

A History of Statistical Graphics & Critiquing Statistical Graphics

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36-315

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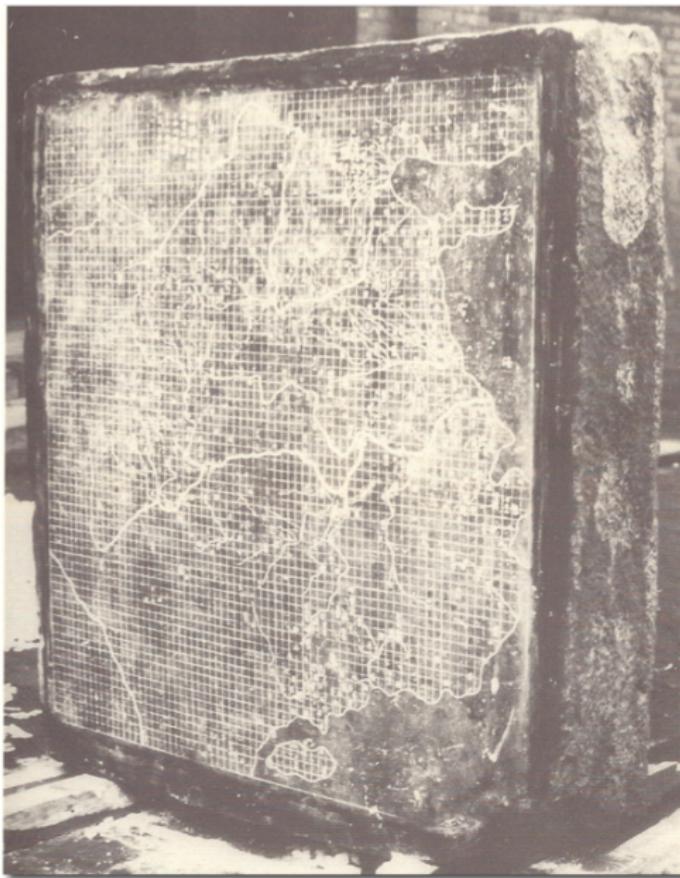
August 29, 2016

Earliest Graphics

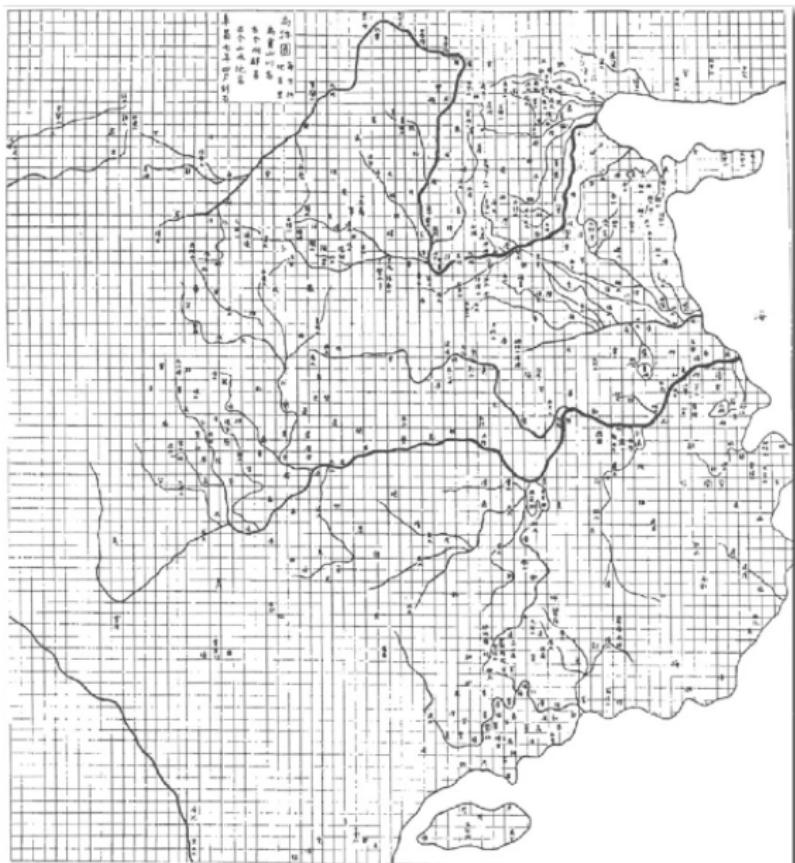
Began with geographic maps:
symbols/colors on clay tablets (5000 years ago)

11th century China: Map of the Tracks of Yu The Great
coastal outline very accurate
high precision of rivers
scale is almost exact
carved into 3-ft wide stone tablet

