La1

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packages_to_install <- c("ggplot2", "dplyr", "tidyr", "readr", "lubridate", "stringr", "knitr", "rmarkdown")
install.packages(packages_to_install)

```r
# Loading the dataset
my_data <- read.csv("C:/Users/harsh/Music/edal1/globalterrorismdb_0718dist.csv")


# Data Inspection
head(my_data) # View the first 6 rows of the data frame
```

```
##       eventid iyear imonth iday approxdate extended resolution country
## 1 1.97000e+11  1970      7    2                     0                58
## 2 1.97000e+11  1970      0    0                     0               130
## 3 1.97001e+11  1970      1    0                     0               160
## 4 1.97001e+11  1970      1    0                     0                78
## 5 1.97001e+11  1970      1    0                     0               101
## 6 1.97001e+11  1970      1    1                     0               217
##           country_txt region                region_txt provstate          city
## 1  Dominican Republic      2 Central America & Caribbean             Santo Domingo
## 2              Mexico      1             North America   Federal   Mexico city
## 3          Philippines      5            Southeast Asia    Tarlac        Unknown
## 4              Greece      8            Western Europe    Attica         Athens
## 5               Japan      4                 East Asia   Fukouka        Fukouka
## 6       United States      1             North America  Illinois          Cairo
##    latitude longitude specificity vicinity location
## 1 18.45679 -69.95116           1        0
## 2 19.37189 -99.08662           1        0
## 3 15.47860 120.59974           4        0
## 4 37.99749  23.76273           1        0
## 5 33.58041 130.39636           1        0
## 6 37.00511 -89.17627           1        0
##
## 1
## 2
## 3
## 4
## 5
## 6 1/1/1970: Unknown African American assailants fired several bullets at police headquarters in Cairo
##   crit1 crit2 crit3 doubtterr alternative alternative_txt multiple success
## 1     1     1     1         0          NA                        0       1
## 2     1     1     1         0          NA                        0       1
```

```
## 3    1    1    1       0        NA                         0       1
## 4    1    1    1       0        NA                         0       1
## 5    1    1    1      -9        NA                         0       1
## 6    1    1    1       0        NA                         0       1
##   suicide attacktype1              attacktype1_txt attacktype2
## 1       0           1                 Assassination          NA
## 2       0           6     Hostage Taking (Kidnapping)          NA
## 3       0           1                 Assassination          NA
## 4       0           3               Bombing/Explosion          NA
## 5       0           7 Facility/Infrastructure Attack          NA
## 6       0           2                  Armed Assault          NA
##   attacktype2_txt attacktype3 attacktype3_txt targtype1
## 1                          NA                         14
## 2                          NA                          7
## 3                          NA                         10
## 4                          NA                          7
## 5                          NA                          7
## 6                          NA                          3
##             targtype1_txt targsubtype1
## 1 Private Citizens & Property           68
## 2     Government (Diplomatic)           45
## 3         Journalists & Media           54
## 4     Government (Diplomatic)           46
## 5     Government (Diplomatic)           46
## 6                     Police           22
##                                    targsubtype1_txt
## 1                                    Named Civilian
## 2 Diplomatic Personnel (outside of embassy, consulate)
## 3                       Radio Journalist/Staff/Facility
## 4                               Embassy/Consulate
## 5                               Embassy/Consulate
## 6     Police Building (headquarters, station, school)
##                           corp1              target1 natlty1
## 1                                      Julio Guzman      58
## 2 Belgian Ambassador Daughter   Nadine Chaval, daughter      21
## 3             Voice of America                Employee     217
## 4                                      U.S. Embassy     217
## 5                                     U.S. Consulate     217
## 6     Cairo Police Department Cairo Police Headquarters     217
##         natlty1_txt targtype2 targtype2_txt targsubtype2 targsubtype2_txt
## 1 Dominican Republic        NA                          NA
## 2            Belgium        NA                          NA
## 3      United States        NA                          NA
## 4      United States        NA                          NA
## 5      United States        NA                          NA
## 6      United States        NA                          NA
##   corp2 target2 natlty2 natlty2_txt targtype3 targtype3_txt targsubtype3
## 1            NA                          NA                          NA
## 2            NA                          NA                          NA
## 3            NA                          NA                          NA
## 4            NA                          NA                          NA
## 5            NA                          NA                          NA
## 6            NA                          NA                          NA
##   targsubtype3_txt corp3 target3 natlty3 natlty3_txt
```

```
## 1                                 NA
## 2                                 NA
## 3                                 NA
## 4                                 NA
## 5                                 NA
## 6                                 NA
##                                  gname gsubname gname2 gsubname2 gname3 gsubname3
## 1                               MANO-D
## 2 23rd of September Communist League
## 3                              Unknown
## 4                              Unknown
## 5                              Unknown
## 6                    Black Nationalists
##                                      motive guncertain1 guncertain2
## 1                                                      0          NA
## 2                                                      0          NA
## 3                                                      0          NA
## 4                                                      0          NA
## 5                                                      0          NA
## 6 To protest the Cairo Illinois Police Deparment       0          NA
##   guncertain3 individual nperps nperpcap claimed claimmode claimmode_txt claim2
## 1          NA          0     NA       NA      NA        NA                    NA
## 2          NA          0      7       NA      NA        NA                    NA
## 3          NA          0     NA       NA      NA        NA                    NA
## 4          NA          0     NA       NA      NA        NA                    NA
## 5          NA          0     NA       NA      NA        NA                    NA
## 6          NA          0    -99      -99       0        NA                    NA
##   claimmode2 claimmode2_txt claim3 claimmode3 claimmode3_txt compclaim
## 1         NA                    NA         NA                       NA
## 2         NA                    NA         NA                       NA
## 3         NA                    NA         NA                       NA
## 4         NA                    NA         NA                       NA
## 5         NA                    NA         NA                       NA
## 6         NA                    NA         NA                       NA
##   weaptype1 weaptype1_txt weapsubtype1      weapsubtype1_txt weaptype2
## 1        13       Unknown           NA                              NA
## 2        13       Unknown           NA                              NA
## 3        13       Unknown           NA                              NA
## 4         6     Explosives           16 Unknown Explosive Type        NA
## 5         8     Incendiary           NA                              NA
## 6         5       Firearms            5        Unknown Gun Type        NA
##   weaptype2_txt weapsubtype2 weapsubtype2_txt weaptype3 weaptype3_txt
## 1                         NA                         NA
## 2                         NA                         NA
## 3                         NA                         NA
## 4                         NA                         NA
## 5                         NA                         NA
## 6                         NA                         NA
##   weapsubtype3 weapsubtype3_txt weaptype4 weaptype4_txt weapsubtype4
## 1           NA                         NA                         NA
## 2           NA                         NA                         NA
## 3           NA                         NA                         NA
## 4           NA                         NA                         NA
## 5           NA                         NA                         NA
```

```
