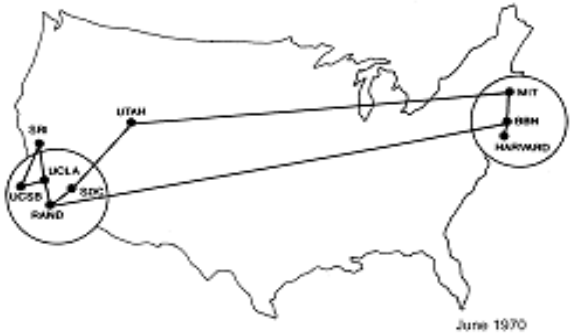
If you have several PDFs with the same layout, you can select the appropriate regions once, then save the selections as a Tabula Template from the Select Tables page. If someone has shared a template with you, you can upload it to Tabula at the My Templates page.

https://tabula.technology/

La web

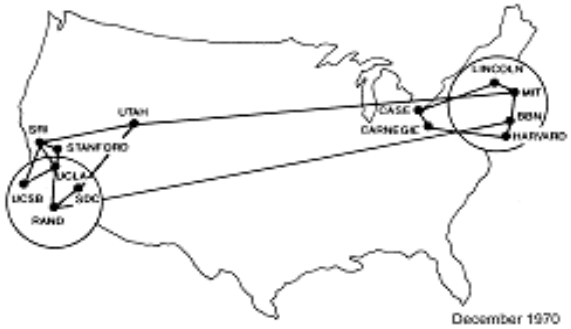
ARPANET goes online with 4 nodes (1969)

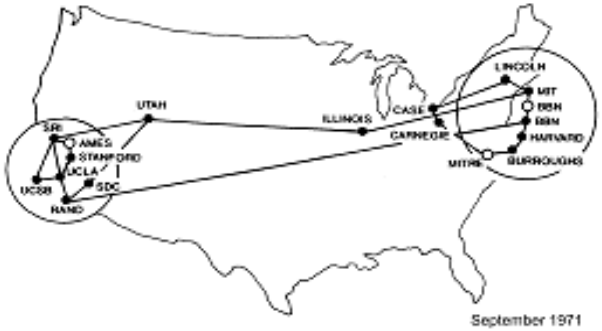
Dec 1969



June 1970

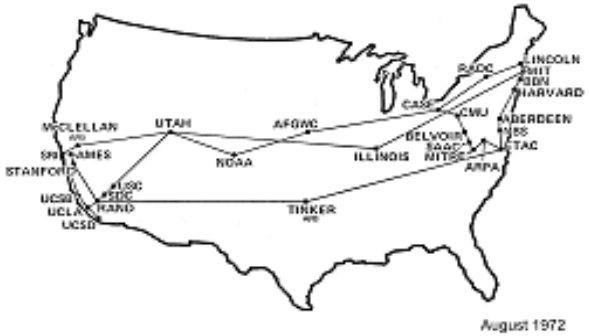
Dec 1970





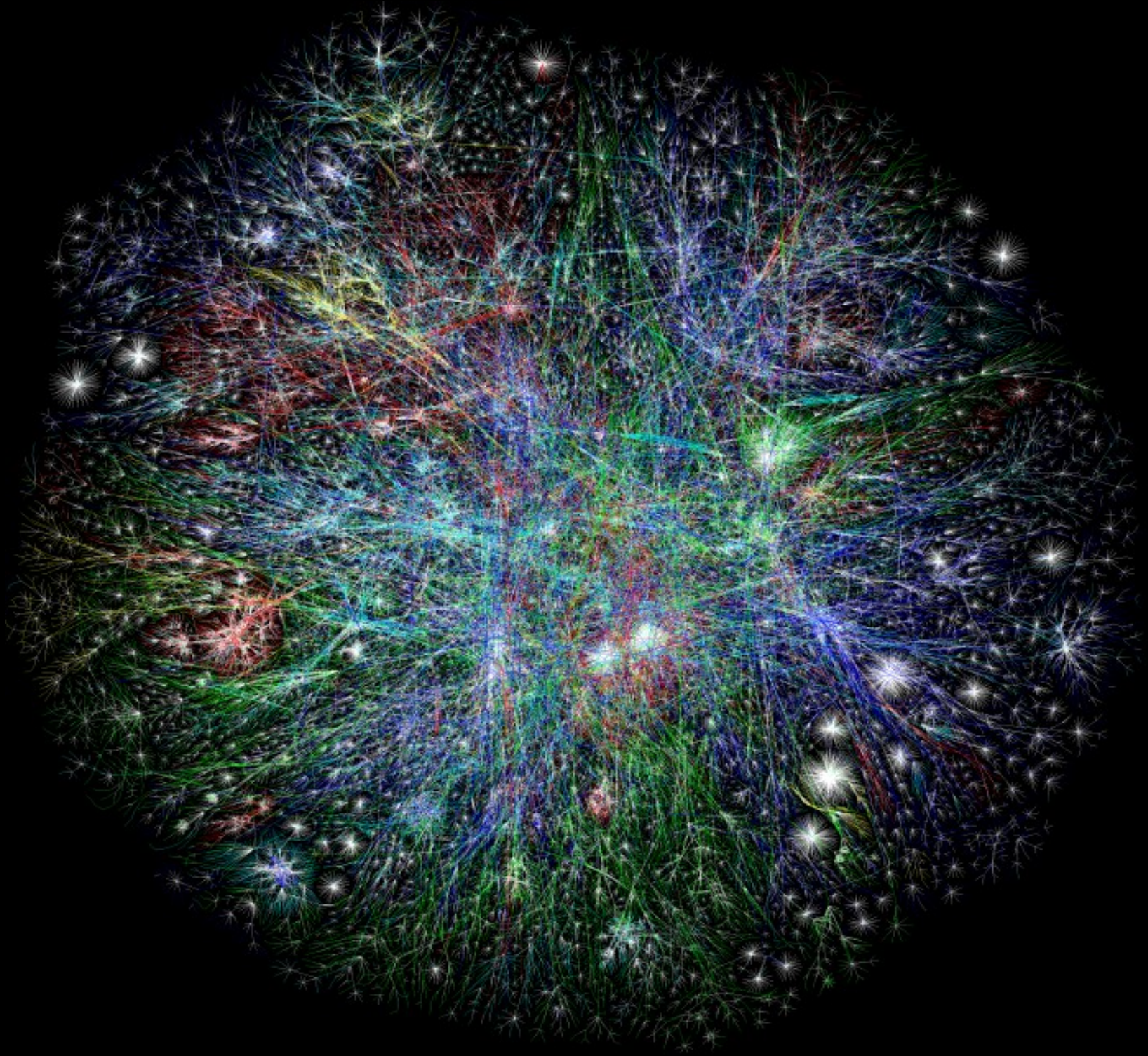
Sept 1971

Aug 1972



June 1975

http://www.mappingcyberspace.com/gallery/figure1_2.html



A Minute on the Internet in 2019

Estimated data created on the internet in one minute

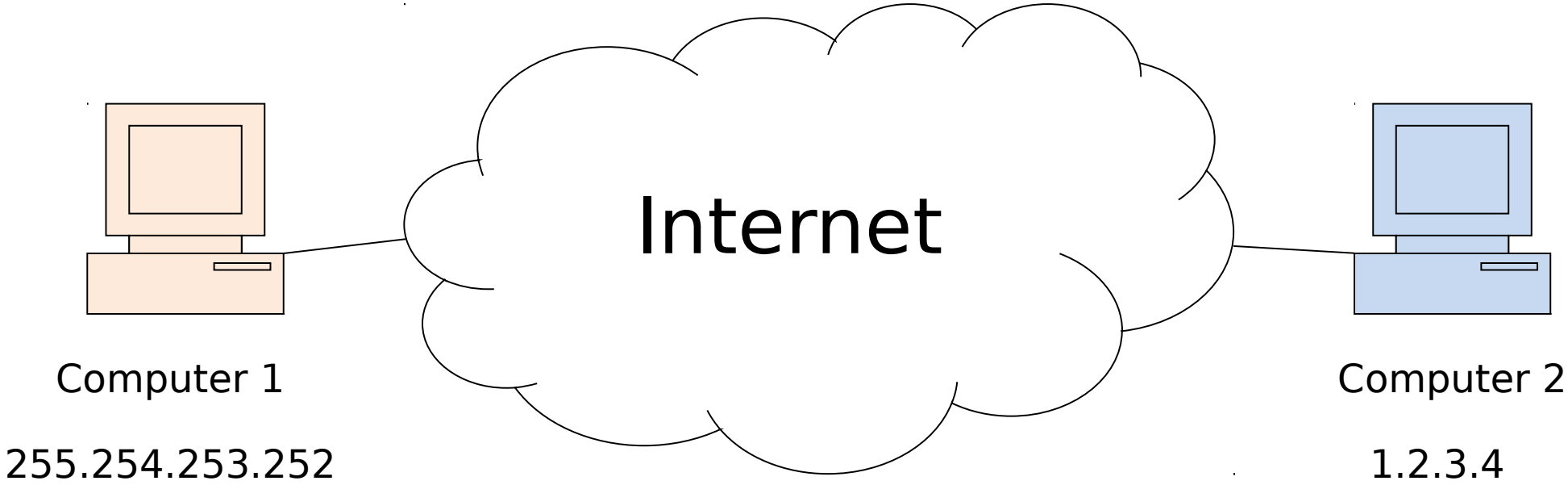
@StatistaCharts

Sources: Lori Lewis & Officially Chad via Visual Capitalist

statista

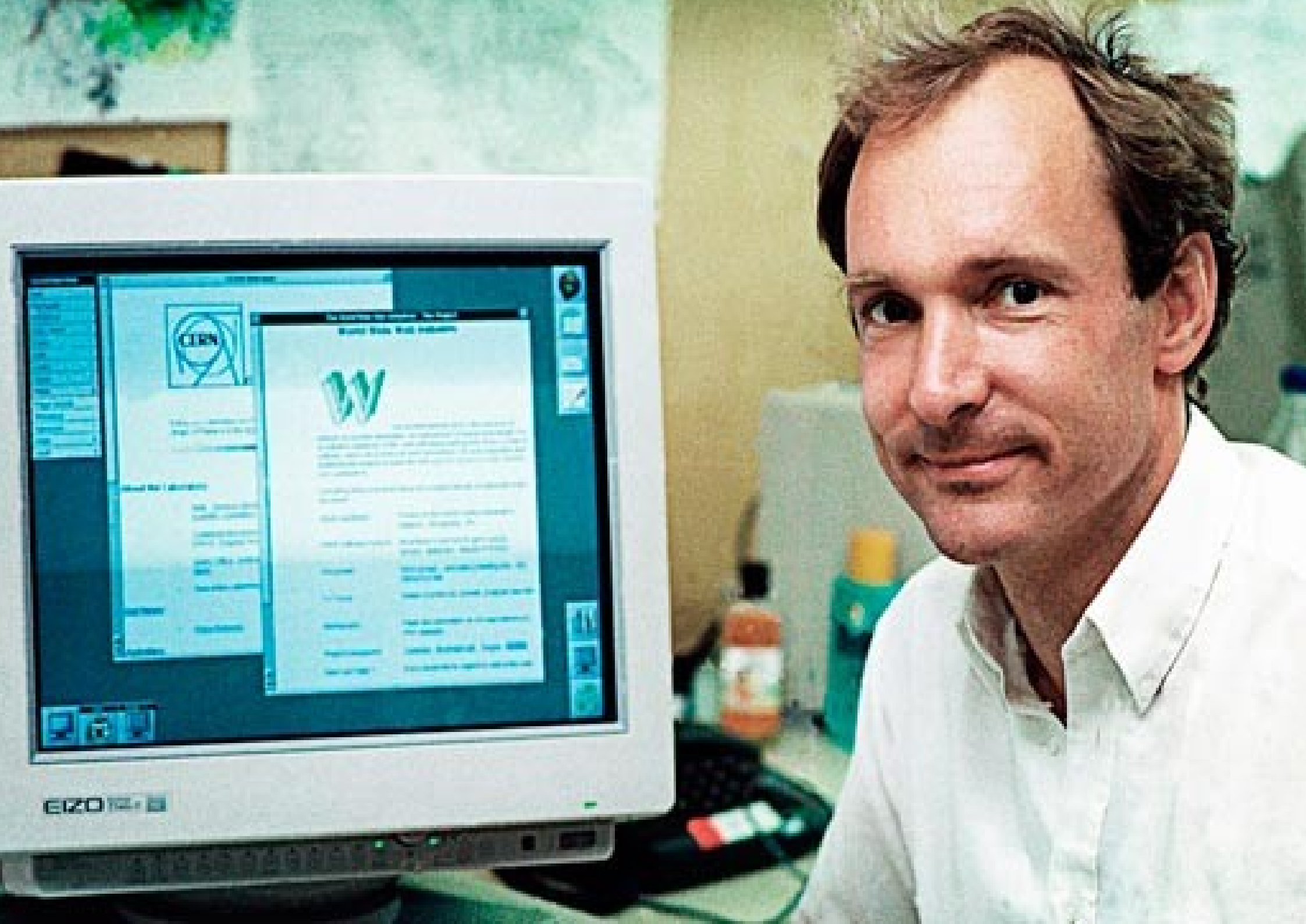
“The **Internet** is a global system of interconnected computer networks that use the standard Internet Protocol Suite (TCP/IP) to serve billions of users worldwide.”

http://en.wikipedia.org/wiki/Internet



Internet Protocol Suite

- **Internet Protocol (IP)**: directs packets to a specific computer using an IP address
- **Transmission Control Protocol (TCP)**: directs packets to a specific application on a computer using a port number.
  - Common port numbers:
    - 22 – ssh
    - 23 – telnet
    - 25 – email
    - 80 – Web


CERN
W
EIZO

World Wide Web (WWW)

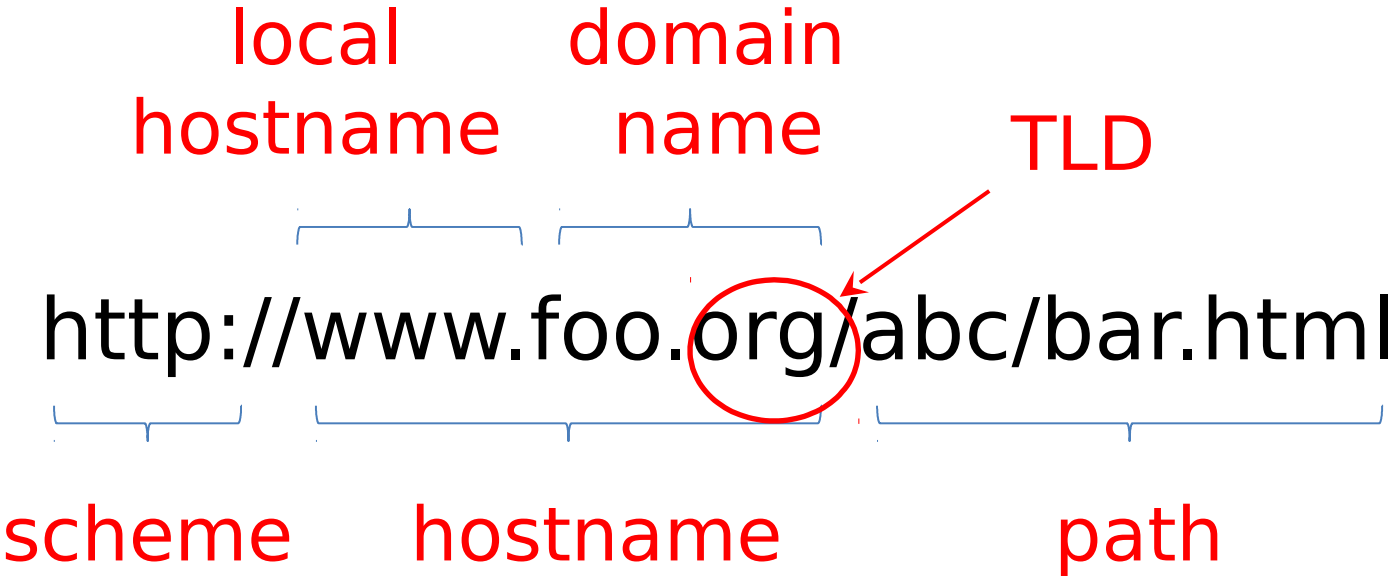
Tim Berners-Lee and others at CERN developeb the **World Wide Web (WWW)**, HTML documents transmitted over the Internet by a web server to web browsers using URIs and HTTP (1st web page online on Aug 6, 1991)

Web Standards

- Uniform Resource Identifiers (URI), an universal system to reference intenet resources
- Hypertext Transfer Protocol (HTTP), specifies how the browser and the server communicate
- Hypertext Markup Language (HTML), used to define the structure and content of hypertext documents

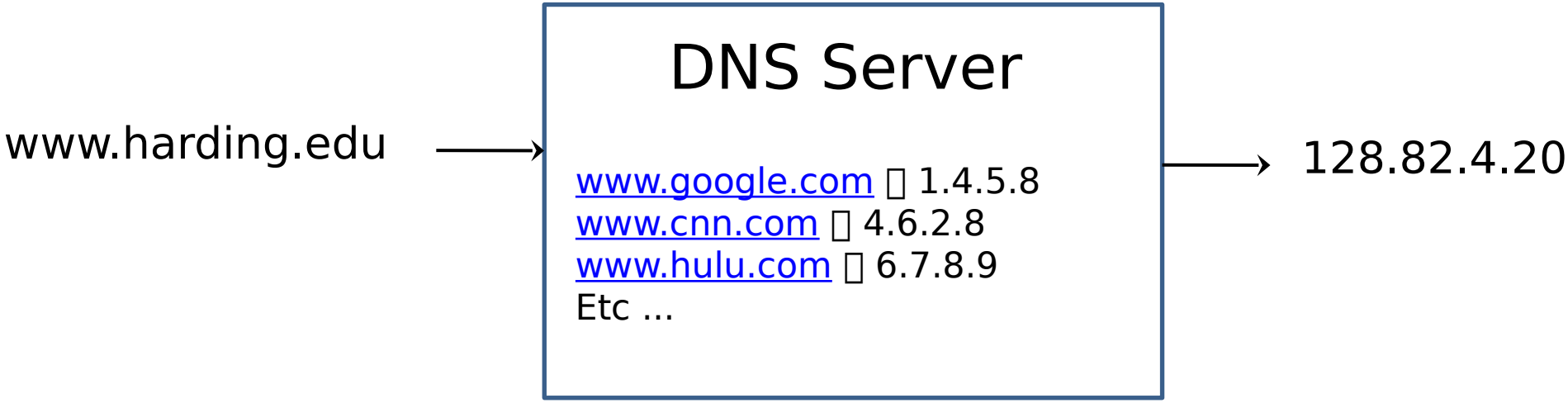
Uniform Resource Locator (URL)

A URL identifies the location of a resource on the Web.



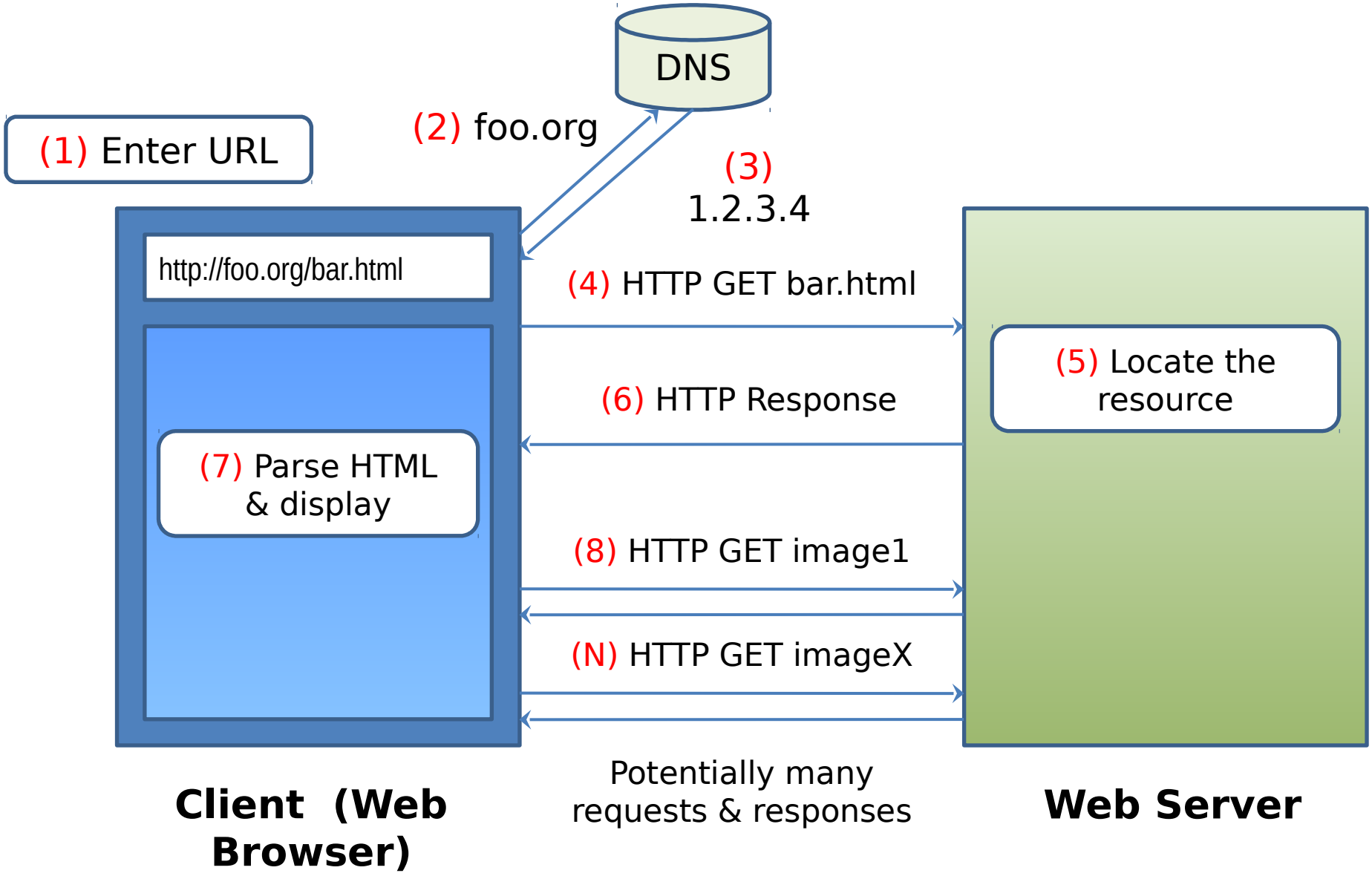
Domain Name System (DNS)

DNS is a hierarchical look-up service that converts a given hostname into its equivalent IP address



- DNS servers contact parent servers for missing entries
- Authoritative name servers are responsible for specific domains
- Warning: DNS cache poisoning

Example: Web Page Request



HTTP: Hypertext Transfer Protocol

Protocol that runs over TCP/IP and governs communication between web browsers and web servers

Hypertext Transfer Protocol (HTTP)

GET
- Request for a web page or an object from server

POST
- For sending data or information about client to the server

Hypertext Transfer Protocol (HTTP)

Protocol that runs over TCP/IP and governs communication between web browsers and web servers

Client Request
GET / HTTP/1.1
Host: www.unavarra.es

Server Response
HTTP/1.1 200 OK
Content-Length: 6018
Content-Type: text/html
Content-Location: http://www.unavarra.es/
Last-Modified: Mon, 05 Jul 2014 18:49:40 GMT
Server: nginx

HTML

```
<!DOCTYPE html>
<html>

<head>
<meta content="IE=edge" http-equiv="X-UA-
Compatible">
</head>

<body>

<h1>Hello World!</h1>

</body>

</html>
```

</head>
<body>

www.unavarra.es 170% Buscar

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Filtrar las URL | Todos | HTML | CSS | JS | XHR | Tipografía | Imágenes | Medios | WS | Otros | Registros persistentes | Desactivar caché | Sin limitaci | HAR