Map of the Tracks of Yu The Great

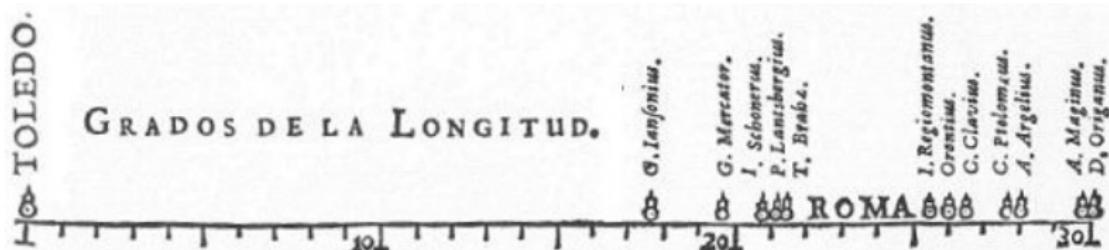


Map of the Tracks of Yu The Great



La Verdadera Longitud por Mar y Toledo

Shows statistical information!



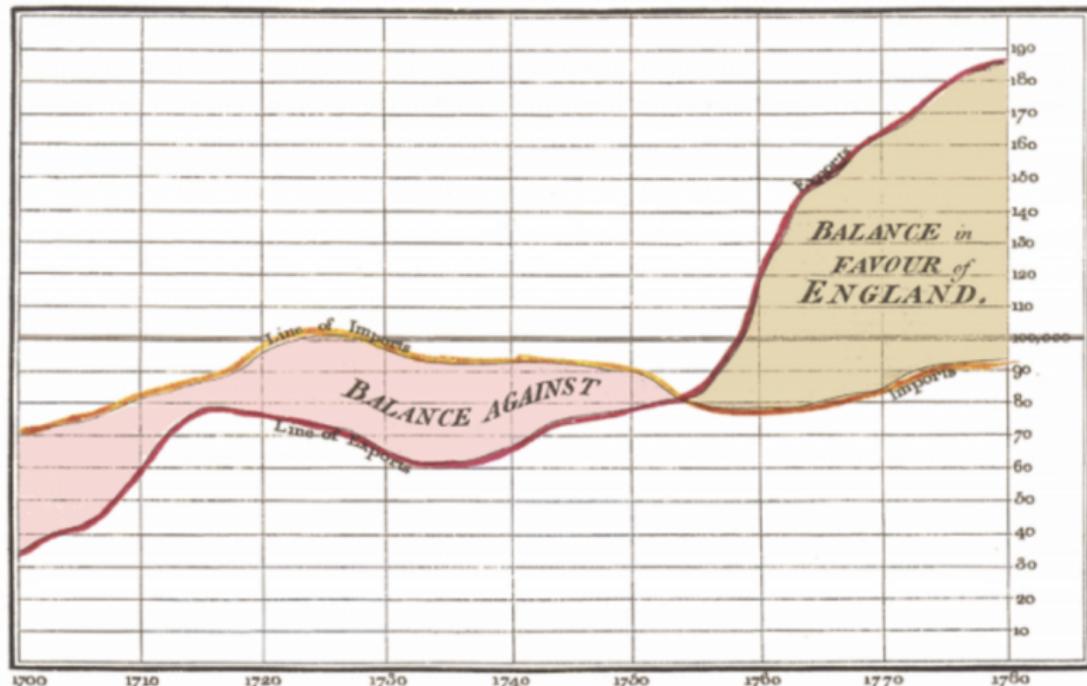
Wide range of estimates of distance from Rome to Toledo

