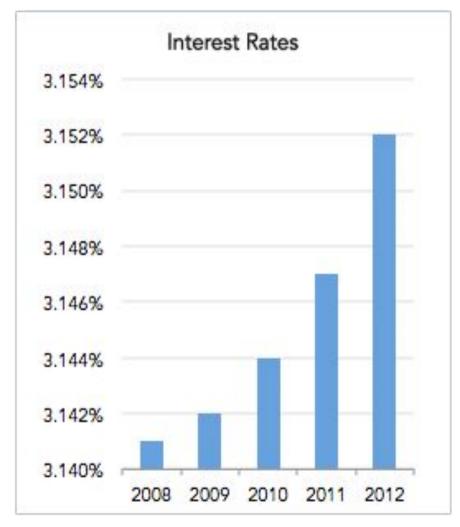
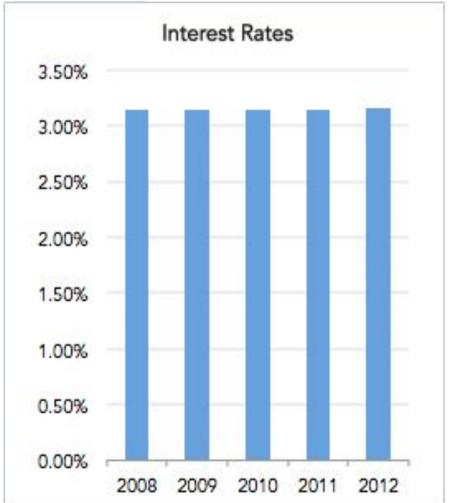
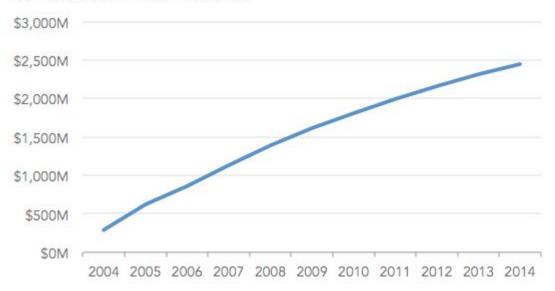
Эти коварные диаграммы

