

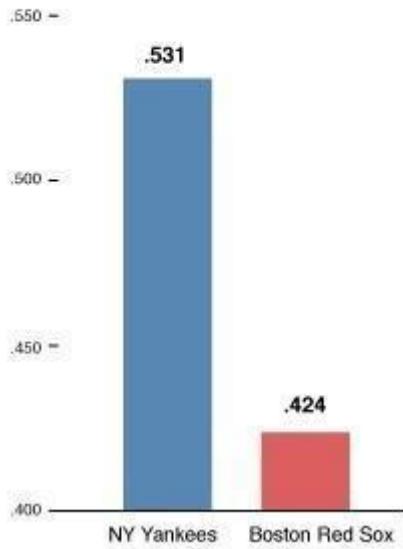
In21-S4-CS3121 - Introduction to Data Science

Activity - Descriptive Data Analysis - In Class Activity 2

Group K

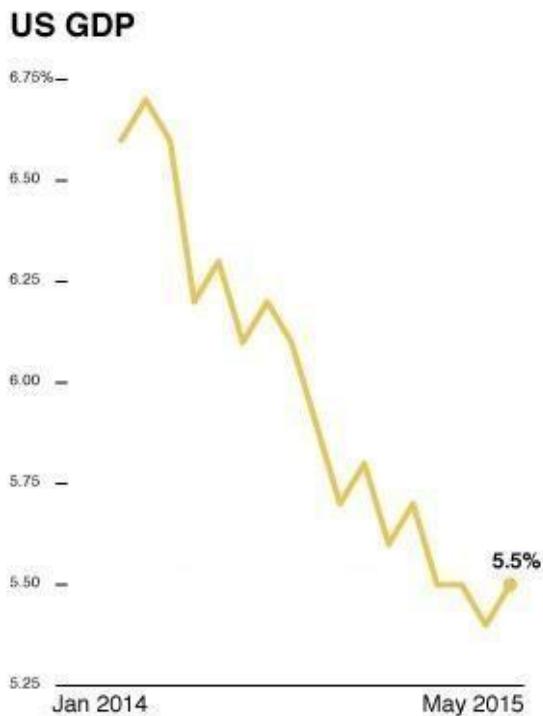
In class Activity 02

1 Percentage of victories



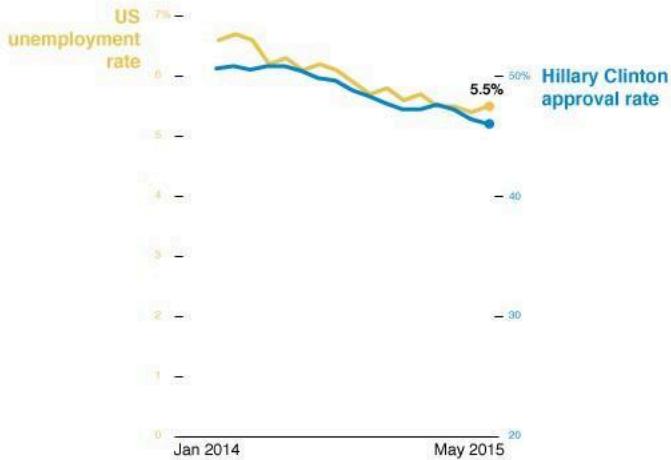
The Y-axis has been truncated, and it creates a false sense of the difference between the two percentage of victories of the two groups.

2



Here also the Y-axis has been truncated, and it gives a false indication of the drop in US GDP. Although the value has dropped by about 1%, due to truncation, it appears as if it has dropped by a much higher amount.

3

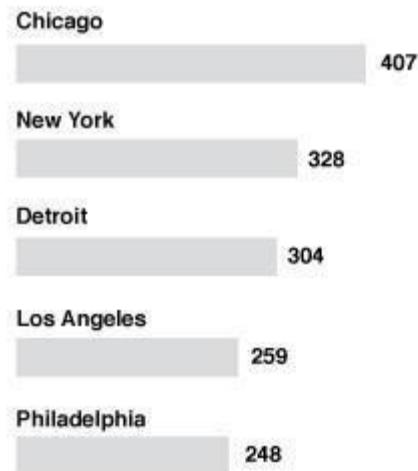


The positioning of the two attributes unemployment rate and approval rate, and the graph seemingly indicating a relationship between the two attributes makes the reader think that one attribute causes the other, even when it might be not.