Minard – Exports of French Wine



England's Imports and Exports

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

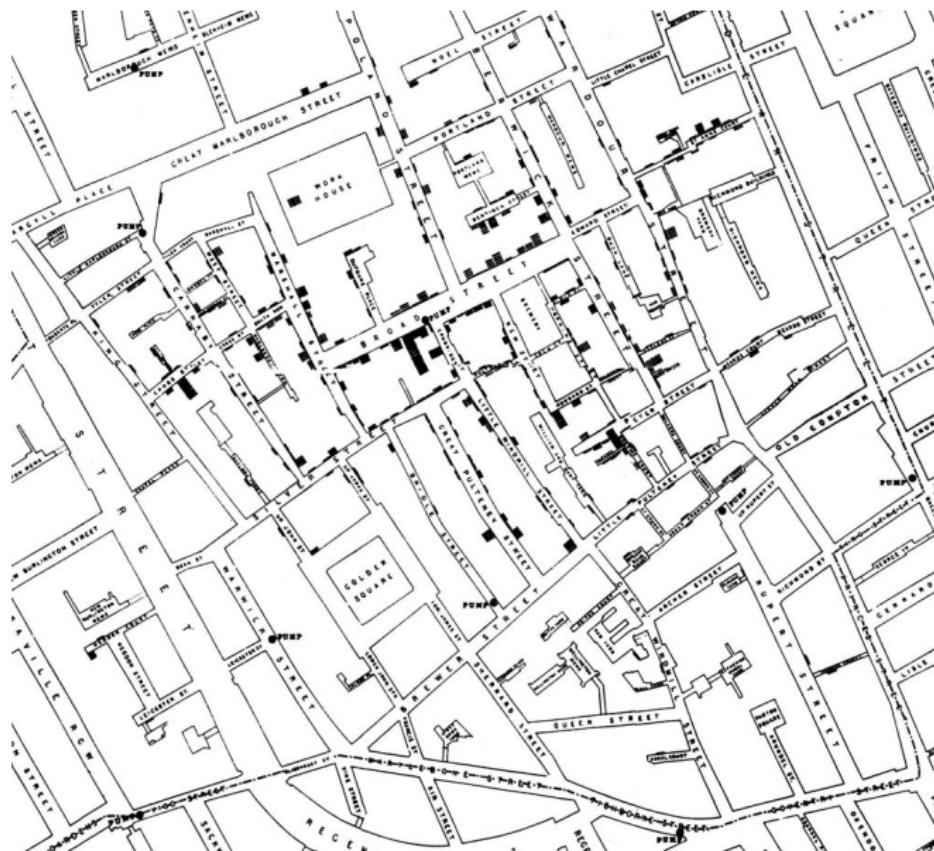


The Bottom line is divided into Years, the Right hand line into £10,000 each.

Published at the Art Studio, 1st May 1806, by W^m Playfair.

No. 100, Strand, London.

Cholera Mapping



Jon Snow



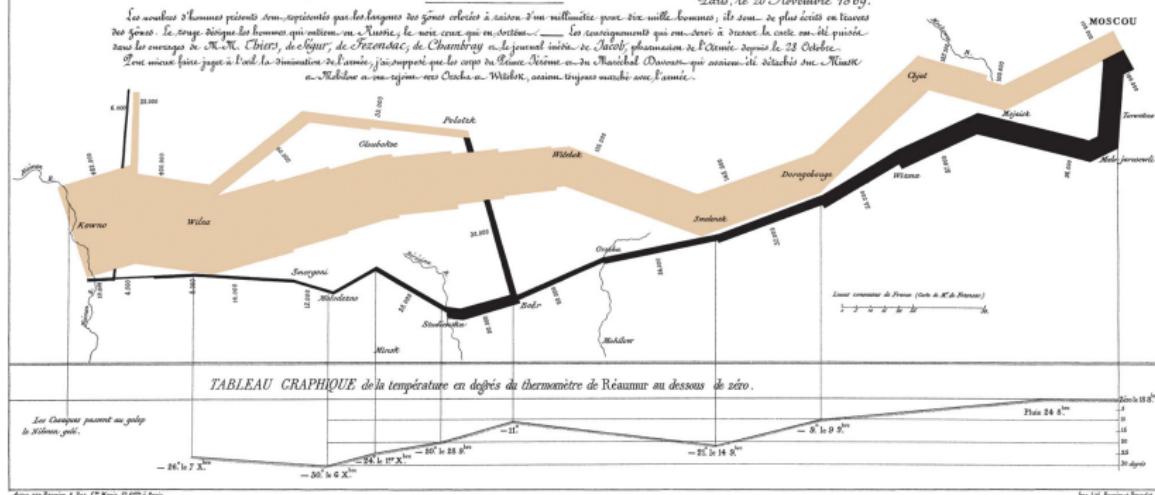
You know nothing (about cholera),
JOHN SNOW

Napoleonic's March To Moscow

Carte Figurative des progrès successifs en bonnes de l'Armée Française dans la campagne de Russie 1812-1813.

Dessiné par M. Minard, Ingénieur Général des Ponts et Chaussées en détaché à Paris, le 20 Novembre 1869.

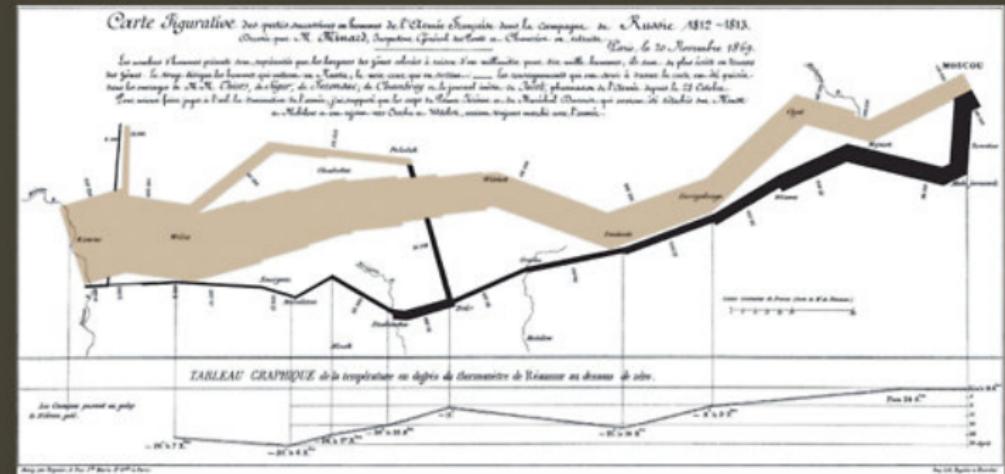
Les courbes d'hommes perdus, représentées par les longues des zones colorées à cause d'un millier pour six mille hommes; de sorte de plus évident en traces des zones. Le rouge indique les hommes qui entrent en Russie, le noir ceux qui en sortent. — Les renouvellements qui ont lieu à droite de la carte, ou déplacés dans les envois de M. M. Chabot, de Léger, de Tocat, de Chambry ou du Journal intérieur de Napoléon, illustrent de l'armée depuis le 23 Octobre. — L'armée française ayant à l'aval la dimension de l'armée, j'ai supposé que les corps du Prince Napoléon ou du Maréchal Davout, qui avaient été détachés sur l'Amirauté ou vers l'Asie ou Witek, assuraient toujours contact avec l'armée.



