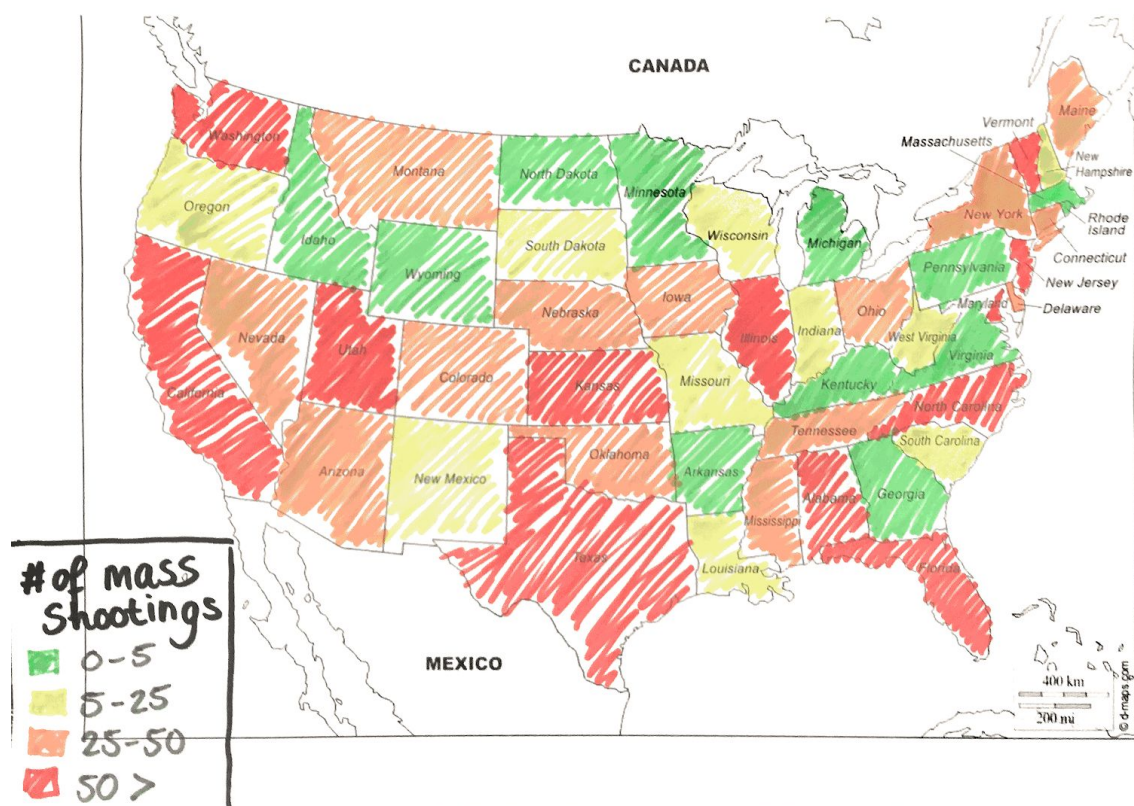


# Design Progress Report 2

20 April 2018

Data Processing Fall 2018

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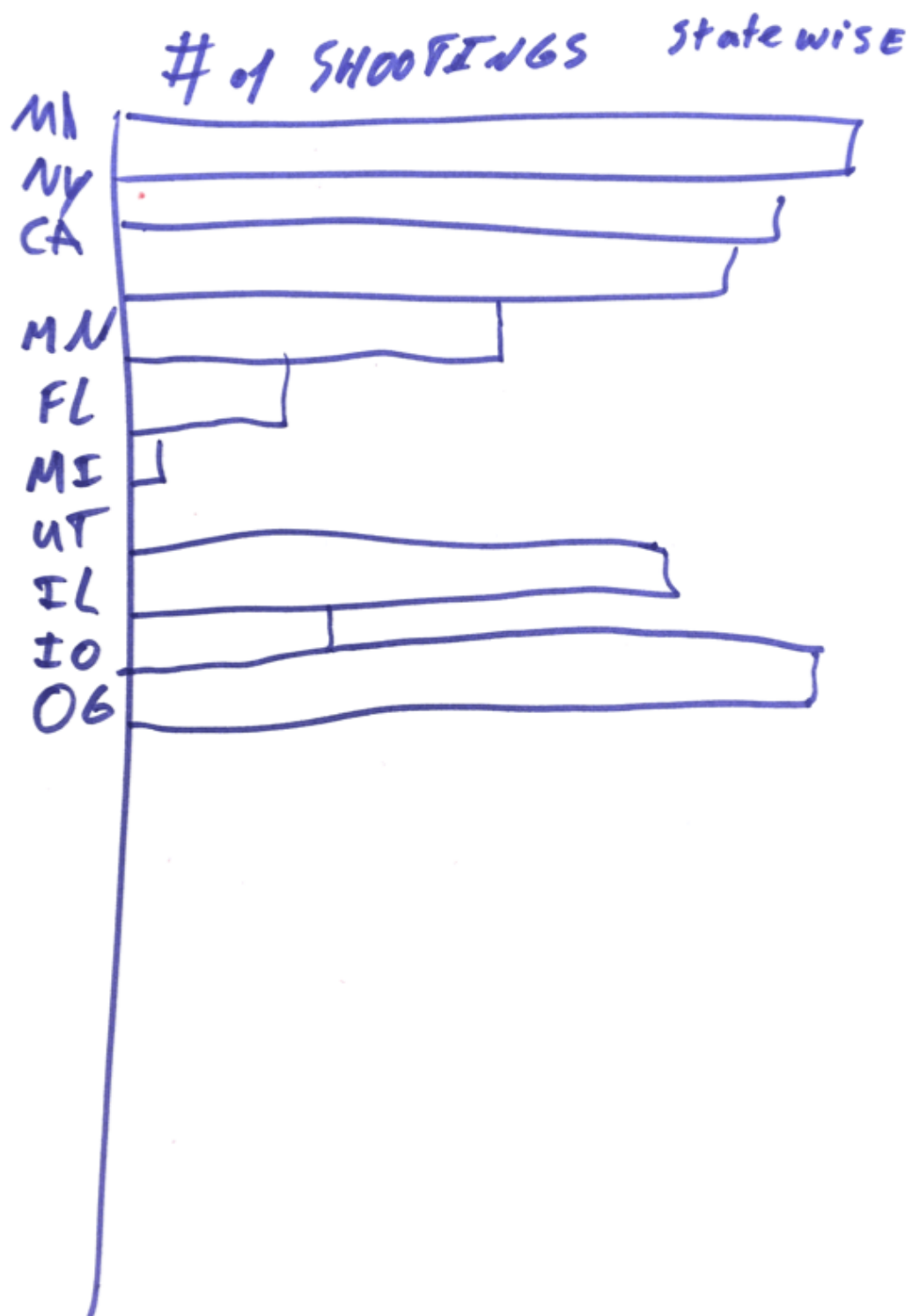
*Number of mass shootings per state*

Colored density map of mass shooting. This will provide an overview of the number of mass shootings per state in the past 50 years. We can use this graph to correlate the amount of shootings per state with another dataset, for example mental health issues or educational level per state.