Est...	Méto...	Archivo	Dominio	Causa	Tipo	Transferi...	Tam...	0 ms / 2,56 s / 5,12 s / 7,68 s / 10,24 s / 12,80 s
200	GET	/	www.unavarra.es	document	html	10,14 KB	47,56 KB	156 ms
200	GET	activeview?xai=AKAOjsvx...	pagead2.google...	img	gif	634 B	42 B	51 ms
200	GET	estilos100.css?random=8...	www.unavarra.es	stylesheet	css	50,84 KB	50,61 KB	194 ms
200	GET	contenidos100.css	www.unavarra.es	stylesheet	css	33,70 KB	33,46 KB	135 ms
200	GET	slimbox2.css	www.unavarra.es	stylesheet	css	1,39 KB	1,15 KB	78 ms
200	GET	master100.css	www.unavarra.es	stylesheet	css	5,53 KB	5,29 KB	79 ms
200	GET	responsive.css	www.unavarra.es	stylesheet	css	20,80 KB	20,56 KB	136 ms
200	GET	printV2.css	www.unavarra.es	stylesheet	css	380 B	141 B	49 ms
200	GET	jquery.min.js	www.unavarra.es	script	js	313,98 KB	313,73 KB	500 ms
200	GET	jquery.ba-hashchange.js	www.unavarra.es	script	js	16,29 KB	16,04 KB	138 ms
200	GET	modernizr.min.js	www.unavarra.es	script	js	15,31 KB	15,05 KB	171 ms
200	GET	slimbox2.js	www.unavarra.es	script	js	4,28 KB	4,03 KB	200 ms
200	GET	jquery.carouFredSel.js	www.unavarra.es	script	js	57,99 KB	57,74 KB	387 ms
200	GET	css3-mediaqueries.js	www.unavarra.es	script	js	15,89 KB	15,64 KB	237 ms
200	GET	funciones.js	www.unavarra.es	script	js	19,02 KB	18,77 KB	336 ms
200	GET	ebscohostsearchPrueba.js	www.unavarra.es	script	js	13,01 KB	12,75 KB	306 ms
200	GET	urchin.js	www.unavarra.es	script	js	21,92 KB	21,67 KB	403 ms
200	GET	cookiecuttr.css	www.unavarra.es	stylesheet	css	2,61 KB	2,37 KB	370 ms

84 solicitudes | 7,17 MB / 5,82 MB transferido | Finalizado: 12,76 s | DOMContentLoaded: 1,12 s | load: 4,12 s

Cabeceras | Cookies | Parámetros | Respuesta | Tiempos | Traza de la pila

URL solicitada: http://www.unavarra.es/
Método de la petición: GET
Dirección remota: 130.206.159.235:80
Código de estado: 200 Editar y volver a enviar | Cabeceras sin procesar
Versión: HTTP/1.1

Filtrar cabeceras

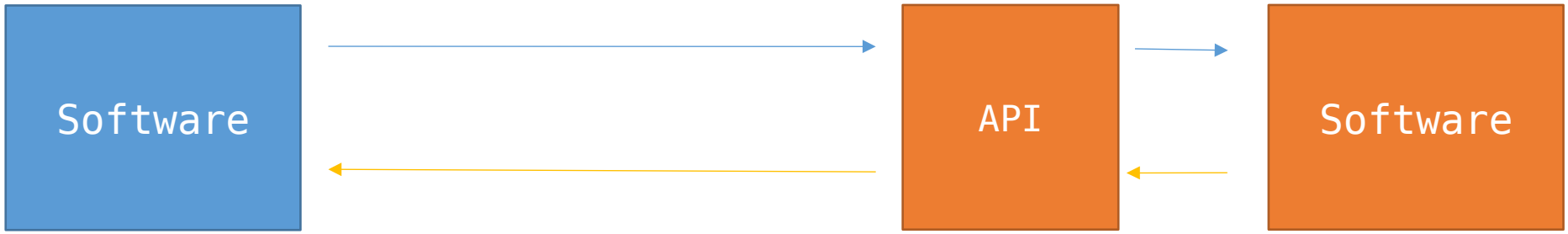
Cabeceras de la respuesta (294 B)

- Connection: close
- Content-Encoding: gzip
- Content-Type: text/html;charset=utf-8
- Date: Fri, 12 Oct 2018 13:19:59 GMT
- Last-Modified: Thu, 11 Oct 2018 14:00:33 CEST
- Set-Cookie: JSESSIONID=96D826A785A1DBCADC5...C55BB.orno1; Path=/; HttpOnly
- Transfer-Encoding: chunked

Cabeceras de la petición (1,203 KB)

- Accept: text/html,application/xhtml+xm...plication/xml;q=0.9,*/*;q=0.8
- Accept-Encoding: gzip, deflate
- Accept-Language: es-ES,es;q=0.8,en-US;q=0.5,en;q=0.3
- Connection: keep-alive
- Cookie: __utma=1.1840489833.1521652438...%2F%2Fwww.google.com%2F%22%5D

¿What is an API?



Application Programing Interfaz: A software inteface for application communication

NAVARRA

MUNICIPIOS DESTACADOS

Estella-Lizarra		19°C	9°C	Pamplona		18°C	9°C
Roncal		18°C	4°C	Tudela		20°C	11°C

PREVISIÓN NAVARRA

HOY | MAÑANA

Nuboso o cubierto en el norte y el oeste y poco nuboso en el cuadrante sureste, con lluvias de madrugada que serán poco probables en el extremo este, aumentando a cubierto durante las horas centrales, cuando se esperan lluvias y chubascos en el norte, y tendiendo a disminuir la nubosidad a intervalos por la tarde en el este y el sur, y a remitir las precipitaciones, pudiendo persistir de forma débil en el noroeste. No se descartan brumas y bancos de niebla matinales en los entornos de las sierras de Urbasa y Aralar y del Pirineo. Temperaturas mínimas con pocos cambios y máximas en aumento. Viento débil del norte y noroeste, con algún intervalo algo más intenso en la Ribera baja durante las horas centrales.

https://www.el-tiempo.net/

Weather API

- https://www.el-tiempo.net/api
- https://www.el-tiempo.net/api/json/v1/provincias/31/municipios/31201/weather

jq

```
curl https://www.el-tiempo.net/api/json/v1/provincias/31/municipios/31201/weather |
    jq -r '.prediccion.dia[] | ["@attributes".fecha, .temperatura.minima, .temperatura.maxima] | @csv'
```

API LIST

A Collective List Of APIs. Build Something.

Search

All

GRID

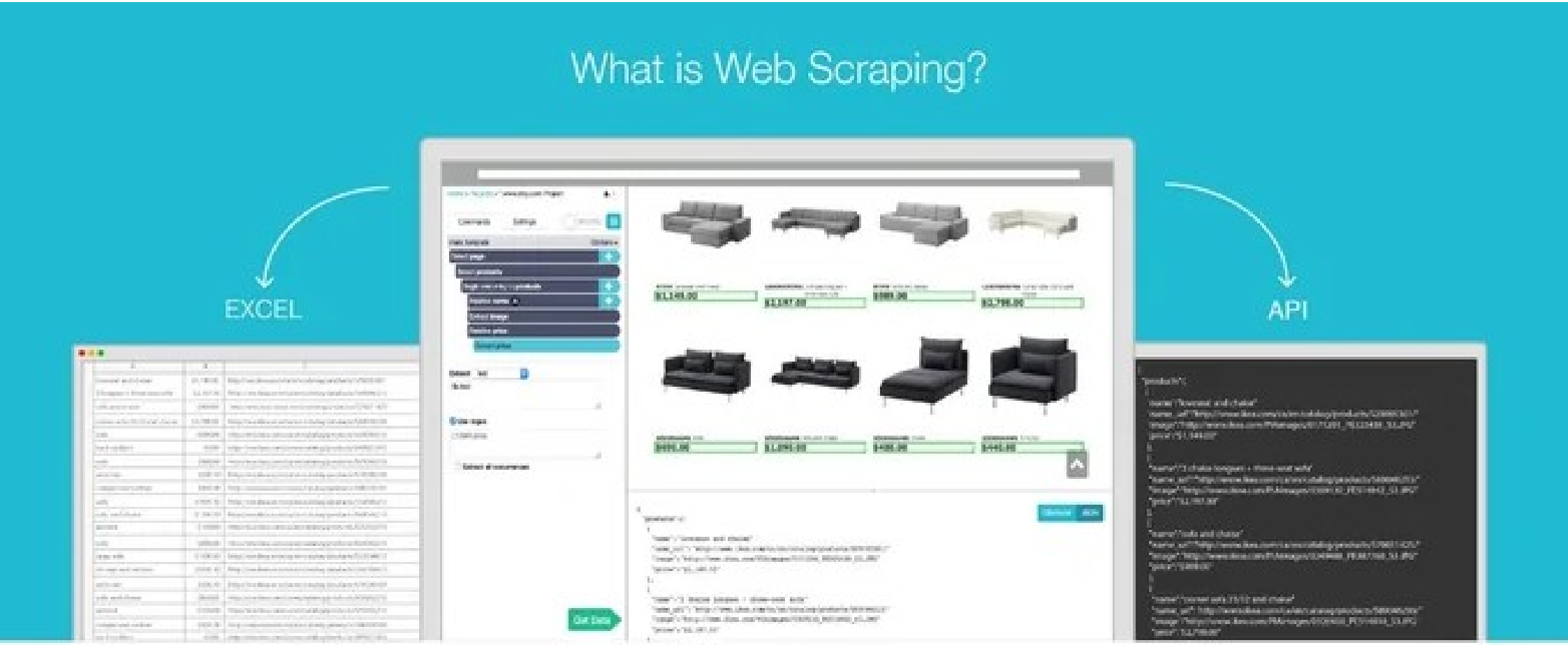
LIST

AMAZON S3 API

API2CART

BEST BUY COMMERCE API

https://apilist.fun/



https://www.parsehub.com/

Scrapy

Build and run your
web spiders

Terminal

```
$ pip install scrapy
$ cat > myspider.py <<EOF
import scrapy

class BlogSpider(scrapy.Spider):
    name = 'blogspider'
    start_urls = ['https://blog.scrapinghub.com']

    def parse(self, response):
        for title in response.css('.post-header>h2'):
            yield {'title': title.css('a ::text').get()}

        for next_page in response.css('a.next-posts-link'):
            yield response.follow(next_page, self.parse)
EOF
$ scrapy runspider myspider.py
```

https://scrapy.org/

Total Cases of Novel Coronavirus (2019-nCoV)

Date	Total Cases	Change in Total	Change in Total (%)
Feb. 13	**64,437**	5,154	9%
Feb. 12	**59,283**	14,113	31%
Feb. 11	**45,170**	2,071	5%
Feb. 10	**43,099**	2,546	6%
Feb. 9	**40,553**	3,001	8%
Feb. 8	**37,552**	2,676	8%
Feb. 7	**34,876**	3,437	11%
Feb. 6	**31,439**	3,163	11%
Feb. 5	**28,276**	3,723	15%
Feb. 4	**24,553**	3,925	19%
Feb. 3	**20,628**	3,239	19%
Feb. 2	**17,389**	2,838	20%
Feb. 1	**14,551**	2,603	22%
Jan. 31	**11,948**	2,127	22%
Jan. 30	**9,821**	2,008	26%
Jan. 29	**7,813**	1,755	29%
Jan. 28	**6,058**	1,477	32%
Jan. 27	**4,581**	1,781	64%
Jan. 26	**2,800**	785	39%
Jan. 25	**2,015**	698	53%
Jan. 24	**1,317**	472	56%
Jan. 23	**845**	265	46%

Taller de visualización

Archivo Editar Ver Insertar Formato Datos Herramientas Complementos Ayuda

100% € % .0 .00 123 Predetermi... 10

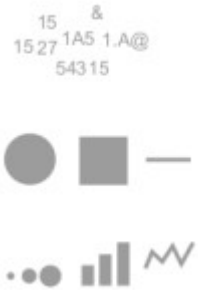
fx =IMPORTHTML("https://www.worldometers.info/coronavirus/coronavirus-cases/";"table";3)

	A	B	C	D	E	F
1	Date	Total Cases	Change in Total	Change in Total (%)		
2	feb. 13	*64,437*	5,154	9%		
3	feb. 12	*59,283*	14,113	31%		
4	feb. 11	*45,170*	2,071	5%		
5	feb. 10	*43,099*	2,546	6%		
6	feb. 9	*40,553*	3,001	8%		
7	feb. 8	*37,552*	2,676	8%		
8	feb. 7	*34,876*	3,437	11%		
9	feb. 6	*31,439*	3,163	11%		
10	feb. 5	*28,276*	3,723	15%		
11	feb. 4	*24,553*	3,925	19%		

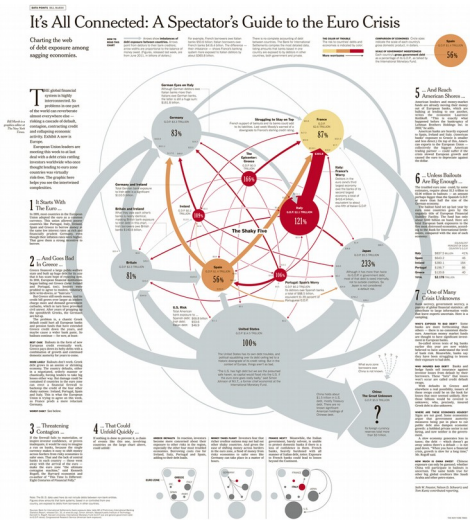
https://www.worldometers.info/coronavirus/coronavirus-cases/

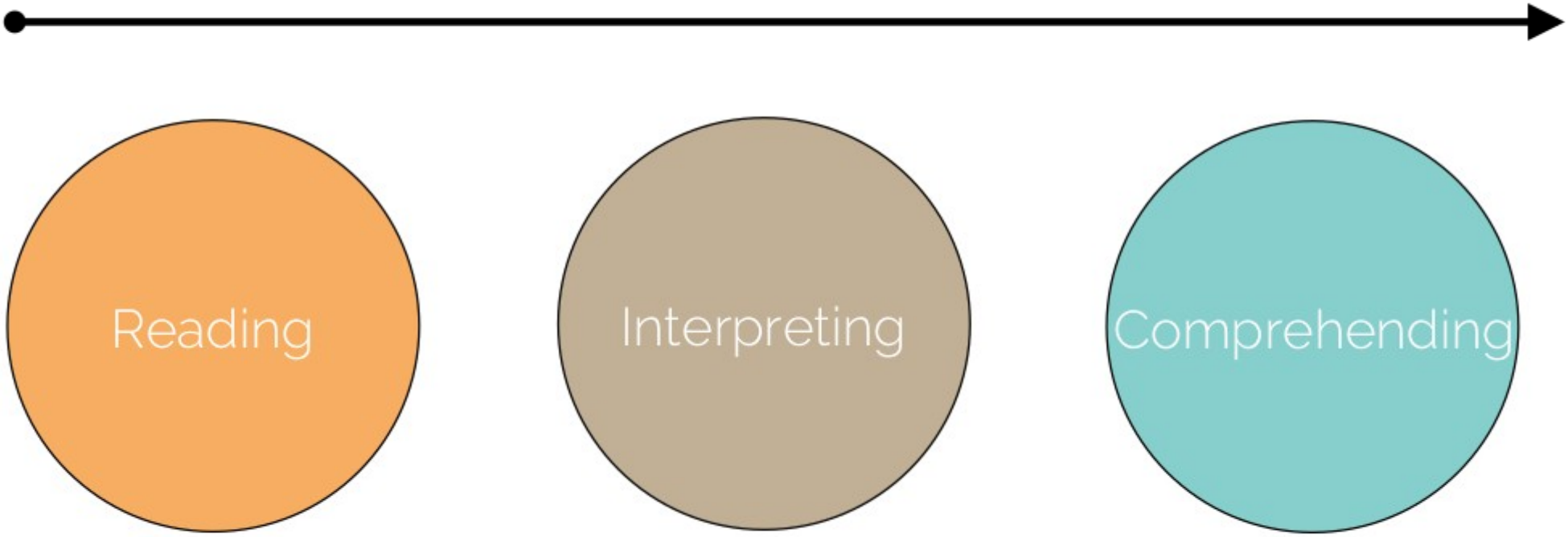
La visualización

DATOS
+
SIMBOLOS
+
CODIGOS
+
ANOTACIONES
=
VISUALIZACIÓN



DESCRIPCION





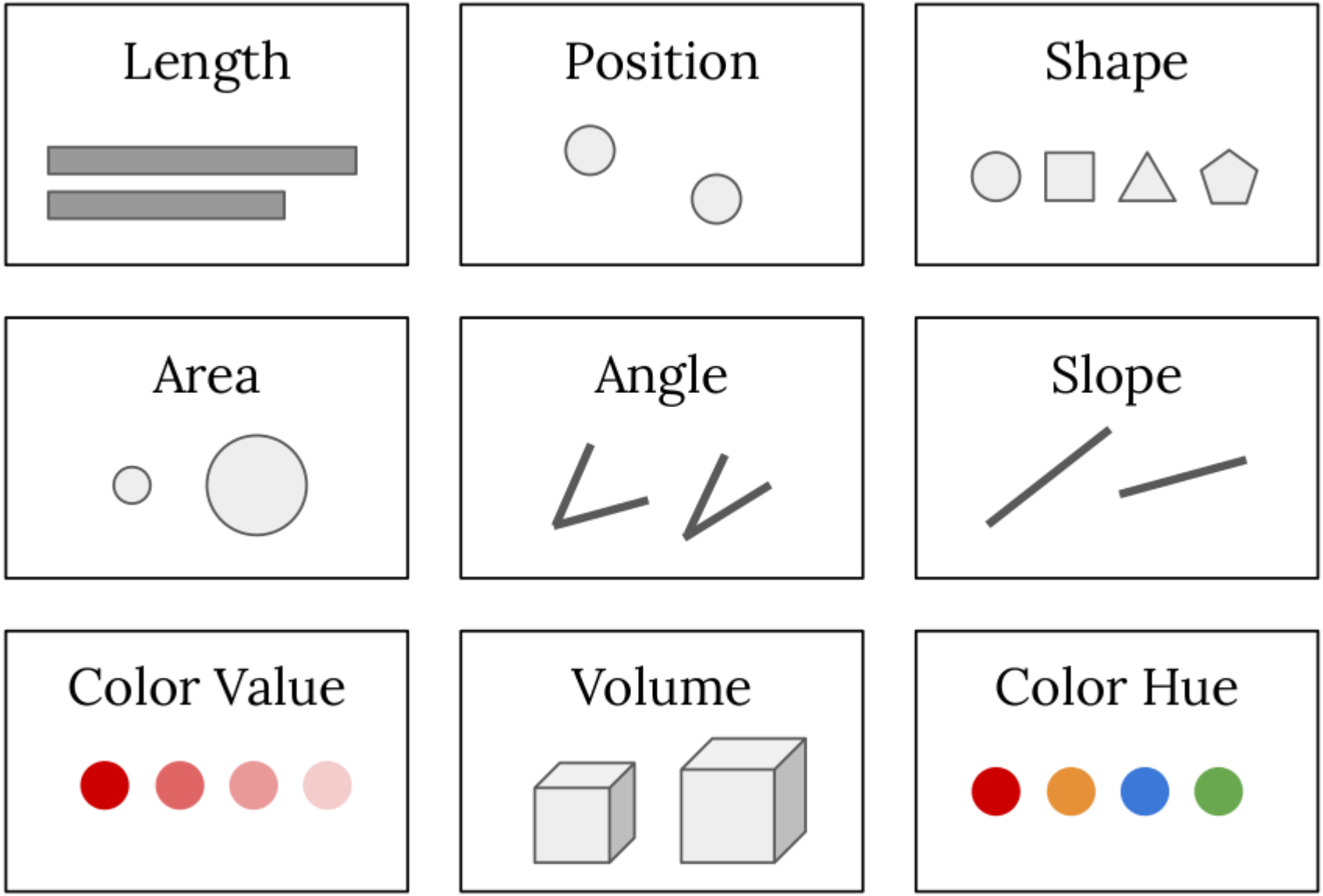
What does it show?
What marks & attributes?
Where is big, medium, small?
How do things compare?

What does it mean?
Is it good or bad?
Meaningful or insignificant?
Unusual or expected?

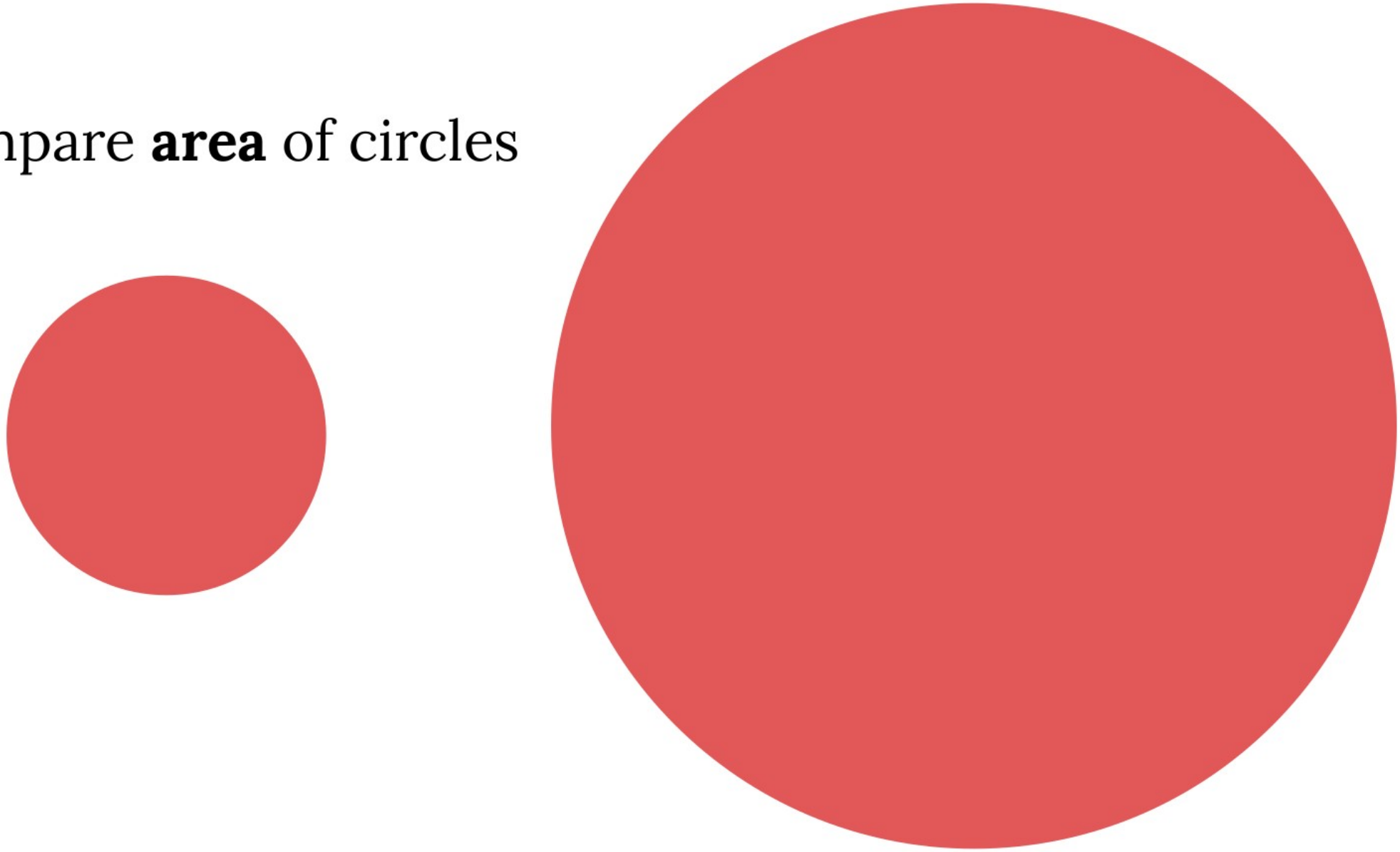
What does it mean to me?
Main messages?
What have I learnt?
What actions to take?