Drawn by R. Minard, Engineer General of Bridges and Roads in Paris.

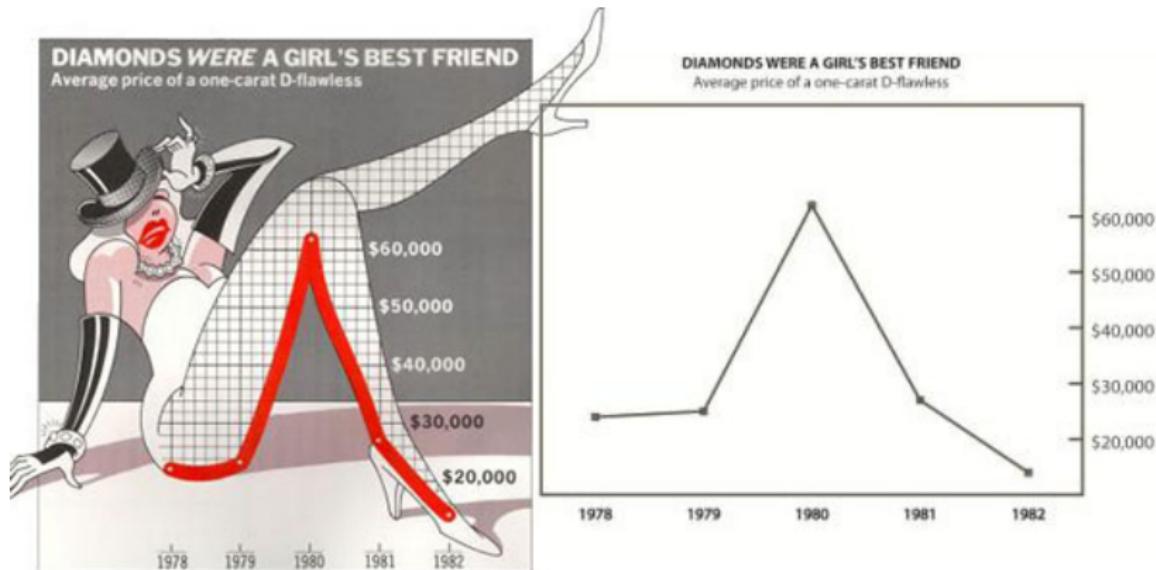
Drawn by R. Minard, Engineer General of Bridges and Roads in Paris.