Same Data, Different Y-Axis

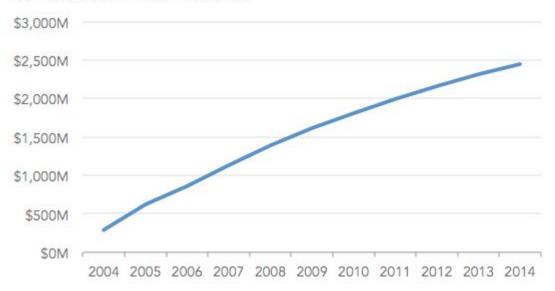




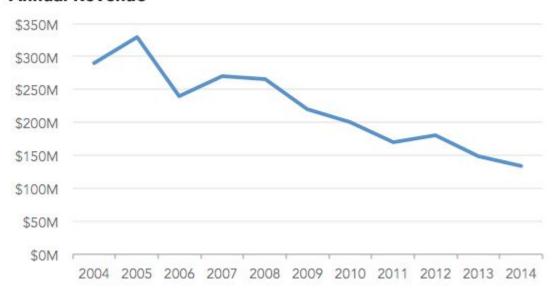
Cumulative Annual Revenue



Cumulative Annual Revenue

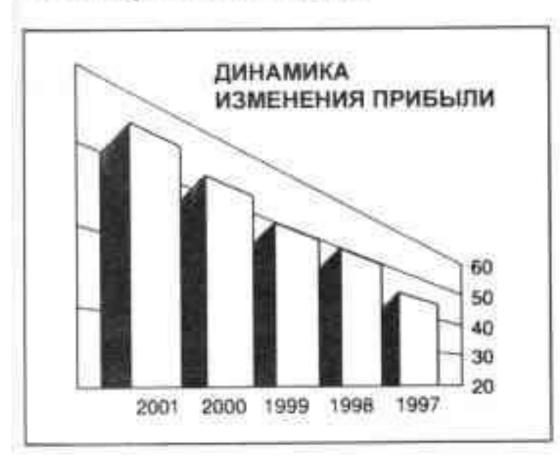


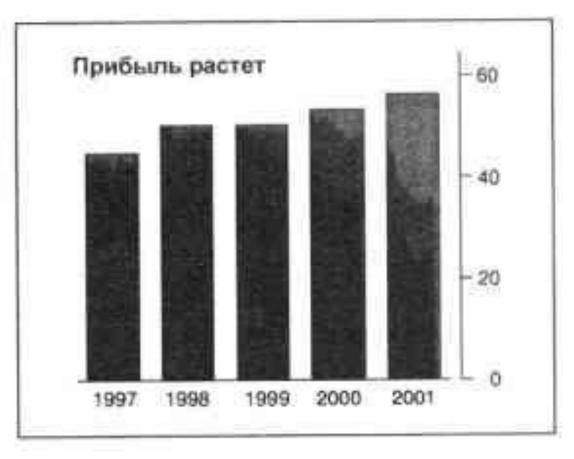
Annual Revenue



Ненамеренная ошибка

Правильная диаграмма

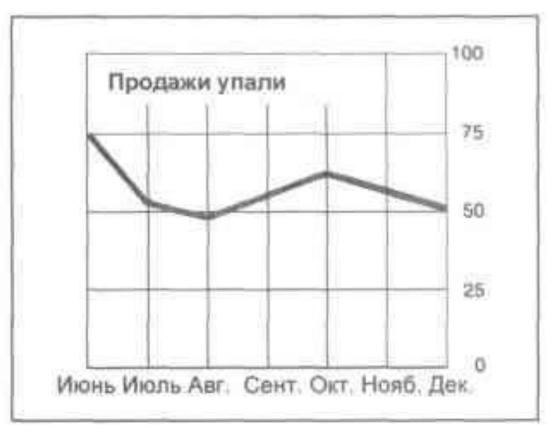


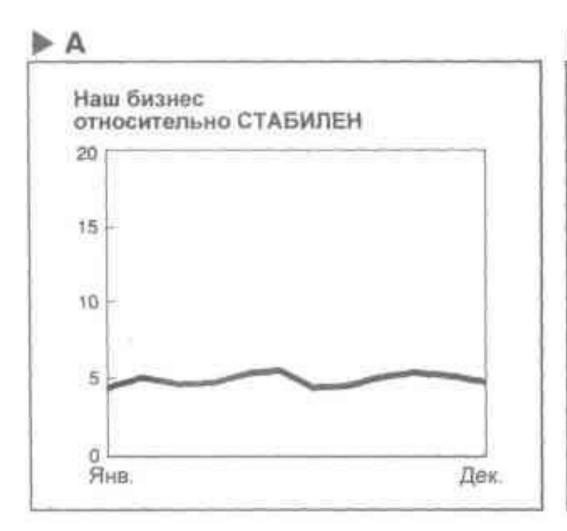


Намеренный обман



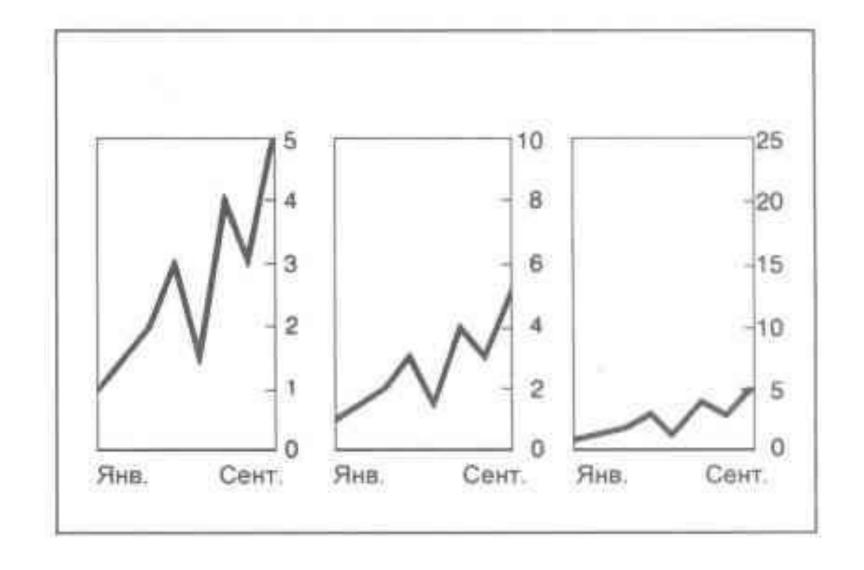
Правильная диаграмма







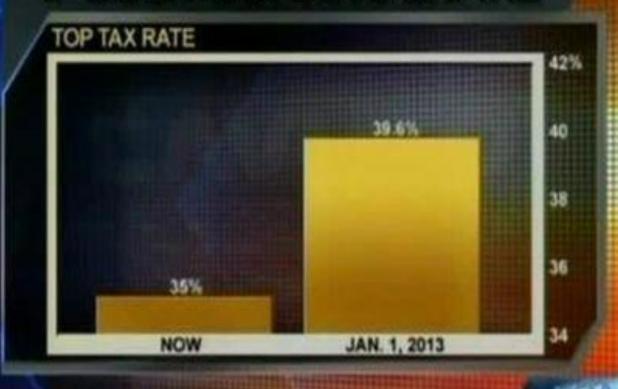
Какую шкалу выбрать?
Зависит от контекста и цели.



В жизни таких графиков не бывает? Бывает и не такое!



