

DATA VISUALIZATION

Bad visualization

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GOALS OF THE LECTURE

- criticize visualization examples to understand what to do better

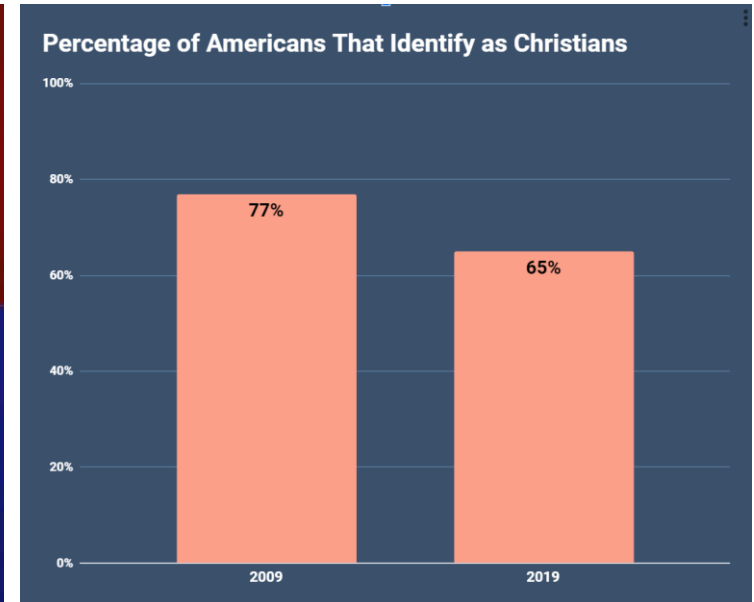
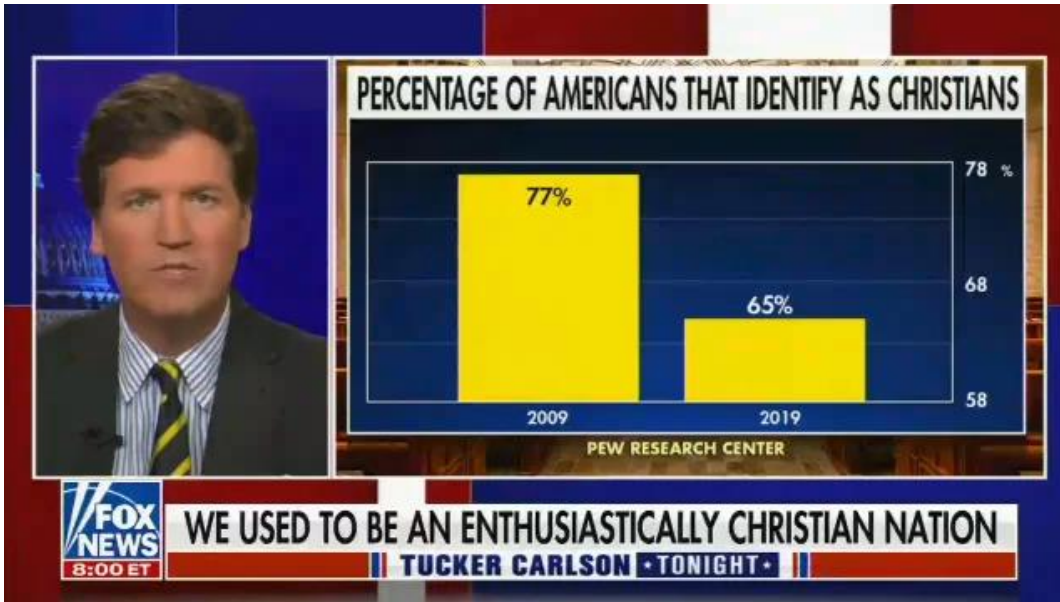
BAR CHARTS



source: reddit channel –
https://www.reddit.com/r/dataisugly/comments/1cc4rbn/crushing_victory/



BAR CHARTS



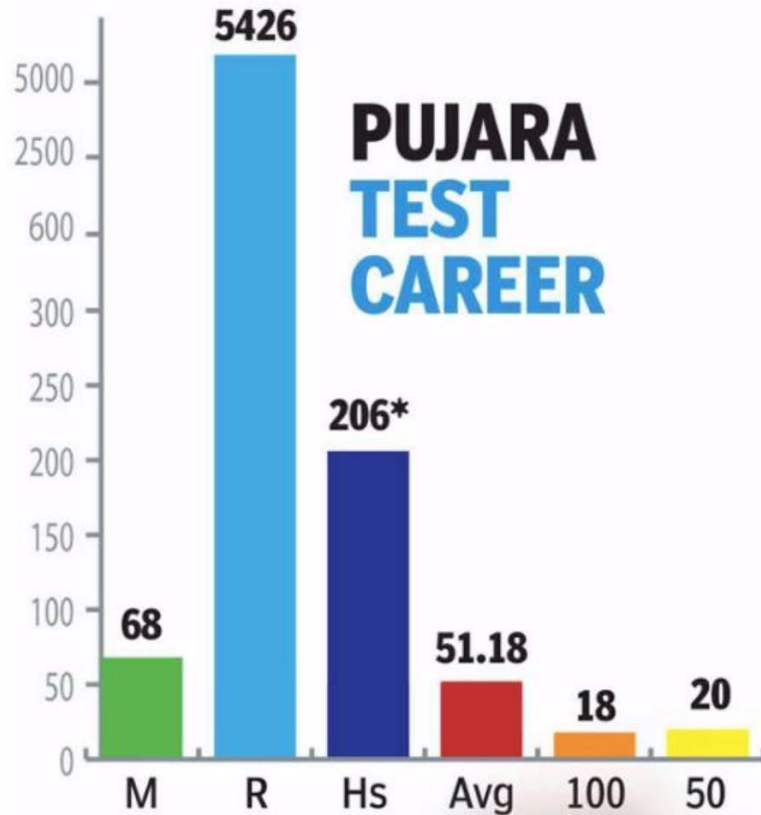
BAR CHARTS



The number of artists generating at least \$1M, \$100K and \$10K, has **nearly tripled** since 2017

source: reddit channel –
https://www.reddit.com/r/dataisugly/comments/1bjlgdc/who_needs_a_consistent_yaxis_certainly_not_spotify/