Winter Is Coming



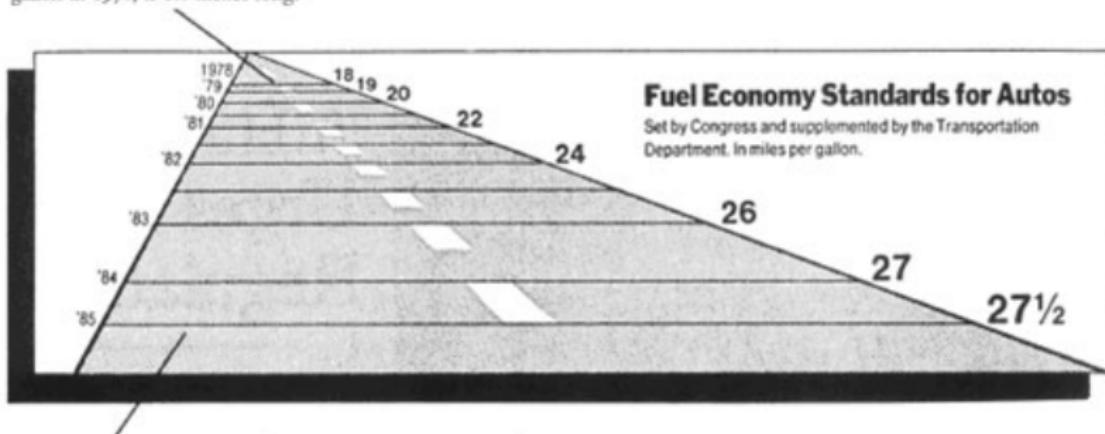
WINTER IS COMING

Diamonds Were A Girl's Best Friend



Fuel Economy

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

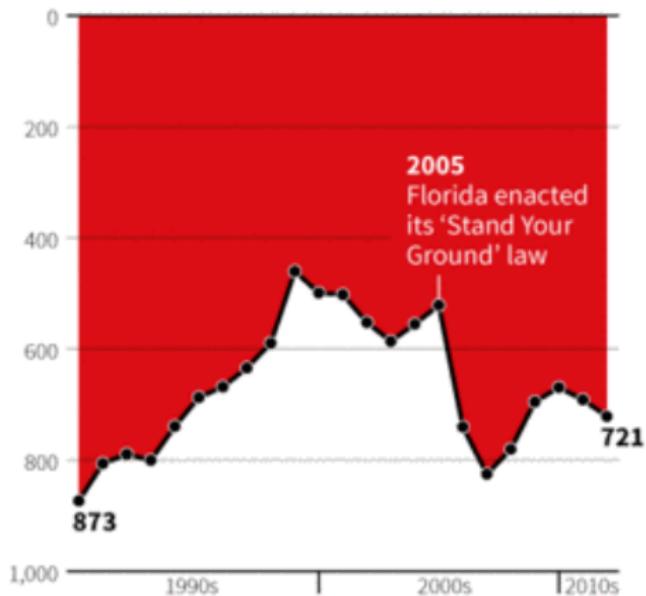


This line, representing 27.5 miles per gallon in 1985, is 5.3 inches long.