## 6              NA                            NA                              NA
##   weapsubtype4_txt                weapdetail nkill nkillus nkillter nwound
## 1                                                 1      NA       NA      0
## 2                                                 0      NA       NA      0
## 3                                                 1      NA       NA      0
## 4                                   Explosive    NA      NA       NA     NA
## 5                                  Incendiary    NA      NA       NA     NA
## 6           Several gunshots were fired.        0       0        0      0
##   nwoundus nwoundte property propextent            propextent_txt propvalue
## 1       NA       NA        0         NA                                   NA
## 2       NA       NA        0         NA                                   NA
## 3       NA       NA        0         NA                                   NA
## 4       NA       NA        1         NA                                   NA
## 5       NA       NA        1         NA                                   NA
## 6        0        0        1          3 Minor (likely < $1 million)        NA
##   propcomment ishostkid nhostkid nhostkidus nhours ndays divert kidhijcountry
## 1                     0       NA         NA     NA    NA
## 2                     1        1          0     NA    NA                Mexico
## 3                     0       NA         NA     NA    NA
## 4                     0       NA         NA     NA    NA
## 5                     0       NA         NA     NA    NA
## 6                     0       NA         NA     NA    NA
##   ransom ransomamt ransomamtus ransompaid ransompaidus ransomnote
## 1      0        NA          NA         NA           NA
## 2      1     8e+05          NA         NA           NA
## 3      0        NA          NA         NA           NA
## 4      0        NA          NA         NA           NA
## 5      0        NA          NA         NA           NA
## 6      0        NA          NA         NA           NA
##   hostkidoutcome hostkidoutcome_txt nreleased
## 1             NA                           NA
## 2             NA                           NA
## 3             NA                           NA
## 4             NA                           NA
## 5             NA                           NA
## 6             NA                           NA
##                                                                       addnotes
## 1
## 2
## 3
## 4
## 5
## 6 The Cairo Chief of Police, William Petersen, resigned as a result of the attack.
##                                                                         scite1
## 1
## 2
## 3
## 4
## 5
## 6 "Police Chief Quits," Washington Post, January 2, 1970.
##                                                                         scite2
## 1
## 2
## 3
```

```
## 4
## 5
## 6 "Cairo Police Chief Quits; Decries Local 'Militants'," Afro-American, January 10, 1970.
##
## 1
## 2
## 3
## 4
## 5
## 6 Christopher Hewitt, "Political Violence and Terrorism in Modern America: A Chronology," Praeger Se
##          dbsource INT_LOG INT_IDEO INT_MISC INT_ANY related
## 1           PGIS       0         0        0       0
## 2           PGIS       0         1        1       1
## 3           PGIS      -9        -9        1       1
## 4           PGIS      -9        -9        1       1
## 5           PGIS      -9        -9        1       1
## 6 Hewitt Project      -9        -9        0      -9
```

```r
tail(my_data) # View the last 6 rows of the data frame
```

```
##                eventid iyear imonth iday approxdate extended resolution country
## 181686 201712310020  2017     12   31                       0                   4
## 181687 201712310022  2017     12   31                       0                 182
## 181688 201712310029  2017     12   31                       0                 200
## 181689 201712310030  2017     12   31                       0                 160
## 181690 201712310031  2017     12   31                       0                  92
## 181691 201712310032  2017     12   31                       0                 160
##        country_txt region                  region_txt      provstate
## 181686 Afghanistan      6                  South Asia         Faryab
## 181687     Somalia     11          Sub-Saharan Africa Middle Shebelle
## 181688       Syria     10 Middle East & North Africa       Lattakia
## 181689 Philippines      5              Southeast Asia     Maguindanao
## 181690       India      6                  South Asia        Manipur
## 181691 Philippines      5              Southeast Asia     Maguindanao
##                 city  latitude longitude specificity vicinity
## 181686       Maymana 35.921051  64.77454           1        0
## 181687 Ceelka Geelow  2.359673  45.38503           2        0
## 181688        Jableh 35.407278  35.94268           1        1
## 181689      Kubentog  6.900742 124.43791           2        0
## 181690        Imphal 24.798346  93.94043           1        0
## 181691 Cotabato City  7.209594 124.24197           1        0
##                                                            location
## 181686
## 181687          The incident occurred near the town of Balcad.
## 181688          The incident occurred at the Humaymim Airport.
## 181689      The incident occurred in the Datu Hoffer district.
## 181690 The incident occurred in the Mantripukhri neighborhood.
## 181691
##
## 181686
## 181687                       12/31/2017: Assailants opened fire on a Somali National Army (SNA)
## 181688     12/31/2017: Assailants launched mortars at the Hmeymim Air Base in Jableh, Lattakia, Syria
## 181689 12/31/2017: Assailants set fire to houses in Kubentog, Datu Hoffer, Maguindanao, Philippines.
## 181690                                                              12/31/2017: Assailants thr
```

```
## 181691
##        crit1 crit2 crit3 doubtterr alternative           alternative_txt
## 181686     1     1     1         0          NA
## 181687     1     1     0         1           1 Insurgency/Guerilla Action
## 181688     1     1     0         1           1 Insurgency/Guerilla Action
## 181689     1     1     1         0          NA
## 181690     1     1     1         0          NA
## 181691     1     1     1         0          NA
##        multiple success suicide attacktype1              attacktype1_txt
## 181686        0       1       0           3           Bombing/Explosion
## 181687        0       1       0           2                Armed Assault
## 181688        0       1       0           3           Bombing/Explosion
## 181689        0       1       0           7 Facility/Infrastructure Attack
## 181690        0       0       0           3           Bombing/Explosion
## 181691        0       0       0           3           Bombing/Explosion
##        attacktype2 attacktype2_txt attacktype3 attacktype3_txt targtype1
## 181686          NA                          NA                         1
## 181687          NA                          NA                         4
## 181688          NA                          NA                         4
## 181689          NA                          NA                        14
## 181690          NA                          NA                         2
## 181691          NA                          NA                        20
##                  targtype1_txt targsubtype1
## 181686                Business            7
## 181687                Military           36
## 181688                Military           27
## 181689 Private Citizens & Property         76
## 181690      Government (General)           21
## 181691                 Unknown           NA
##                                    targsubtype1_txt                    corp1
## 181686                       Retail/Grocery/Bakery                  Unknown
## 181687                          Military Checkpoint Somali National Army (SNA)
## 181688 Military Barracks/Base/Headquarters/Checkpost      Russian Air Force
## 181689                  House/Apartment/Residence          Not Applicable
## 181690          Government Building/Facility/Office  Forest Department Manipur
## 181691                                                              Unknown
##        target1 natlty1 natlty1_txt targtype2 targtype2_txt
## 181686     Jewelry Shop       4 Afghanistan        NA
## 181687       Checkpoint     182     Somalia        NA
## 181688 Hmeymim Air Base     167      Russia        NA
## 181689           Houses     160 Philippines        NA
## 181690           Office      92       India        NA
## 181691          Unknown     160 Philippines        NA
##        targsubtype2 targsubtype2_txt corp2 target2 natlty2 natlty2_txt
## 181686           NA                                      NA
## 181687           NA                                      NA
## 181688           NA                                      NA
## 181689           NA                                      NA
## 181690           NA                                      NA
## 181691           NA                                      NA
##        targtype3 targtype3_txt targsubtype3 targsubtype3_txt corp3 target3
## 181686        NA                         NA
## 181687        NA                         NA
## 181688        NA                         NA
```