BAR CHARTS



source: reddit channel –
Times of India. Via [Bhaskar Dasgupta](#) on LinkedIn

BAR CHARTS

Consommation détaillée ⓘ

↓ Télécharger

A partir de

16 - May - 2021



Mois

Semaine

Jour

Heure



kWh m3

Graphique Tableau

m3

300

200

100

0

JUIN

JUIL.

AOÛT

SEPT.

OCT.

NOV.

DÉC.

JANV.

FÉVR.

MARS

AVR.

MAI

Ma consommation
en m3

Consommation de l'année
précédente
en m3

screenshot of a personal
natural gas consumption dashboard

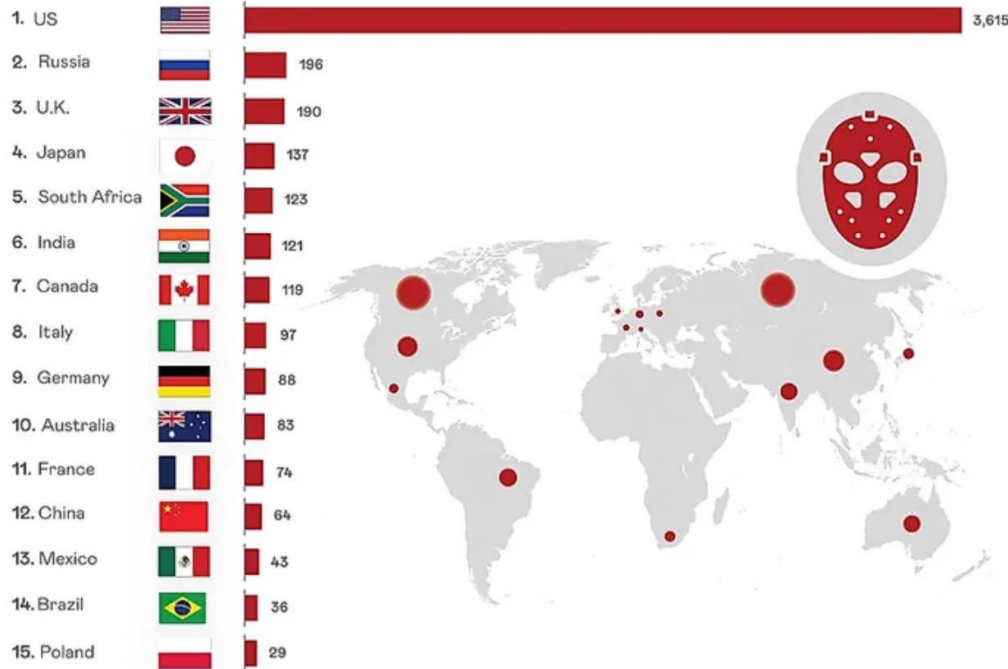
BAR CHARTS

@ WorldAtlas Graphics



Serial Killers by Country

The US has produced the most known serial killers (3,615) followed distantly by Russia (196.)



source: reddit channel –
https://www.reddit.com/r/poland/comments/1c9bupm/serial_killers_by_country_ranked/

BAR CHARTS

INDIAN BATSMEN v LEFT-ARM PACE

BATTING AVERAGES AND
DISMISSALS SINCE WC 2015

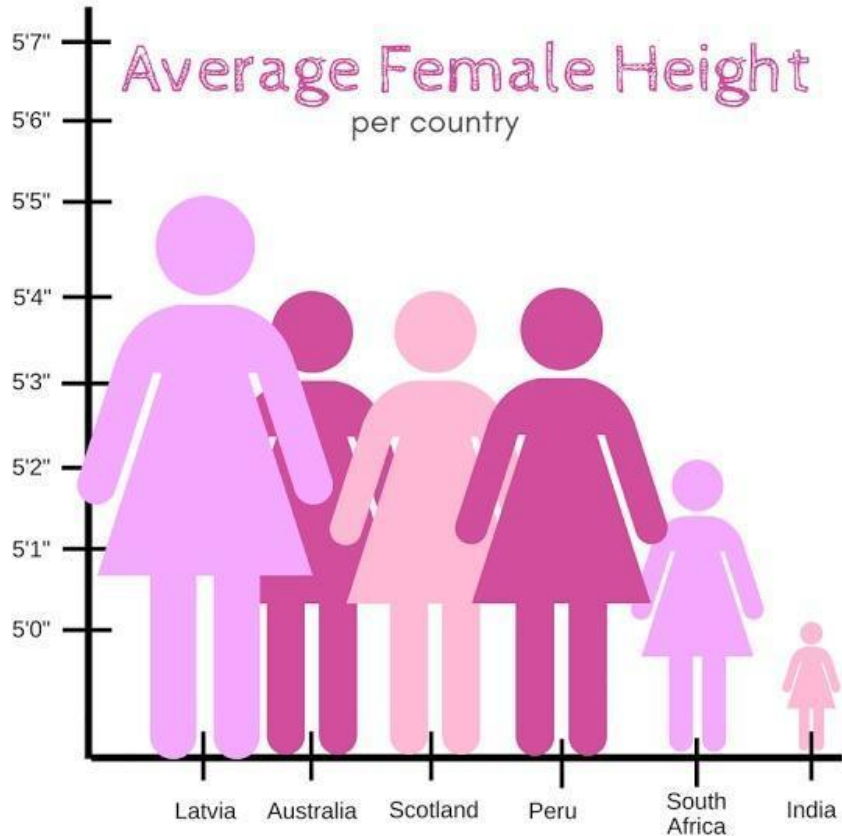


ESPN cricinfo

source:

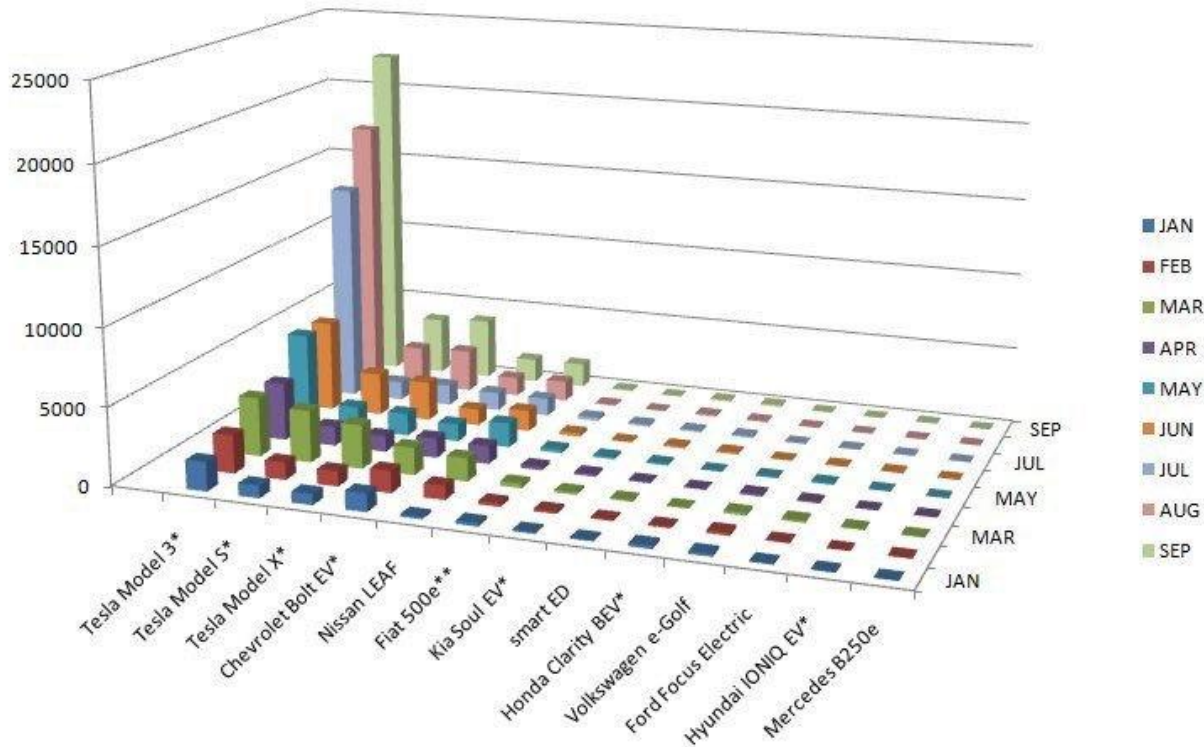
http://www.espn-cricinfo.com/story/_/id/26927142/how-india-beat-australia

BAR CHARTS



source:
The Internet ... ;-)

BAR CHARTS



source: <https://twitter.com/AustenAllred/status/1054094811542708225>

LINE CHARTS

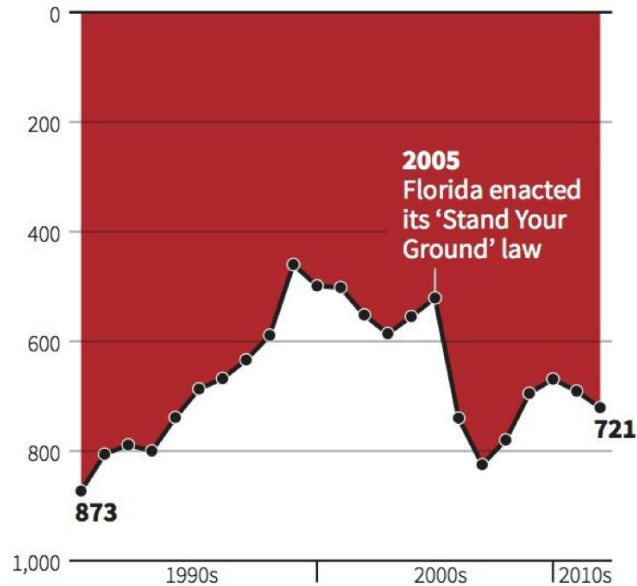


source: <https://www.cnbc.com/2019/06/12/tesla-looks-like-netflix-did-in-2011-and-it-may-see-a-similar-recovery.html>