Gun Deaths in Florida

Gun deaths in Florida

Number of murders committed using firearms

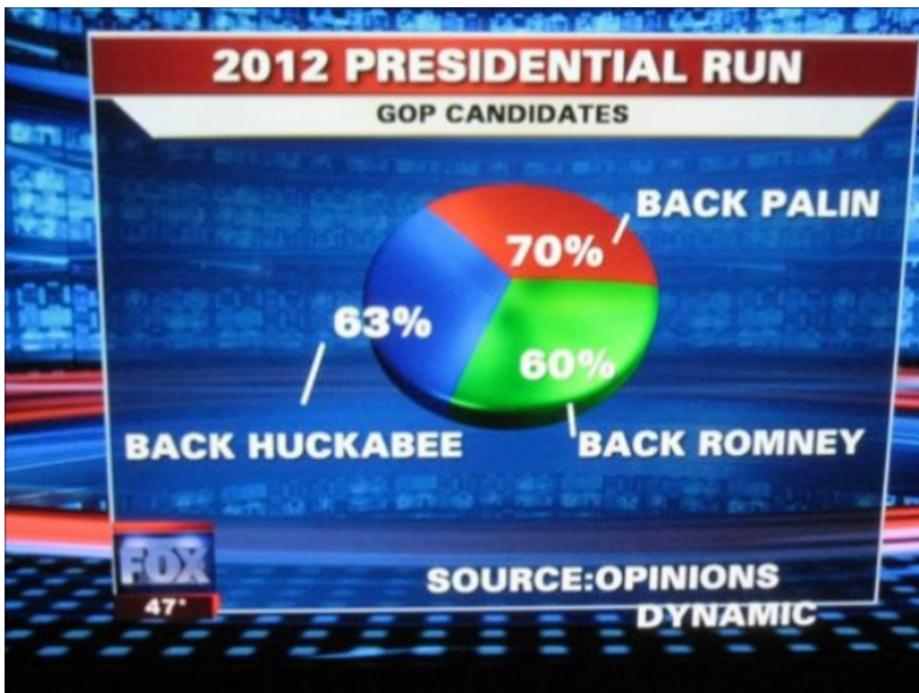


Source: Florida Department of Law Enforcement

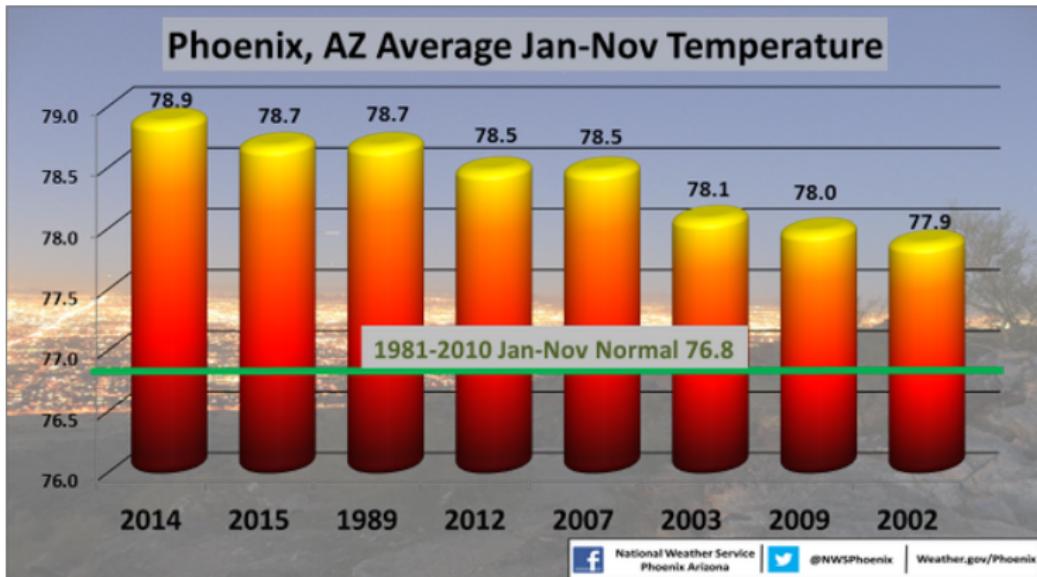
C. Chan 16/02/2014

REUTERS