6

```
## 181689            NA                     NA
## 181690            NA                     NA
## 181691            NA                     NA
##        natlty3 natlty3_txt                                   gname gsubname
## 181686      NA                                             Unknown
## 181687      NA                                          Al-Shabaab
## 181688      NA                                    Muslim extremists
## 181689      NA             Bangsamoro Islamic Freedom Movement (BIFM)
## 181690      NA                                             Unknown
## 181691      NA                                             Unknown
##        gname2 gsubname2 gname3 gsubname3 motive guncertain1 guncertain2
## 181686                                                    0          NA
## 181687                                                    0          NA
## 181688                                                    0          NA
## 181689                                                    0          NA
## 181690                                                    0          NA
## 181691                                                    0          NA
##        guncertain3 individual nperps nperpcap claimed claimmode claimmode_txt
## 181686          NA          0    -99        0       0        NA
## 181687          NA          0    -99        0       1        10       Unknown
## 181688          NA          0    -99        0       0        NA
## 181689          NA          0    -99        0       0        NA
## 181690          NA          0    -99        0       0        NA
## 181691          NA          0    -99        0       0        NA
##        claim2 claimmode2 claimmode2_txt claim3 claimmode3 claimmode3_txt
## 181686     NA         NA                    NA         NA
## 181687     NA         NA                    NA         NA
## 181688     NA         NA                    NA         NA
## 181689     NA         NA                    NA         NA
## 181690     NA         NA                    NA         NA
## 181691     NA         NA                    NA         NA
##        compclaim weaptype1 weaptype1_txt weapsubtype1
## 181686        NA         6     Explosives           16
## 181687        NA         5       Firearms            5
## 181688        NA         6     Explosives           11
## 181689        NA         8     Incendiary           18
## 181690        NA         6     Explosives            7
## 181691        NA         6     Explosives           16
##                               weapsubtype1_txt weaptype2 weaptype2_txt
## 181686                  Unknown Explosive Type        NA
## 181687                        Unknown Gun Type        NA
## 181688 Projectile (rockets, mortars, RPGs, etc.)        NA
## 181689                              Arson/Fire        NA
## 181690                                 Grenade        NA
## 181691                  Unknown Explosive Type        NA
##        weapsubtype2 weapsubtype2_txt weaptype3 weaptype3_txt weapsubtype3
## 181686           NA                         NA                         NA
## 181687           NA                         NA                         NA
## 181688           NA                         NA                         NA
## 181689           NA                         NA                         NA
## 181690           NA                         NA                         NA
## 181691           NA                         NA                         NA
##        weapsubtype3_txt weaptype4 weaptype4_txt weapsubtype4 weapsubtype4_txt
## 181686                         NA                         NA
```

```
## 181687                         NA                              NA
## 181688                         NA                              NA
## 181689                         NA                              NA
## 181690                         NA                              NA
## 181691                         NA                              NA
##                                                                                      
## 181686                                                                               
## 181687                                                                               
## 181688                                                              Mortars were used in t
## 181689                                                                               
## 181690                                                       A thrown grenade was used in t
## 181691 An explosive device containing a detonating cord, a battery, and a blasting cap was used in t
##        nkill nkillus nkillter nwound nwoundus nwoundte property propextent
## 181686     0       0        0      4        0        0        1         3
## 181687     1       0        0      2        0        0       -9        NA
## 181688     2       0        0      7        0        0        1         4
## 181689     0       0        0      0        0        0        1         4
## 181690     0       0        0      0        0        0       -9        NA
## 181691     0       0        0      0        0        0        0        NA
##                  propextent_txt propvalue
## 181686 Minor (likely < $1 million)      -99
## 181687                              NA
## 181688               Unknown       -99
## 181689               Unknown       -99
## 181690                              NA
## 181691                              NA
##                                        propcomment ishostkid nhostkid
## 181686          A shop was damaged in this attack.         0       NA
## 181687                                                     0       NA
## 181688 Seven military planes were damaged in this attack.  0       NA
## 181689            Houses were damaged in this attack.      0       NA
## 181690                                                     0       NA
## 181691                                                     0       NA
##        nhostkidus nhours ndays divert kidhijcountry ransom ransomamt
## 181686         NA     NA    NA                          NA        NA
## 181687         NA     NA    NA                          NA        NA
## 181688         NA     NA    NA                          NA        NA
## 181689         NA     NA    NA                          NA        NA
## 181690         NA     NA    NA                          NA        NA
## 181691         NA     NA    NA                          NA        NA
##        ransomamtus ransompaid ransompaidus ransomnote hostkidoutcome
## 181686          NA         NA           NA                        NA
## 181687          NA         NA           NA                        NA
## 181688          NA         NA           NA                        NA
## 181689          NA         NA           NA                        NA
## 181690          NA         NA           NA                        NA
## 181691          NA         NA           NA                        NA
##        hostkidoutcome_txt nreleased addnotes
## 181686                           NA
## 181687                           NA
## 181688                           NA
## 181689                           NA
## 181690                           NA
## 181691                           NA
```

```
## 
## 181686                                                            "4 people injured in Farayb
## 181687                            "Somalia: Al-Shabaab Militants Attack Army Checkpoint in Middle
## 181688 "Putin's 'victory' in Syria has turned into a farce - Turchynov," MENA English (Middle East an
## 181689                                                     "Maguindanao clashes trap tribe men
## 181690                                                       "Trader escapes grenade attack in
## 181691                                                        "Security tightened in Cotaba
##                                                                                         scite2
## 181686                                                                                       
## 181687 "Highlights: Somalia Daily Media Highlights 2 January 2018," Summary, January 3, 2018.
## 181688      "Two Russian soldiers killed at Hmeymim base in Syria," Ansamed, January 4, 2018.
## 181689                                                                                       
## 181690                                                                                       
## 181691            "Security tightened in Cotabato City," Manila Bulletin, January 3, 2018.
##                                                                                         scite3
## 181686                                                                                       
## 181687  "Highlights: Somalia Daily Media Highlights 1 January 2018," Summary, January 2, 2018.
## 181688 "Two Russian servicemen killed in Syria mortar attack," Turkish Daily, January 4, 2018.
## 181689                                                                                       
## 181690                                                                                       
## 181691                                                                                       
##                         dbsource INT_LOG INT_IDEO INT_MISC INT_ANY related
## 181686 START Primary Collection     -9       -9        0      -9
## 181687 START Primary Collection      0        0        0       0
## 181688 START Primary Collection     -9       -9        1       1
## 181689 START Primary Collection      0        0        0       0
## 181690 START Primary Collection     -9       -9        0      -9
## 181691 START Primary Collection     -9       -9        0      -9
```

```r
View(my_data) # Open a data frame in a spreadsheet-like window
str(my_data) # Display the structure of the data frame
```

```
## 'data.frame':    181691 obs. of  135 variables:
##  $ eventid           : num  1.97e+11 1.97e+11 1.97e+11 1.97e+11 1.97e+11 ...
##  $ iyear             : int  1970 1970 1970 1970 1970 1970 1970 1970 1970 1970 ...
##  $ imonth            : int  7 0 1 1 1 1 1 1 1 1 ...
##  $ iday              : int  2 0 0 0 0 1 2 2 2 3 ...
##  $ approxdate        : chr  "" "" "" "" ...
##  $ extended          : int  0 0 0 0 0 0 0 0 0 0 ...
##  $ resolution        : chr  "" "" "" "" ...
##  $ country           : int  58 130 160 78 101 217 218 217 217 217 ...
##  $ country_txt       : chr  "Dominican Republic" "Mexico" "Philippines" "Greece" ...
##  $ region            : int  2 1 5 8 4 1 3 1 1 1 ...
##  $ region_txt        : chr  "Central America & Caribbean" "North America" "Southeast Asia" "Western 
##  $ provstate         : chr  "" "Federal" "Tarlac" "Attica" ...
##  $ city              : chr  "Santo Domingo" "Mexico city" "Unknown" "Athens" ...
##  $ latitude          : num  18.5 19.4 15.5 38 33.6 ...
##  $ longitude         : num  -70 -99.1 120.6 23.8 130.4 ...
##  $ specificity       : int  1 1 4 1 1 1 1 1 1 1 ...
##  $ vicinity          : int  0 0 0 0 0 0 0 0 0 0 ...
##  $ location          : chr  "" "" "" "" ...
##  $ summary           : chr  "" "" "" "" ...
##  $ crit1             : int  1 1 1 1 1 1 1 1 1 1 ...
##  $ crit2             : int  1 1 1 1 1 1 1 1 1 1 ...
```

```
##  $ crit3             : int  1 1 1 1 1 1 1 1 1 1 ...
##  $ doubtterr         : int  0 0 0 0 -9 0 0 1 0 0 ...
##  $ alternative       : int  NA NA NA NA NA NA NA 2 NA NA ...
##  $ alternative_txt   : chr  "" "" "" "" ...
##  $ multiple          : int  0 0 0 0 0 0 0 0 0 0 ...
##  $ success           : int  1 1 1 1 1 1 0 1 1 1 ...
##  $ suicide           : int  0 0 0 0 0 0 0 0 0 0 ...
##  $ attacktype1       : int  1 6 1 3 7 2 1 3 7 7 ...
##  $ attacktype1_txt   : chr  "Assassination" "Hostage Taking (Kidnapping)" "Assassination" "Bombing/Ex
##  $ attacktype2       : int  NA NA NA NA NA NA NA NA NA NA ...
##  $ attacktype2_txt   : chr  "" "" "" "" ...
##  $ attacktype3       : int  NA NA NA NA NA NA NA NA NA NA ...
##  $ attacktype3_txt   : chr  "" "" "" "" ...
##  $ targtype1         : int  14 7 10 7 7 3 3 21 4 2 ...
##  $ targtype1_txt     : chr  "Private Citizens & Property" "Government (Diplomatic)" "Journalists & Me
##  $ targsubtype1      : int  68 45 54 46 46 22 25 107 28 21 ...
##  $ targsubtype1_txt  : chr  "Named Civilian" "Diplomatic Personnel (outside of embassy, consulate)" "
##  $ corp1             : chr  "" "Belgian Ambassador Daughter" "Voice of America" "" ...
##  $ target1           : chr  "Julio Guzman" "Nadine Chaval, daughter" "Employee" "U.S. Embassy" ...
##  $ natlty1           : int  58 21 217 217 217 217 218 217 217 217 ...
##  $ natlty1_txt       : chr  "Dominican Republic" "Belgium" "United States" "United States" ...
##  $ targtype2         : int  NA NA NA NA NA NA NA NA NA NA ...
##  $ targtype2_txt     : chr  "" "" "" "" ...
##  $ targsubtype2      : int  NA NA NA NA NA NA NA NA NA NA ...
##  $ targsubtype2_txt  : chr  "" "" "" "" ...
##  $ corp2             : chr  "" "" "" "" ...
##  $ target2           : chr  "" "" "" "" ...
##  $ natlty2           : int  NA NA NA NA NA NA NA NA NA NA ...
##  $ natlty2_txt       : chr  "" "" "" "" ...
##  $ targtype3         : int  NA NA NA NA NA NA NA NA NA NA ...
##  $ targtype3_txt     : chr  "" "" "" "" ...
##  $ targsubtype3      : int  NA NA NA NA NA NA NA NA NA NA ...
##  $ targsubtype3_txt  : chr  "" "" "" "" ...
##  $ corp3             : chr  "" "" "" "" ...
##  $ target3           : chr  "" "" "" "" ...
##  $ natlty3           : int  NA NA NA NA NA NA NA NA NA NA ...
##  $ natlty3_txt       : chr  "" "" "" "" ...
##  $ gname             : chr  "MANO-D" "23rd of September Communist League" "Unknown" "Unknown" ...
##  $ gsubname          : chr  "" "" "" "" ...
##  $ gname2            : chr  "" "" "" "" ...
##  $ gsubname2         : chr  "" "" "" "" ...
##  $ gname3            : chr  "" "" "" "" ...
##  $ gsubname3         : chr  "" "" "" "" ...
##  $ motive            : chr  "" "" "" "" ...
##  $ guncertain1       : int  0 0 0 0 0 0 0 0 0 0 ...
##  $ guncertain2       : int  NA NA NA NA NA NA NA NA NA NA ...
##  $ guncertain3       : int  NA NA NA NA NA NA NA NA NA NA ...
##  $ individual        : int  0 0 0 0 0 0 0 0 0 0 ...
##  $ nperps            : int  NA 7 NA NA NA -99 3 -99 1 1 ...
##  $ nperpcap          : num  NA NA NA NA NA -99 NA -99 1 1 ...
##  $ claimed           : int  NA NA NA NA NA 0 NA 0 1 0 ...
##  $ claimmode         : int  NA NA NA NA NA NA NA NA 1 NA ...
##  $ claimmode_txt     : chr  "" "" "" "" ...
##  $ claim2            : int  NA NA NA NA NA NA NA NA NA NA ...
```