IF BUSH TAX CUTS EXPIRE



8:01p ET

TOP STORIES

TECHNOLOGY

CONSUME

USINE SEVITH THE JUSTICE DEPARTMENT AND AQUIRES FULL T

DOW 13008.68

64.33

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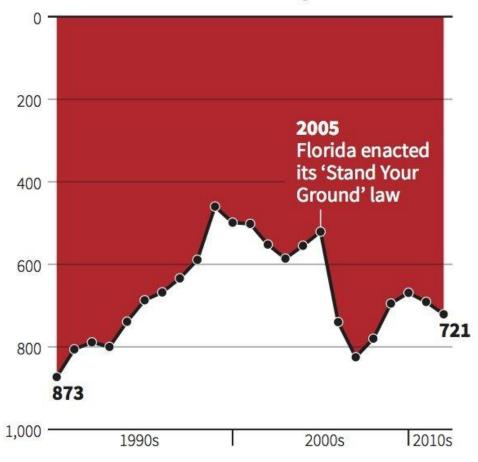
NASDAO 2939.52

6.32

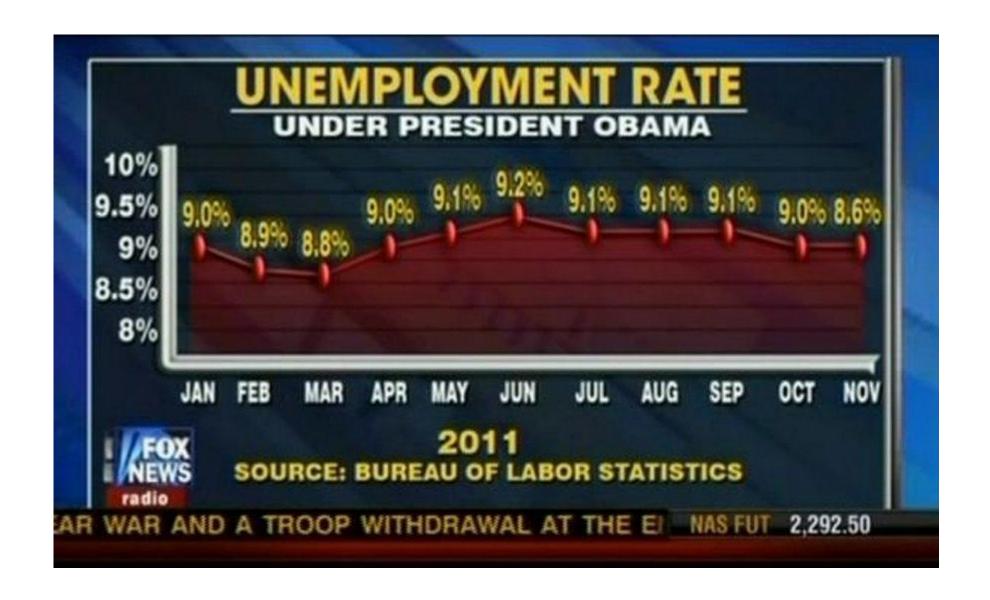
Что не так с этой диаграммой?

Gun deaths in Florida

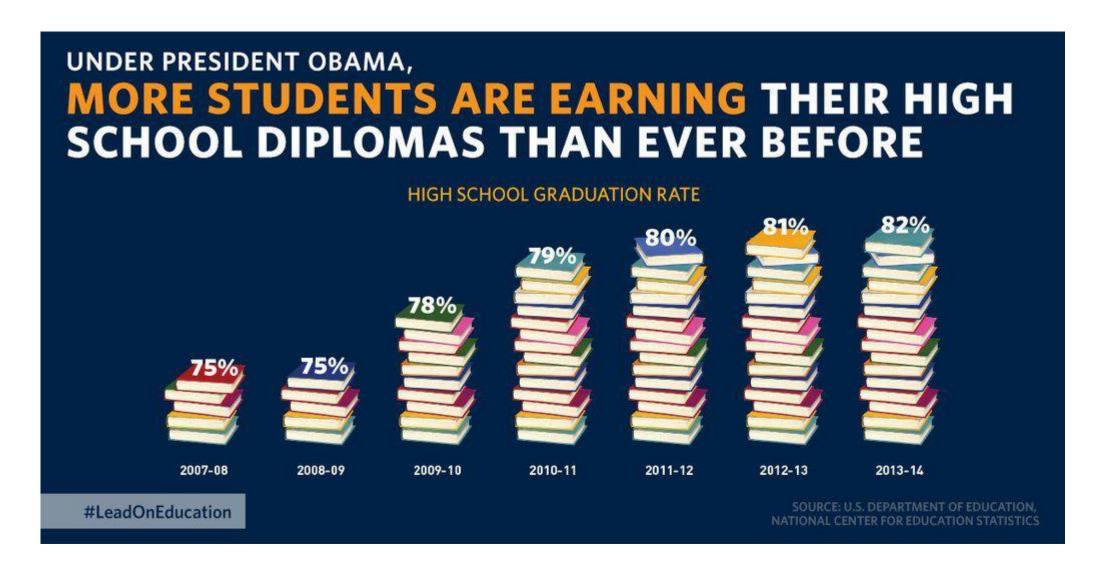
Number of murders committed using firearms