4

Most dangerous cities

Total murders in 2014

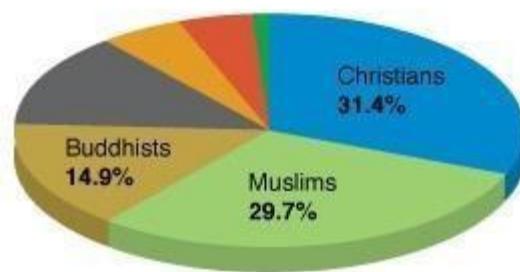


We can't compare the rating of murders without considering the population size of this each country.

So, the chart should be correct as the values are the ratios of number of total deaths into population size.

5

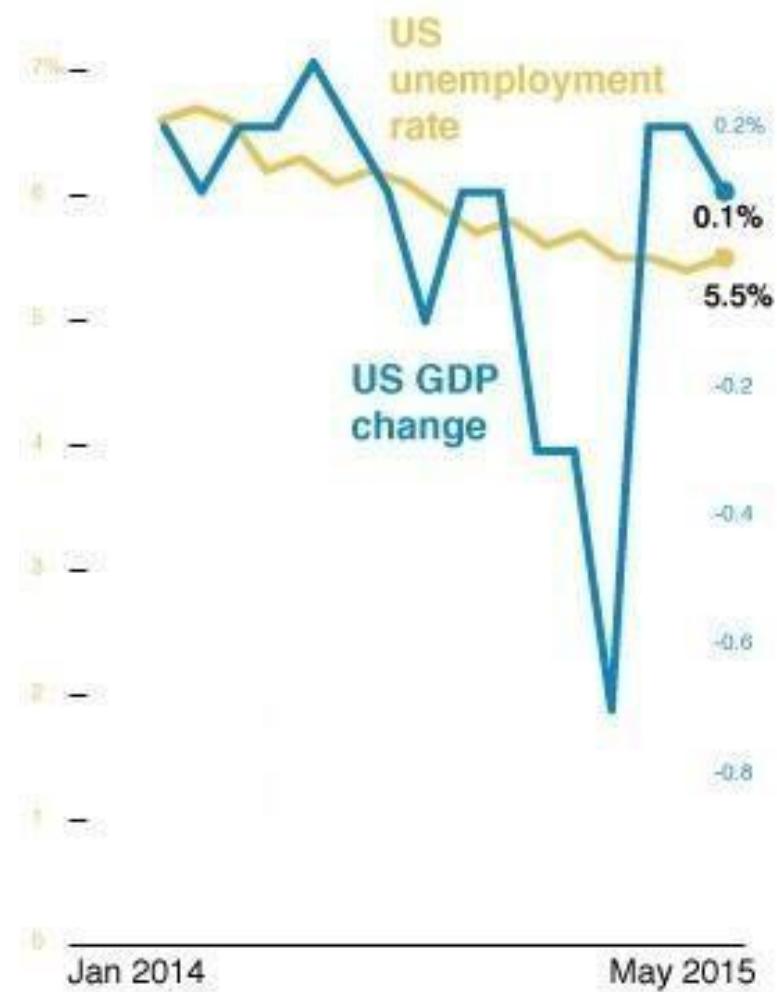
Religions in the world



Here They have ignored the grey sector which is considerable because it has the same area of buddhist sector.

6 For each line two different scales are used.

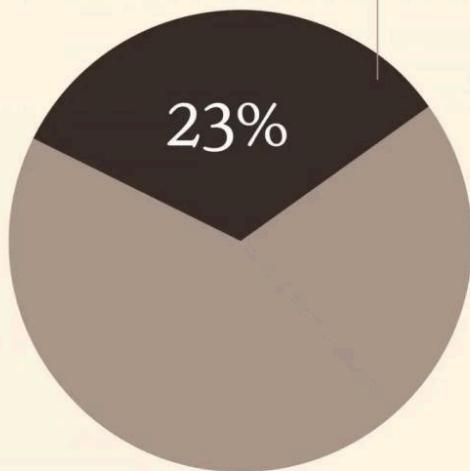
This causes ambiguity.