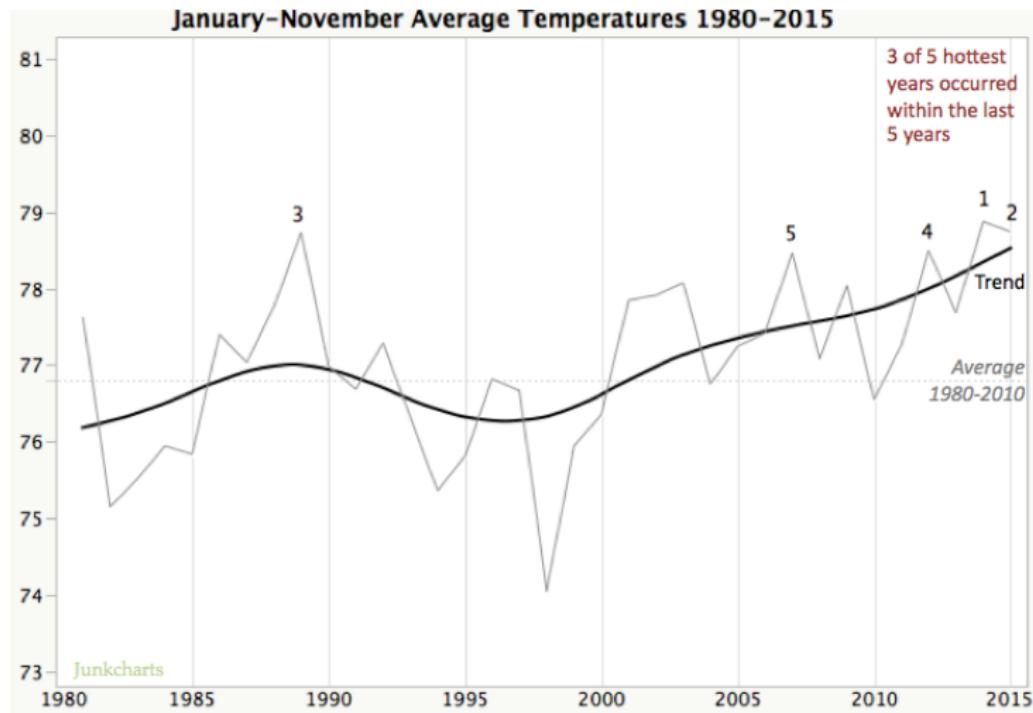
Fox News – Presidential Candidates



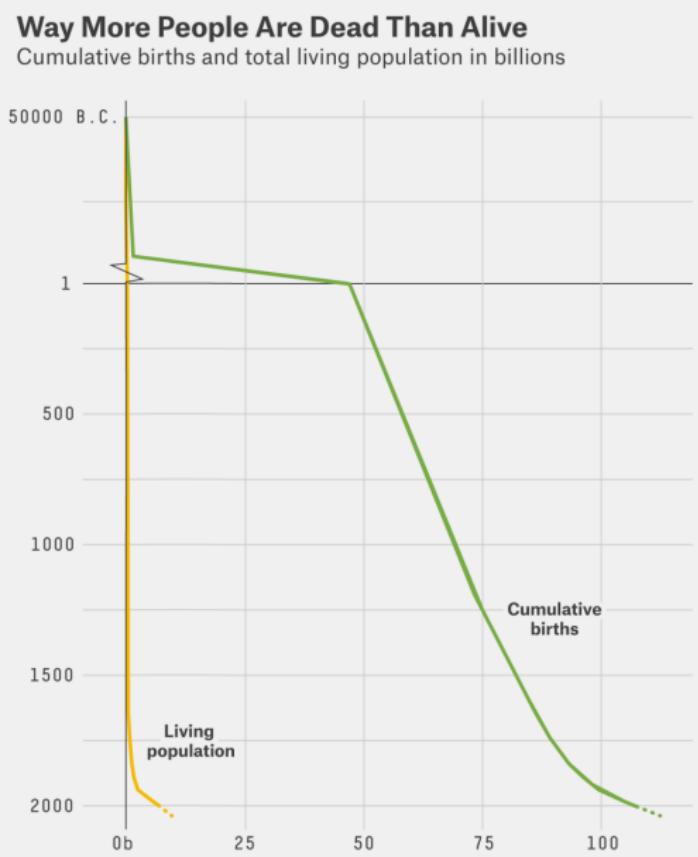
Temperature in Arizona



Temperature in Arizona

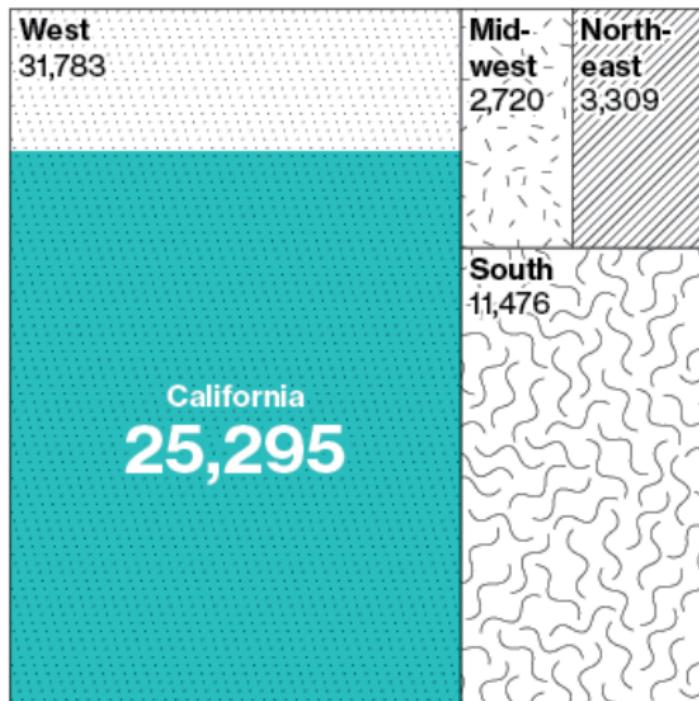


How Many People Have Ever Lived?