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```
## $ claimmode2        : int  NA NA NA NA NA NA NA NA NA NA ...
## $ claimmode2_txt    : chr  "" "" "" "" ...
## $ claim3            : int  NA NA NA NA NA NA NA NA NA NA ...
## $ claimmode3        : int  NA NA NA NA NA NA NA NA NA NA ...
## $ claimmode3_txt    : chr  "" "" "" "" ...
## $ compclaim         : int  NA NA NA NA NA NA NA NA NA NA ...
## $ weaptype1         : int  13 13 13 6 8 5 5 6 8 8 ...
## $ weaptype1_txt     : chr  "Unknown" "Unknown" "Unknown" "Explosives" ...
## $ weapsubtype1      : int  NA NA NA 16 NA 5 2 16 19 20 ...
## $ weapsubtype1_txt  : chr  "" "" "" "Unknown Explosive Type" ...
## $ weaptype2         : int  NA NA NA NA NA NA NA NA NA NA ...
## $ weaptype2_txt     : chr  "" "" "" "" ...
## $ weapsubtype2      : int  NA NA NA NA NA NA NA NA NA NA ...
## $ weapsubtype2_txt  : chr  "" "" "" "" ...
## $ weaptype3         : int  NA NA NA NA NA NA NA NA NA NA ...
## $ weaptype3_txt     : chr  "" "" "" "" ...
## $ weapsubtype3      : int  NA NA NA NA NA NA NA NA NA NA ...
## $ weapsubtype3_txt  : chr  "" "" "" "" ...
## $ weaptype4         : int  NA NA NA NA NA NA NA NA NA NA ...
## $ weaptype4_txt     : chr  "" "" "" "" ...
## $ weapsubtype4      : int  NA NA NA NA NA NA NA NA NA NA ...
## $ weapsubtype4_txt  : chr  "" "" "" "" ...
## $ weapdetail        : chr  "" "" "" "Explosive" ...
## $ nkill             : int  1 0 1 NA NA 0 0 0 0 0 ...
##  [list output truncated]
```