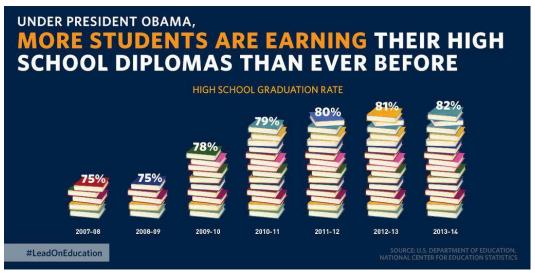
Source: Florida Department of Law Enforcement

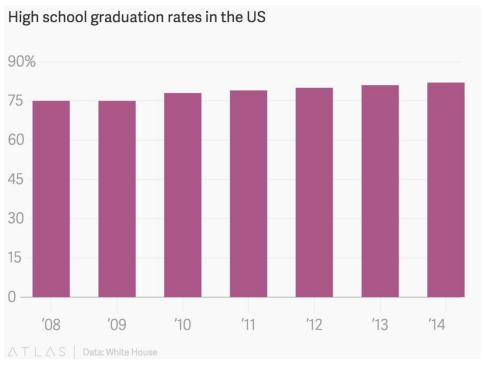


Внимание на три точки слева и на крайнюю правую.

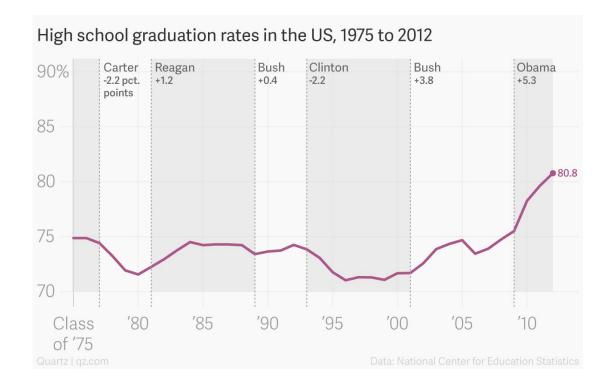


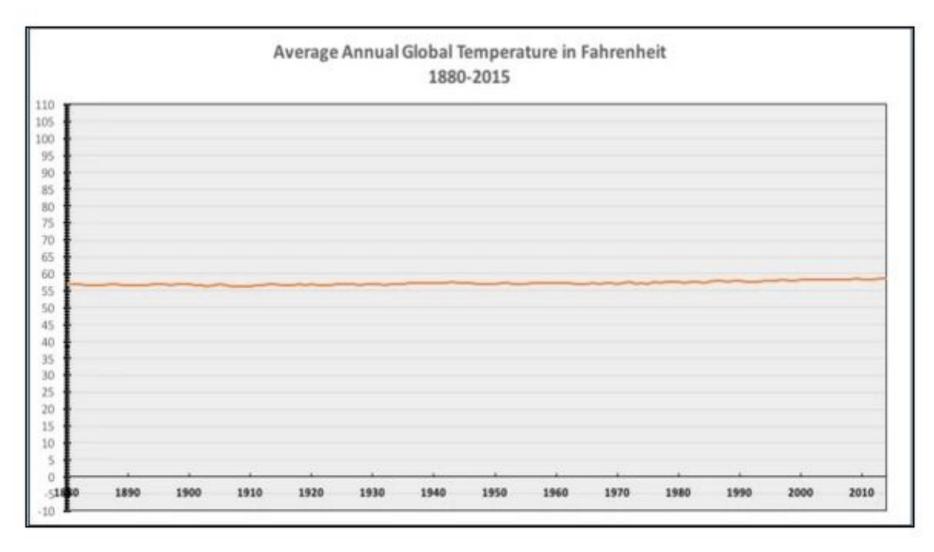
In mid-December, the White House tweeted: "Good news: America's high school graduation rate has increased to an all-time high. ""





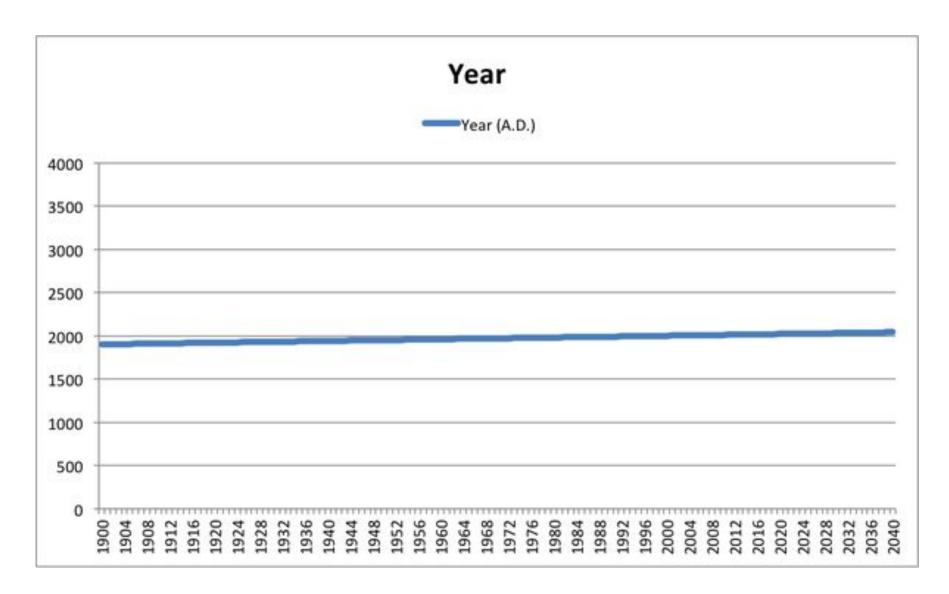
Важно правильно выбрать тип диаграммы.