Human factors that affect understanding

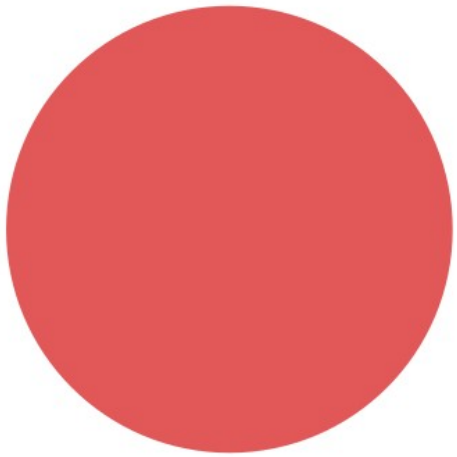
1	Subject matter and relevance	R	I	C
2	Trust and prejudice	R	I	C
3	Confidence and skills	R		
4	Time and pressure	R	I	C
5	Emotions	R		C
6	Curiosities, wants and needs			C

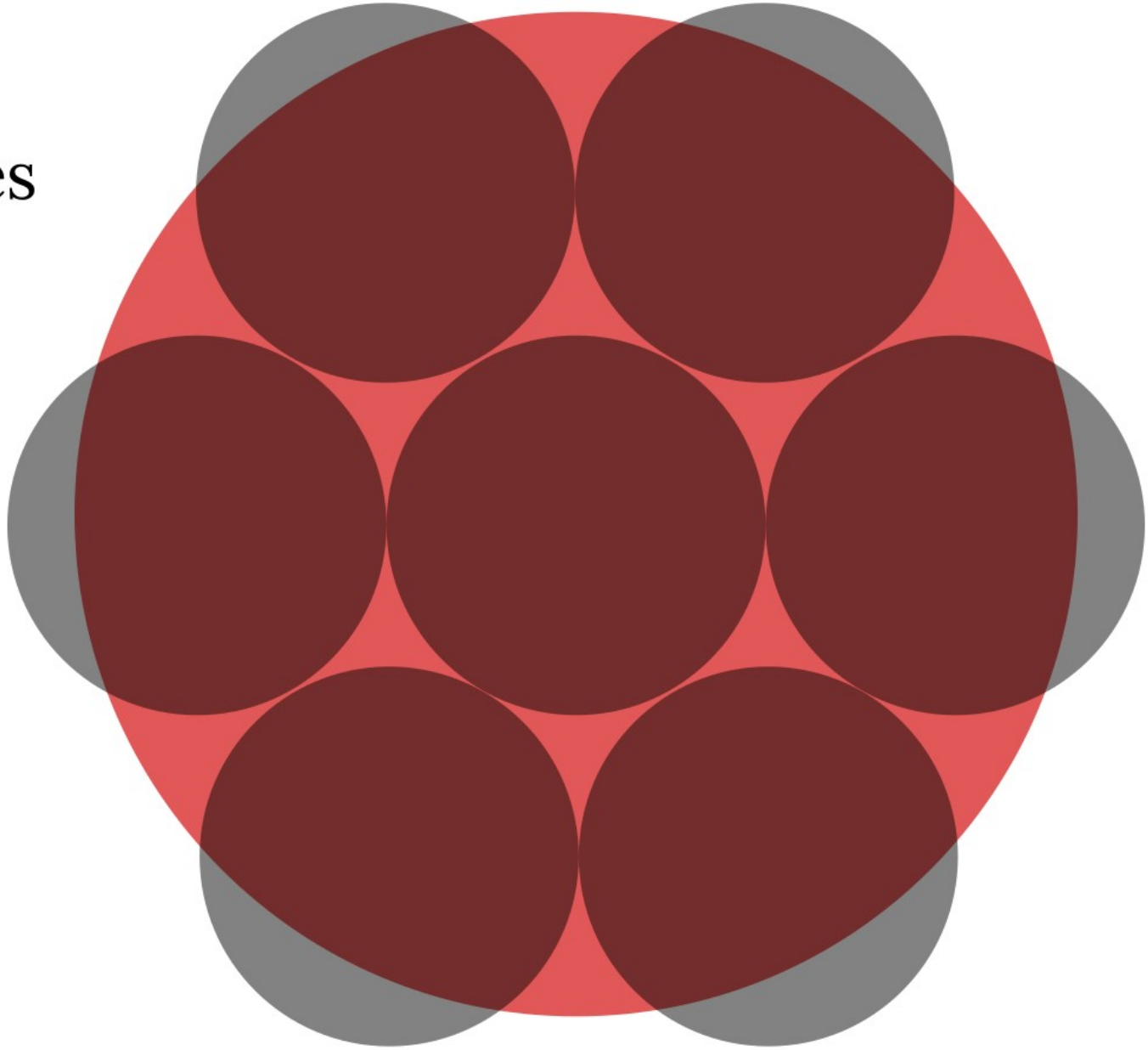

Length
Position
Shape
Area
Angle
Slope
Color Value
Volume
Color Hue

Compare **area** of circles



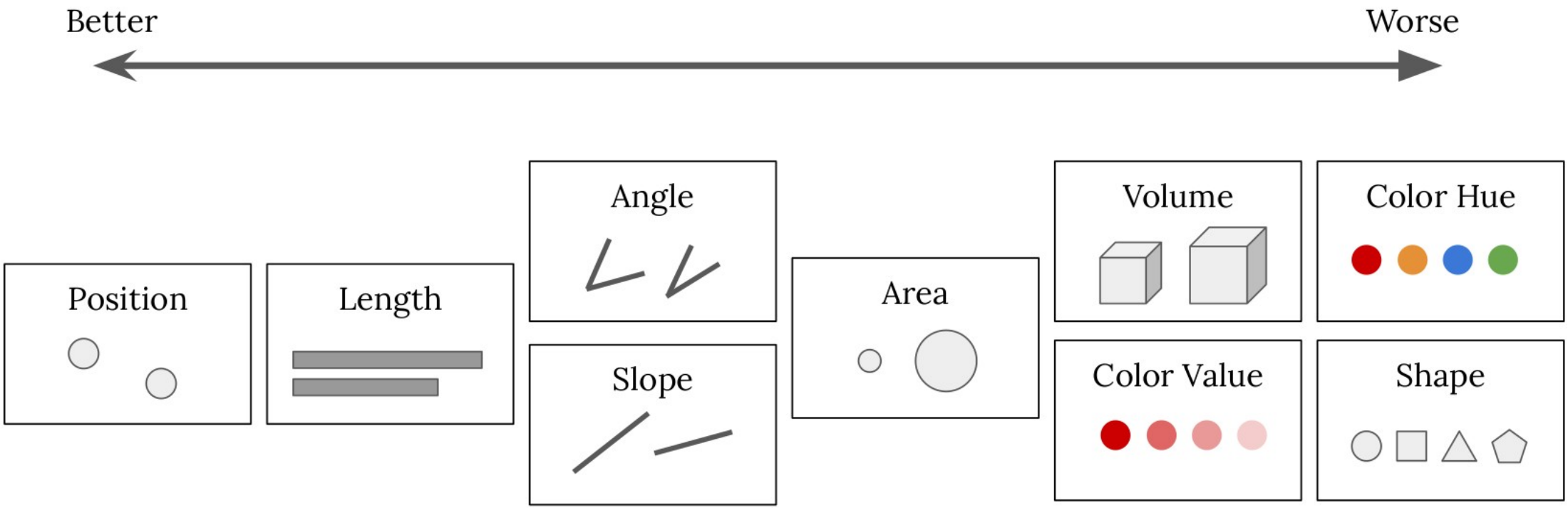
Compare **area** of circles

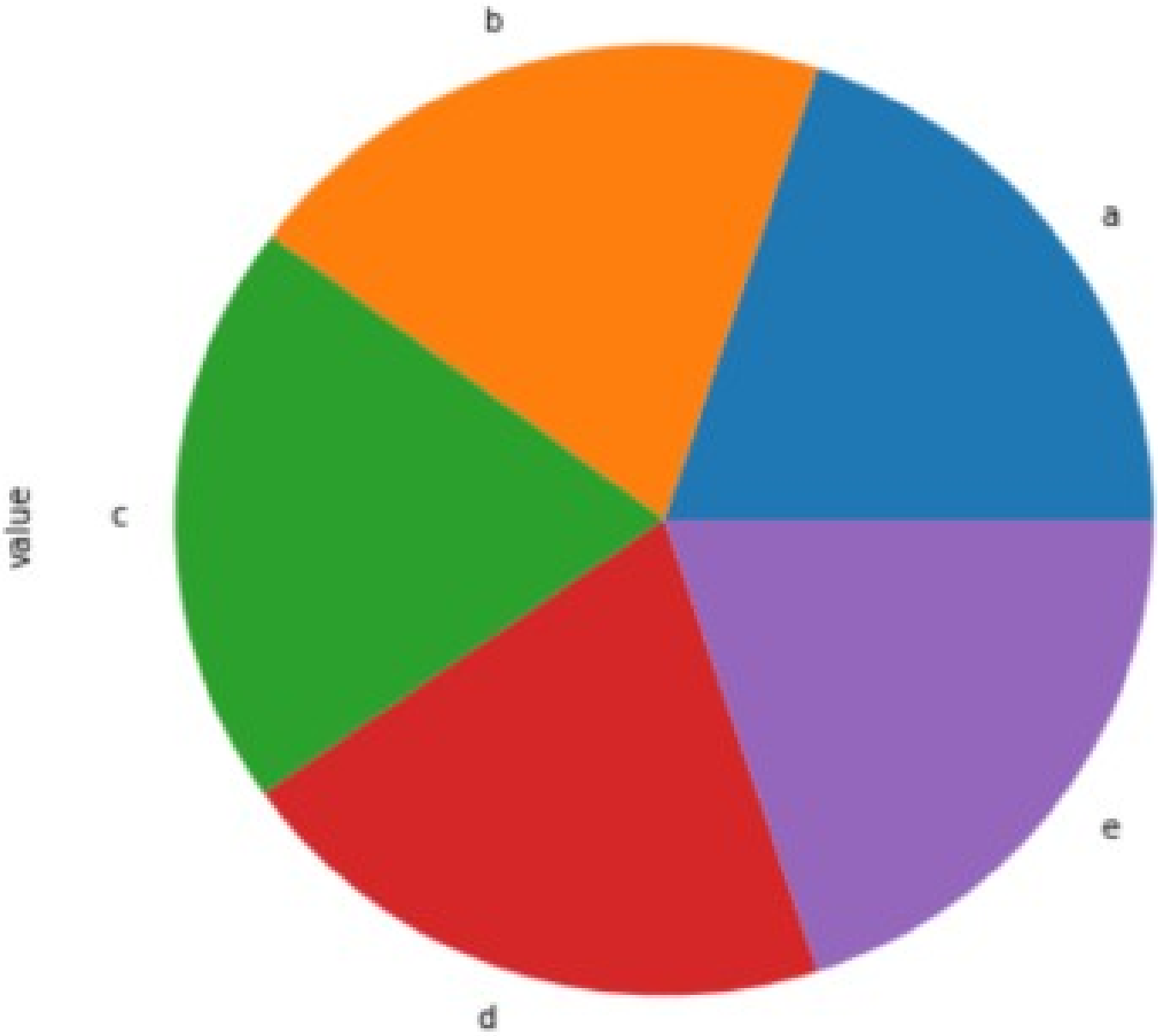


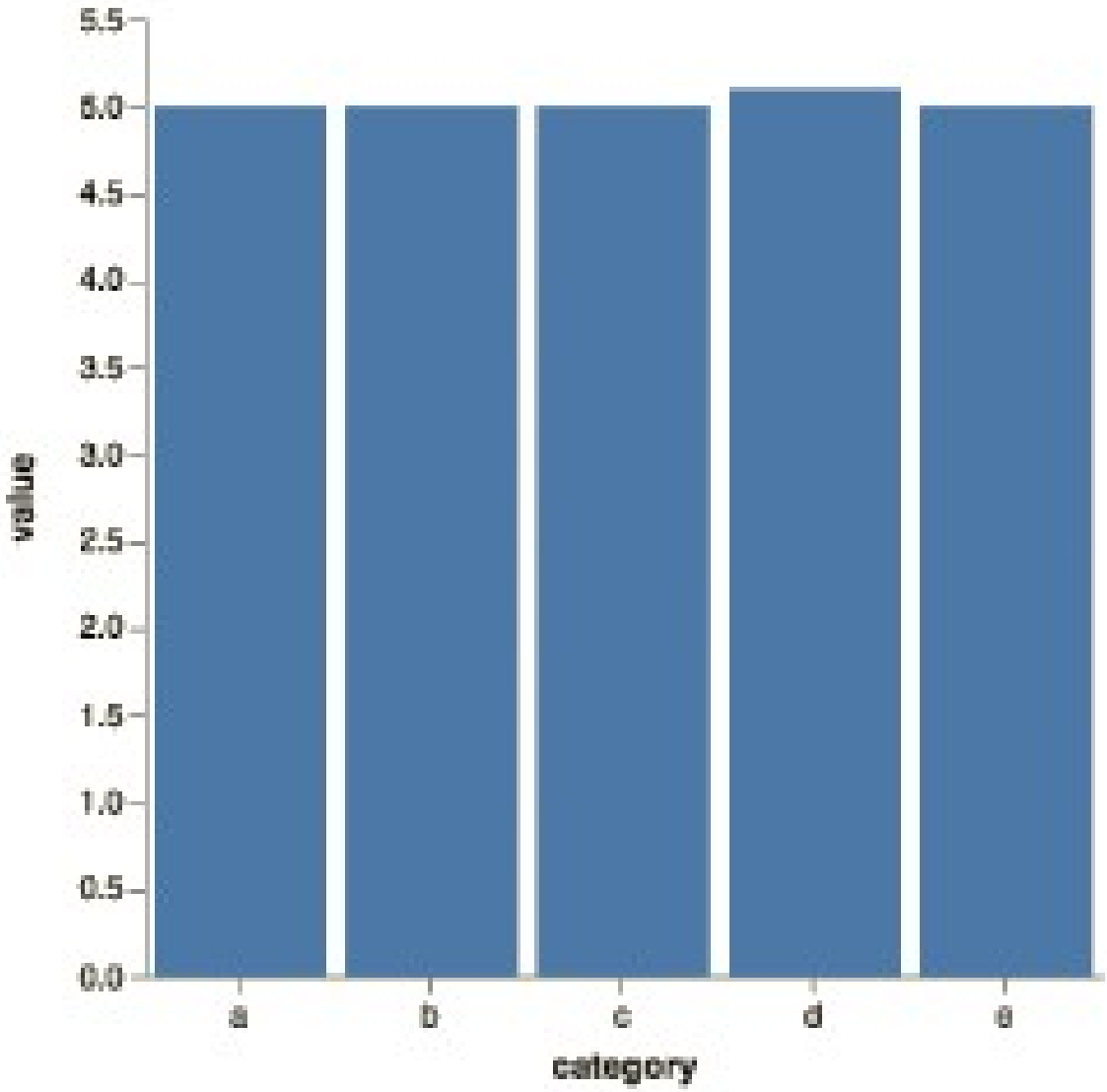


Compare **length** of bars

Compare **length** of bars


Better
Worse
Position
Length
Angle
Slope
Area
Volume
Color Hue
Color Value
Shape


b
a
c
value
e
d


5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
value
a
b
c
d
e
category

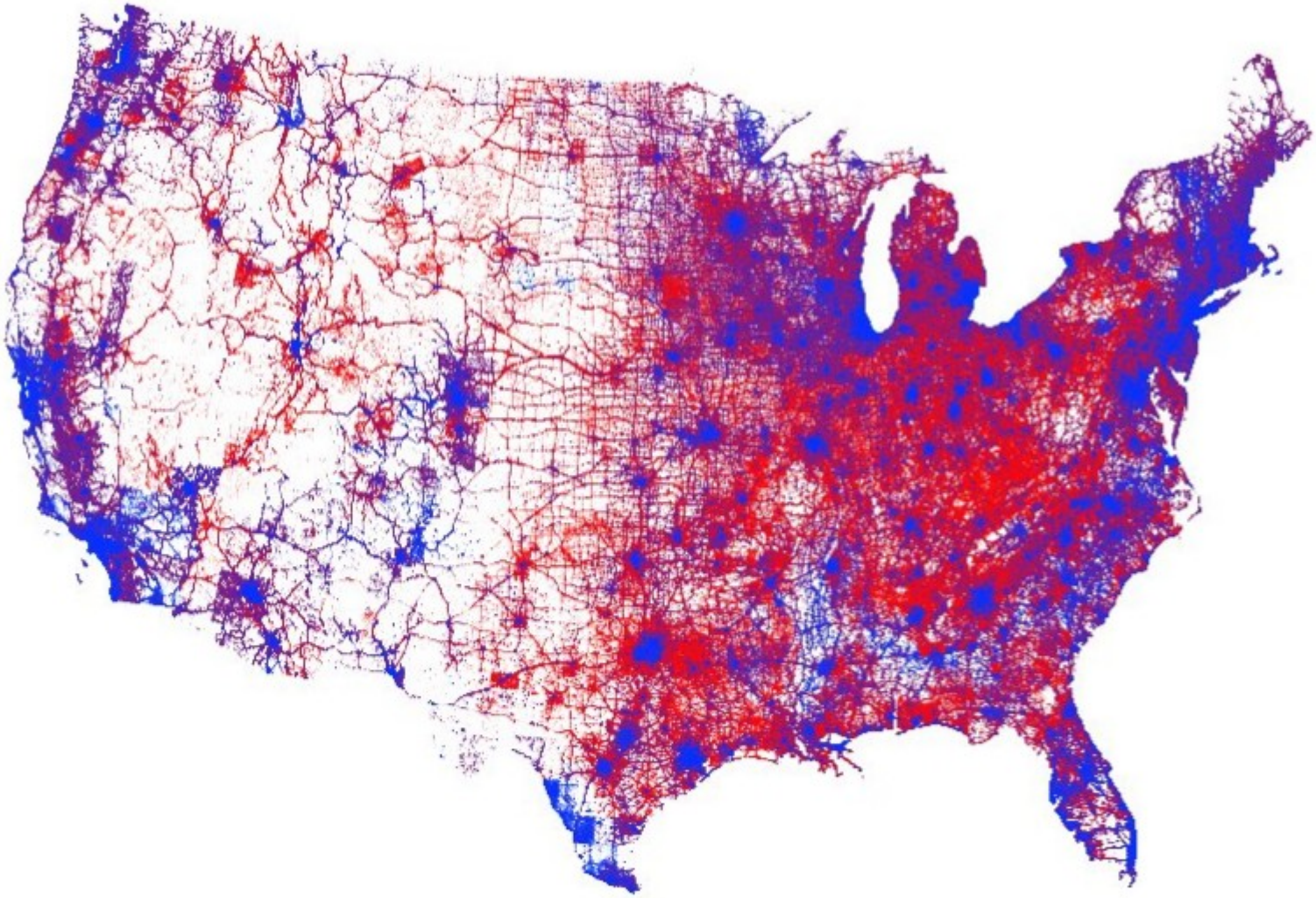
AMERICA'S ECONOMY
2010 GROSS DOMESTIC PRODUCT
United States
$14.6 TRILLION
China $5.7 TRILLION
Japan $5.3 TRILLION
Germany $3.3 TRILLION
France $2.5 TRILLION

AMERICA'S ECONOMY

2010 GROSS DOMESTIC PRODUCT

- United States 14.6 Trillion
- China 5.7 Trillion
- Japan 5.3 Trillion
- Germany 3.3 Trillion
- France 2.5 Trillion

Surface on the
county-level map:
Red: 80%
Blue: 20%
VICTORY BY A LANDSLIDE!!!!!!



