Gun data

Big data Graphics TEAM 1

## Gun-Violence-Data

The CSV file contains data for all recorded gun violence incidents in the US between January 2013 and March 2018

## Source

https://www.gunviolencearchive.org/

https://www.kaggle.com/jameslko/gun-violence-data



dim(gun)

## [1] 239666 29

glimpse(gun)

## Observations: 239,666  
## Variables: 29  
## $ incident\_id <int> 461105, 460726, 478855, 478925, 47...  
## $ date <fct> 2013-01-01, 2013-01-01, 2013-01-01...  
## $ state <fct> Pennsylvania, California, Ohio, Co...  
## $ city\_or\_county <fct> Mckeesport, Hawthorne, Lorain, Aur...  
## $ address <fct> 1506 Versailles Avenue and Coursin...  
## $ n\_killed <int> 0, 1, 1, 4, 2, 4, 5, 0, 0, 1, 1, 1...  
## $ n\_injured <int> 4, 3, 3, 0, 2, 0, 0, 5, 4, 6, 3, 3...  
## $ incident\_url <fct> http://www.gunviolencearchive.org/...  
## $ source\_url <fct> http://www.post-gazette.com/local/...  
## $ incident\_url\_fields\_missing <fct> FALSE, FALSE, FALSE, FALSE, FALSE,...  
## $ congressional\_district <int> 14, 43, 9, 6, 6, 1, 1, 2, 9, 7, 3,...  
## $ gun\_stolen <fct> , , 0::Unknown||1::Unknown, , 0::U...  
## $ gun\_type <fct> , , 0::Unknown||1::Unknown, , 0::H...  
## $ incident\_characteristics <fct> Shot - Wounded/Injured||Mass Shoot...  
## $ latitude <dbl> 40.3467, 33.9090, 41.4455, 39.6518...  
## $ location\_description <fct> , , Cotton Club, , , Fairmont Terr...  
## $ longitude <dbl> -79.8559, -118.3330, -82.1377, -10...  
## $ n\_guns\_involved <fct> , , 2, , 2, , 2, , , , 1, 1, 1, 1,...  
## $ notes <fct> Julian Sims under investigation: F...  
## $ participant\_age <fct> 0::20, 0::20, 0::25||1::31||2::33|...  
## $ participant\_age\_group <fct> 0::Adult 18+||1::Adult 18+||2::Adu...  
## $ participant\_gender <fct> 0::Male||1::Male||3::Male||4::Fema...  
## $ participant\_name <fct> 0::Julian Sims, 0::Bernard Gillis,...  
## $ participant\_relationship <fct> , , , , 3::Family, , 5::Family, , ...  
## $ participant\_status <fct> 0::Arrested||1::Injured||2::Injure...  
## $ participant\_type <fct> 0::Victim||1::Victim||2::Victim||3...  
## $ sources <fct> http://pittsburgh.cbslocal.com/201...  
## $ state\_house\_district <fct> , 62, 56, 40, 62, 72, 10, 93, 11, ...  
## $ state\_senate\_district <fct> , 35, 13, 28, 27, 11, 14, 5, 7, 44...

#state  
gun %>% count(state) %>% print(n = 51)

## # A tibble: 51 x 2  
## state n  
## <fct> <int>  
## 1 Alabama 5471  
## 2 Alaska 1349  
## 3 Arizona 2328  
## 4 Arkansas 2841  
## 5 California 16306  
## 6 Colorado 3201  
## 7 Connecticut 3067  
## 8 Delaware 1685  
## 9 District of Columbia 3195  
## 10 Florida 15027  
## 11 Georgia 8925  
## 12 Hawaii 289  
## 13 Idaho 661  
## 14 Illinois 17556  
## 15 Indiana 5852  
## 16 Iowa 2516  
## 17 Kansas 2145  
## 18 Kentucky 4157  
## 19 Louisiana 8103  
## 20 Maine 907  
## 21 Maryland 5798  
## 22 Massachusetts 5981  
## 23 Michigan 6135  
## 24 Minnesota 2408  
## 25 Mississippi 3599  
## 26 Missouri 6631  
## 27 Montana 638  
## 28 Nebraska 1650  
## 29 Nevada 1952  
## 30 New Hampshire 964  
## 31 New Jersey 5387  
## 32 New Mexico 1645  
## 33 New York 9712  
## 34 North Carolina 8737  
## 35 North Dakota 573  
## 36 Ohio 10244  
## 37 Oklahoma 3455  
## 38 Oregon 2286  
## 39 Pennsylvania 8929  
## 40 Rhode Island 895  
## 41 South Carolina 6938  
## 42 South Dakota 544  
## 43 Tennessee 7625  
## 44 Texas 13576  
## 45 Utah 1072  
## 46 Vermont 472  
## 47 Virginia 5949  
## 48 Washington 3434  
## 49 West Virginia 1575  
## 50 Wisconsin 4787  
## 51 Wyoming 494

#n\_killed  
gun %>% count(n\_killed)

## # A tibble: 16 x 2  
## n\_killed n  
## <int> <int>  
## 1 0 185828  
## 2 1 48432  
## 3 2 4604  
## 4 3 595  
## 5 4 139  
## 6 5 41  
## 7 6 11  
## 8 7 2  
## 9 8 5  
## 10 9 3  
## 11 10 1  
## 12 11 1  
## 13 16 1  
## 14 17 1  
## 15 27 1  
## 16 50 1

#n\_injured  
gun %>% count(n\_injured) %>% print(n = 23)

## # A tibble: 23 x 2  
## n\_injured n  
## <int> <int>  
## 1 0 142480  
## 2 1 81983  
## 3 2 11483  
## 4 3 2513  
## 5 4 760  
## 6 5 241  
## 7 6 91  
## 8 7 51  
## 9 8 19  
## 10 9 12  
## 11 10 6  
## 12 11 4  
## 13 12 5  
## 14 13 2  
## 15 14 3  
## 16 15 2  
## 17 16 2  
## 18 17 2  
## 19 18 1  
## 20 19 3  
## 21 20 1  
## 22 25 1  
## 23 53 1