### *Locations of all mass shootings in the USA in the last 50 years per state*

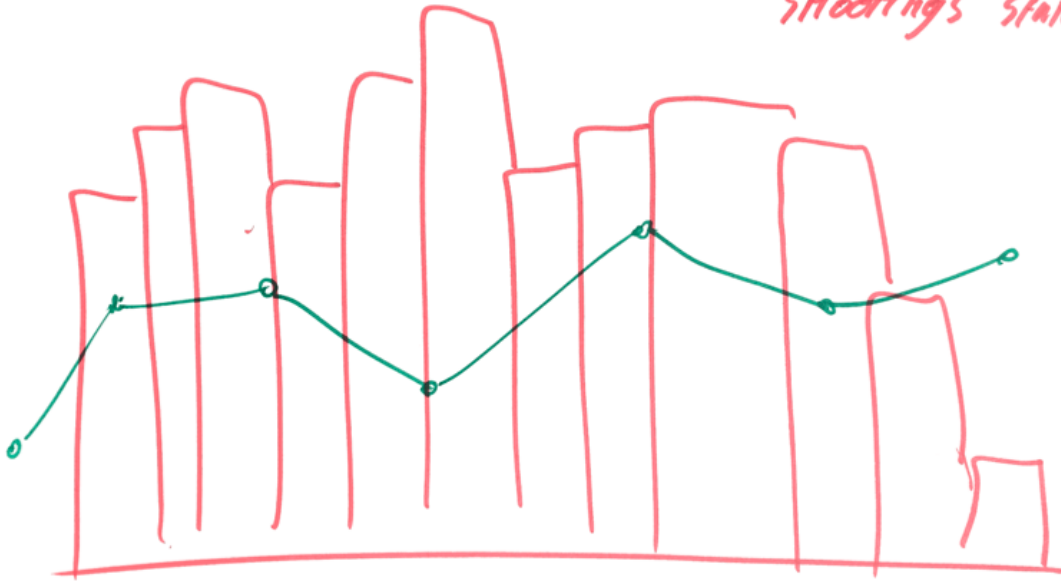
This graph will give us more information about the precise locations of the mass shootings. It will help us map the shootings, and map the states where more shootings occur than other states. We could look why some states have more shootings, by looking at motive behind shootings or gun laws in states.