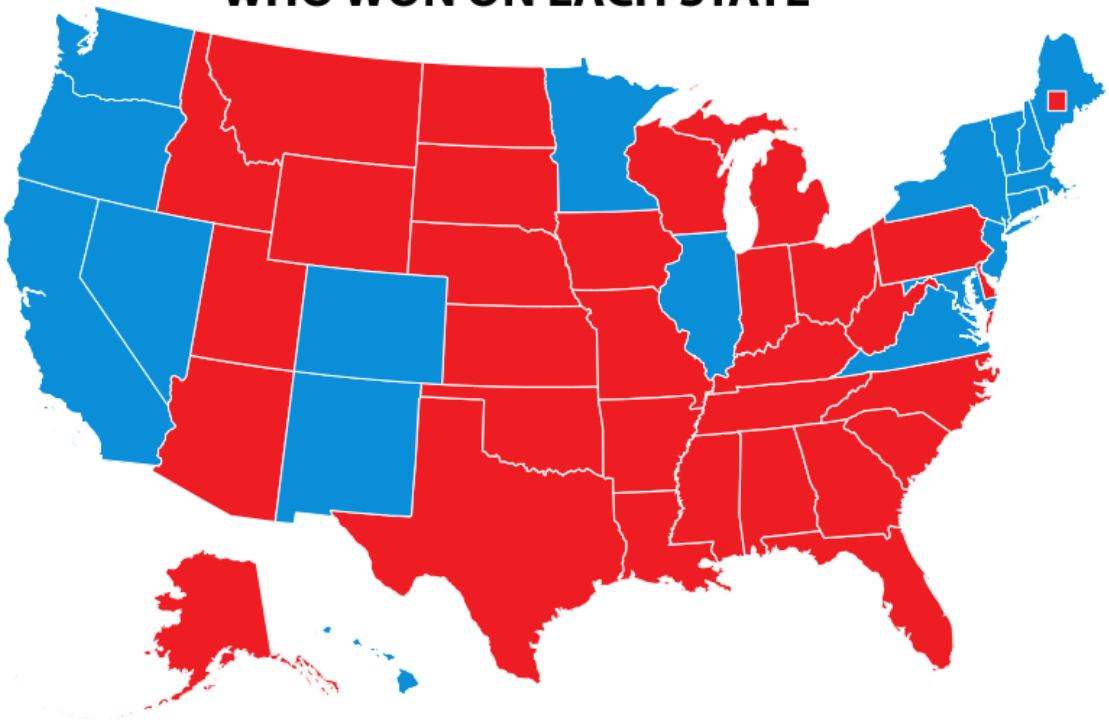
ELECTORAL VOTES

TRUMP
304

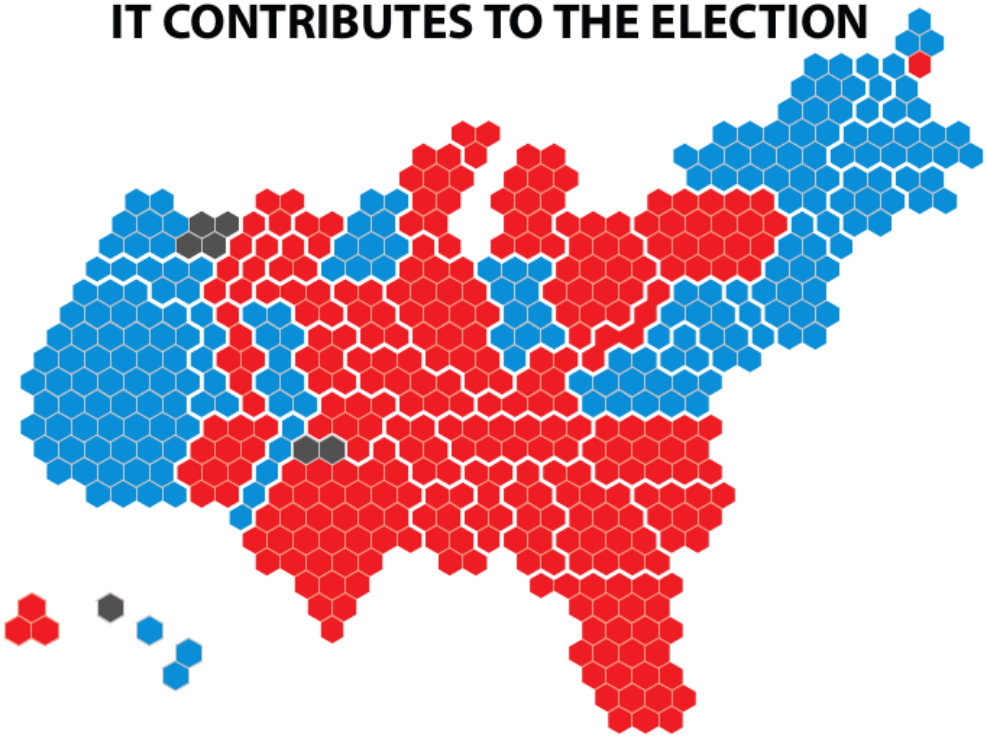
Other: 7

CLINTON
227

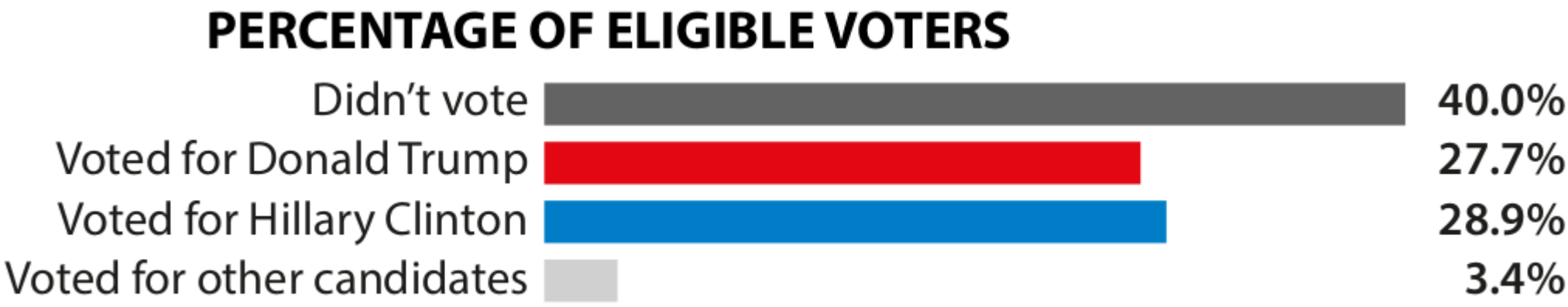
WHO WON ON EACH STATE

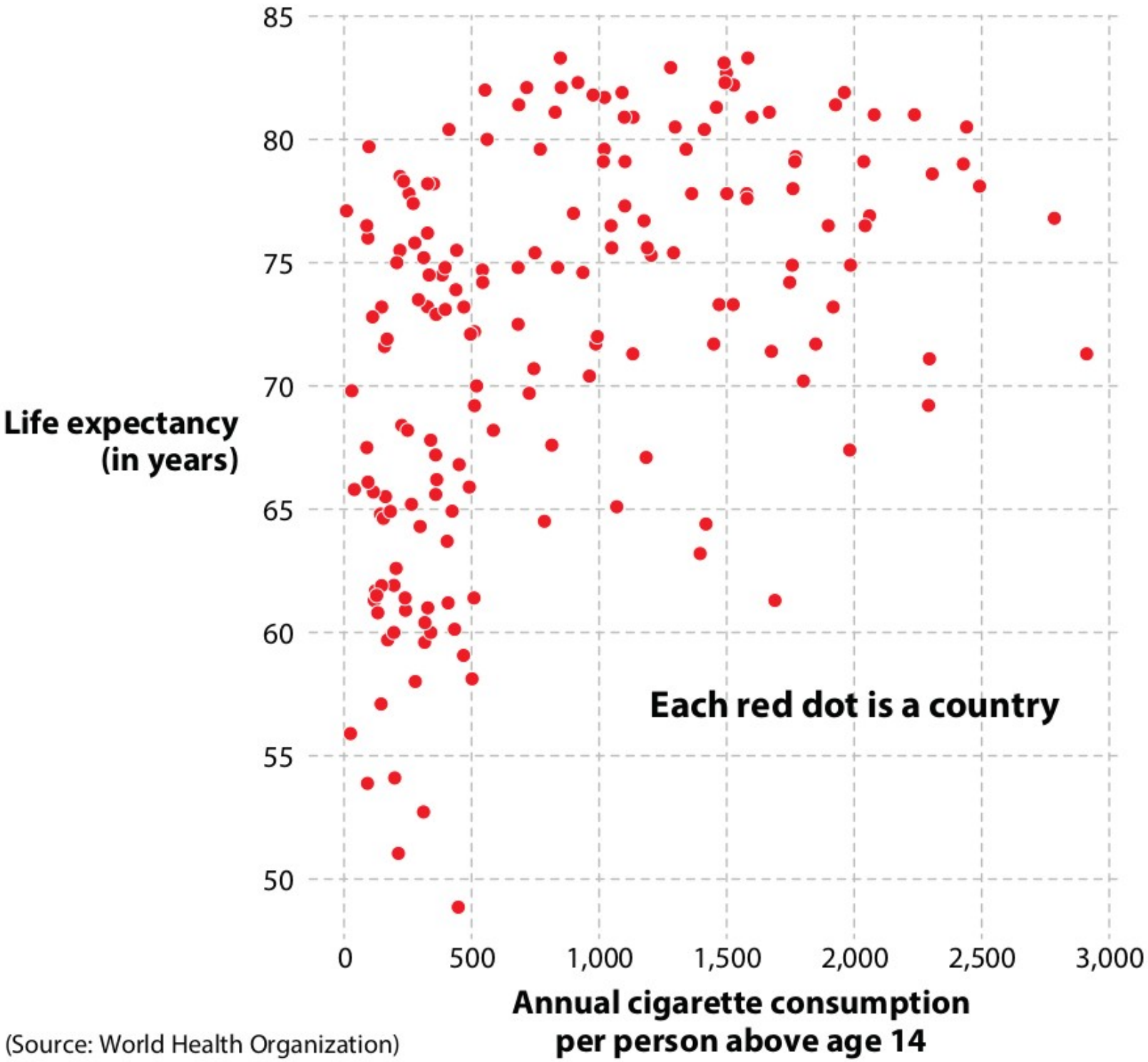


STATE SIZE ADJUSTED BY ELECTORAL VOTES IT CONTRIBUTES TO THE ELECTION

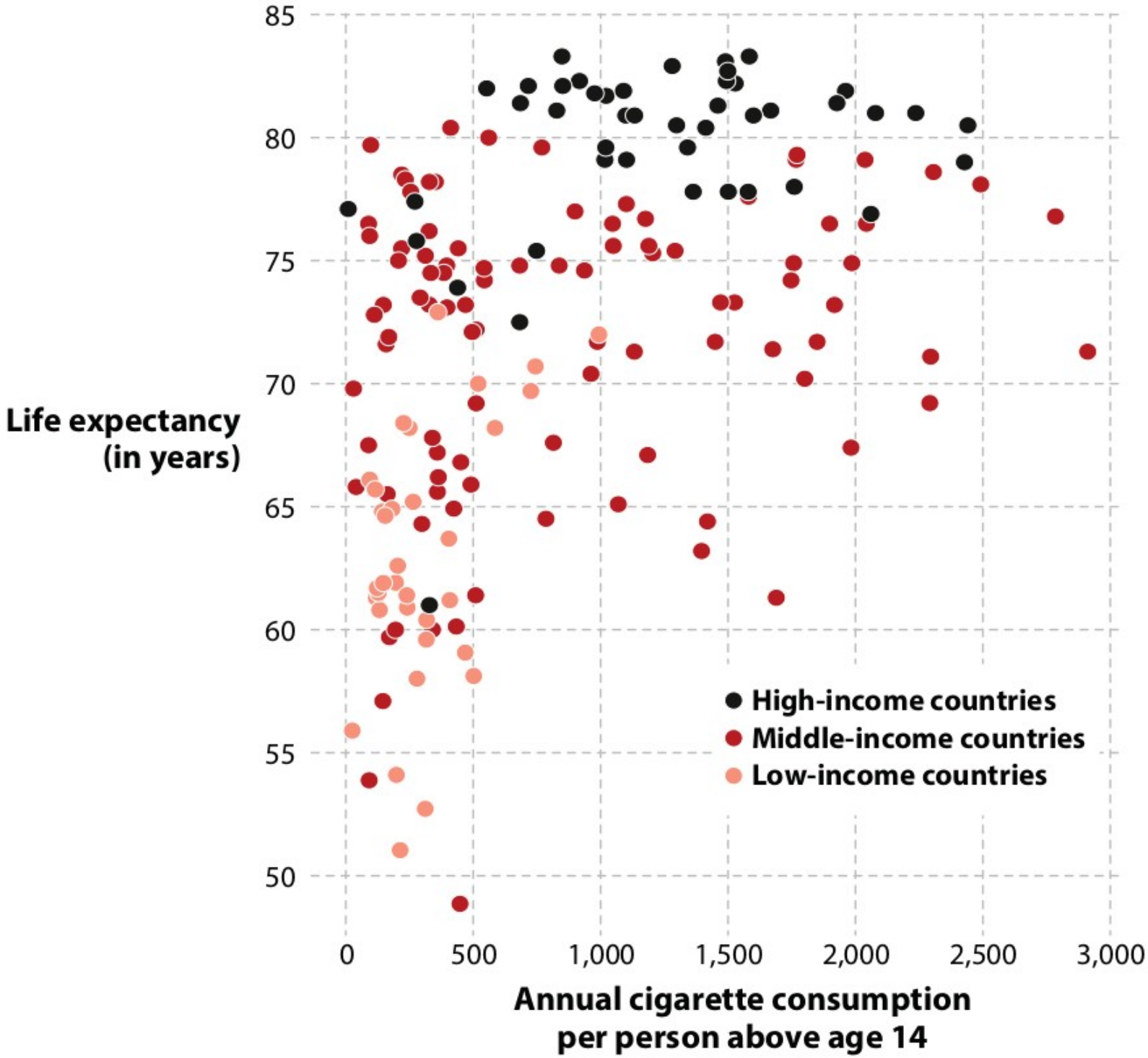


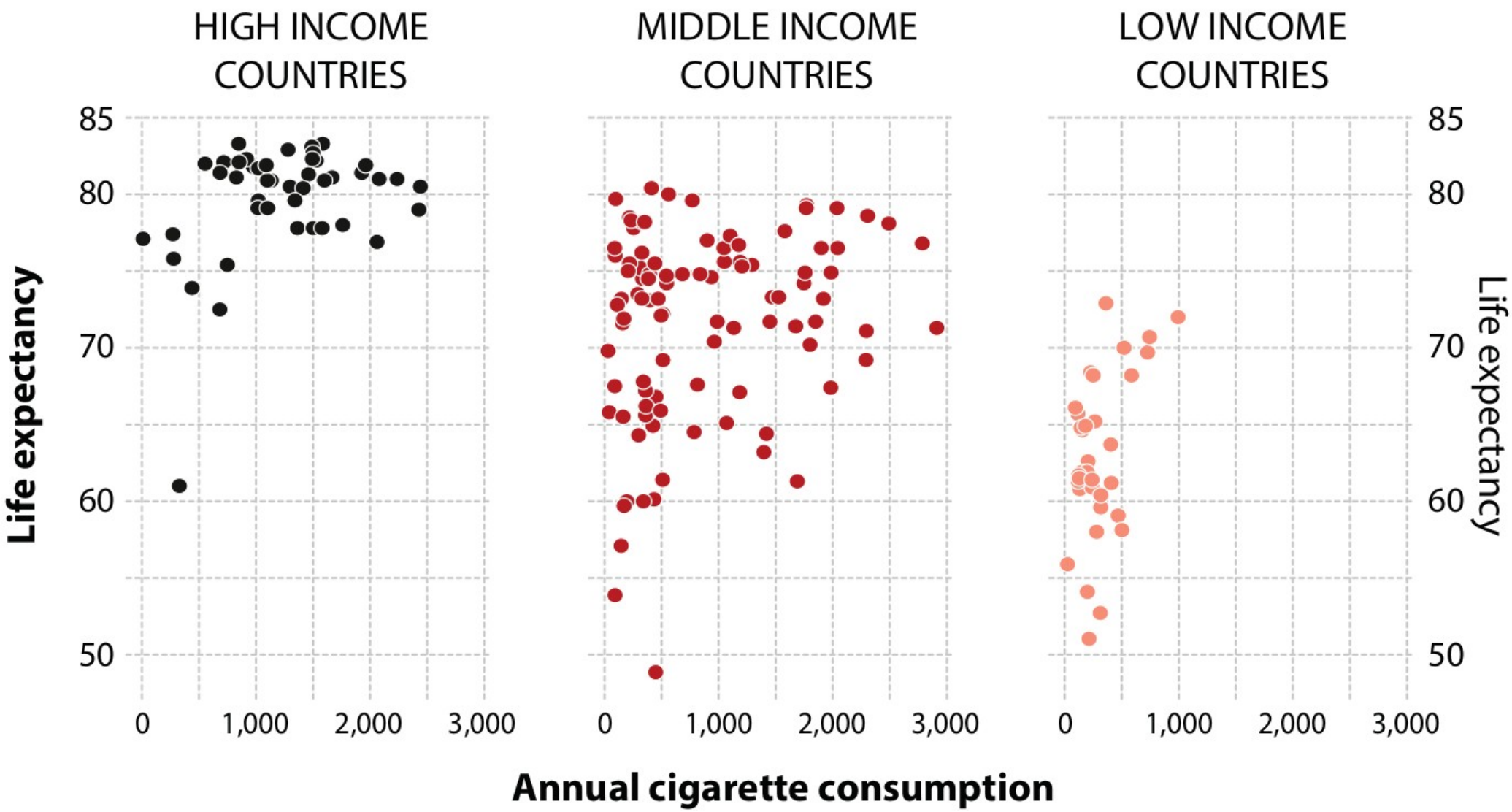
SHARE OF THE POPULAR VOTE IN THE 2016 PRESIDENTIAL ELECTION

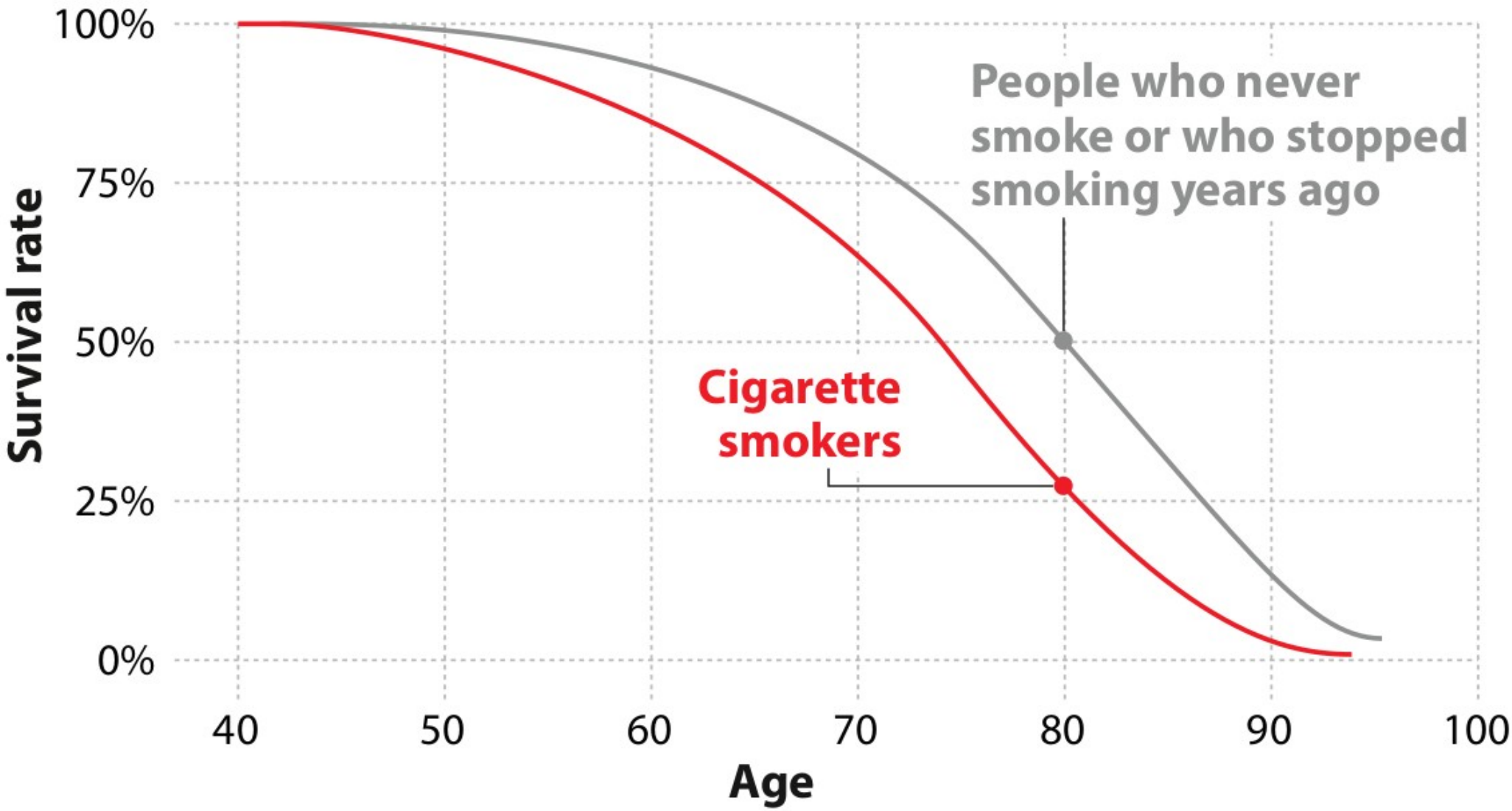

PERCENTAGE OF ELIGIBLE VOTERS
Didn't vote
40.0%
Voted for Donald Trump
27.7%
Voted for Hillary Clinton
28.9%
Voted for other candidates
3.4%

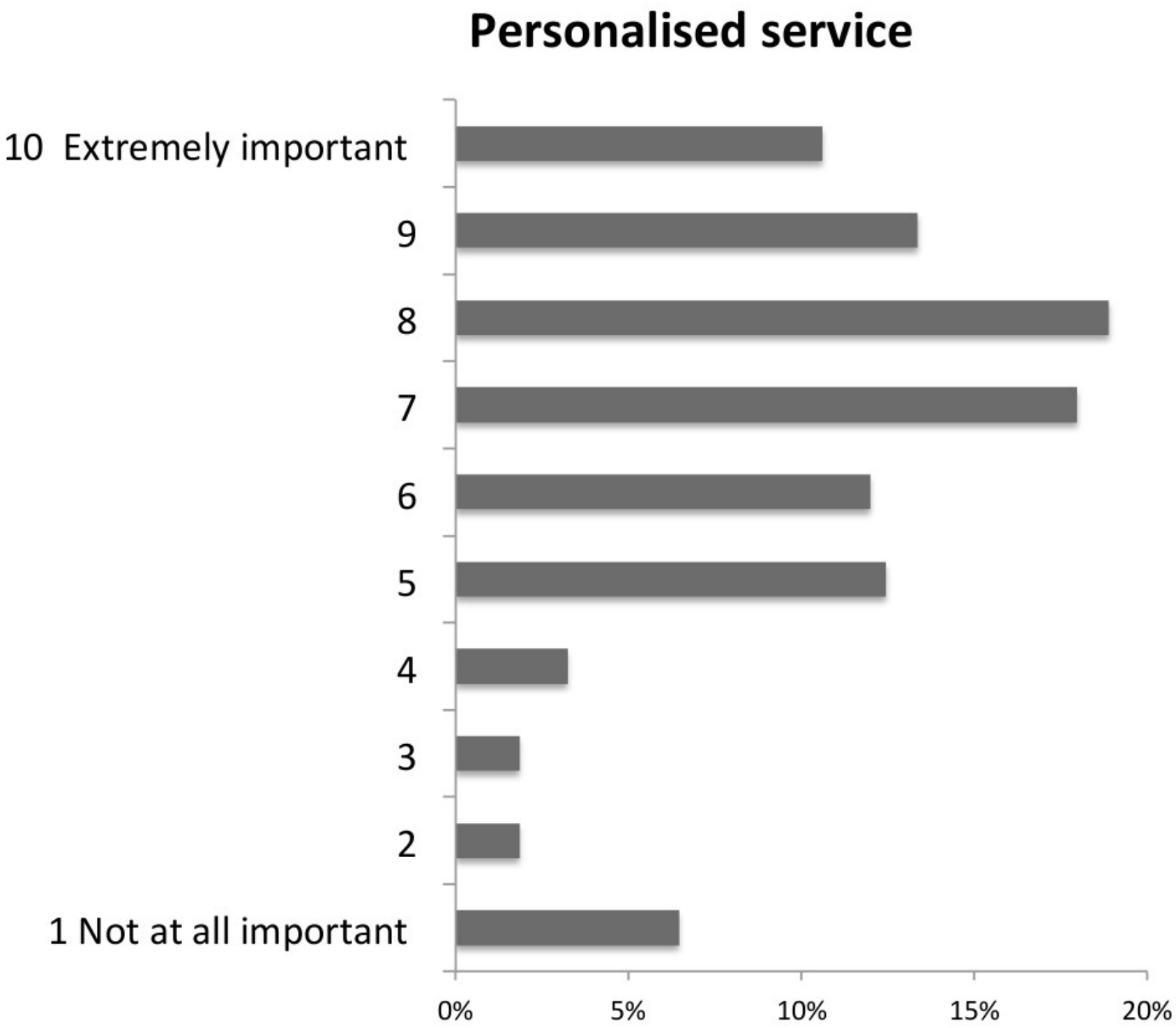


Smoking cigarettes can help you live longer!!!