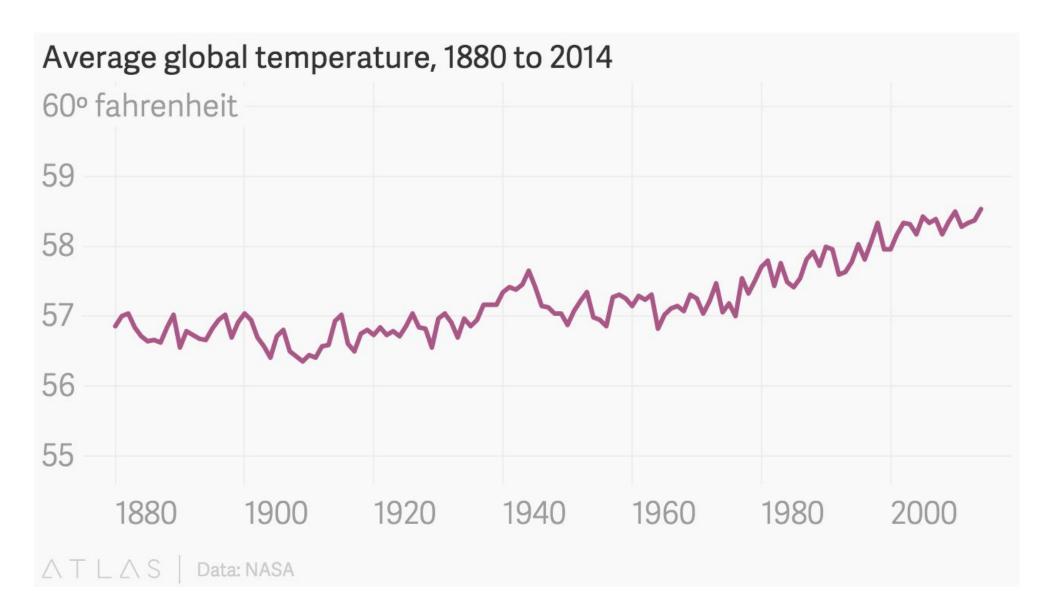




«The only #climatechange chart you need to see.»

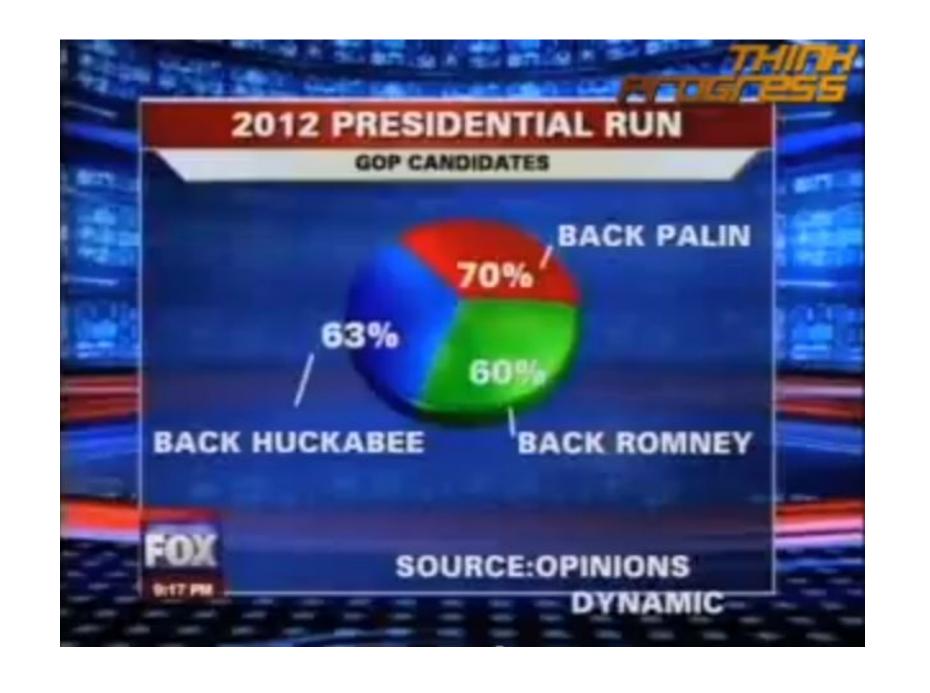
This is the chart we should all think about when someone says line charts should always have a y-axis starting at zero. A change of even one degree in the average global temperature is significant, but starting this chart at zero makes it look miniscule.