```r
summary(my_data) # Provide a summary of the data frame
```

```
##     eventid             iyear          imonth            iday
## Min.   :1.970e+11   Min.   :1970   Min.   : 0.000   Min.   : 0.00
## 1st Qu.:1.991e+11   1st Qu.:1991   1st Qu.: 4.000   1st Qu.: 8.00
## Median :2.009e+11   Median :2009   Median : 6.000   Median :15.00
## Mean   :2.003e+11   Mean   :2003   Mean   : 6.467   Mean   :15.51
## 3rd Qu.:2.014e+11   3rd Qu.:2014   3rd Qu.: 9.000   3rd Qu.:23.00
## Max.   :2.017e+11   Max.   :2017   Max.   :12.000   Max.   :31.00
##
##   approxdate          extended        resolution           country
## Length:181691      Min.   :0.00000   Length:181691      Min.   :   4
## Class :character   1st Qu.:0.00000   Class :character   1st Qu.:  78
## Mode  :character   Median :0.00000   Mode  :character   Median :  98
##                    Mean   :0.04535                      Mean   : 132
##                    3rd Qu.:0.00000                      3rd Qu.: 160
##                    Max.   :1.00000                      Max.   :1004
##
##  country_txt           region        region_txt          provstate
## Length:181691      Min.   : 1.000   Length:181691      Length:181691
## Class :character   1st Qu.: 5.000   Class :character   Class :character
## Mode  :character   Median : 6.000   Mode  :character   Mode  :character
##                    Mean   : 7.161
##                    3rd Qu.:10.000
##                    Max.   :12.000
##
##      city             latitude          longitude         specificity
## Length:181691      Min.   :-53.16   Min.   :-86185896   Min.   :1.000
```

```
## Class :character   1st Qu.: 11.51   1st Qu.:       5   1st Qu.:1.000
## Mode  :character   Median : 31.47   Median :      43   Median :1.000
##                    Mean   : 23.50   Mean   :    -459   Mean   :1.451
##                    3rd Qu.: 34.69   3rd Qu.:      69   3rd Qu.:1.000
##                    Max.   : 74.63   Max.   :     179   Max.   :5.000
##                    NA's   :4556     NA's   :4557       NA's   :6
##     vicinity           location           summary              crit1
## Min.   :-9.0000   Length:181691     Length:181691     Min.   :0.0000
## 1st Qu.: 0.0000   Class :character  Class :character  1st Qu.:1.0000
## Median : 0.0000   Mode  :character  Mode  :character  Median :1.0000
## Mean   : 0.0683                                       Mean   :0.9885
## 3rd Qu.: 0.0000                                       3rd Qu.:1.0000
## Max.   : 1.0000                                       Max.   :1.0000
##
##      crit2             crit3            doubtterr          alternative
## Min.   :0.0000   Min.   :0.0000   Min.   :-9.0000   Min.   :1.00
## 1st Qu.:1.0000   1st Qu.:1.0000   1st Qu.: 0.0000   1st Qu.:1.00
## Median :1.0000   Median :1.0000   Median : 0.0000   Median :1.00
## Mean   :0.9931   Mean   :0.8757   Mean   :-0.5232   Mean   :1.29
## 3rd Qu.:1.0000   3rd Qu.:1.0000   3rd Qu.: 0.0000   3rd Qu.:1.00
## Max.   :1.0000   Max.   :1.0000   Max.   : 1.0000   Max.   :5.00
##                                   NA's   :1         NA's   :152680
## alternative_txt      multiple          success            suicide
## Length:181691     Min.   :0.0000   Min.   :0.0000   Min.   :0.00000
## Class :character  1st Qu.:0.0000   1st Qu.:1.0000   1st Qu.:0.00000
## Mode  :character  Median :0.0000   Median :1.0000   Median :0.00000
##                   Mean   :0.1378   Mean   :0.8896   Mean   :0.03651
##                   3rd Qu.:0.0000   3rd Qu.:1.0000   3rd Qu.:0.00000
##                   Max.   :1.0000   Max.   :1.0000   Max.   :1.00000
##                   NA's   :1
##   attacktype1    attacktype1_txt     attacktype2     attacktype2_txt
## Min.   :1.000   Length:181691     Min.   :1.00    Length:181691
## 1st Qu.:2.000   Class :character  1st Qu.:2.00    Class :character
## Median :3.000   Mode  :character  Median :2.00    Mode  :character
## Mean   :3.248                     Mean   :3.72
## 3rd Qu.:3.000                     3rd Qu.:7.00
## Max.   :9.000                     Max.   :9.00
##                                   NA's   :175377
##   attacktype3    attacktype3_txt     targtype1      targtype1_txt
## Min.   :1.00    Length:181691     Min.   : 1.00   Length:181691
## 1st Qu.:2.00    Class :character  1st Qu.: 3.00   Class :character
## Median :7.00    Mode  :character  Median : 4.00   Mode  :character
## Mean   :5.25                      Mean   : 8.44
## 3rd Qu.:7.00                      3rd Qu.:14.00
## Max.   :8.00                      Max.   :22.00
## NA's   :181263
##   targsubtype1    targsubtype1_txt     corp1              target1
## Min.   :  1.00   Length:181691     Length:181691     Length:181691
## 1st Qu.: 22.00   Class :character  Class :character  Class :character
## Median : 35.00   Mode  :character  Mode  :character  Mode  :character
## Mean   : 46.97
## 3rd Qu.: 74.00
## Max.   :113.00
## NA's   :10373
```

