

Proposal: United States Gun Violence

Topic and Rationale

The second amendment and the ongoing political debate of having stricter gun control laws is a current issue in the U.S. With weekly news stories of gun shootings in our schools and community to the recent “March of Our Lives” movement, gun violence is an ever-prevalent issue has become a norm in our daily lives. As such, we would like to explore and present data about gun shootings in the U.S. from 2013-2018.

Dataset

We decided to use this dataset because it's the most recent mass shooting data from the CDC <https://www.cdc.gov/datastatistics/index.html>. We also chose this dataset because it includes the latitude and longitude of each mass shooting occurrence, giving us the ability to map the location of each shooting on a map of the United States.

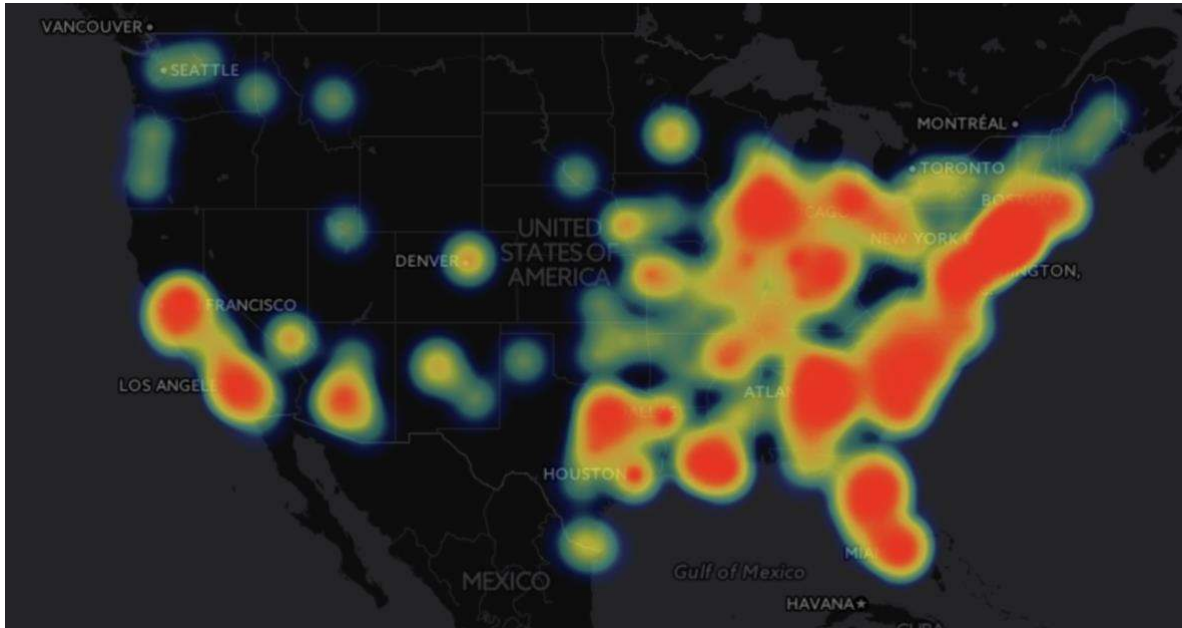
CDC mass shooting data {2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016}

Snapshot (from .csv file):

Month	Month Code	County	County Code	Deaths	latitude	longitude	Population
Jan., 2007	2007/01	Alameda County, CA	6001	11	37.6090291	-121.89914	1449000
Jun., 2007	2007/06	Alameda County, CA	6001	18	37.6090291	-121.89914	1449000
Jul., 2007	2007/07	Alameda County, CA	6001	13	37.6090291	-121.89914	1449000
Aug., 2007	2007/08	Alameda County, CA	6001	11	37.6090291	-121.89914	1449000
Sep., 2007	2007/09	Alameda County, CA	6001	17	37.6090291	-121.89914	1449000
Dec., 2007	2007/12	Alameda County, CA	6001	16	37.6090291	-121.89914	1449000
Feb., 2008	2008/02	Alameda County, CA	6001	18	37.6090291	-121.89914	1454000
Mar., 2008	2008/03	Alameda County, CA	6001	12	37.6090291	-121.89914	1454000
May, 2008	2008/05	Alameda County, CA	6001	16	37.6090291	-121.89914	1454000
Jun., 2008	2008/06	Alameda County, CA	6001	14	37.6090291	-121.89914	1454000
Jul., 2008	2008/07	Alameda County, CA	6001	14	37.6090291	-121.89914	1454000
Aug., 2008	2008/08	Alameda County, CA	6001	15	37.6090291	-121.89914	1454000
Sep., 2008	2008/09	Alameda County, CA	6001	14	37.6090291	-121.89914	1454000
Mar., 2009	2009/03	Alameda County, CA	6001	15	37.6090291	-121.89914	1457095
Apr., 2009	2009/04	Alameda County, CA	6001	13	37.6090291	-121.89914	1457095
Jul., 2009	2009/07	Alameda County, CA	6001	12	37.6090291	-121.89914	1457095
Aug., 2009	2009/08	Alameda County, CA	6001	10	37.6090291	-121.89914	1457095
Sep., 2009	2009/09	Alameda County, CA	6001	12	37.6090291	-121.89914	1457095
Nov., 2009	2009/11	Alameda County, CA	6001	11	37.6090291	-121.89914	1457095
Mar., 2010	2010/03	Alameda County, CA	6001	14	37.6090291	-121.89914	1510271
Jun., 2010	2010/06	Alameda County, CA	6001	11	37.6090291	-121.89914	1510271
Nov., 2010	2010/11	Alameda County, CA	6001	10	37.6090291	-121.89914	1510271
Dec., 2010	2010/12	Alameda County, CA	6001	14	37.6090291	-121.89914	1510271
Jan., 2011	2011/01	Alameda County, CA	6001	15	37.6090291	-121.89914	1529875
May, 2011	2011/05	Alameda County, CA	6001	12	37.6090291	-121.89914	1529875
Jul., 2011	2011/07	Alameda County, CA	6001	13	37.6090291	-121.89914	1529875
Oct., 2011	2011/10	Alameda County, CA	6001	10	37.6090291	-121.89914	1529875

Visualizations

VISUALIZATION #1: Geodata map of United States overlay heatmap of mass shooting concentrations.



VISUALIZATION #2: Interactive map of the US with numbers of mass shootings and shooting information. User can zoom in on states and cities and see where shooting occurred and the frequency of mass shootings in a given state)



Sketch of Final Design

Dropdown menu
of views



HEATMAP
BREAKDOWN BY CITY
US vs REST OF WORLD
STATE HOMICIDE RATE
← RATE LAW Comparison

PROJECT TITLE



EXPLANATION OF DATA & VISUALIZATION

DATA SOURCES
✓ BELOW

GitHub Repository

<https://github.com/BobDataDude/Project-US-Gun-Violence>