*Bar chart number of deaths per state*

Another way to visualize deaths per state. A bar graph of deaths per state could give us a better overview of the major differences per state.

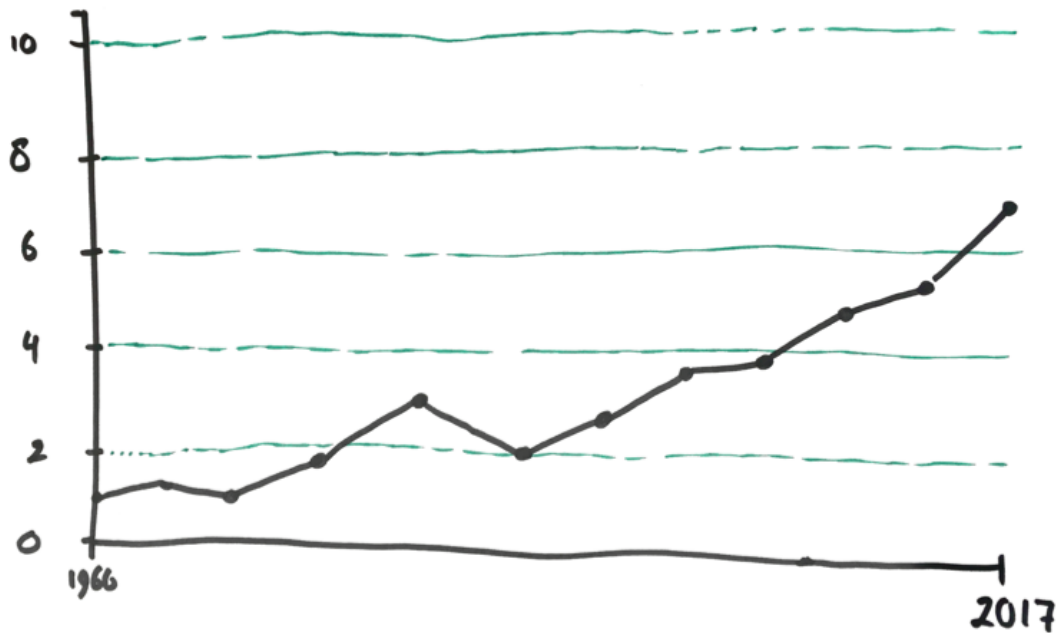
## # of Deaths Statewise vs # of Shootings Statewise



*Line graph overlapping a barchart producing an overview of deaths versus shootings statewise.*