```
##     natlty1         natlty1_txt         targtype2       targtype2_txt
## Min.   :   4.0   Length:181691     Min.   : 1.00    Length:181691
## 1st Qu.:  83.0   Class :character  1st Qu.: 4.00    Class :character
## Median : 101.0   Mode  :character  Median :14.00    Mode  :character
## Mean   : 127.7                     Mean   :10.25
## 3rd Qu.: 173.0                     3rd Qu.:14.00
## Max.   :1004.0                     Max.   :22.00
## NA's   :1559                       NA's   :170547
##  targsubtype2    targsubtype2_txt      corp2              target2
## Min.   :  1.00   Length:181691     Length:181691     Length:181691
## 1st Qu.: 34.00   Class :character  Class :character  Class :character
## Median : 67.00   Mode  :character  Mode  :character  Mode  :character
## Mean   : 55.31
## 3rd Qu.: 69.00
## Max.   :113.00
## NA's   :171006
##     natlty2         natlty2_txt         targtype3       targtype3_txt
## Min.   :   4.0   Length:181691     Min.   : 1.00    Length:181691
## 1st Qu.:  92.0   Class :character  1st Qu.: 3.00    Class :character
## Median :  98.0   Mode  :character  Median :14.00    Mode  :character
## Mean   : 131.2                     Mean   :10.02
## 3rd Qu.: 182.0                     3rd Qu.:14.00
## Max.   :1004.0                     Max.   :22.00
## NA's   :170863                     NA's   :180515
##  targsubtype3    targsubtype3_txt      corp3              target3
## Min.   :  1.00   Length:181691     Length:181691     Length:181691
## 1st Qu.: 33.00   Class :character  Class :character  Class :character
## Median : 67.00   Mode  :character  Mode  :character  Mode  :character
## Mean   : 55.55
## 3rd Qu.: 73.00
## Max.   :113.00
## NA's   :180594
##     natlty3         natlty3_txt          gname             gsubname
## Min.   :   4.0   Length:181691     Length:181691     Length:181691
## 1st Qu.:  75.0   Class :character  Class :character  Class :character
## Median : 110.0   Mode  :character  Mode  :character  Mode  :character
## Mean   : 144.6
## 3rd Qu.: 182.0
## Max.   :1004.0
## NA's   :180544
##     gname2           gsubname2          gname3            gsubname3
## Length:181691     Length:181691     Length:181691     Length:181691
## Class :character  Class :character  Class :character  Class :character
## Mode  :character  Mode  :character  Mode  :character  Mode  :character
##
##
##
##
##     motive          guncertain1       guncertain2       guncertain3
## Length:181691     Min.   :0.0000   Min.   :0.00     Min.   :0.00
## Class :character  1st Qu.:0.0000   1st Qu.:0.00     1st Qu.:0.00
## Mode  :character  Median :0.0000   Median :0.00     Median :0.00
##                   Mean   :0.0814   Mean   :0.27     Mean   :0.19
##                   3rd Qu.:0.0000   3rd Qu.:1.00     3rd Qu.:0.00
```