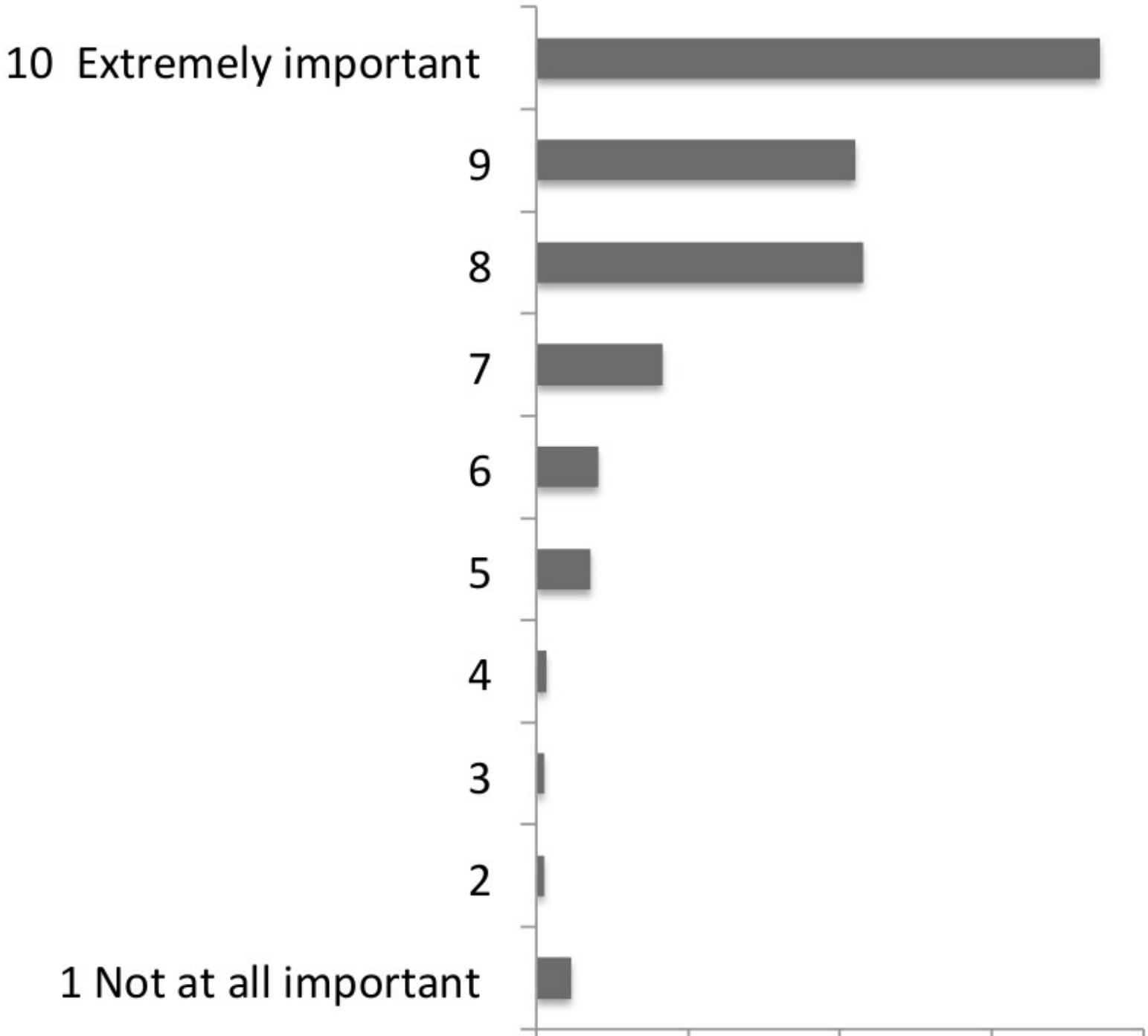

Life expectancy (in years)
85
80
75
70
65
60
55
50
0
500
1,000
1,500
2,000
2,500
3,000
Annual cigarette consumption per person above age 14
High-income countries
Middle-income countries
Low-income countries


HIGH INCOME COUNTRIES
MIDDLE INCOME COUNTRIES
LOW INCOME COUNTRIES
Life expectancy
85
80
70
60
50
0
1,000
2,000
3,000
Annual cigarette consumption


100%
75%
50%
25%
0%
Survival rate
40
50
60
70
80
90
100
Age
People who never smoke or who stopped smoking years ago
Cigarette smokers

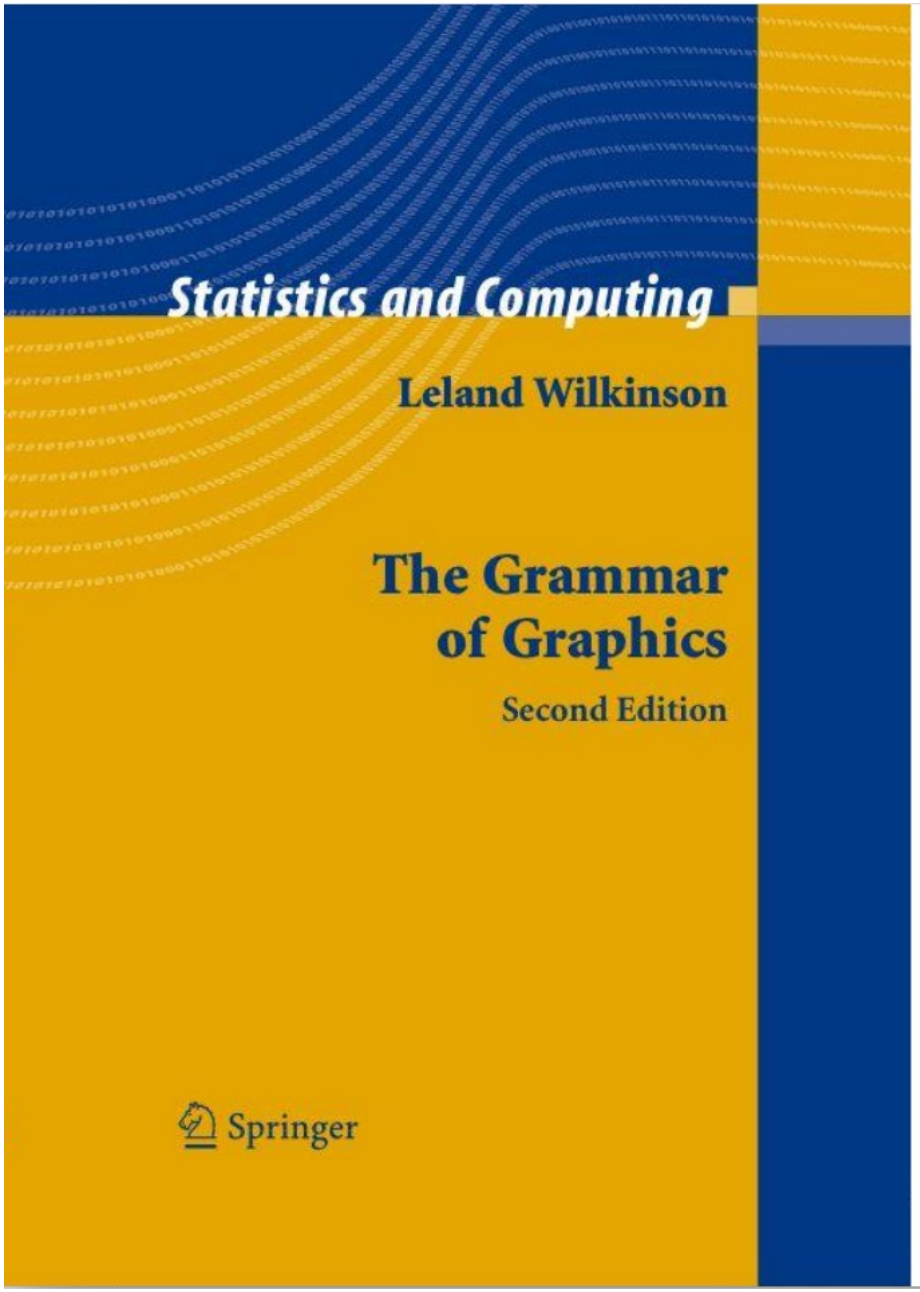

Personalised service
10 Extremely important
9
8
7
6
5
4
3
2
1 Not at all important
0%
5%
10%
15%
20%

High quality of accommodation



38 variables
7 marcas.
266 gráficos

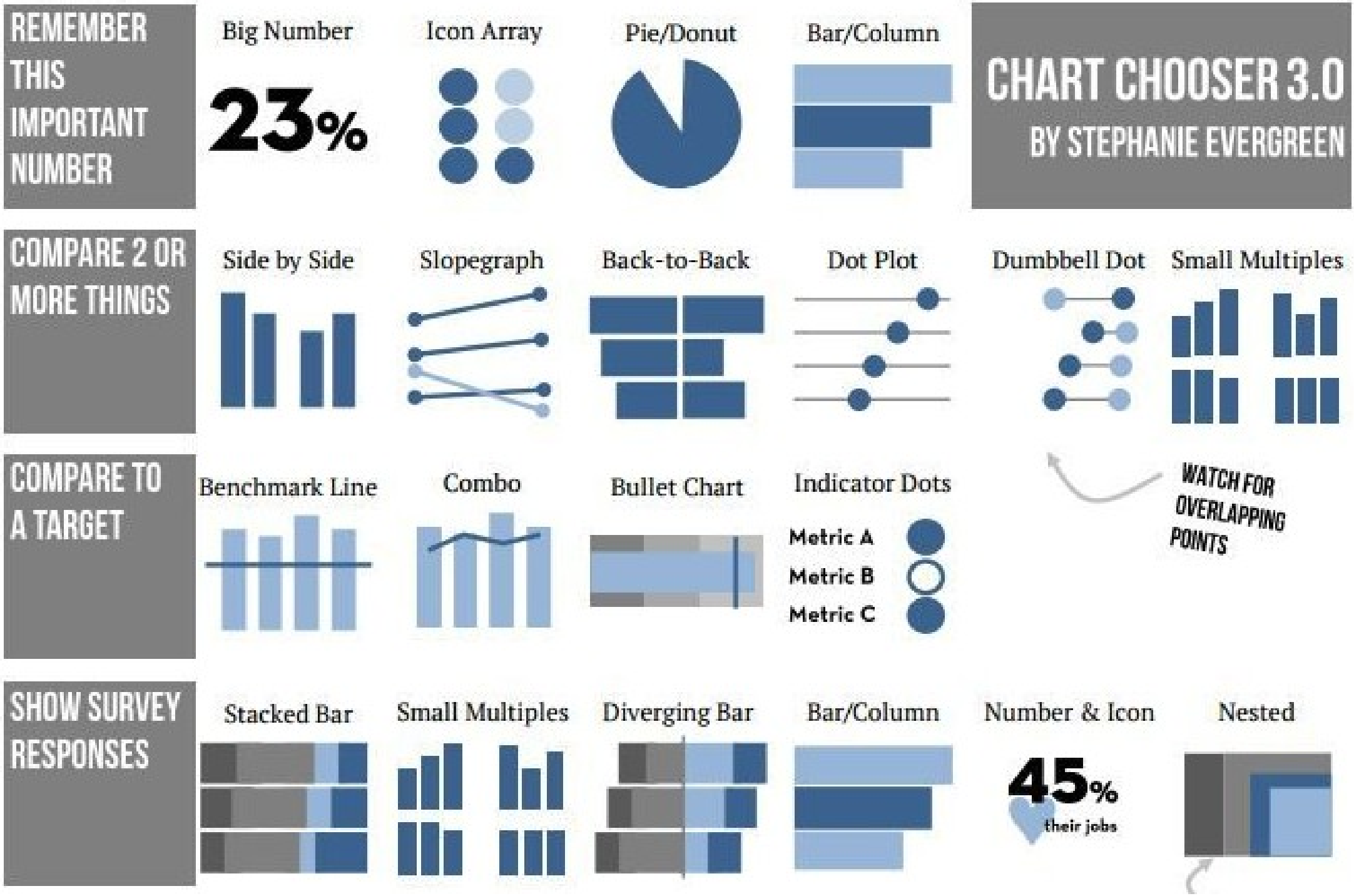
Ranking in importance		Celebrity Cruises	Cunard Line	Fred Olsen Cruises	P&O Cruises	Princess Cruises	RCI	Thomson Cruises
1	High quality food onboard	·	●	○	·	·	·	○
2	Company you can trust	○	·	○	○	·	·	○
3	Provides a high standard of service	·	●	○	·	·	·	○
4	Delivering the highest standards	·	●	○	○	·	·	○
5	Offers great value for money	·	·	·	●	·	·	·
6	High standard of accommodation	·	●	○	·	·	·	○
7	Responsive to passengers' needs	·	·	·	·	·	·	○
=8	Are friendly and approachable	·	·	·	●	·	·	·
=8	Easy as possible for its passengers	·	·	·	·	·	·	·
10	Freedom to do what you want	·	·	○	·	·	·	○
11	Different itineraries and durations	·	·	○	○	·	·	○
12	5 star cruise experience	·	●	○	·	·	·	○
13	Personalised service	○	·	○	·	○	·	○
=14	Wide choice of things to do onboard	·	·	○	·	·	·	○
=14	Accommodation at wide price range	·	·	·	·	·	·	·
=16	High quality entertainment	·	·	○	○	·	·	○
=16	Wide range of dining onboard	·	·	○	·	·	·	○
18	Would cruise with time and time again	○	·	○	·	○	·	○
19	Diverse programme of activities ashore	·	·	○	·	·	·	·



Grammar of Graphics

1. **Data**
2. **Transformations**
3. **Marks**
4. **Encoding** - mapping from fields to mark properties
5. **Scale** - functions that map data to visual scales
6. **Guides** - visualizations of scales (axes, legends, etc.)

https://github.com/ft-interactive/chart-doctor/blob/master/visual-vocabulary/Visual-vocabulary.pdf

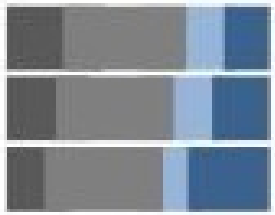


https://stephanieevergreen.com/qualitative-chart-chooser-3/

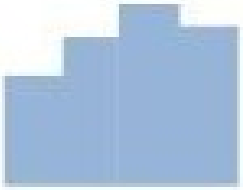
THESE ARE THE PARTS OF THIS WHOLE

Pie/Donut

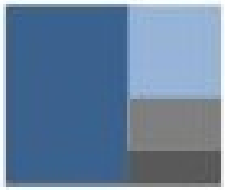
Stacked Bar



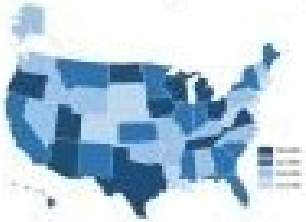
Histogram



Tree Map



Map



FOR BRANCHING QUESTIONS!

VISUALIZE OPEN-ENDED COMMENTS

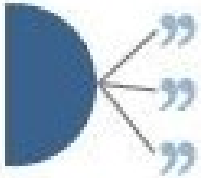
Quote & Pic

Word cloud

Stock photo Rep

Heat Map

Prezi

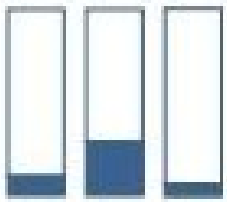


ALSO GOOD FOR SHOWING FLOW

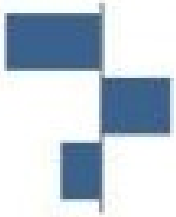
HEY, THINGS CHANGED OVER TIME

Line

Stacked Column



Deviation Bar



Slopegraph

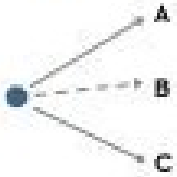
Dot Plot

Sankey

THIS THING CHANGES WHEN THAT THING DOES

Scatterplot

Draw It

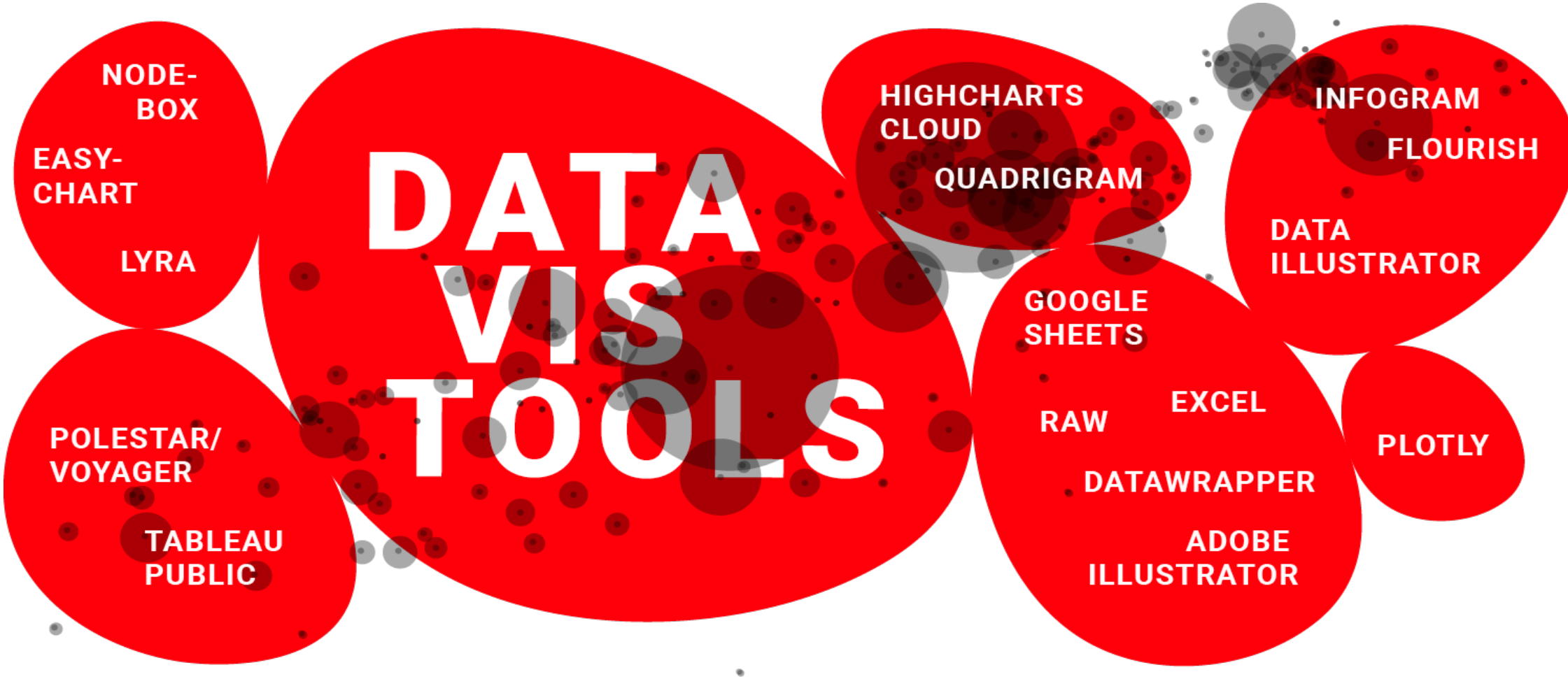


FOR MORE SEE

STEPHANIEEVERGREEN.COM/TAG/STEP-BY-STEP

STEPHANIEEVERGREEN.COM/BLOG

PRESENTING DATA EFFECTIVELY



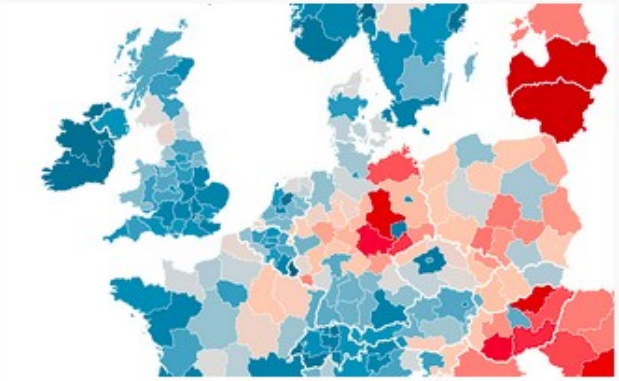
https://lisacharlotterost.de/datavistools-revisited

Datawrapper

+ New Chart | New Map | New Table | River | My Charts

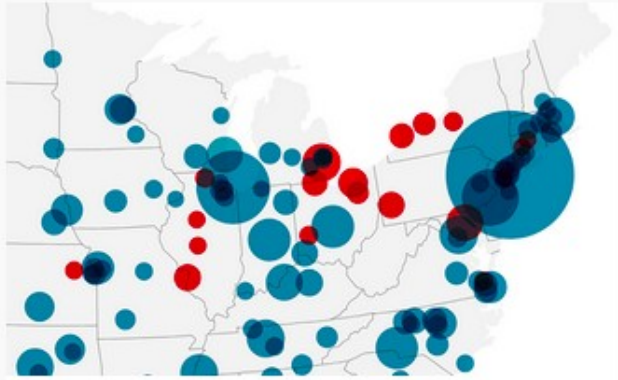
Hi! What type of map do you want to create?

Choose the map type that will show your data best:



Choropleth map

Color regions to show data like unemployment rates or election results on a map. Upload your own map or use any of our more than 1000 maps. The resulting map is responsive & interactive.

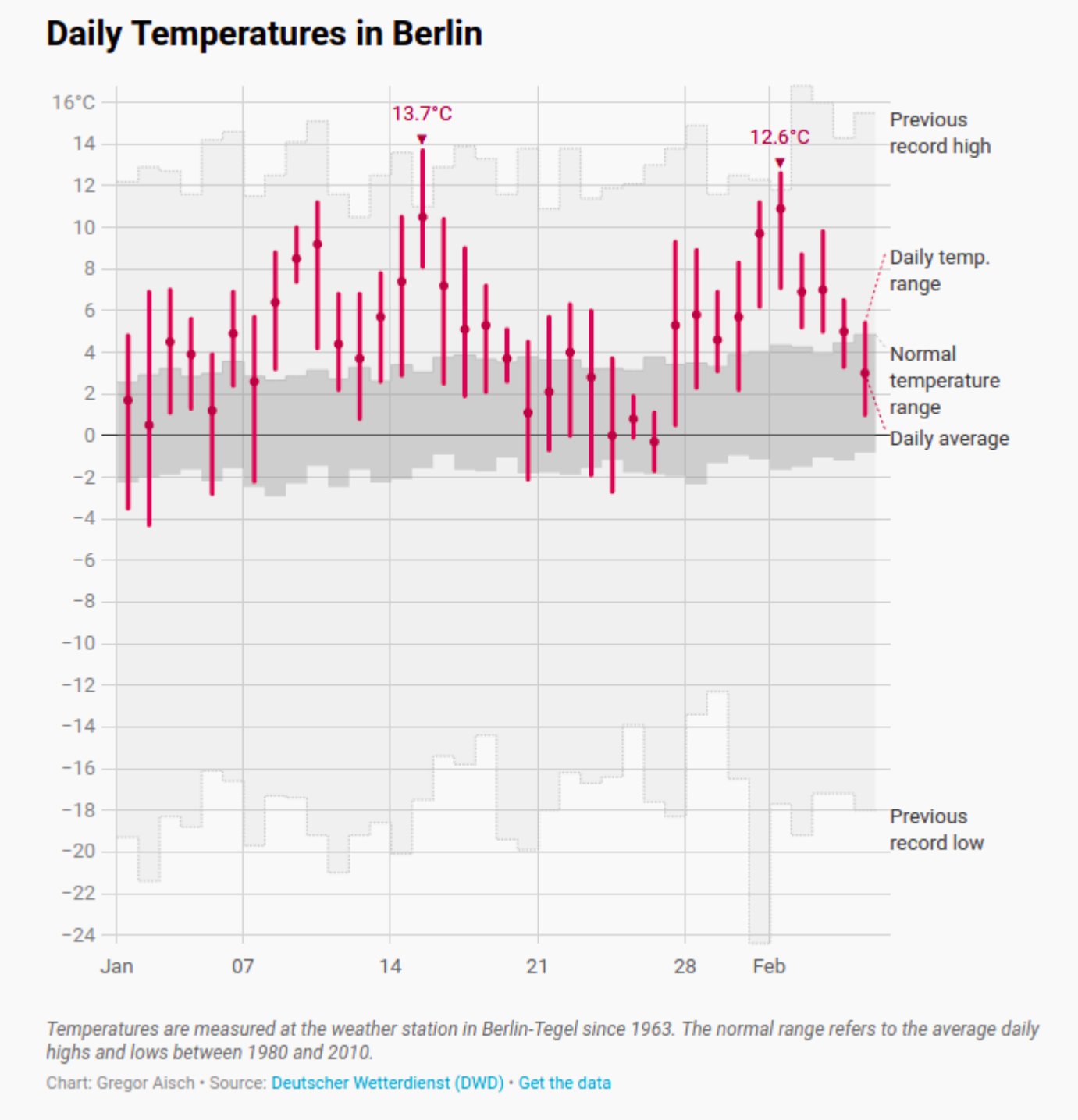


Symbol map

Create symbols sized and colored according to your data. Works great for specific locations (like cities). Upload your own map or use any of our more than 1000 maps. The resulting map is responsive & interactive.

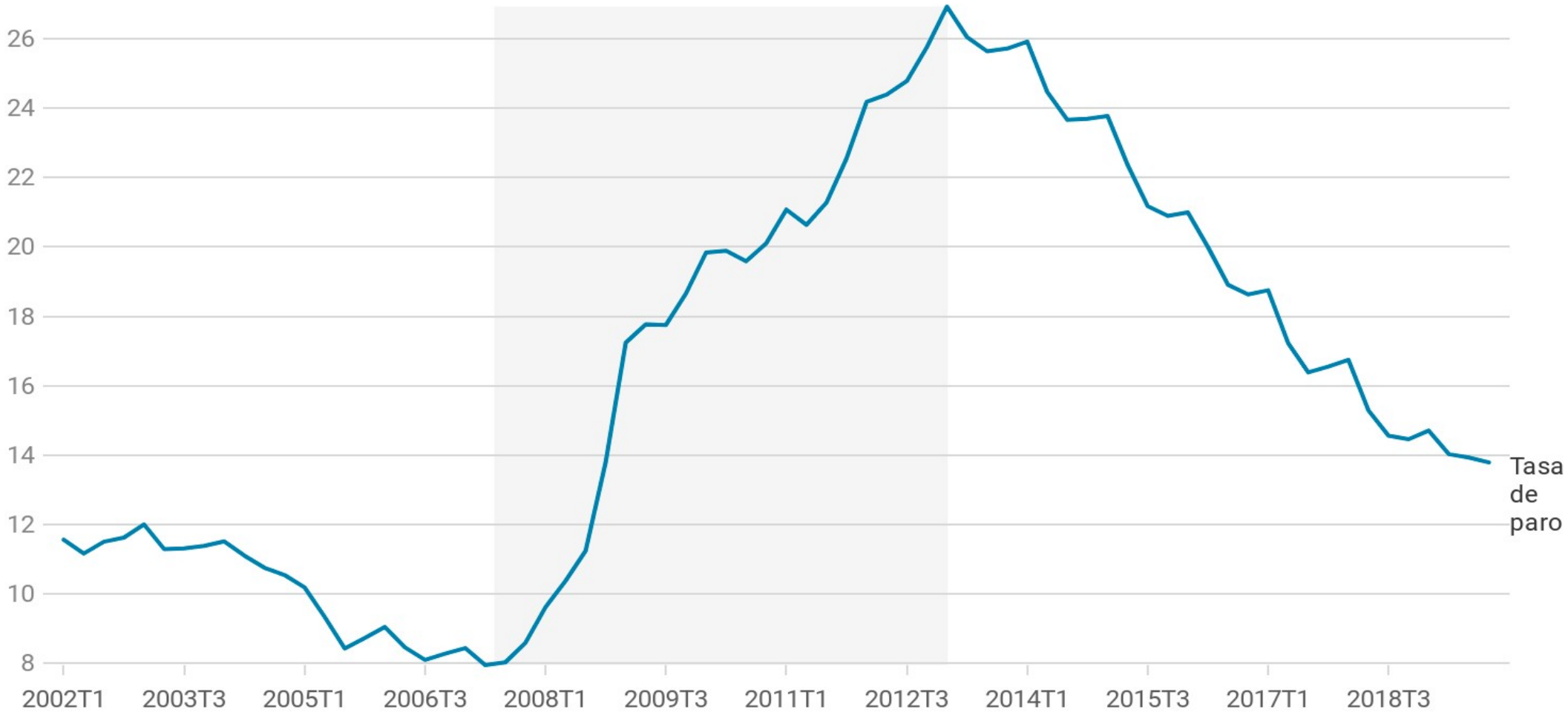
Locator map

Add markers to a map to show where something is located or happened, e.g. events within a city. Perfect for showing readers the places you mention in an article. The resulting map is responsive and static.