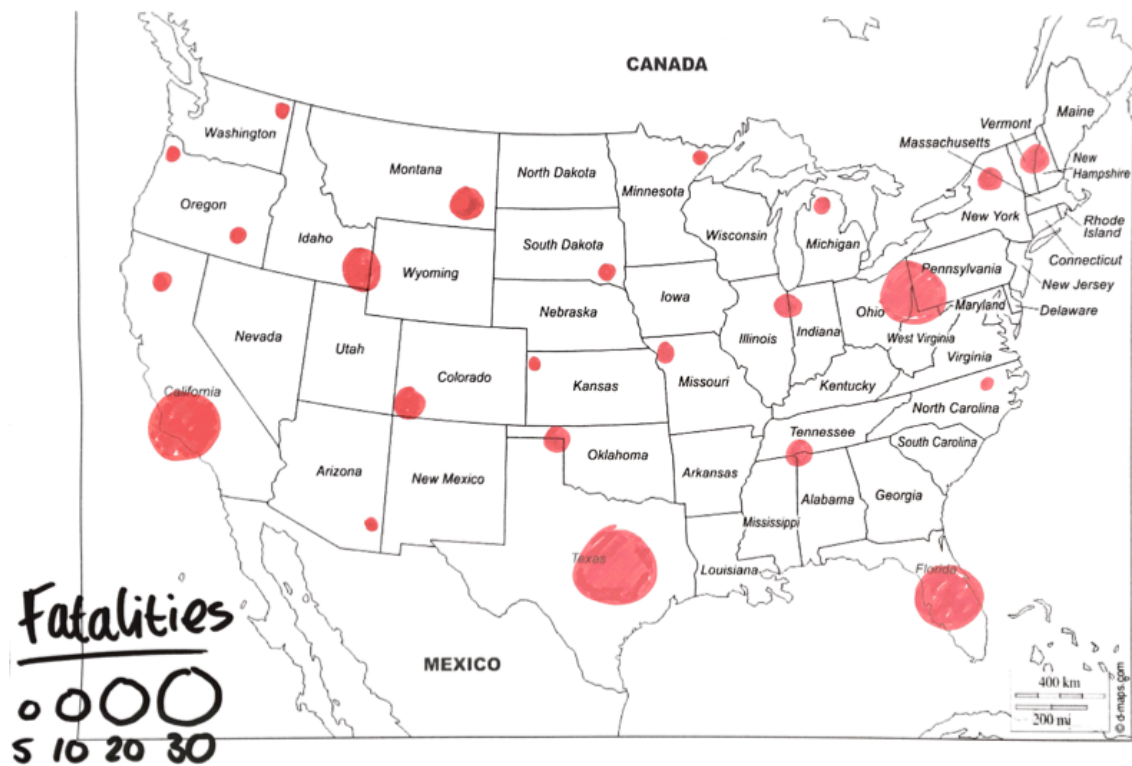
This chart will help us determine whether the number of shootings correlate with the number of deaths in these shootings. Visualizing whether a low amount of shootings will amass to a high number of casualties in a state or that a large amount of shootings will result in a relatively low amount of deathly casualties, or something in between.

## Deaths in the US by gun violence (rate / 100.000 inhabitants)



*Line graph plotting the number of deaths by gun violence in the USA.*

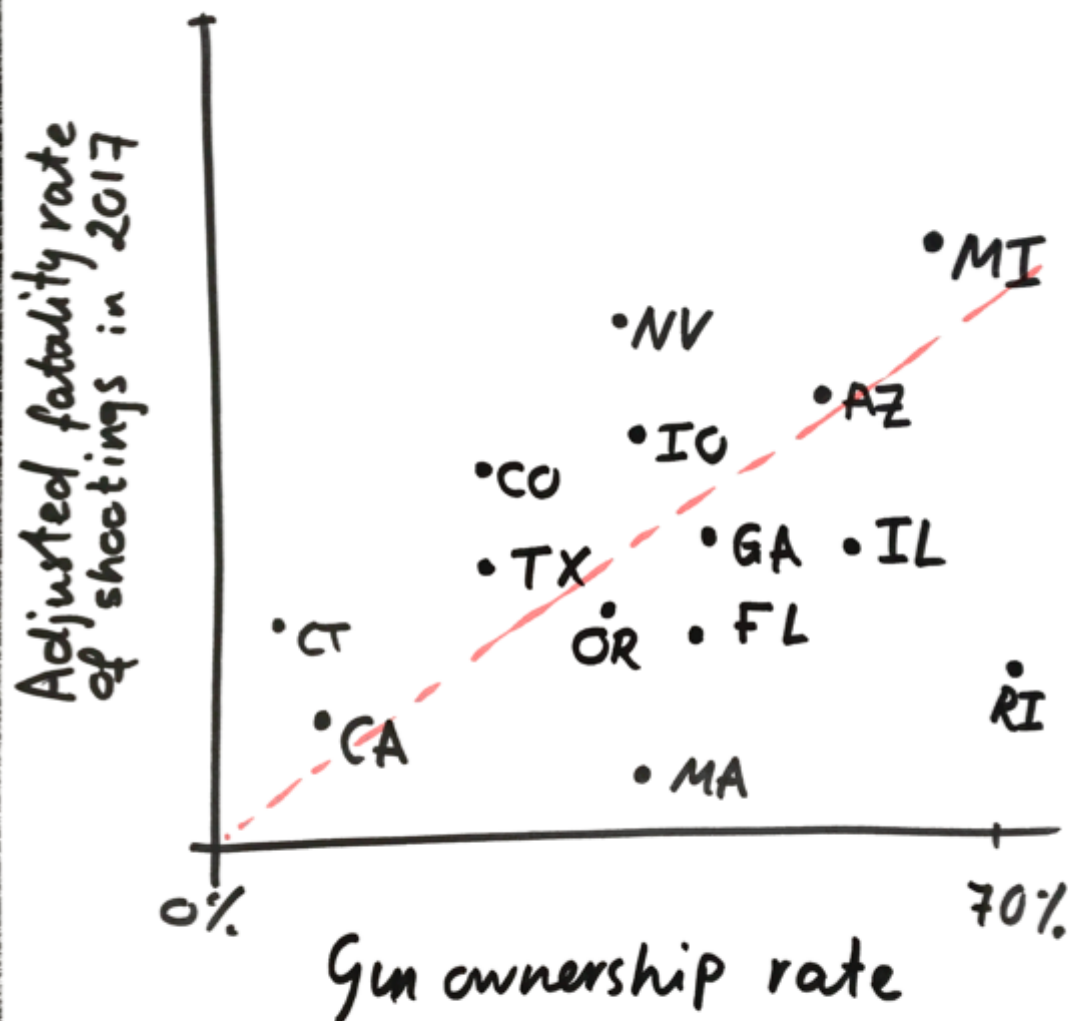
Showing whether a trend in deaths by gun violence can be discovered. If there is indeed a trend, demographic or any other viable explanation can shed light on why this could be the case.