LINE CHARTS

Gun deaths in Florida

Number of murders committed using firearms



Source: Florida Department of Law Enforcement

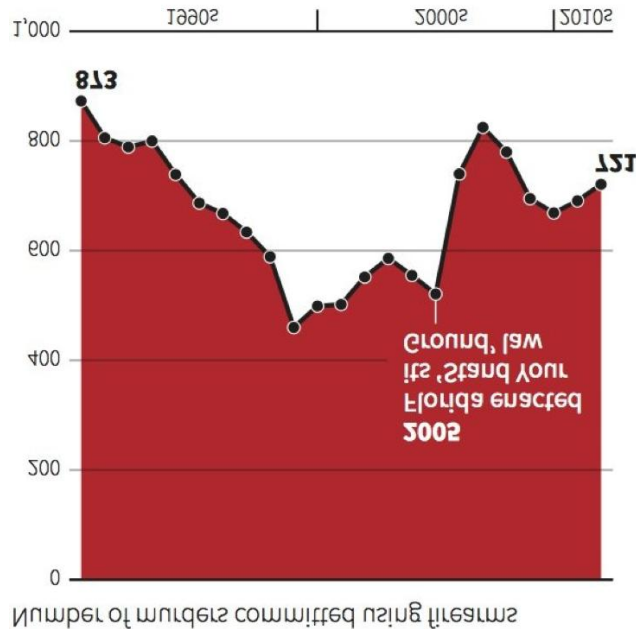
C. Chan 16/02/2014



C' CHAN 16/02/2014



SOURCE: Florida Department of Law Enforcement



Number of murders committed using firearms

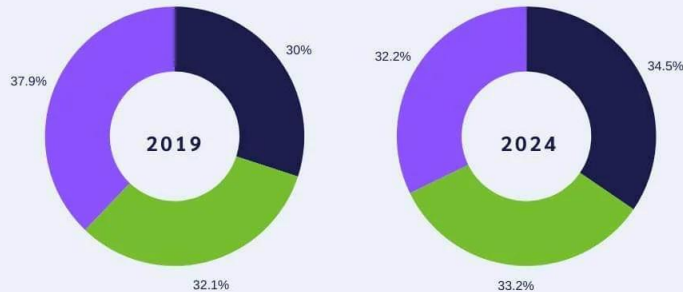
Gun deaths in Florida

source: <https://www.businessinsider.com/gun-deaths-in-florida-increased-with-stand-your-ground-2014-2>

PIE/DONUT CHARTS

APRIL 2024 OUTBOUND PASSENGER TRAFFIC

17% more traffic



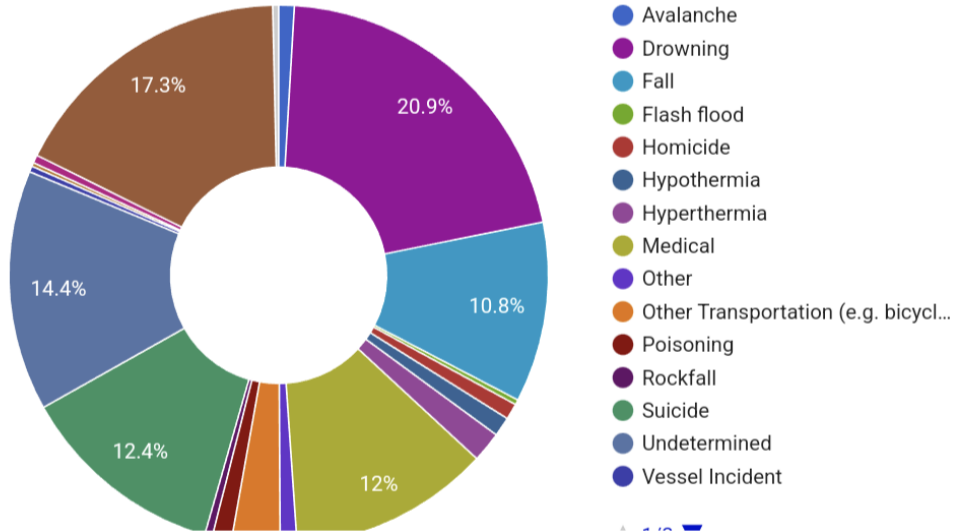
This data was collected from three of the busiest days in April 2019, compared to the same days in 2024. We have 17% more people traveling this year than pre COVID 2019.

source: reddit channel –
https://www.reddit.com/r/dataisugly/comments/1cjd1ox/local_airport_data/

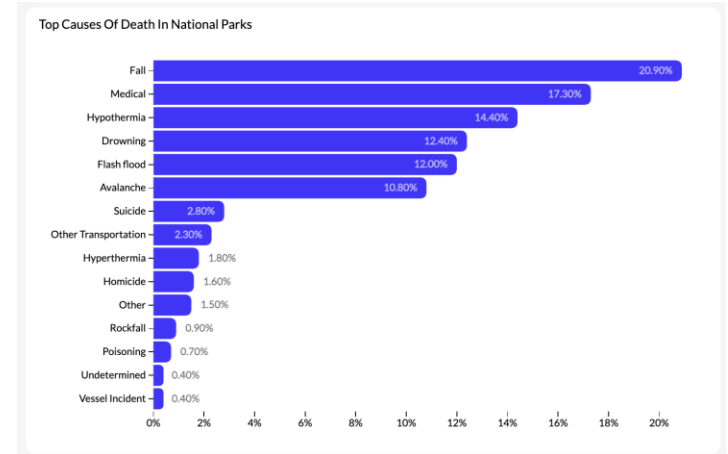
PIE/DONUT CHARTS

What Are the Top Causes of Death in the National Parks?