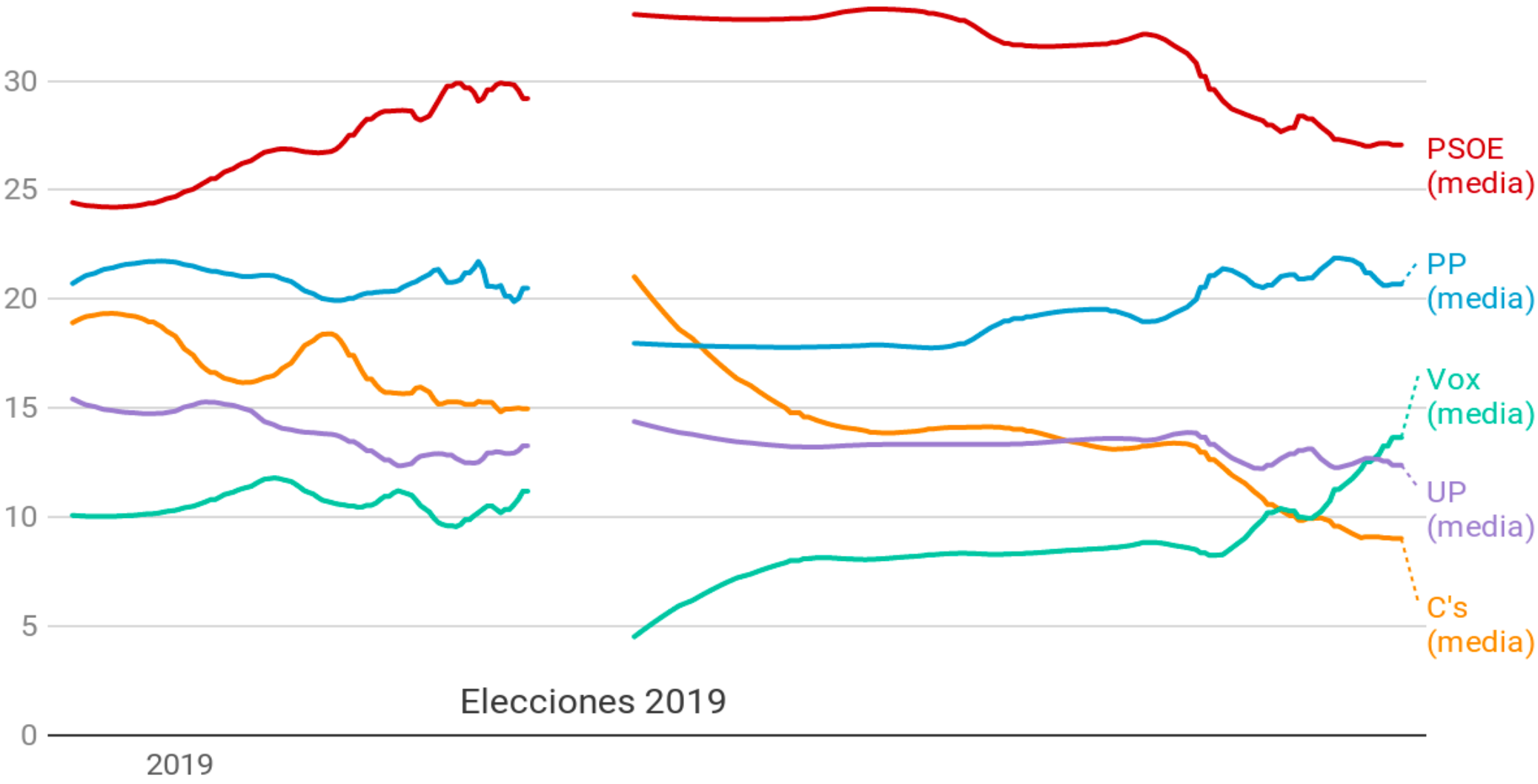
https://blog.datawrapper.de/weekly-temperature-chart/

Evolución paro en España

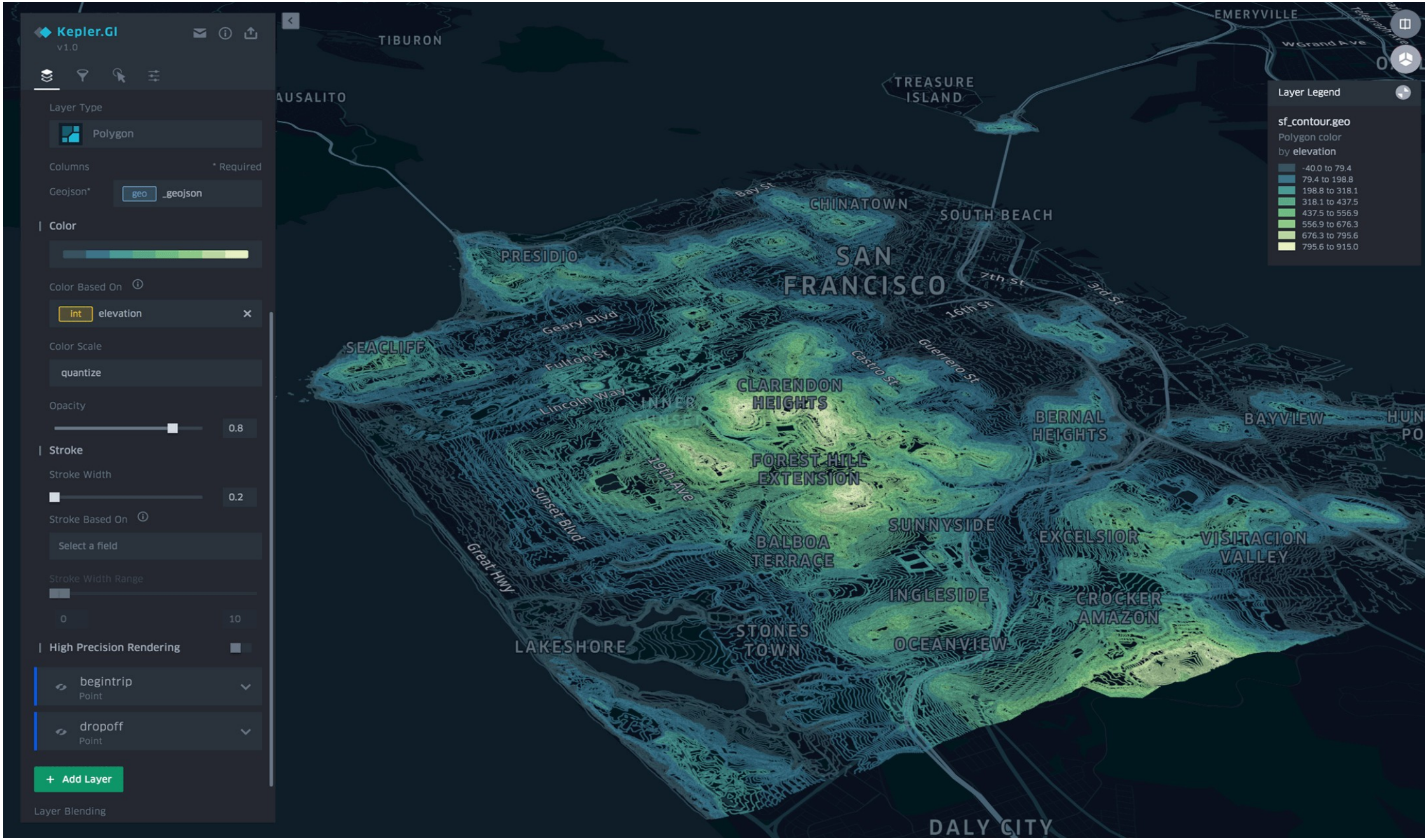


• Created with Datawrapper

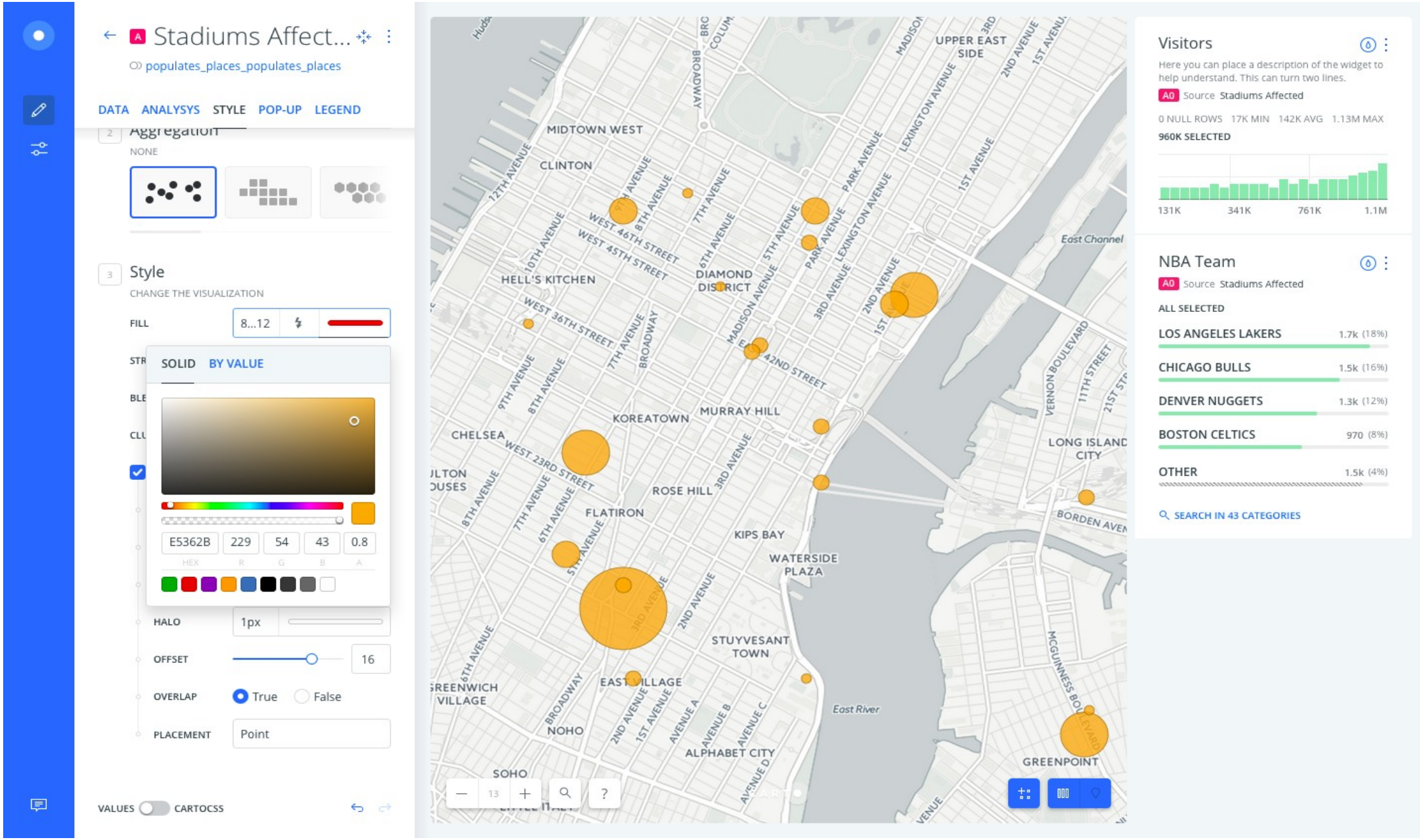
Encuestas electorales

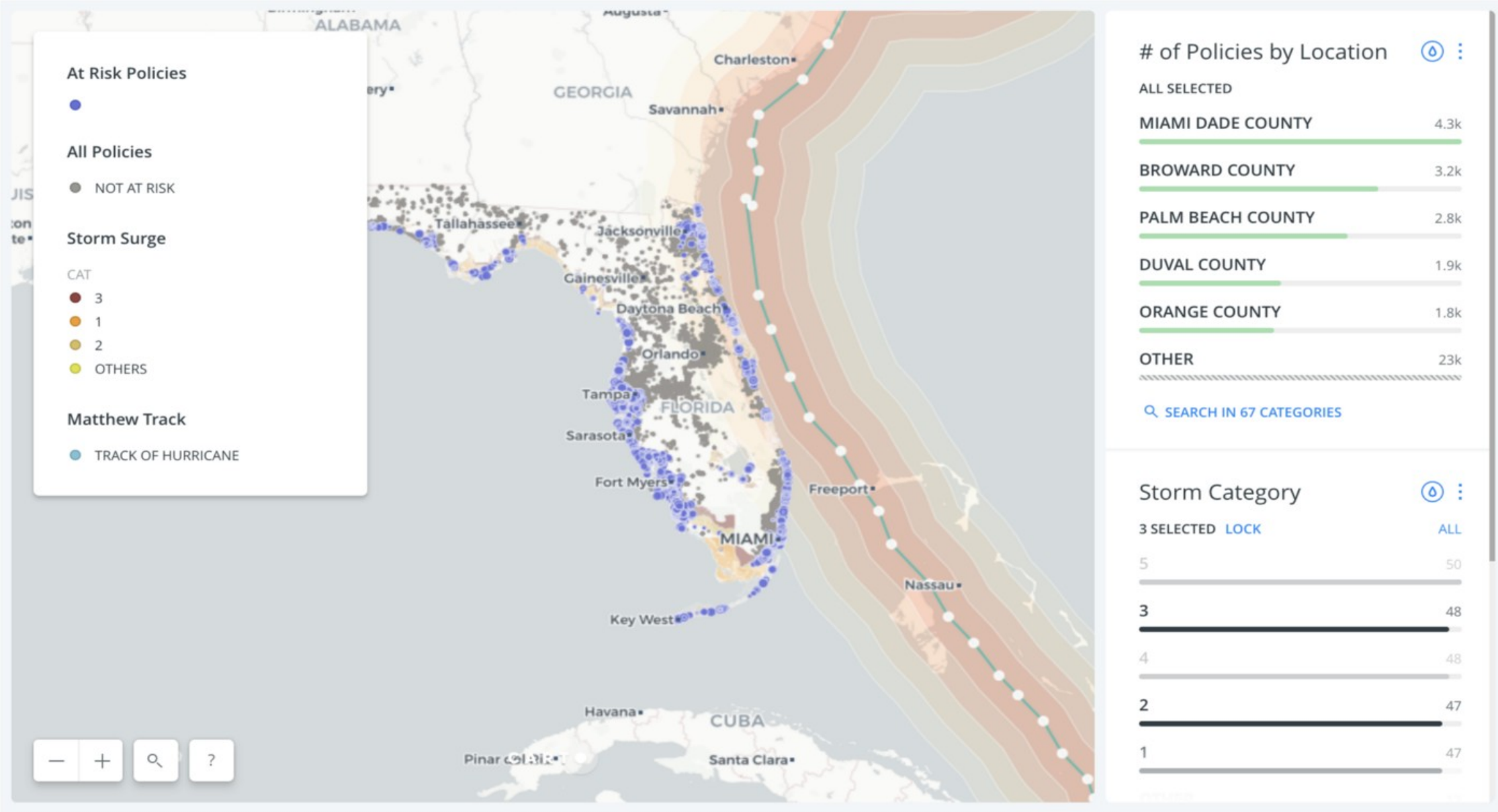


• Created with Datawrapper



https://kepler.gl/


Stadiums Affect...
populates_places_populates_places
DATA
ANALYSYS
STYLE
POP-UP
LEGEND
2 Aggregation
NONE
3 Style
CHANGE THE VISUALIZATION
FILL
8...12
SOLID
BY VALUE
E5362B
229
54
43
0.8
HEX
R
G
B
A
HALO
1px
OFFSET
16
OVERLAP
True
False
PLACEMENT
Point
VALUES
CARTOCSS
MIDTOWN WEST
CLINTON
HELL'S KITCHEN
DIAMOND DISTRICT
KOREATOWN
MURRAY HILL
CHELSEA
ROSE HILL
FLATIRON
KIPS BAY
WATERSIDE PLAZA
STUYVESANT TOWN
EAST VILLAGE
NOHO
SOHO
ALPHABET CITY
GREENPOINT
UPPER EAST SIDE
LONG ISLAND CITY
East Channel
East River
Visitors
Here you can place a description of the widget to help understand. This can turn two lines.
A0 Source Stadiums Affected
0 NULL ROWS 17K MIN 142K AVG 1.13M MAX
960K SELECTED
131K
341K
761K
1.1M
NBA Team
A0 Source Stadiums Affected
ALL SELECTED
LOS ANGELES LAKERS 1.7k (18%)
CHICAGO BULLS 1.5k (16%)
DENVER NUGGETS 1.3k (12%)
BOSTON CELTICS 970 (8%)
OTHER 1.5k (4%)
SEARCH IN 43 CATEGORIES


At Risk Policies
All Policies
NOT AT RISK
Storm Surge
CAT
3
1
2
OTHERS
Matthew Track
TRACK OF HURRICANE
ALABAMA
GEORGIA
FLORIDA
CUBA
Charleston
Savannah
Tallahassee
Jacksonville
Gainesville
Daytona Beach
Orlando
Tampa
Sarasota
Fort Myers
MIAMI
Freeport
Nassau
Key West
Havana
Santa Clara
# of Policies by Location
ALL SELECTED
MIAMI DADE COUNTY 4.3k
BROWARD COUNTY 3.2k
PALM BEACH COUNTY 2.8k
DUVAL COUNTY 1.9k
ORANGE COUNTY 1.8k
OTHER 23k
SEARCH IN 67 CATEGORIES
Storm Category
3 SELECTED LOCK
ALL
5 50
3 48
4 48
2 47
1 47

Así son las conexiones de los diputados en Twitter: el crecimiento de Vox polariza aún más el Congreso

Los vínculos en la red social de los representantes públicos recién elegidos refleja su aparente falta de interés por las ideas de los oponentes

29

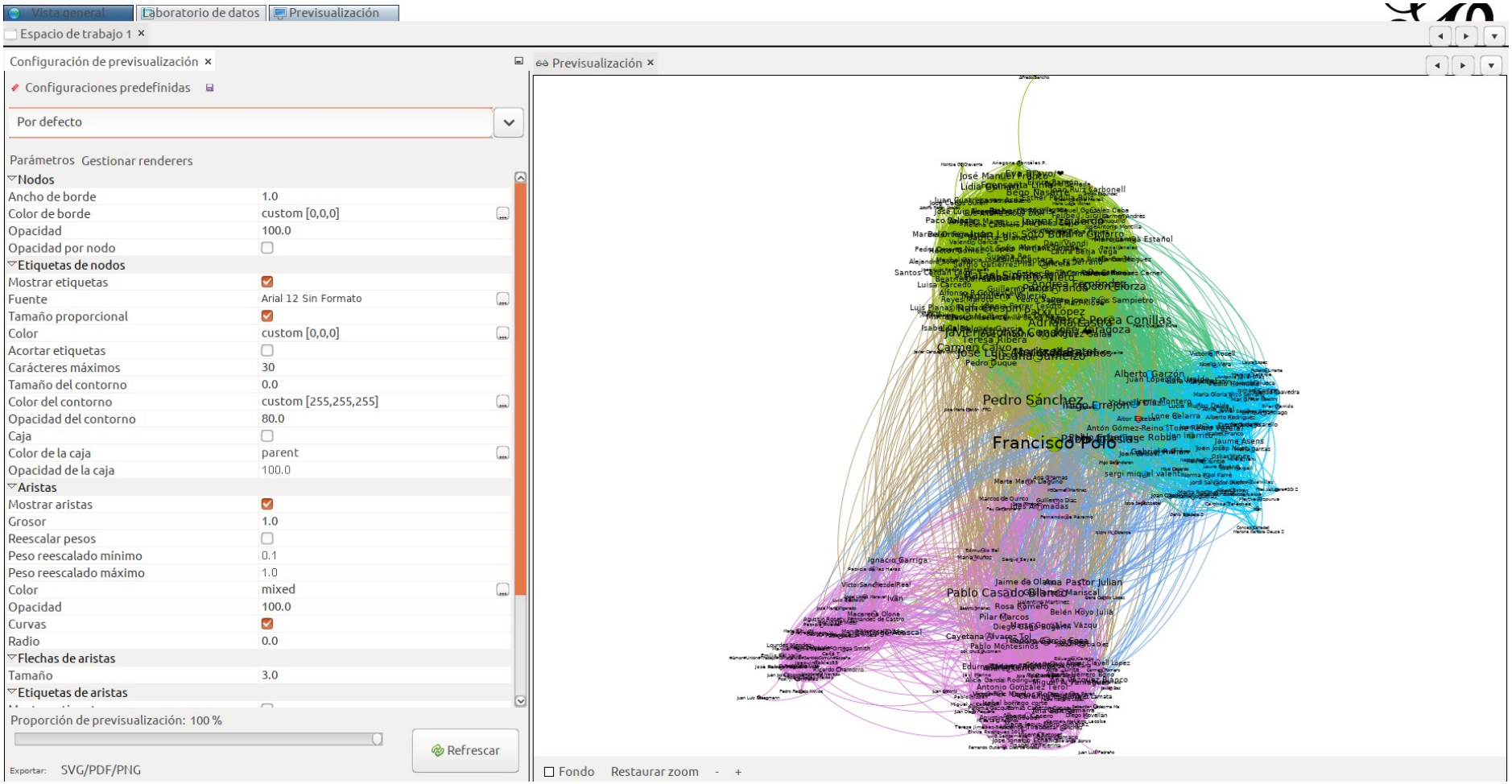
JORDI PÉREZ COLOMÉ

Congreso tuitero

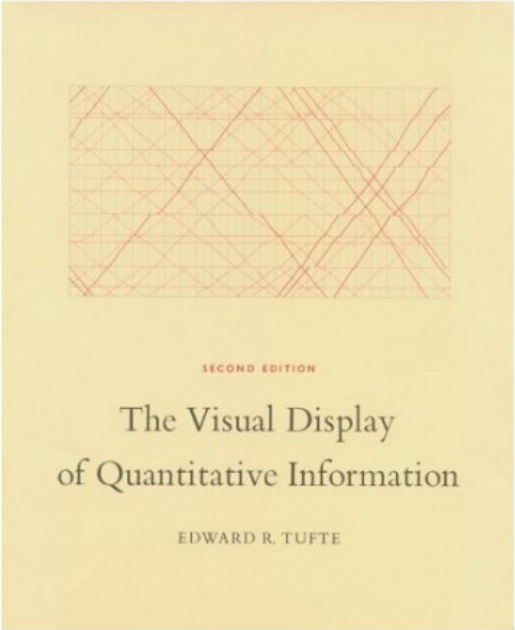
*.gdf

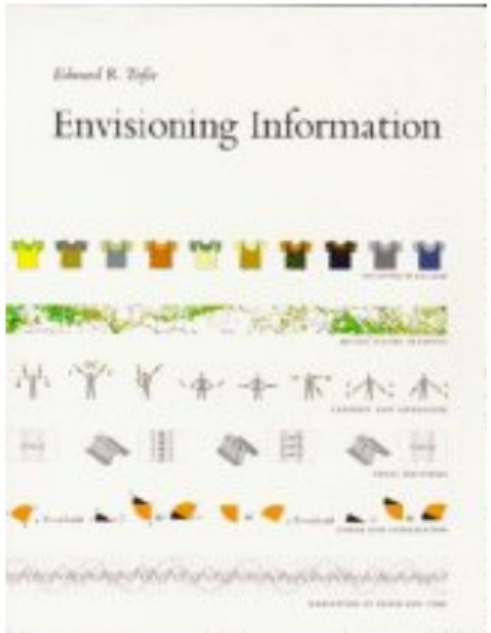
```
nodedef>name VARCHAR,label VARCHAR,partido VARCHAR
0,Pau Marí-Klose,PSOE
1,Ana Prieto Nieto,PSOE
2,Francisco Polo,PSOE
3,Íñigo Errejón,PODEMOS
4,Pablo Iglesias,PODEMOS
5,Pablo Echenique Robba,PODEMOS
6,Pedro Sánchez,PSOE
7,Patxi López,PSOE
edgedef>node1 VARCHAR,node2 VARCHAR
301,16
301,191
301,180
301,183
301,185
301,202
301,195
301,258
301,263
301,184
```