```
##                         Max.   :1.0000   Max.   :1.00    Max.   :1.00
##                         NA's   :380      NA's   :179736  NA's   :181371
##    individual          nperps          nperpcap         claimed
##  Min.   :0.00000   Min.   : -99.00   Min.   :-99.00   Min.   :-9.00
##  1st Qu.:0.00000   1st Qu.: -99.00   1st Qu.: 0.00    1st Qu.: 0.00
##  Median :0.00000   Median : -99.00   Median : 0.00    Median : 0.00
##  Mean   :0.00295   Mean   : -65.36   Mean   : -1.52   Mean   : 0.05
##  3rd Qu.:0.00000   3rd Qu.:    1.00  3rd Qu.: 0.00    3rd Qu.: 0.00
##  Max.   :1.00000   Max.   :25000.00  Max.   :406.00   Max.   : 1.00
##                    NA's   :71115     NA's   :69489    NA's   :66120
##    claimmode      claimmode_txt        claim2          claimmode2
##  Min.   : 1.00    Length:181691    Min.   :-9.00    Min.   : 1.00
##  1st Qu.: 6.00    Class :character  1st Qu.: 0.00   1st Qu.: 6.00
##  Median : 8.00    Mode  :character  Median : 0.00   Median : 7.00
##  Mean   : 7.02                      Mean   : 0.25   Mean   : 7.18
##  3rd Qu.: 8.00                      3rd Qu.: 1.00   3rd Qu.:10.00
##  Max.   :10.00                      Max.   : 1.00   Max.   :10.00
##  NA's   :162608                     NA's   :179801  NA's   :181075
##  claimmode2_txt       claim3          claimmode3      claimmode3_txt
##  Length:181691    Min.   :0.00     Min.   : 1.00    Length:181691
##  Class :character 1st Qu.:0.00     1st Qu.: 4.00    Class :character
##  Mode  :character Median :0.00     Median : 7.00    Mode  :character
##                   Mean   :0.41     Mean   : 6.73
##                   3rd Qu.:1.00     3rd Qu.: 9.00
##                   Max.   :1.00     Max.   :10.00
##                   NA's   :181373   NA's   :181558
##    compclaim        weaptype1       weaptype1_txt      weapsubtype1
##  Min.   :-9.0     Min.   : 1.000   Length:181691    Min.   : 1.00
##  1st Qu.:-9.0     1st Qu.: 5.000   Class :character 1st Qu.: 5.00
##  Median :-9.0     Median : 6.000   Mode  :character Median :12.00
##  Mean   :-6.3     Mean   : 6.447                    Mean   :11.12
##  3rd Qu.: 0.0     3rd Qu.: 6.000                    3rd Qu.:16.00
##  Max.   : 1.0     Max.   :13.000                    Max.   :31.00
##  NA's   :176852                                     NA's   :20768
##  weapsubtype1_txt     weaptype2       weaptype2_txt      weapsubtype2
##  Length:181691    Min.   : 1.00    Length:181691    Min.   : 1.00
##  Class :character 1st Qu.: 5.00    Class :character 1st Qu.: 5.00
##  Mode  :character Median : 6.00    Mode  :character Median : 7.00
##                   Mean   : 6.81                     Mean   :10.75
##                   3rd Qu.: 8.00                     3rd Qu.:18.00
##                   Max.   :13.00                     Max.   :31.00
##                   NA's   :168564                    NA's   :170149
##  weapsubtype2_txt     weaptype3       weaptype3_txt      weapsubtype3
##  Length:181691    Min.   : 2.00    Length:181691    Min.   : 1.00
##  Class :character 1st Qu.: 5.00    Class :character 1st Qu.: 4.00
##  Mode  :character Median : 6.00    Mode  :character Median : 7.00
##                   Mean   : 6.91                     Mean   :11.64
##                   3rd Qu.: 9.00                     3rd Qu.:20.00
##                   Max.   :13.00                     Max.   :28.00
##                   NA's   :179828                    NA's   :179998
##  weapsubtype3_txt     weaptype4       weaptype4_txt      weapsubtype4
##  Length:181691    Min.   : 5.00    Length:181691    Min.   : 2.00
##  Class :character 1st Qu.: 5.00    Class :character 1st Qu.: 3.00
##  Mode  :character Median : 6.00    Mode  :character Median : 9.50
```

```
##                          Mean   : 6.25                Mean   :10.84
##                          3rd Qu.: 6.00                3rd Qu.:16.00
##                          Max.   :12.00                Max.   :28.00
##                          NA's   :181618               NA's   :181621
##  weapsubtype4_txt    weapdetail           nkill             nkillus
##  Length:181691     Length:181691     Min.   :   0.000   Min.   :   0.00
##  Class :character  Class :character  1st Qu.:   0.000   1st Qu.:   0.00
##  Mode  :character  Mode  :character  Median :   0.000   Median :   0.00
##                                      Mean   :   2.403   Mean   :   0.05
##                                      3rd Qu.:   2.000   3rd Qu.:   0.00
##                                      Max.   :1570.000   Max.   :1360.00
##                                      NA's   :10313      NA's   :64446
##     nkillter          nwound            nwoundus          nwoundte
##  Min.   :  0.00   Min.   :   0.000   Min.   :  0.00   Min.   :  0.00
##  1st Qu.:  0.00   1st Qu.:   0.000   1st Qu.:  0.00   1st Qu.:  0.00
##  Median :  0.00   Median :   0.000   Median :  0.00   Median :  0.00
##  Mean   :  0.51   Mean   :   3.168   Mean   :  0.04   Mean   :  0.11
##  3rd Qu.:  0.00   3rd Qu.:   2.000   3rd Qu.:  0.00   3rd Qu.:  0.00
##  Max.   :500.00   Max.   :8191.000   Max.   :751.00   Max.   :200.00
##  NA's   :66958    NA's   :16311      NA's   :64702    NA's   :69143
##     property         propextent     propextent_txt       propvalue
##  Min.   :-9.0000   Min.   :1.0     Length:181691     Min.   :        -99
##  1st Qu.: 0.0000   1st Qu.:3.0     Class :character  1st Qu.:        -99
##  Median : 1.0000   Median :3.0     Mode  :character  Median :        -99
##  Mean   :-0.5446   Mean   :3.3                       Mean   :     208812
##  3rd Qu.: 1.0000   3rd Qu.:4.0                       3rd Qu.:       1000
##  Max.   : 1.0000   Max.   :4.0                       Max.   :2700000000
##                    NA's   :117626                    NA's   :142702
##  propcomment           ishostkid          nhostkid          nhostkidus
##  Length:181691     Min.   :-9.00000   Min.   :  -99.00   Min.   :-99.00
##  Class :character  1st Qu.: 0.00000   1st Qu.:    1.00   1st Qu.:  0.00
##  Mode  :character  Median : 0.00000   Median :    2.00   Median :  0.00
##                    Mean   : 0.05905   Mean   :    4.53   Mean   : -0.35
##                    3rd Qu.: 0.00000   3rd Qu.:    4.00   3rd Qu.:  0.00
##                    Max.   : 1.00000   Max.   :17000.00   Max.   : 86.00
##                    NA's   :178        NA's   :168119     NA's   :168174
##     nhours            ndays            divert           kidhijcountry
##  Min.   :-99.00   Min.   : -99.00   Length:181691     Length:181691
##  1st Qu.:-99.00   1st Qu.: -99.00   Class :character  Class :character
##  Median :-99.00   Median : -99.00   Mode  :character  Mode  :character
##  Mean   :-46.79   Mean   : -32.52
##  3rd Qu.:  0.00   3rd Qu.:   4.00
##  Max.   :999.00   Max.   :2454.00
##  NA's   :177628   NA's   :173567
##     ransom          ransomamt          ransomamtus        ransompaid
##  Min.   :-9.00   Min.   :       -99   Min.   :      -99   Min.   :       -99
##  1st Qu.: 0.00   1st Qu.:         0   1st Qu.:        0   1st Qu.:       -99
##  Median : 0.00   Median :     15000   Median :        0   Median :         0
##  Mean   :-0.15   Mean   :   3172530   Mean   :   578487   Mean   :    717944
##  3rd Qu.: 0.00   3rd Qu.:    400000   3rd Qu.:        0   3rd Qu.:      1273
##  Max.   : 1.00   Max.   :1000000000   Max.   :132000000   Max.   :275000000
##  NA's   :104310  NA's   :180341      NA's   :181128      NA's   :180917
##   ransompaidus       ransomnote        hostkidoutcome    hostkidoutcome_txt
##  Min.   :  -99.0   Length:181691     Min.   :1.00      Length:181691
```