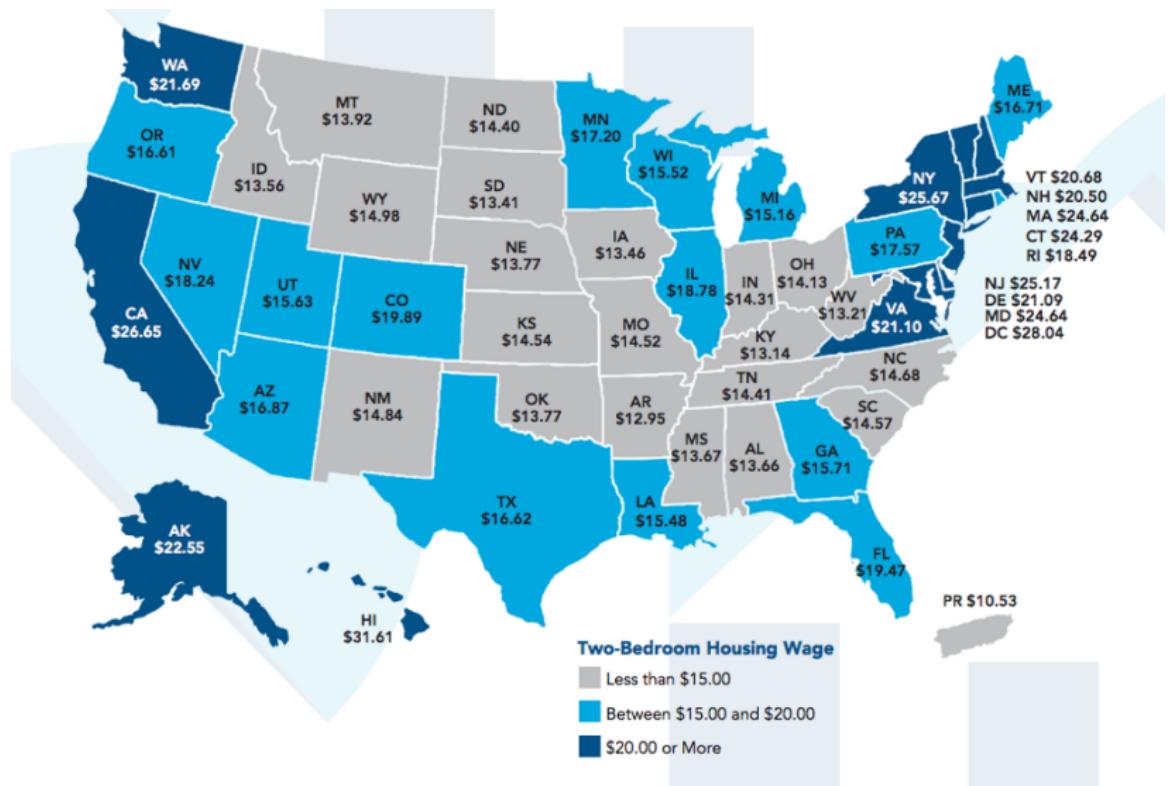


Electric Vehicle Sales

U.S. electric vehicle sales by region January through September 2015



Hourly Wages to Afford Two-Bedroom Apartment



Two-Bedroom Housing Wage

- Less than \$15.00
- Between \$15.00 and \$20.00
- \$20.00 or More

NFL Blindness

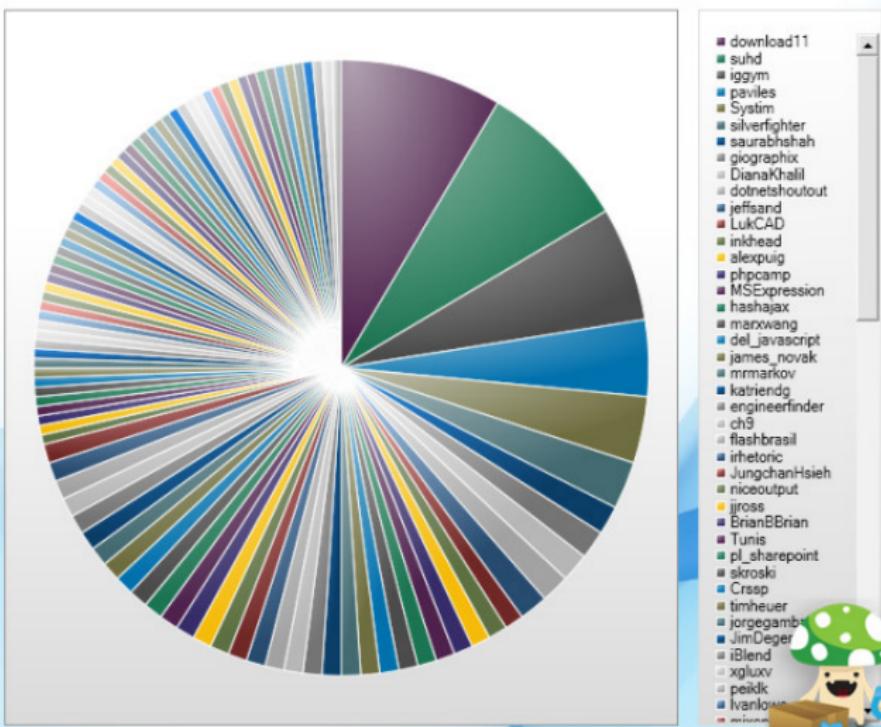


NFL Blindness

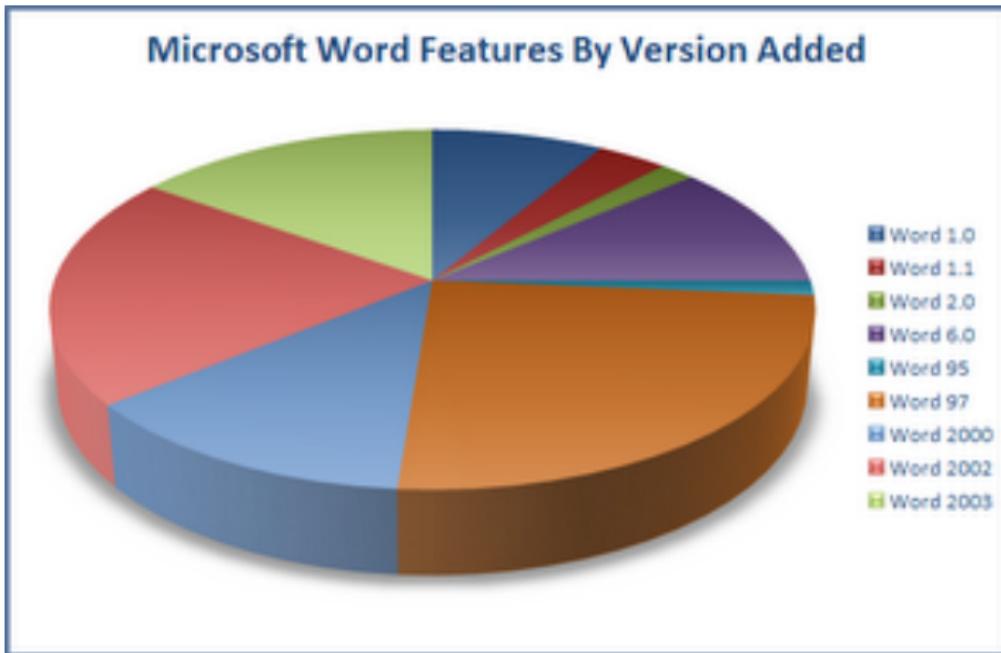


Top 100 Tweeters

100 Most Active Tweeters



Never Make 3-D Pie Charts



The Only Acceptable Pie Chart