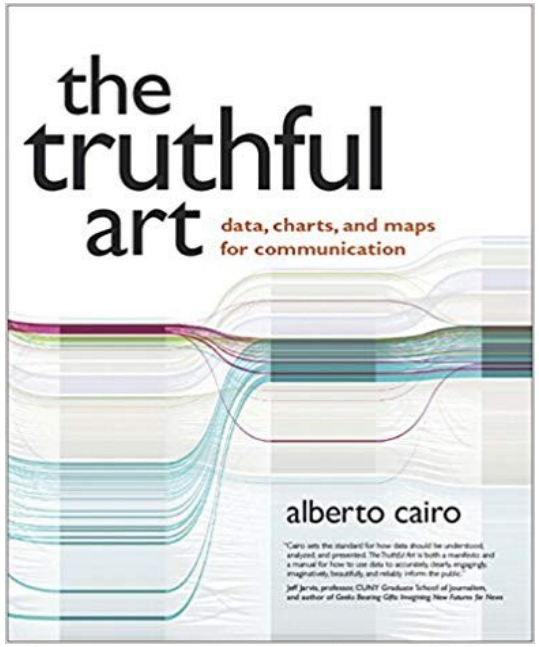
gephi

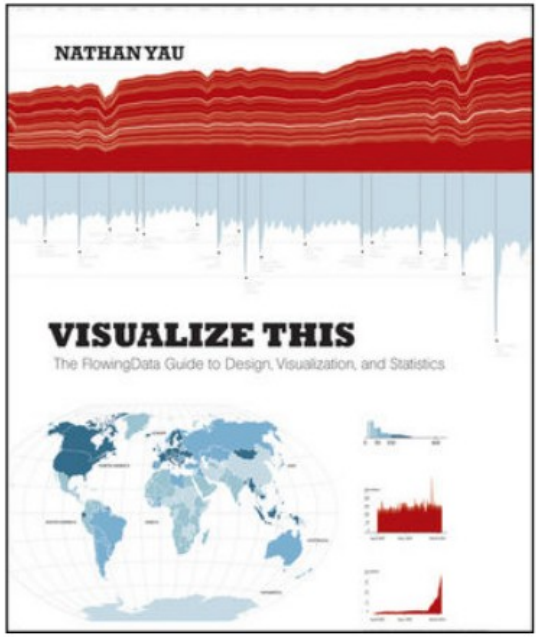


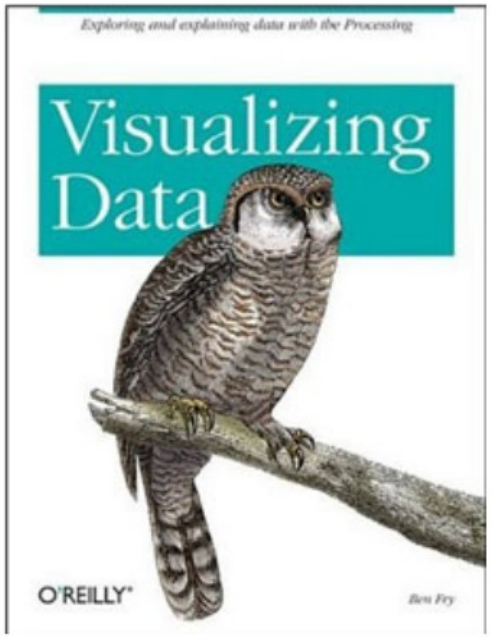
https://gephi.org/

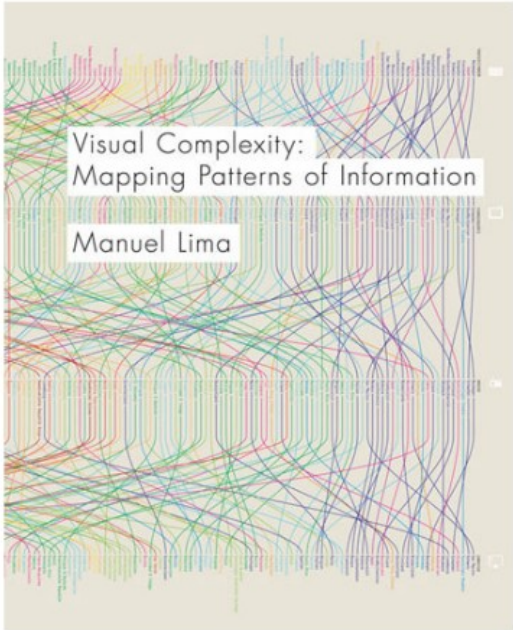

SECOND EDITION
The Visual Display of Quantitative Information
EDWARD R. TUFTE

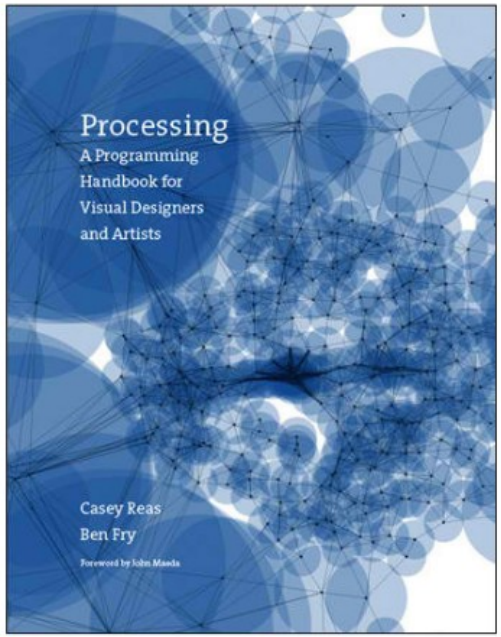

Edward R. Tufte
Envisioning Information

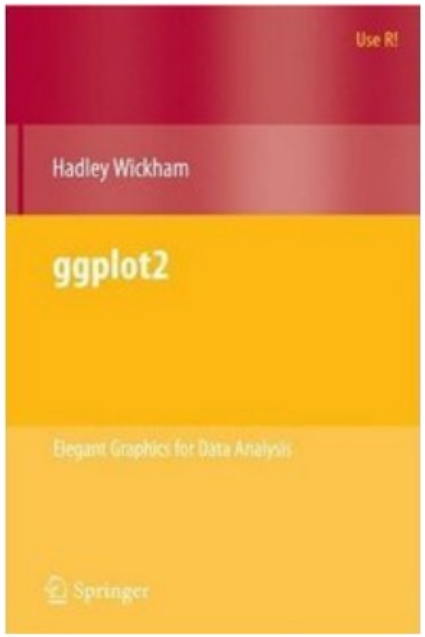

the truthful art
data, charts, and maps for communication
alberto cairo


NATHAN YAU
VISUALIZE THIS
The FlowingData Guide to Design, Visualization, and Statistics


Exploring and explaining data with the Processing
Visualizing Data
O'REILLY
Ben Fry


Visual Complexity: Mapping Patterns of Information
Manuel Lima


Processing
A Programming Handbook for Visual Designers and Artists
Casey Reas
Ben Fry


Use R!
Hadley Wickham
ggplot2
Elegant Graphics for Data Analysis
Springer

Stop
looking,
start
seeing

Pamplona en datos

Taller de análisis y visualización de información

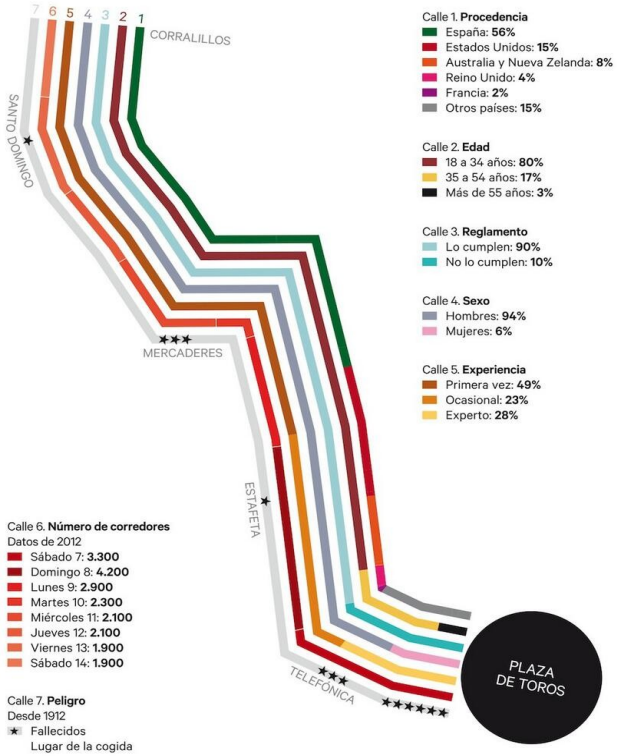
Las técnicas de visualización dan valor a la información obtenida de múltiples fuentes de datos y tienen aplicación a diferentes disciplinas como la comunicación, la sociología, la historia, la biología…

La visualización se ha desarrollado como ayuda al análisis de redes y sistemas complejos, como herramienta de comunicación avanzada o como expresión artística. Se ha divulgado generalmente por Internet y cada vez encontramos más herramientas de visualización y plataformas para desarrollar visualizaciones ad hoc.

Ya falta menos para #hacksanfermin

21 – 23 DE OCTUBRE DE 2016, PALACIO DEL CONDESTABLE, PAMPLONA

Rio Arga
Parque Taconera
AVENIDA DEL EJÉRCITO
2013
SANFERMÍN
PAMPLONA
IRUÑA
6 al 14 de julio
Uztailaren 6tik 14
Plaza de la Cruz
Plaza Conde Rodezno

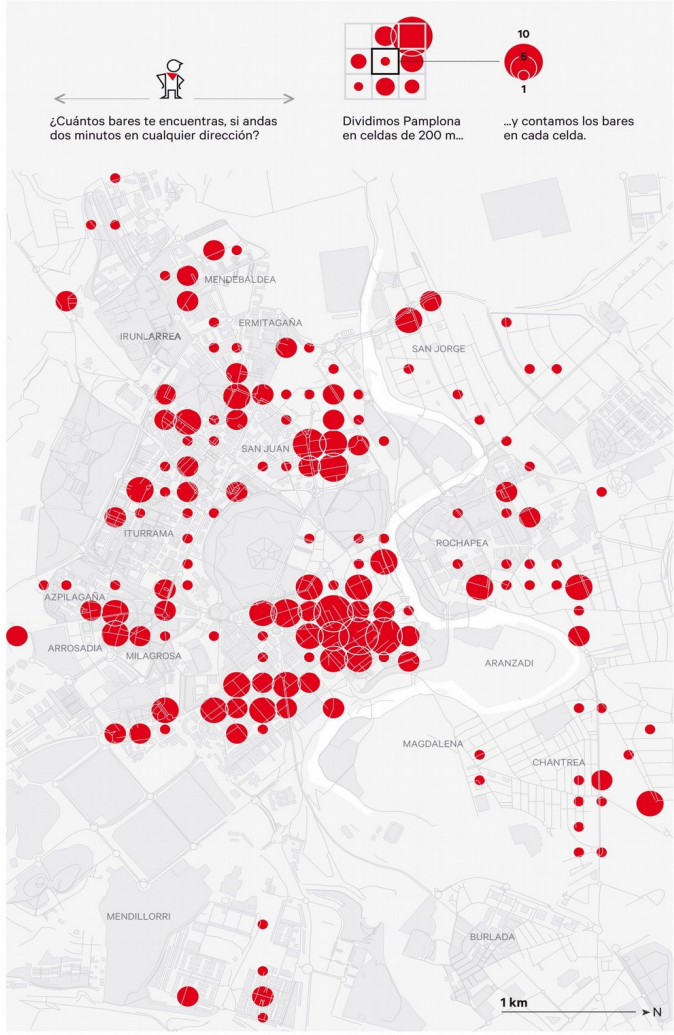


FUENTE: AYUNTAMIENTO DE PAMPLONA.

Retrato robot del corredor del encierro

JAN SCHWOCHOW
GOLDEN SECTION GRAPHICS
BERLÍN, ALEMANIA

Más de 20.000 personas de procedencia y características muy diversas corren cada año el encierro. Una encuesta del Ayuntamiento de Pamplona permite dibujar el perfil del corredor tipo: hombre, español, menor de 35 años, ha descansado por la noche, cumple las normas de seguridad recomendadas y corre por primera vez en su vida acompañado de amigos.

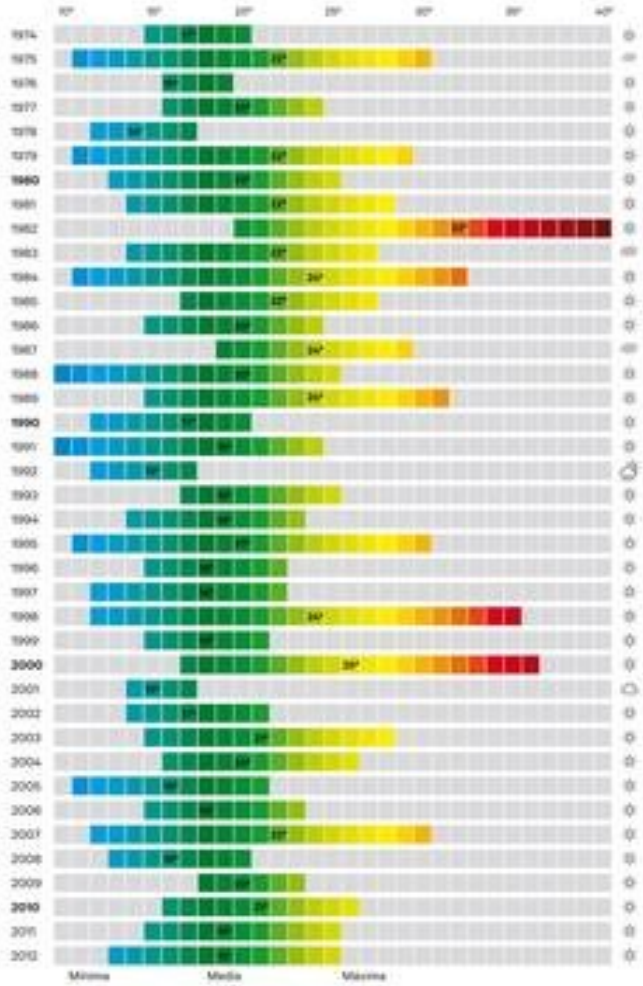


FUENTES: PÁGINAS AMARILLAS, GOOGLE MAPS, ANAPEH.

Un mar de bares

XAQUÍN GONZÁLEZ
THE NEW YORK TIMES
NUEVA YORK, EE.UU

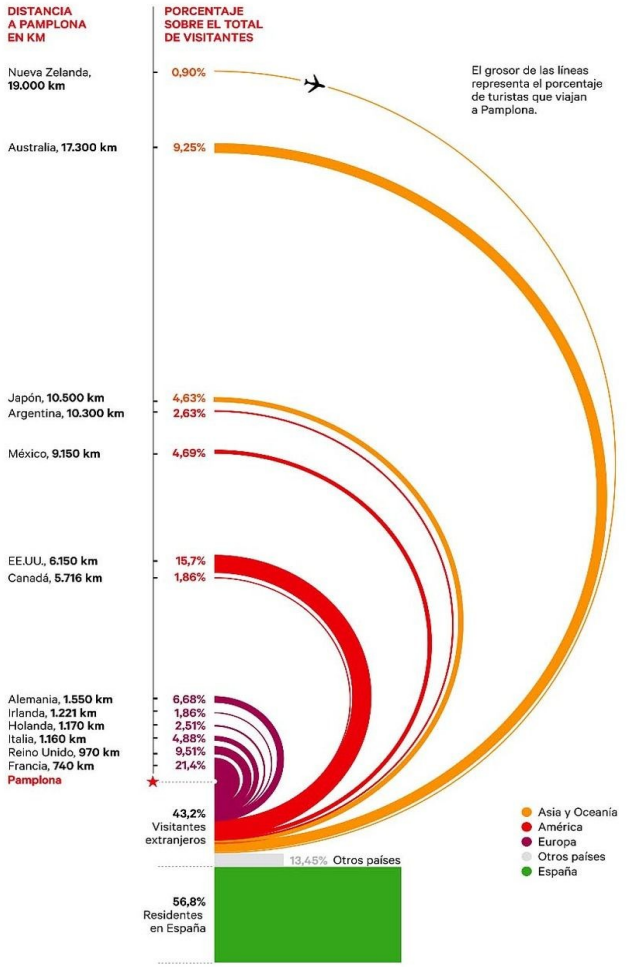
Páginas Amarillas, Google y la Asociación Navarra de Pequeña Empresa de Hostelería [ANAPEH] ofrecen datos para trazar un mapa callejero muy particular: el de los bares de Pamplona. Y descubrir así las zonas más densamente 'pobladas' por estos establecimientos indispensables en la fiesta. En la ciudad se contabilizan 290, lo que arroja un índice de 1,46 bares por cada mil habitantes.



Verano sí, pero sin sofocos

FREDERIK RUYS
VOLKSKRANT
AMSTERDAM, HOLANDA

El chupinazo más caluroso de los últimos cuarenta años fue el de 1992. La temperatura media del día 6 de julio de ese año llegó a los 32ºC. En el otro extremo, los Sanfermines más fríos fueron los de 1978, apenas 14ºC de media, según el Observatorio Meteorológico de Noáin. En Pamplona, ya se sabe, no hay que olvidar nunca la chaqueta.



FUENTES: OFICINA DE TURISMO DEL GOBIERNO DE NAVARRA, OBSERVATORIO TURÍSTICO DE PAMPLONA.

El mapamundi de los Sanfermines

PABLO LOSCRI
CLARÍN
BUENOS AIRES, ARGENTINA

Pamplona es por Sanfermines una ciudad del mundo. El 43% de los visitantes son extranjeros; de ellos, el 21% franceses, el 15% estadounidenses y el 9% australianos. Este gráfico muestra la procedencia de los que nos visitan. Combina dos factores: la distancia recorrida y el porcentaje que cada nacionalidad supone sobre el total de visitantes.

Maria y Javier, destronados
Maria eta Javier, tronugabetuak
De Pamplona a...
Iruñetik zenbatera?
El cielo de Pamplon
Iruñeko zerua

DN.LABORATORIO

EL LABORATORIO

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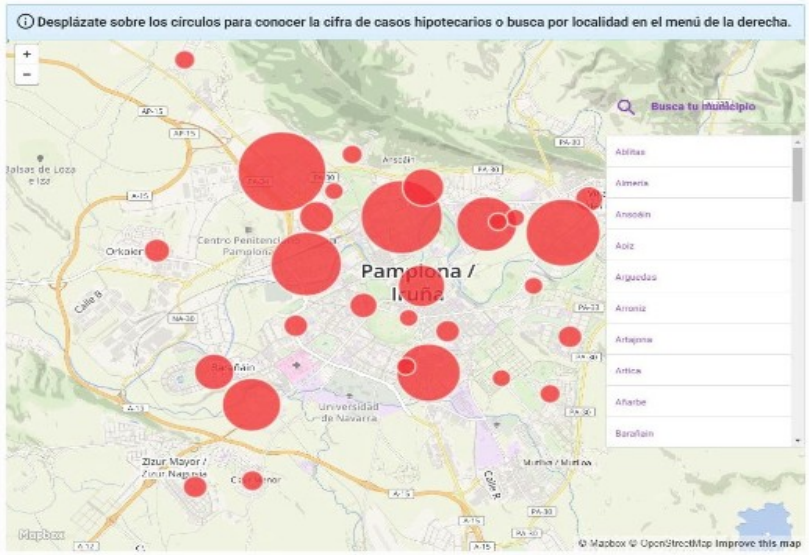
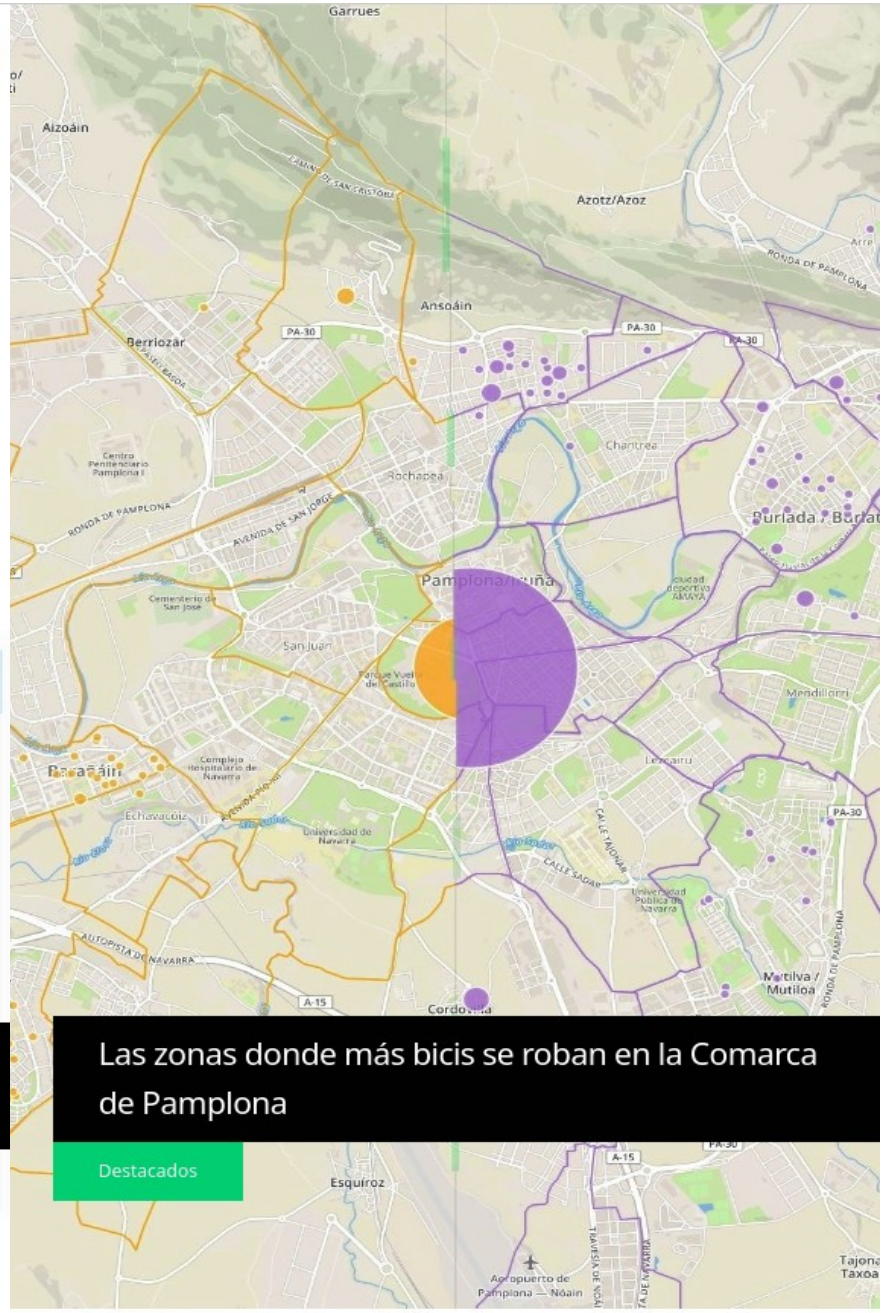