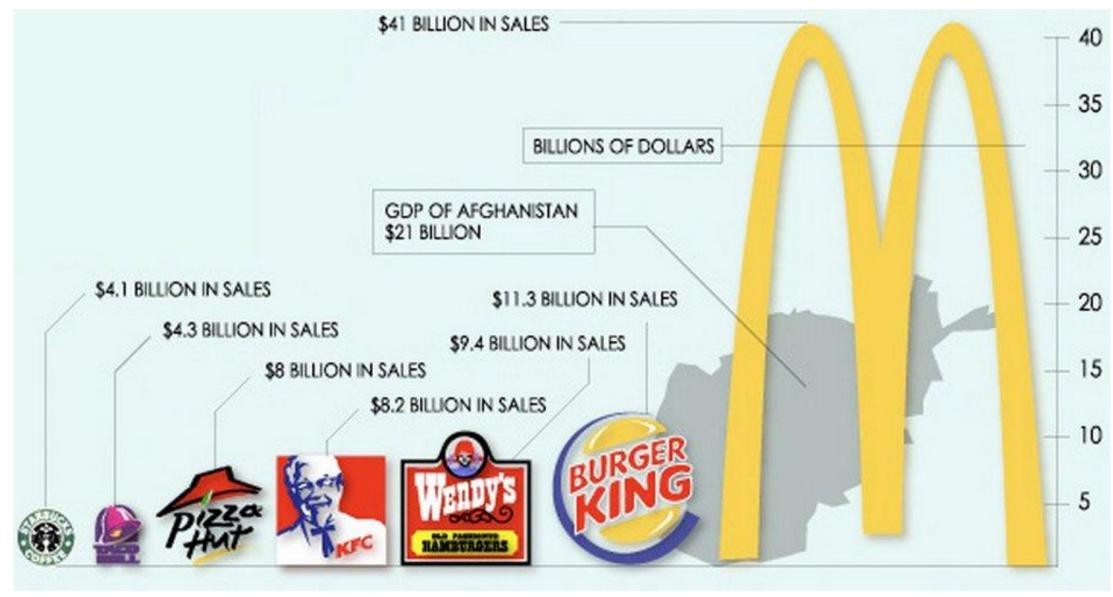




А как на самом деле?

Не всегда стоит брать ось от нуля





Продажи Burger King в три раза больше продаж Starbucks.

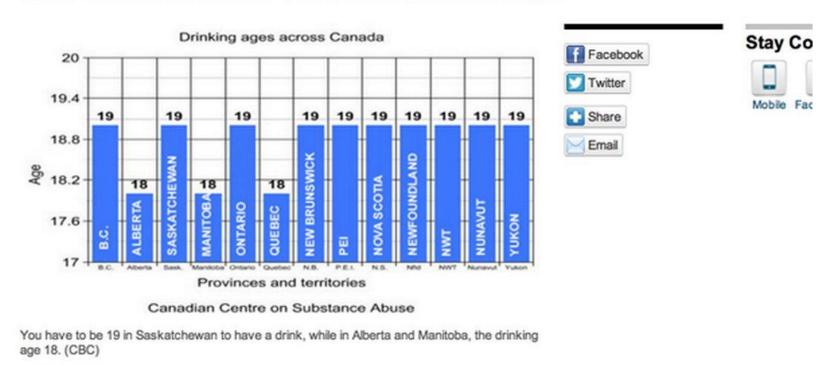
Но площади логотипов отличаются в 9 раз!



Gizmodo was trying to demonstrate that the new iPad battery gained 70% in capacity. They did this by making the battery on right 70% taller than the battery on left. However, since they also expanded the width of a cylinder, the implied volume has skyrocketed of the battery. Whoops.

Drinking age will remain 19 in Saskatchewan

CBC News Posted: Mar 4, 2013 11:59 AM CST Last Updated: Mar 4, 2013 11:55 AM CST 25



The Saskatchewan Party government has ruled out lowering the drinking age, four months after party members put the issue in the public eye.

Возраст, с наступлением которого разрешается потребление спиртных напитков – везде 19 лет, кроме трех провинций, где 18. Но шкалы...

Чтооооо?