Fatalities in National Parks (2007-2023) by Cause of Death



better:



source: reddit channel –

https://www.reddit.com/r/dataisugly/comments/1b3uj1k/the_perfect_example_of_why_pie_charts_are_terrible/

PIE/DONUT CHARTS

THE WORLD CUP'S BIG GUNS

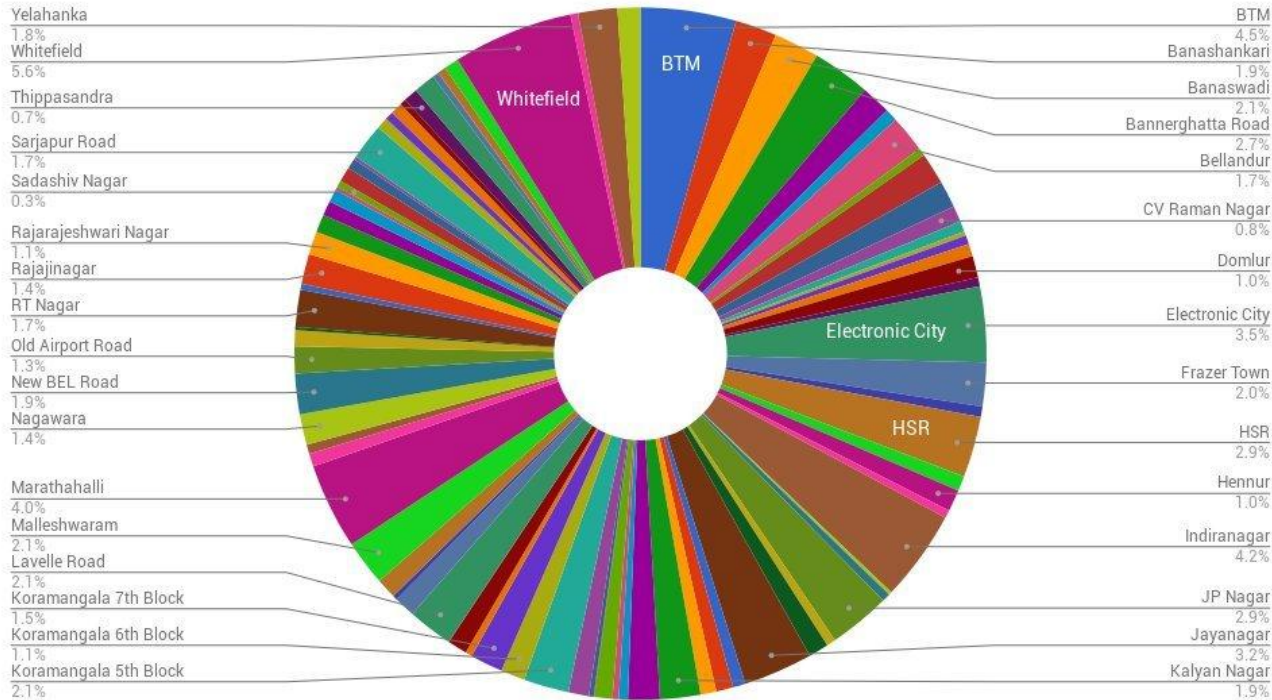
% OF TEAM'S RUNS SCORED BY TOP SCORER



source: https://www.espn.cricinfo.com/story/_/id/27143430/kane-williamson-hand-steadies-new-zealand-ship