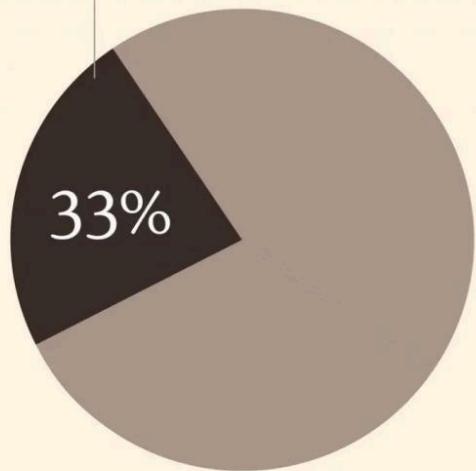
7 This is not clearly show the key details which graph should indicate since the more variation of colors.



Did not see a doctor when they needed to because of fear of being mistreated as a transgender person.



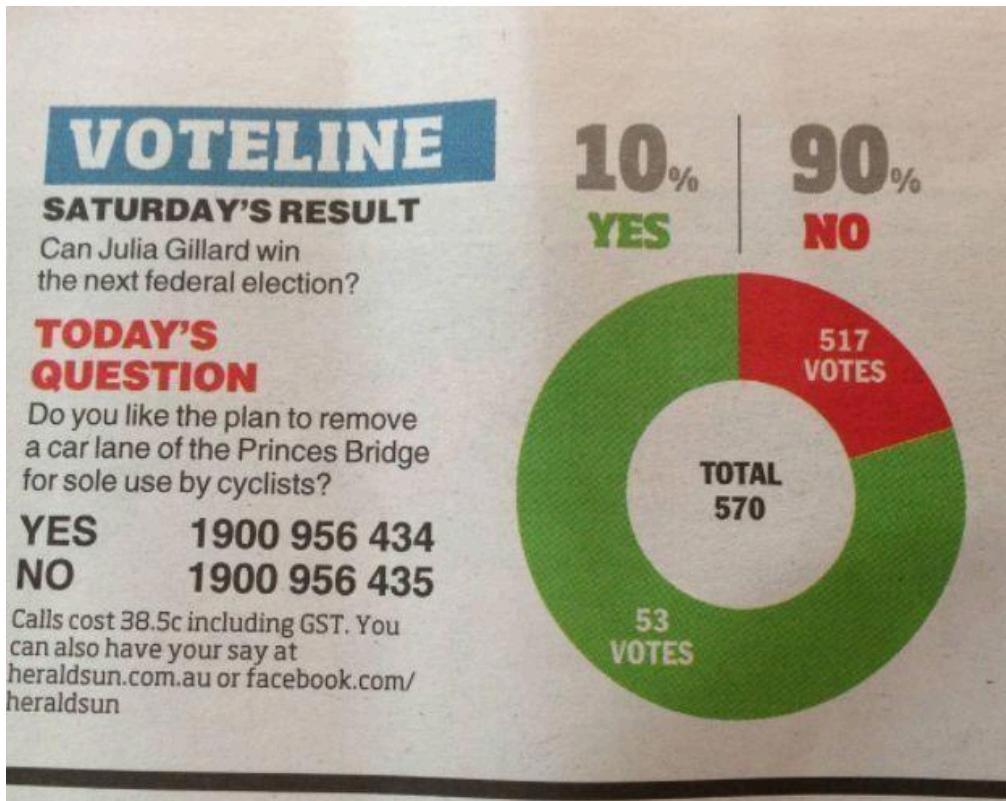
Reported having at least one negative experience related to being transgender with a health care provider.