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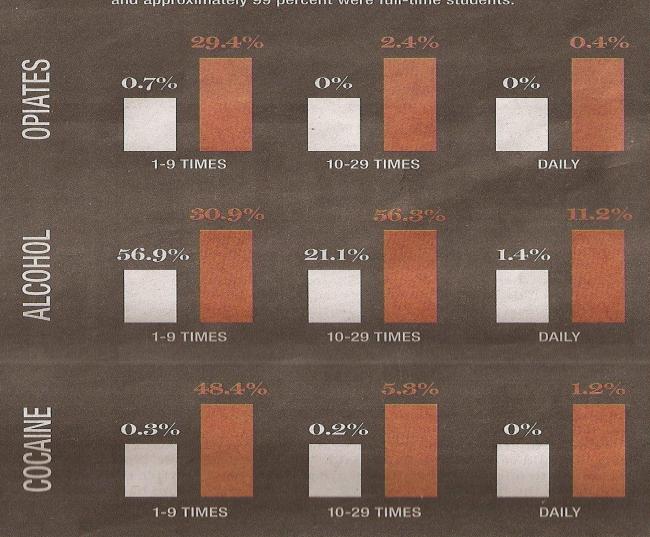
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BY THE NUMBERS

The National Collegiate Health Assessment was taken by 1,000 UCSB students in Spring 2009. Participants were asked how frequently they used substances over the past 30 days. Numbers in white reflect actual student use, while red numbers indicate perceived substance use. The average age of participants was 20 years and approximately 99 percent were full-time students.



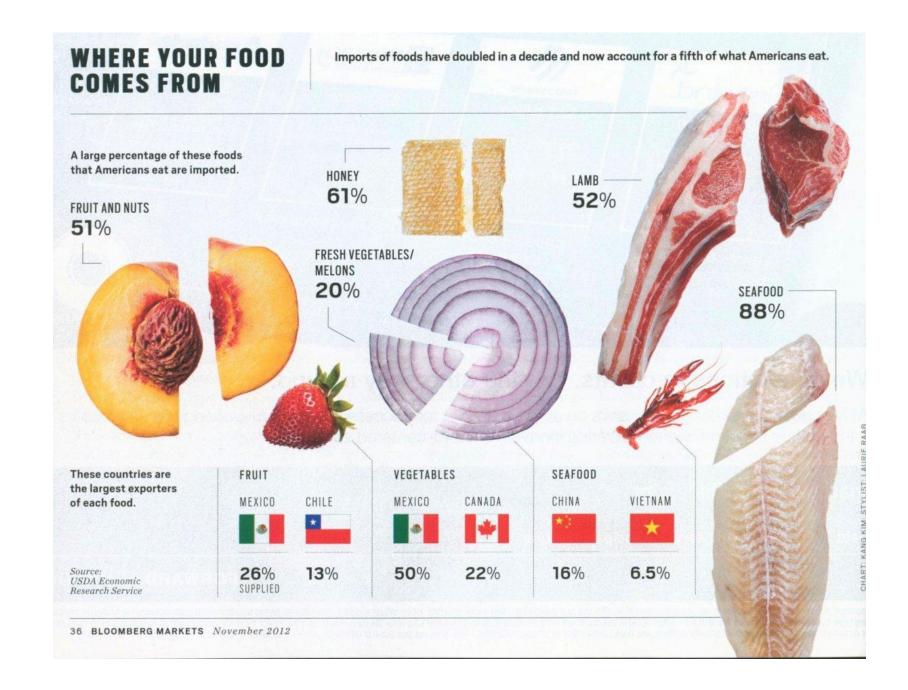


Fox News really got this wrong. First of all, if we lost 15 million jobs in one quarter this country would be a lot worse off than it actually was. The points don't actually follow a straight line, something you don't notice because there isn't actually a Y-axis. The four points are also not equidistant with time.

И просто плохие диаграммы:



I never thought it was possible but I actually understand soccer less after looking at this chart.



States with the highest firearm murder rate

Louisiana scored only two points on the Brady scale for banning guns from college campuses. It also has the highest firearm murder rate per 100,000 people in the country. Oveall, Republican states have an average Brady score of 4.6, compared to 26.73 for states that voted for President Obama in the last election.



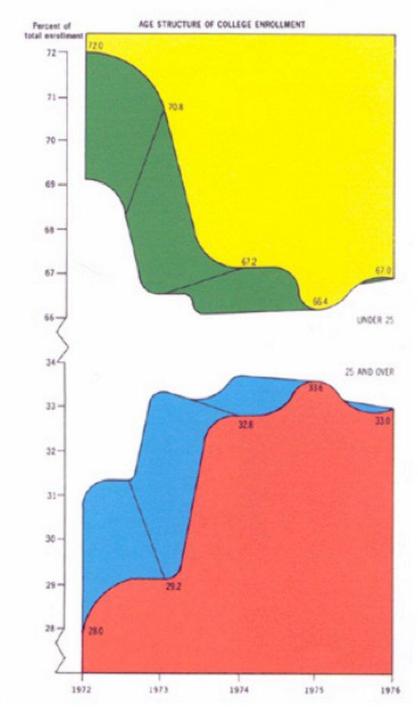
States with the lowest firearm murder rate

Hawaii has the lowest firearm murder rate in the United States with just 0.07 murders per 100,000 people. South Dakota is the only Republican state to rank on this list. Despite scoring only 7 points on the Brady score and enacting none of the laws highlighted on this chart, Iowa still has one of the lowest firearm murder rates in the country.