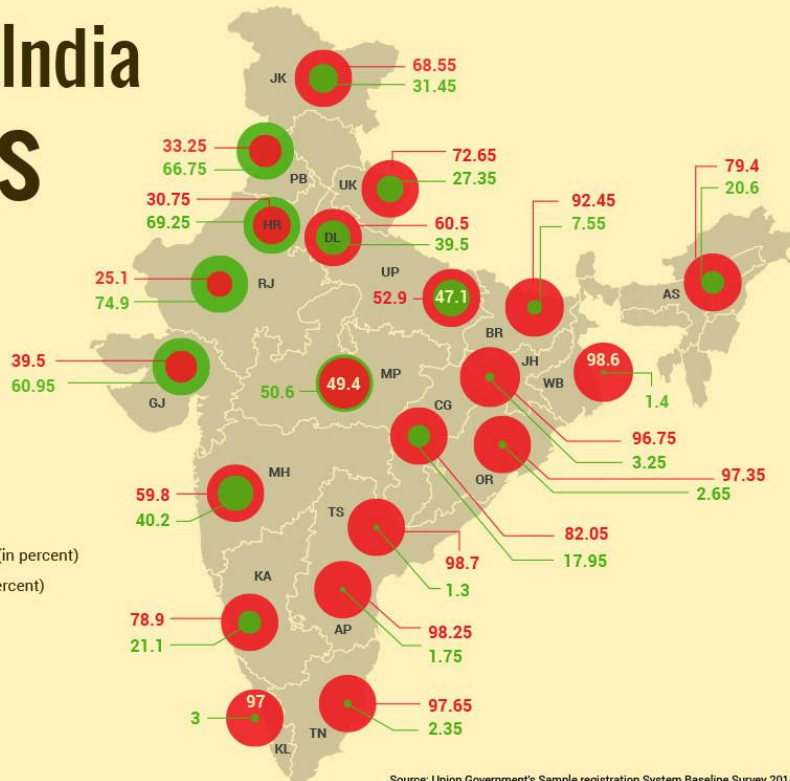
PIE/DONUT CHARTS

Zomato Bangalore



PIE/DONUT CHARTS

How India Eats



Source: Union Government's Sample registration System Baseline Survey 2014

source: https://www.huffingtonpost.in/2016/06/14/how-india-eats_n_10434374.html

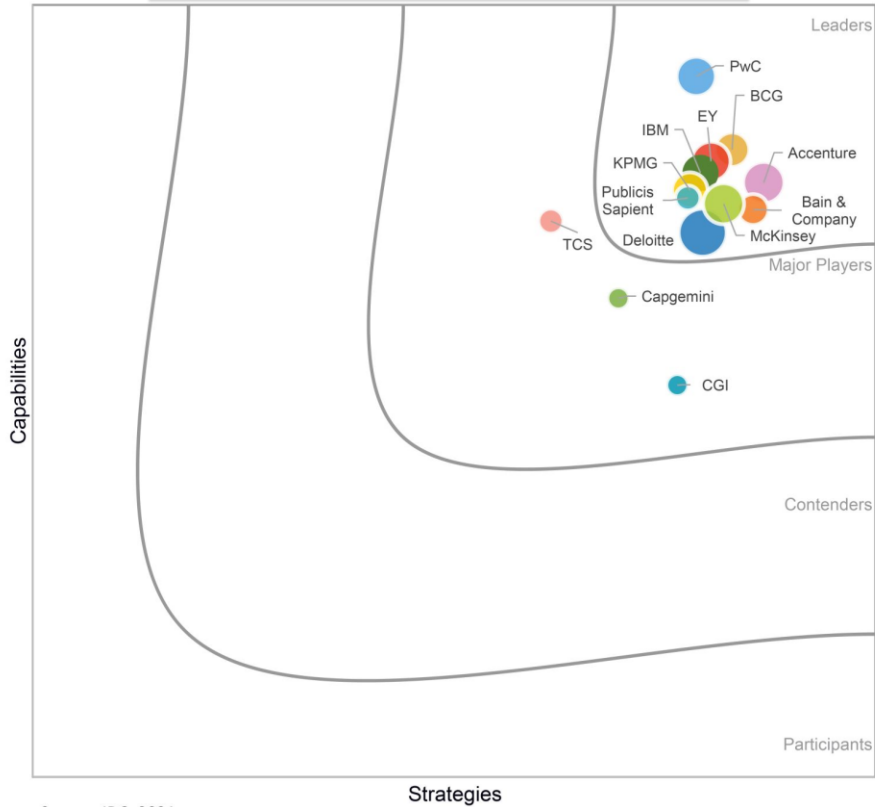
PIE/DONUT CHARTS



source: <https://stackoverflow.com/questions/22369224/3d-pie-chart-in-highcharts-javascript>

SCATTER PLOTS

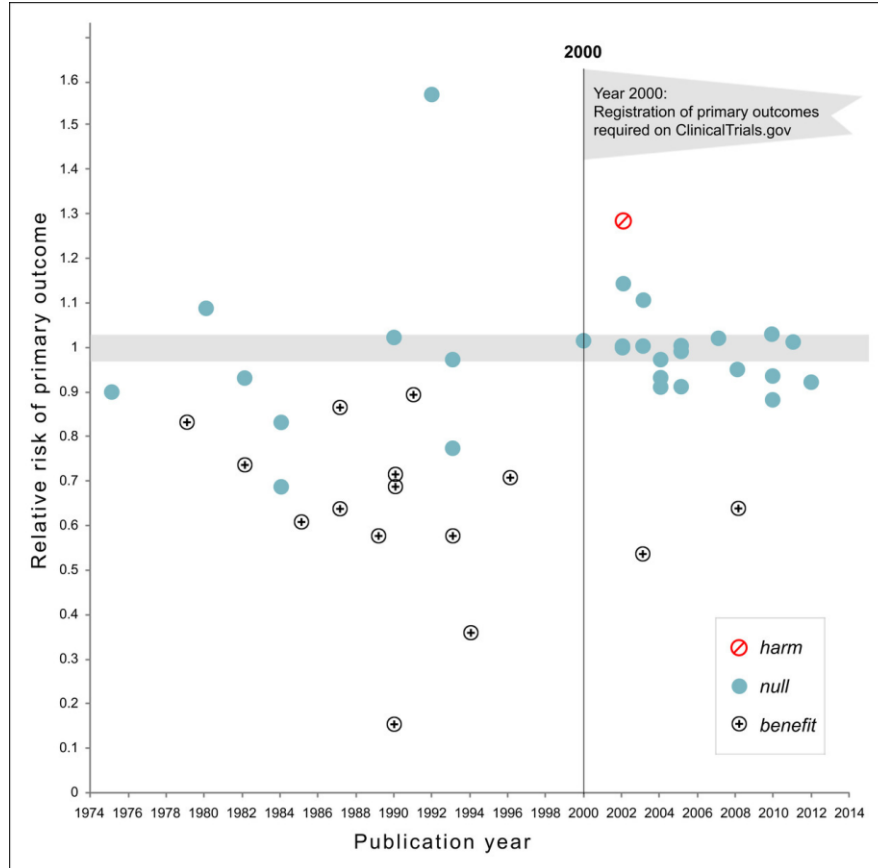
IDC MarketScape: Worldwide Digital Strategy Consulting Services, 2021



Source: IDC, 2021

source: reddit channel -
https://www.reddit.com/r/dataisugly/comments/ok7uqk/digital_strategy_consulting_services_firms/