*Map of the USA where number of fatalities are indicated.*

Map of the USA where number of fatalities are indicated as to determine the states where the highest number of casualties are. This can indicate regions where a lot of fatalities fall.

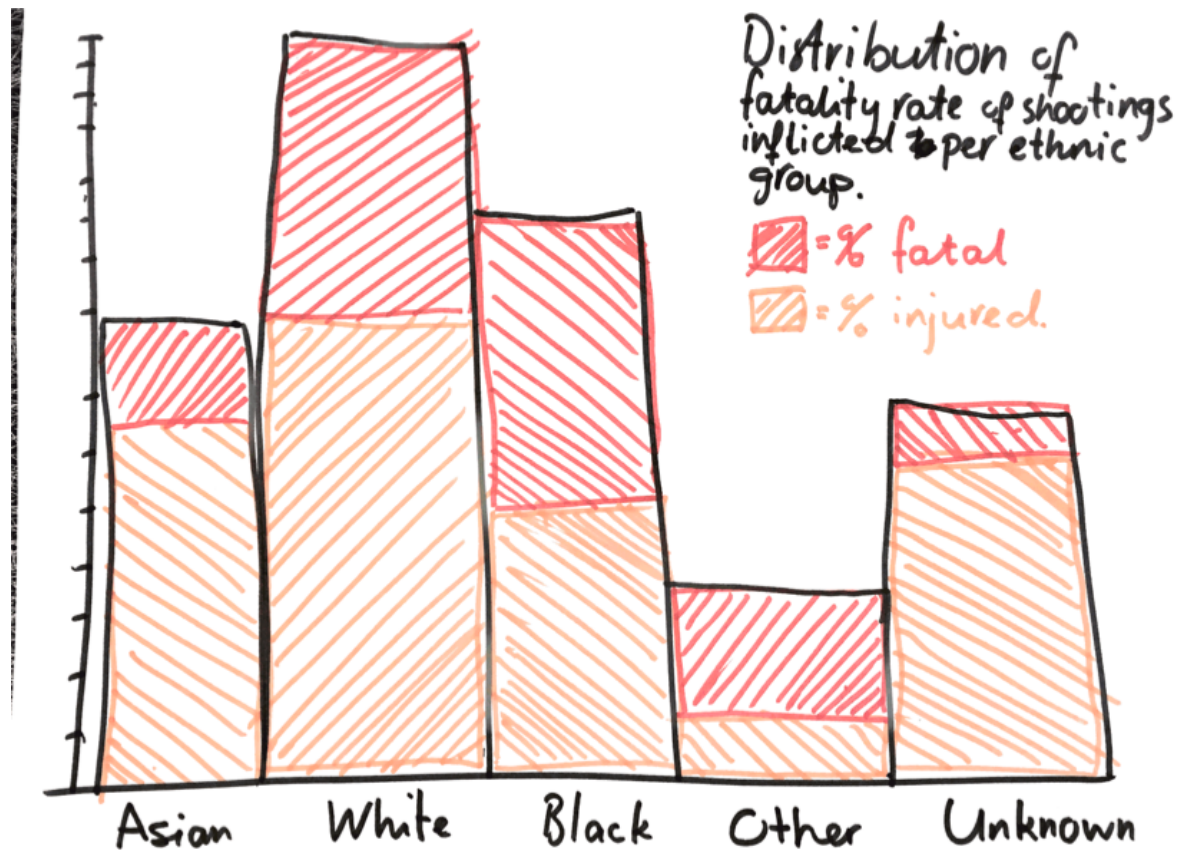
Scatter Plot of gun ownership rate  
vs. fatality rate by state