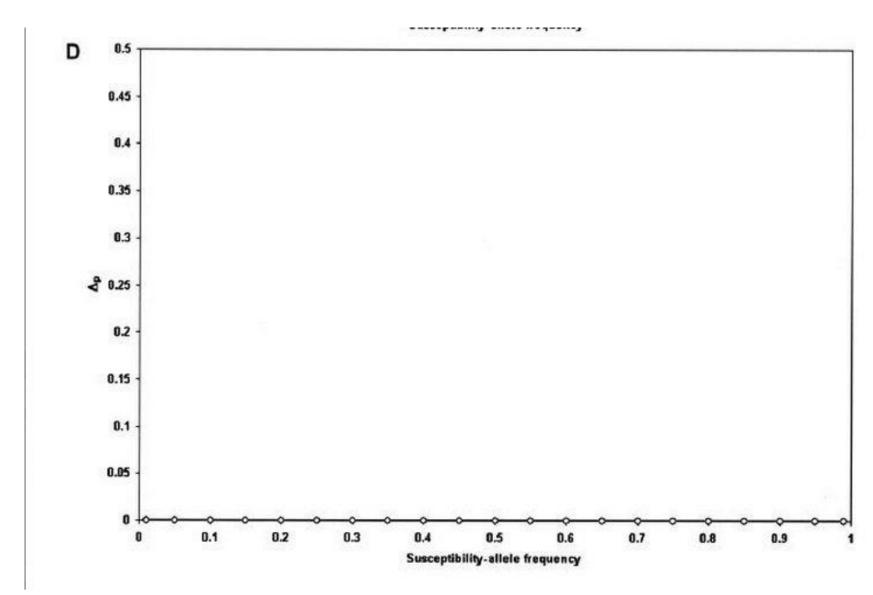
При чем тут круговые диаграммы?

Edward Tufte — the guy who invented the word "chartjunk" — personally held this up as the worst chart ever. Why? The colors may induce ocular bleeding, it's in three dimensions for no reason, the Y-axis is broken twice, The chart only communicates five numbers — it's showing the breakdown of students under 25 and over 25 over 5 years — and the top section is inexplicably inverted.

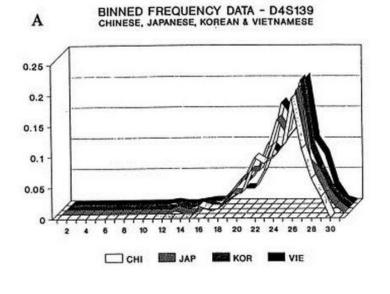




В этой диаграмме прекрасно все.



The next two are from Dr Karl Broman's page of the worst charts he's encountered in scientific literature. This chart — which took up half of a page — indicated that all values were zero.



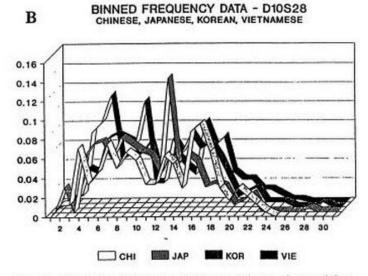


Fig. 4. Fixed bin distribution (histogram) for two loci and four Asian subpopulations (used with permission from John Hartmann): the boundaries of the 30 bins (vertical axis) are determined by the FBI; these bins are not of equal length. Sample sizes (numbers of individuals) for Chinese, Japanese, Korean and Vietnamese are 103, 125, 93 and 215 for D4S139 and 120, 137, 100 and 193 for D10S28. The horizontal axis is the bin number; bins are not of equal length.

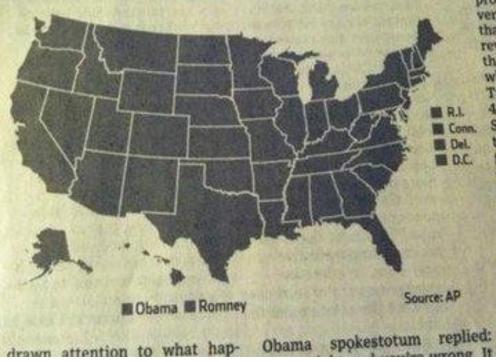
Three dimensional ribbons are likewise a senseless way to tweak a line graph.

OPINION

Obama's Divided Nation

ama presides over ica more divided any time in 50 ry that was riven g racial lines gath-2008 to elect its sident. That presifour years dividing the basis of eco-The campaign revealed no evidence that Mr. Obama will close the chasm he has created between his voters and those he attacked and vilified.





problem with pols, of verbally facile as Mr. that in crunch time, reverts to No. 1. Exit that 9% of the electron who to vote for just Tuesday; and amo 42% said Mr. Oban Sandy response—tie photo-op—was factor. Of those, voted for Mr. Oban Mr. Christie is o politico who is o

Yes, Republic across two press that there are how crudely consistent like ille Blowing up the if you though day's results

https://www.youtube.com/watch?v=h1osOniNVCY - 146%

https://charter97.org/ru/news/2016/3/11/194681/

https://www.youtube.com/watch?v=6Xmk2rZ0PiY