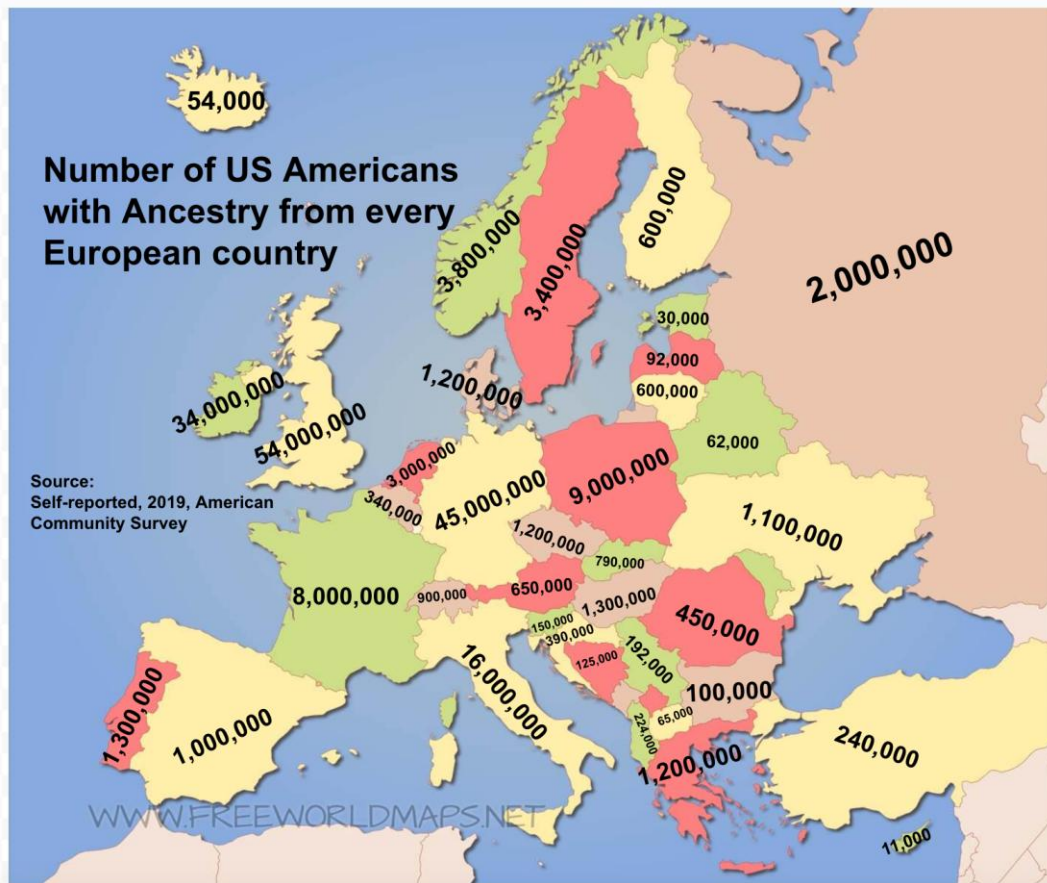
SCATTER PLOTS



source:

<https://www.motherjones.com/kevin-drum/2018/11/chart-of-the-decade-why-you-shouldnt-trust-every-scientific-study-you-see/>

MAPS



source: reddit channel –
https://www.reddit.com/r/europe/comments/1anibno/number_of_us_americans_with_ancestry_from_every/

MAPS

Top messaging apps by country



-  WhatsApp
-  Messenger
-  Viber
-  WeChat
-  LINE
-  Telegram
-  imo
-  Kakaotalk



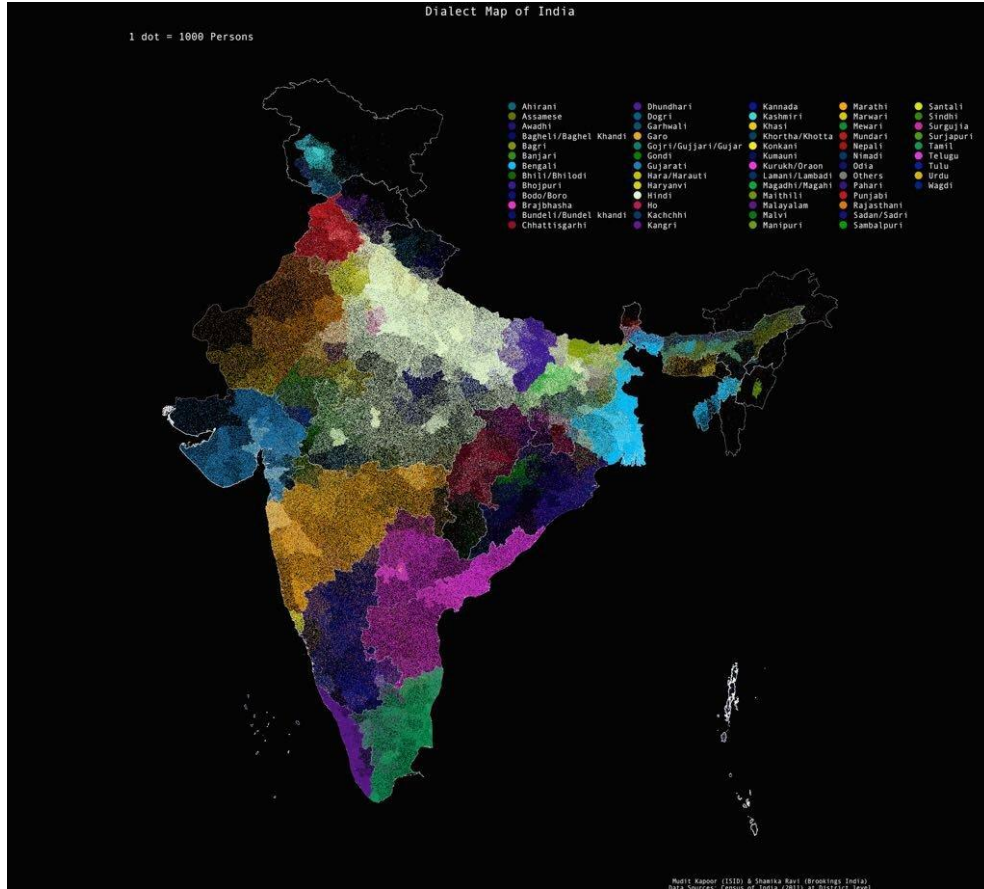
Based on the Google Play Store rank for each country in December 2017

Sources:
Hootsuite
we are social
Similarweb

source: reddit channel –

https://www.reddit.com/r/dataisugly/comments/1c9qphh/are_there_only_2_colors_on_the_map/