*Gun ownership and fatality rate in mass shootings per state in the USA*

A scatterplot showing the relationship per state between the amount of citizens owning a gun and the fatality rate of a mass shooting. This could provide insight in whether stricter laws regarding gun ownership could lead to a possible decrease in the amount of people injured after a mass shooting.



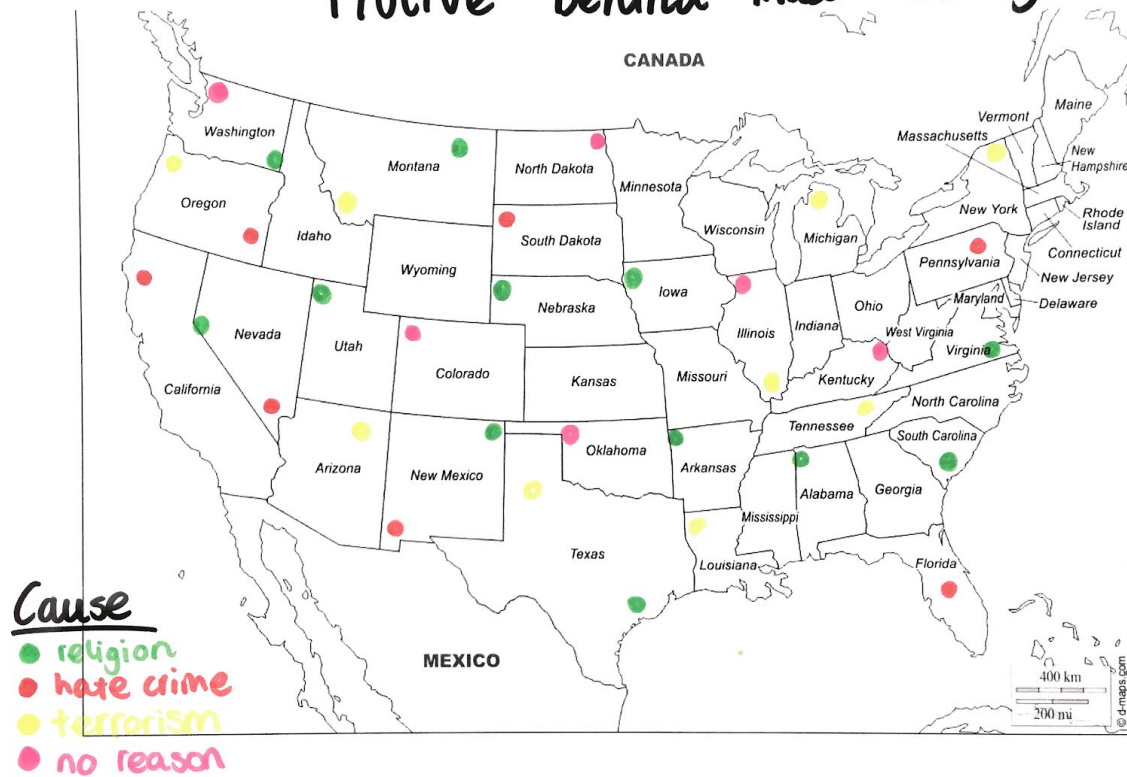


*Distribution of fatality rate of shootings inflicted per ethnic group*

Bar graph showing the fatality rate of mass shootings per ethnic group. This graph can be used in combination with the map showing motives behind mass shootings. By focussing on mass shootings caused by a hate crime or racism, you can visualize which ethnic group is most affected.



# Motive behind mass shootings



Graph showing the motives behind mass shootings

Map showing the motive behind mass shootings, categorized in religious shootings, shootings caused by a hate crime, terrorism, or no reason specified.