Los desahucios amenazaron a más de 500 familias en Navarra en el último año

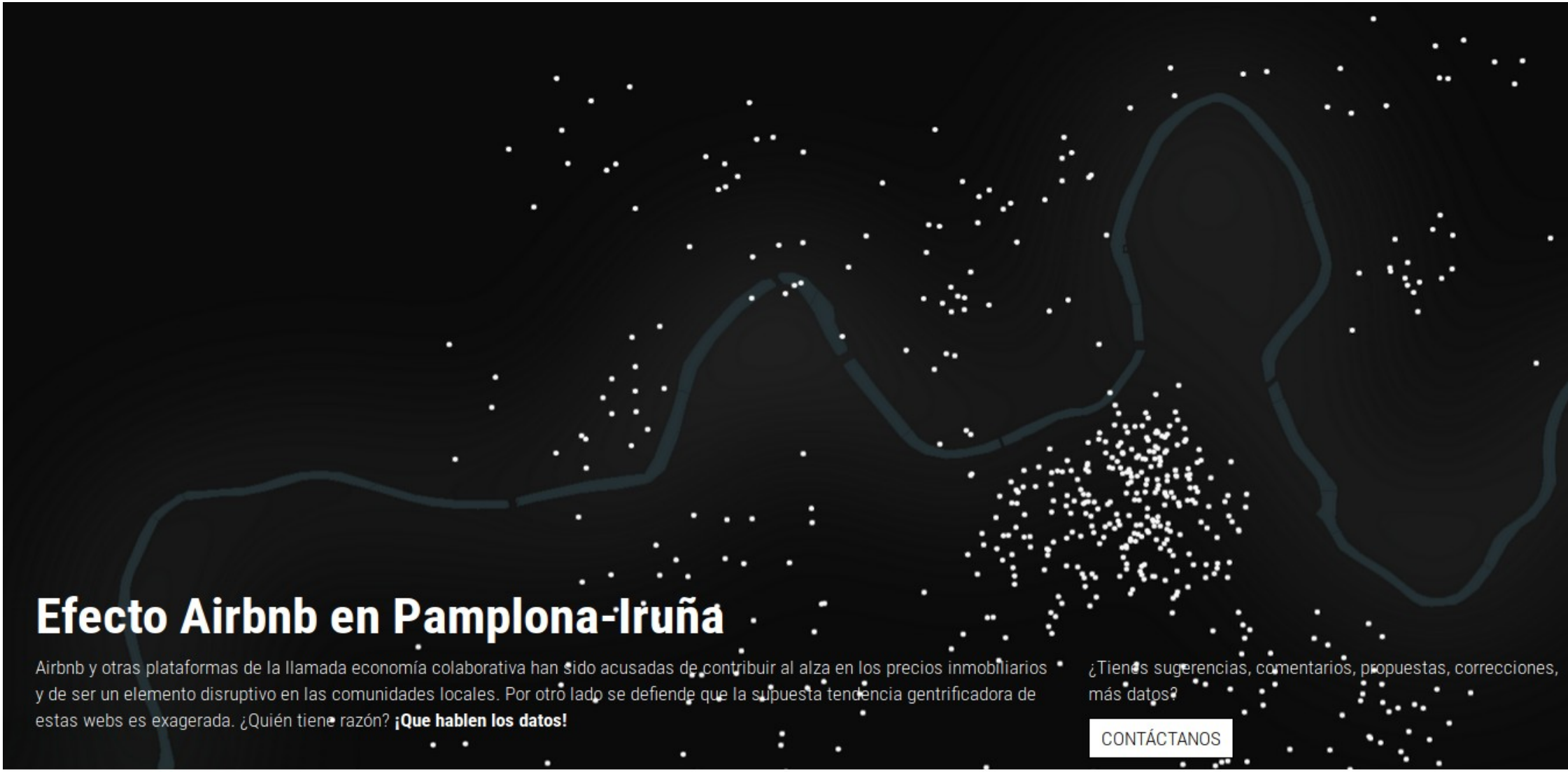
Destacados



Las zonas donde más bicis se roban en la Comarca de Pamplona

Destacados

http://laboratorio.diariodenavarra.es/



Efecto Airbnb en Pamplona-Iruña

Airbnb y otras plataformas de la llamada economía colaborativa han sido acusadas de contribuir al alza en los precios inmobiliarios y de ser un elemento disruptivo en las comunidades locales. Por otro lado se defiende que la supuesta tendencia gentrificadora de estas webs es exagerada. ¿Quién tiene razón? **¡Que hablen los datos!**

¿Tienes sugerencias, comentarios, propuestas, correcciones, más datos?

CONTÁCTANOS

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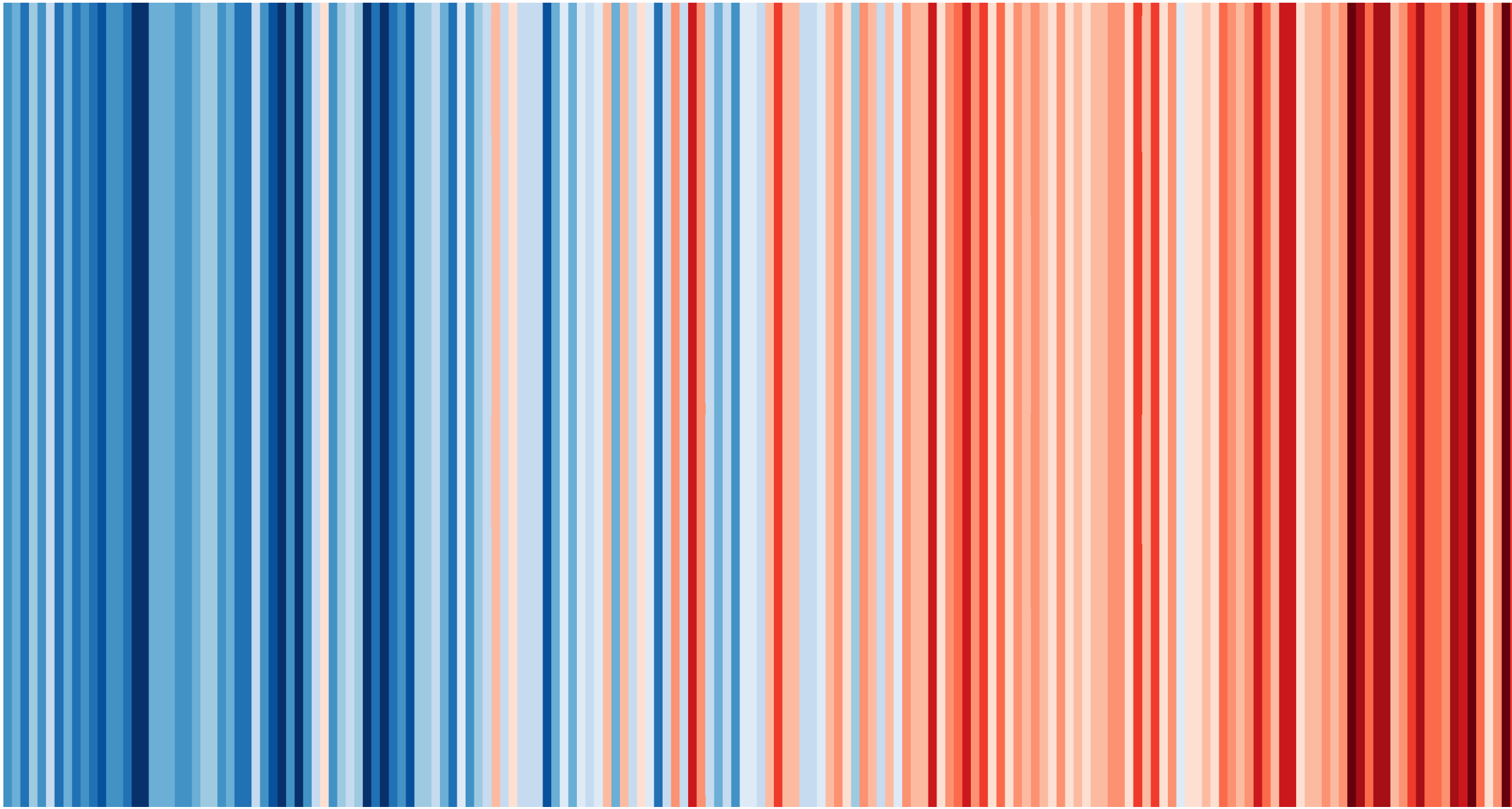

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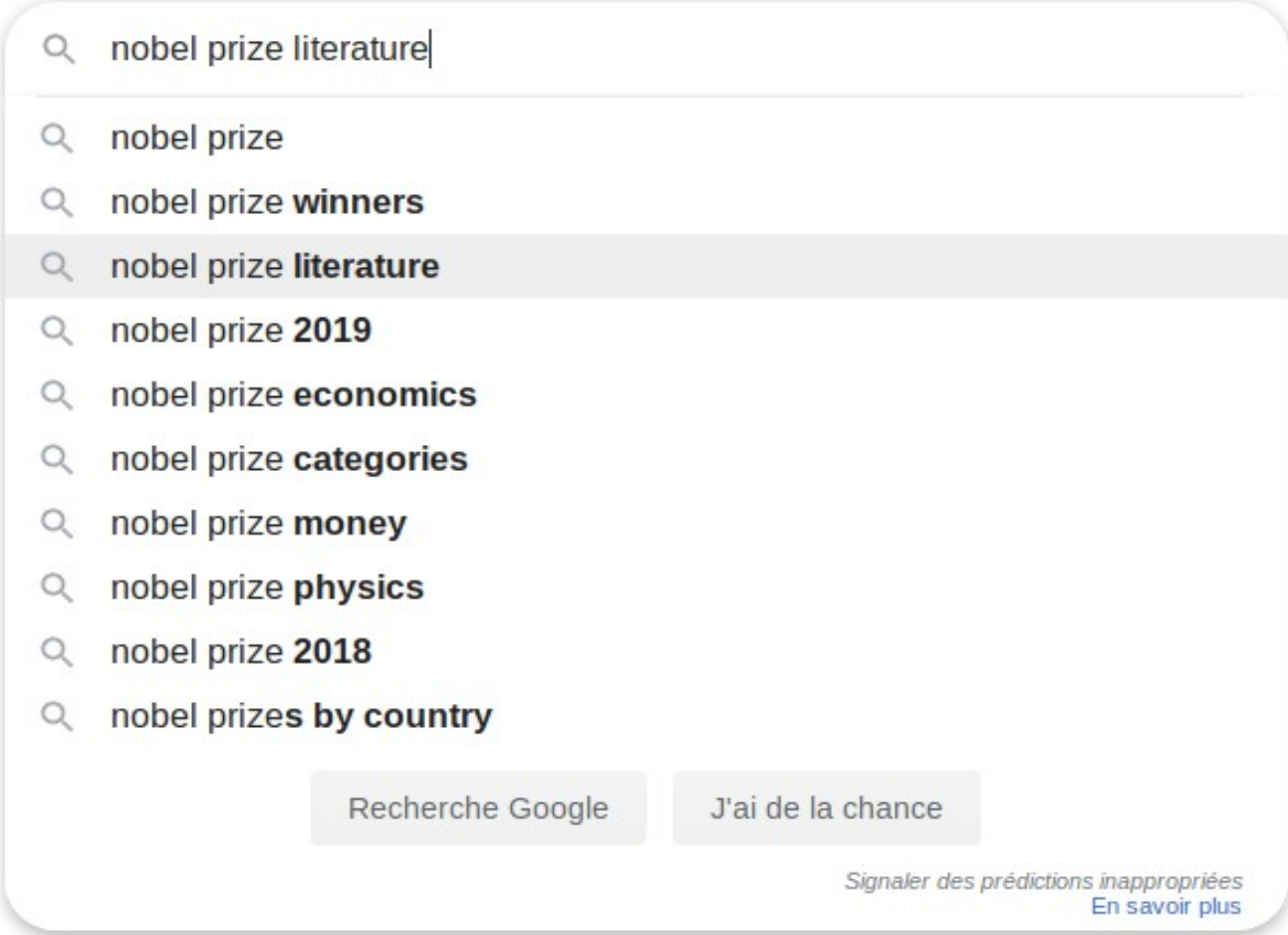
La web semántica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Environ 7 350 000 résultats (0,42 secondes)

Littérature : Olga Tokarczuk prix **Nobel** 2018, Peter Handke ...
Le Parisien - il y a 9 heures
The **Nobel Prize** in **Literature** for 2018 is awarded to the Polish author Olga Tokarczuk. The **Nobel Prize** in **Literature** for 2019 is awarded to the ...

Nobel prize in **literature**: reactions after Olga Tokarczuk and ...
The Guardian - il y a 8 heures
The Nobel committee decides to dig itself out of scandal by awarding this year's **Nobel prize** in **literature** to an Austrian defender of Milosevic ...

Why this year's doubleheader **Nobel Prize** for **literature** is so ...
Vox - il y a 3 heures

Watch again: Swedish Academy awards two **Nobel Prizes** in ...
euronews - il y a 9 heures

Double **Nobel Prizes** for **literature** awarded after sex scandal ...
CBS News - il y a 8 heures

Two Authors Just Won the **Nobel Prize** for **Literature**. Here's ...
Exhaustif - TIME - il y a 1 heure

Olga Tokarczuk and Peter Handke awarded back-to-back ...
Blog - The Week Magazine (blog) - il y a 8 heures

Tout afficher

Olga Tokarczuk and Peter Handke win **Nobel Prize** for ...
BBC News - il y a 8 heures
Polish author Olga Tokarczuk and Austria's Peter Handke have been awarded the **Nobel Prize** for **Literature**. Two winners were named - one ...

Last Year's **Nobel Prize** in **Literature** Was Canceled Over ...
Exhaustif - TIME - 9 oct. 2019

Google

olga tokarczuk

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Aproximadamente 14.300.000 resultados (0,53 segundos)

es.wikipedia.org › wiki › Olga_Tokarczuk

Olga Tokarczuk - Wikipedia, la enciclopedia libre

Olga Nawoja **Tokarczuk** (Sulechów, Polonia, 29 de enero de 1962) es una escritora y ensayista polaca, autora de adaptaciones escénicas, poeta y psicóloga.

Nacionalidad: Polaca **Partido político**: The Greens (desde 2004)
Hijos: 1 **Educada en**: Universidad de Varsovia

Biografía · Trayectoria · Obra publicada · Premios

elpais.com › Cultura

Todo lo que debe saber sobre Olga Tokarczuk | Cultura | EL ...

10 oct. 2019 - Subido por EL PAIS

La escritora polaca **Olga Tokarczuk** ha sido galardonado con el Premio Nobel de Literatura de 2018 que ...

www.casadellibro.com › Autores

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wmagazin.com › relatos › la-nobel-de-literatura-olga-tokarczuk-reivin...

La Nobel de Literatura Olga Tokarczuk reivindica la ternura ...

9 dic. 2019 - **Olga Tokarczuk** obtuvo el Nobel «por una imaginación narrativa que con pasión enciclopédica representa el cruce de fronteras como una ...

www.anagrama-ed.es › autor › tokarczuk-olga-2441

Tokarczuk, Olga - Editorial Anagrama

Olga Tokarczuk es una de las mejores y más celebradas escritoras polacas actuales, ha recibido el Premio Nobel de Literatura...

www.eldiario.es › cultura › tres-libros-descubrir-fascinante-narrador ...

Olga Tokarczuk

Escritora

Olga Nawoja Tokarczuk es una escritora y ensayista polaca, autora de adaptaciones escénicas, poeta y psicóloga. Ganadora del Premio Literario Nike de literatura polaca y del Premio Nobel de Literatura de 2018 anunciado el 10 de octubre de 2019. Wikipedia

Fecha de nacimiento: 29 de enero de 1962 (edad 58 años), Sulechów, Polonia

Nombre en polaco: Olga Nawoja Tokarczuk

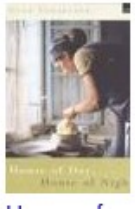
Géneros: Poesía, ensayo, novela, novela histórica y narrativa

Cónyuge: Roman Fingas

Premios: Premio Nobel de Literatura, MÁS

Libros

Ver otros 25



Olga Tokarczuk

Olga Nawoja Tokarczuk (Sulechów, Polonia, 29 de enero de 1962) es una escritora y ensayista polaca, autora de adaptaciones escénicas, poeta y psicóloga. Ganadora del Premio Literario Nike de literatura polaca y del Premio Nobel de Literatura de 2018 anunciado el 10 de octubre de 2019.[1]

Índice [ocultar]

1 Biografía
2 Trayectoria
3 Obra publicada
4 Premios
5 Referencias
6 Enlace externo

Biografía [editar]

Graduada en psicología por la Universidad de Varsovia. Durante sus estudios trabajó como voluntaria en la atención de enfermos mentales. Tras graduarse, trabajó como psicoterapeuta en la clínica de salud mental de Walbrzych. En el momento en que sus primeras obras literarias se popularizaron, dejó este trabajo y se mudó a Nowa Ruda para dedicarse a escribir. Actualmente vive en Krajanów, cerca de Nowa Ruda, en los Sudetes. El paisaje y la cultura de esta región se reflejan en varias de sus obras literarias. Imparte talleres de prosa en los estudios de Artes Literarias de la Universidad Jagellónica de Cracovia.

Colabora en la organización del Festival Opowiadania (festival de relatos), en el cual autores polacos y del resto del mundo presentan sus obras. Desde el año 2008 imparte clases de escritura creativa en la Universidad de Opole. Olga Tokarczuk también es miembro del partido Los Verdes desde 2004.

Trayectoria [editar]

Tokarczuk encuentra su inspiración, entre otros ... llan Poe.

Debutó en 1979 en la revista juvenil *Na przełaj*

Como novelista debutó en 1993, con la publica ... de Libros.[*cita requerida*]

En 1995 apareció su segunda novela, *E. E*, que súbitamente.[*cita requerida*]

En 1996 publicó la novela *En un lugar llamado* ... público de dicho certamen

Olga Tokarczuk

Olga Tokarczuk en 2018

Información personal	
Nombre en polaco	Olga Nawoja Tokarczuk
Nacimiento	29 de enero de 1962 (58 años) Sulechów, Polonia
Residencia	Breslavia
Nacionalidad	Polaca
Partido político	The Greens (desde 2004)
Características físicas	
Ojos	Gris
Cabello	Cabello castaño

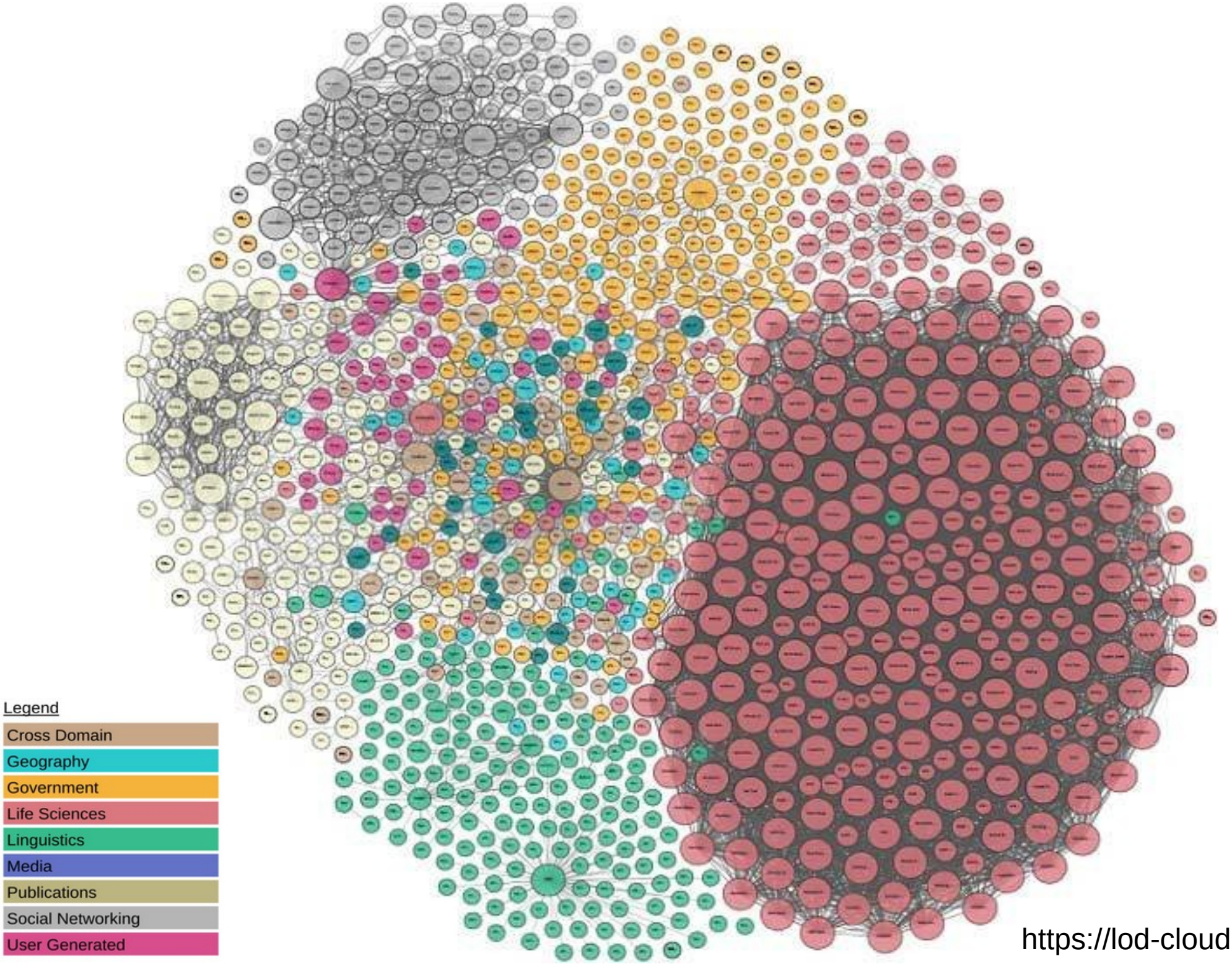
DBpedia Browse using Formats Faceted Browser Sparql Endpoint

About: Olga Tokarczuk

An Entity of Type : persona, from Named Graph : http://dbpedia.org, within Data Space : dbpedia.org

Olga Tokarczuk nació el 29 de enero de 1962 en Sulechów (Polonia). Escritora y ensayista polaca, autora de adaptaciones escénicas, poeta y psicóloga. Ganadora del Premio Literario Nike.

Property	Value
dbo:abstract	▪ Olga Tokarczuk nació el 29 de enero de 1962 en Sulechów (Polonia). Escritora y ensayista polaca, autora de adaptaciones escénicas, poeta y psicóloga. Ganadora del Premio Literario Nike. (es) ▪ Olga Tokarczuk ([tɔˈkartʂuk]; born 29 January 1962) is one of the most critically acclaimed and commercially successful Polish writers of her generation, particularly noted for the hallmark mythical tone of her writing. She trained as a psychologist at the University of Warsaw. She has published a collection of poems, several novels, as well as other books with shorter prose works. Her book Bieguni ("Runners") won the Nike Award 2008. She attended the 2010 Edinburgh Book Festival to discuss her book Primeval and Other Times and other work. For her new novel Księgi jakubowe ("Jacob's Scriptures"), Tokarczuk won the Nike Award again in 2015. Also in 2015 Tokarczuk became a recipient of the German-Polish International Bridge Prize, a recognition extended to persons especially accomplished in the promotion of peace, democratic development and mutual understanding among the people and nations of Europe. (en)
dbo:birthDate	▪ 1962-1-29
dbo:birthPlace	▪ dbr:Sulechów
dbo:thumbnail	▪ wiki-commons:Special:FilePath/Olga_Tokarczuk_2.jpg?width=300
dbo:wikiPageExternalLink	▪ http://www.culture.pl/web/english/resources-literature-full-page/-/eo_event_asset_publisher/eAN5/content/olga-tokarczuk ▪ http://www.twistedspoon.com/tokarczuk.html ▪ http://www.salon.eu.sk/article.php?article=1386-travel-files ▪ http://www.polishwriting.net/?s=author&c=tokarczuk ▪ http://books.guardian.co.uk/impac/story/0,14959,1285756,00.html



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