MAPS



source:

<https://twitter.com/ShamikaRavi/status/1038818007483645952>

BUBBLE CHARTS

When Europeans fly nest

Average age at which young people leave the parantel household, 2022

■ below 23 ■ 23-25 ■ 25-27 ■ 27-29 ■ 29-31 ■ over 31

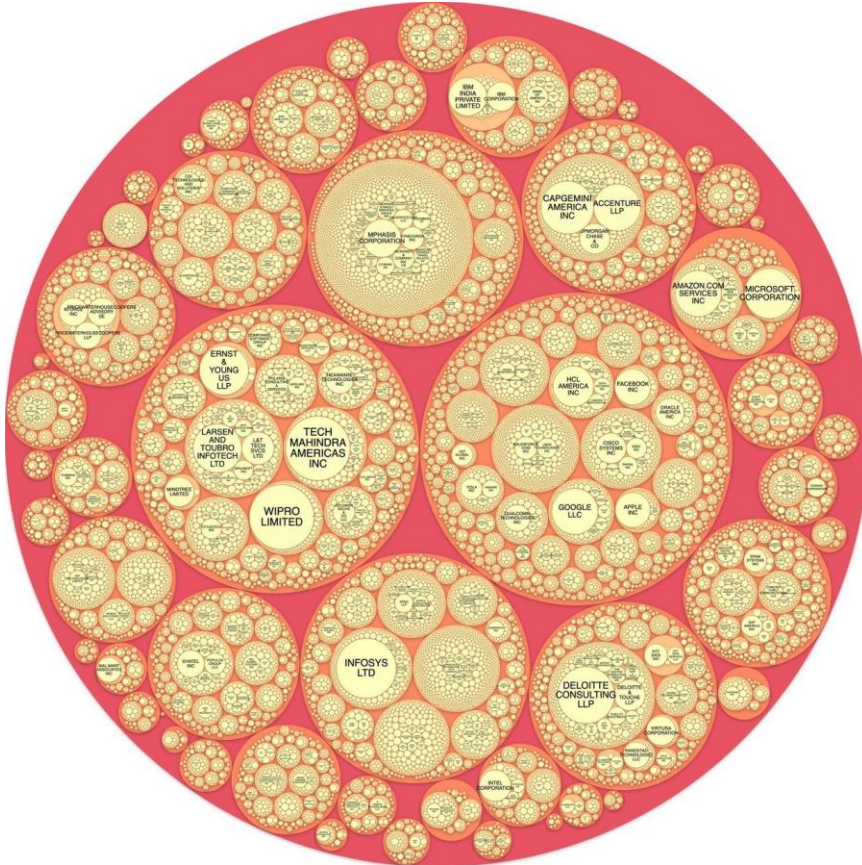


source: reddit channel –
https://www.reddit.com/r/dataisugly/comments/1cc6jis/whats_with_the_balls/

Source: Eurostat



TREEMAP

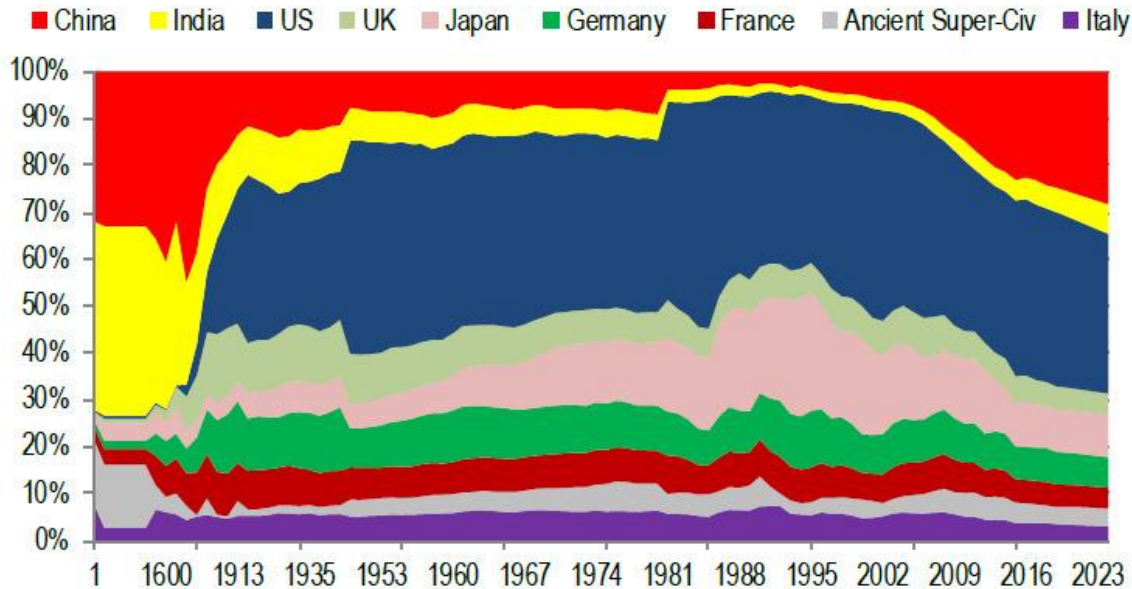


source:

<https://observablehq.com/@mbostock/2019-h-1b-employers>

TIME

The progression of world GDP – percentage of world GDP by major countries/regions. Are current trade tensions really an attempt to stymie China's impressive rise?



Source: BofA Merrill Lynch Global Research, Angus Maddison, IMF GDP data and estimates between 1980 and 2024. Ancient super-civilizations include Greece, Turkey, Algeria, Iraq, Egypt and Iran.

source: Bank of America Merrill Lynch