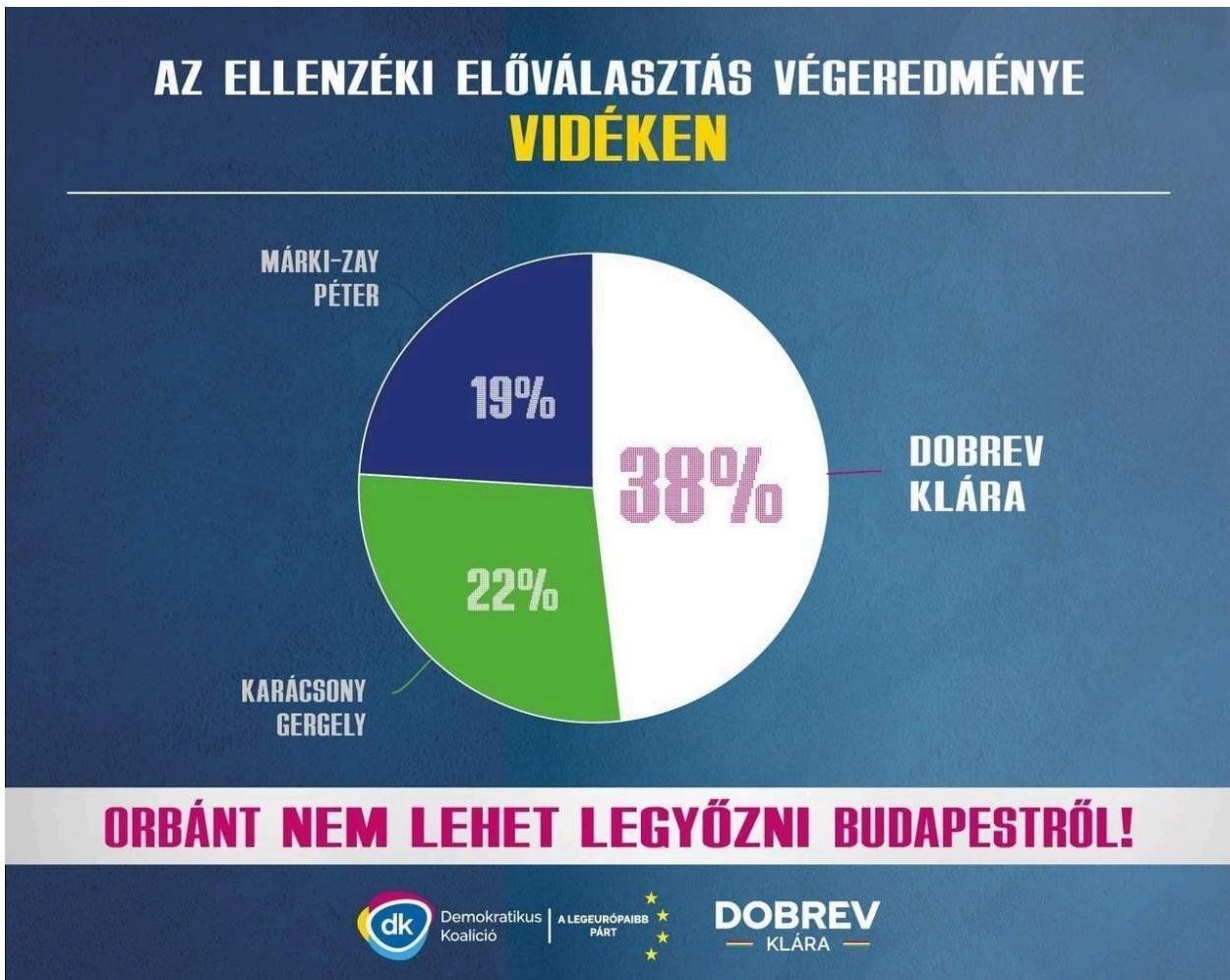
National Center for Transgender Equality. US Transgender Survey, 2015. Available at: <http://www.ustranssurvey.org>

Failed Calculations. Here pie charts does not provide the percentages of other category

9. There is massive misuse of visualization in the below pie chart. The votes aren't in proportional to the number of votes.



10.Here the sum of the percentages doesn't add up to 100% and the Areas aren't proportional to the percentages.



11

The Misuse of colors in the both pie chart and bar graph are not correlated and give contradictory meaning of the information. Also lack of clarity about the correspondence of axis and color to the quantities that are trying to explain.

OVERDOSE EPIDEMIC BY THE NUMBERS:

- Overdose deaths in B.C. in 2020: 1,726
Deaths in Fraser Health in 2020: 574
- Overdose deaths in B.C. in first 5 months of 2021: 851
Deaths in Fraser Health in first 5 months: 291

Provincial data from Jan. 1 to May 31, 2021:

- In May 2021, there were 160 suspected illicit drug toxicity deaths – equates to about 5.2 deaths per day. This is the second largest number of suspected deaths ever recorded in the month of May (May 2020 had 177 deaths).
- In 2021, 70 per cent of people dying have been aged 39 to 59. Males have accounted for 80 per cent of the deaths.
- In 2021, 85 per cent of deaths occurred **inside**, 56 per cent in private residences and 29 per cent in social and supportive housing, SROs, shelters, hotels. Only 14 per cent occurred **outside**.
- No deaths have been reported at supervised consumption or drug overdose prevention sites.