```
##   1st Qu.:    0.0   Class :character   1st Qu.:2.00     Class :character
##   Median :    0.0   Mode  :character   Median :4.00     Mode  :character
##   Mean   :  240.4                      Mean   :4.63
##   3rd Qu.:    0.0                       3rd Qu.:7.00
##   Max.   :48000.0                       Max.   :7.00
##   NA's   :181139                        NA's   :170700
##    nreleased          addnotes             scite1             scite2
##   Min.   : -99.00   Length:181691      Length:181691      Length:181691
##   1st Qu.: -99.00   Class :character   Class :character   Class :character
##   Median :   0.00   Mode  :character   Mode  :character   Mode  :character
##   Mean   : -29.02
##   3rd Qu.:   1.00
##   Max.   :2769.00
##   NA's   :171291
##     scite3            dbsource           INT_LOG            INT_IDEO
##   Length:181691    Length:181691      Min.   :-9.000     Min.   :-9.000
##   Class :character Class :character   1st Qu.:-9.000     1st Qu.:-9.000
##   Mode  :character Mode  :character   Median :-9.000     Median :-9.000
##                                       Mean   :-4.544     Mean   :-4.464
##                                       3rd Qu.: 0.000     3rd Qu.: 0.000
##                                       Max.   : 1.000     Max.   : 1.000
##
##     INT_MISC           INT_ANY            related
##   Min.   :-9.00000   Min.   :-9.000     Length:181691
##   1st Qu.: 0.00000   1st Qu.:-9.000     Class :character
##   Median : 0.00000   Median : 0.000     Mode  :character
##   Mean   : 0.09001   Mean   :-3.946
##   3rd Qu.: 0.00000   3rd Qu.: 0.000
##   Max.   : 1.00000   Max.   : 1.000
##
```

```r
dim(my_data) # Return the dimensions of the data frame
```

```
## [1] 181691    135
```

```r
nrow(my_data) # Get the number of rows
```

```
## [1] 181691
```

```r
ncol(my_data) # Get the number of columns
```

```
## [1] 135
```

```r
names(my_data) # Get the column names
```

```
##   [1] "eventid"        "iyear"          "imonth"
##   [4] "iday"           "approxdate"     "extended"
##   [7] "resolution"     "country"        "country_txt"
##  [10] "region"         "region_txt"     "provstate"
##  [13] "city"           "latitude"       "longitude"
##  [16] "specificity"    "vicinity"       "location"
```

```
## [19] "summary"             "crit1"               "crit2"
## [22] "crit3"               "doubtterr"           "alternative"
## [25] "alternative_txt"     "multiple"            "success"
## [28] "suicide"             "attacktype1"         "attacktype1_txt"
## [31] "attacktype2"         "attacktype2_txt"     "attacktype3"
## [34] "attacktype3_txt"     "targtype1"           "targtype1_txt"
## [37] "targsubtype1"        "targsubtype1_txt"    "corp1"
## [40] "target1"             "natlty1"             "natlty1_txt"
## [43] "targtype2"           "targtype2_txt"       "targsubtype2"
## [46] "targsubtype2_txt"    "corp2"               "target2"
## [49] "natlty2"             "natlty2_txt"         "targtype3"
## [52] "targtype3_txt"       "targsubtype3"        "targsubtype3_txt"
## [55] "corp3"               "target3"             "natlty3"
## [58] "natlty3_txt"         "gname"               "gsubname"
## [61] "gname2"              "gsubname2"            "gname3"
## [64] "gsubname3"           "motive"              "guncertain1"
## [67] "guncertain2"         "guncertain3"         "individual"
## [70] "nperps"              "nperpcap"            "claimed"
## [73] "claimmode"           "claimmode_txt"       "claim2"
## [76] "claimmode2"          "claimmode2_txt"      "claim3"
## [79] "claimmode3"          "claimmode3_txt"      "compclaim"
## [82] "weaptype1"           "weaptype1_txt"       "weapsubtype1"
## [85] "weapsubtype1_txt"    "weaptype2"           "weaptype2_txt"
## [88] "weapsubtype2"        "weapsubtype2_txt"    "weaptype3"
## [91] "weaptype3_txt"       "weapsubtype3"        "weapsubtype3_txt"
## [94] "weaptype4"           "weaptype4_txt"       "weapsubtype4"
## [97] "weapsubtype4_txt"    "weapdetail"          "nkill"
## [100] "nkillus"            "nkillter"            "nwound"
## [103] "nwoundus"           "nwoundte"            "property"
## [106] "propextent"         "propextent_txt"      "propvalue"
## [109] "propcomment"        "ishostkid"           "nhostkid"
## [112] "nhostkidus"         "nhours"              "ndays"
## [115] "divert"             "kidhijcountry"       "ransom"
## [118] "ransomamt"          "ransomamtus"         "ransompaid"
## [121] "ransompaidus"       "ransomnote"          "hostkidoutcome"
## [124] "hostkidoutcome_txt" "nreleased"           "addnotes"
## [127] "scite1"             "scite2"              "scite3"
## [130] "dbsource"           "INT_LOG"             "INT_IDEO"
## [133] "INT_MISC"           "INT_ANY"             "related"
```

```r
colnames(my_data) # Get the column names (synonym to names())
```

```
##   [1] "eventid"      "iyear"        "imonth"
##   [4] "iday"         "approxdate"   "extended"
##   [7] "resolution"   "country"      "country_txt"
##  [10] "region"       "region_txt"   "provstate"
##  [13] "city"         "latitude"     "longitude"
##  [16] "specificity"  "vicinity"     "location"
##  [19] "summary"      "crit1"        "crit2"
##  [22] "crit3"        "doubtterr"    "alternative"
##  [25] "alternative_txt" "multiple"  "success"
##  [28] "suicide"      "attacktype1"  "attacktype1_txt"
##  [31] "attacktype2"  "attacktype2_txt" "attacktype3"
##  [34] "attacktype3_txt" "targtype1"  "targtype1_txt"
```

```
##  [37] "targsubtype1"       "targsubtype1_txt"   "corp1"
##  [40] "target1"            "natlty1"            "natlty1_txt"
##  [43] "targtype2"          "targtype2_txt"      "targsubtype2"
##  [46] "targsubtype2_txt"   "corp2"              "target2"
##  [49] "natlty2"            "natlty2_txt"        "targtype3"
##  [52] "targtype3_txt"      "targsubtype3"       "targsubtype3_txt"
##  [55] "corp3"              "target3"            "natlty3"
##  [58] "natlty3_txt"        "gname"              "gsubname"
##  [61] "gname2"             "gsubname2"          "gname3"
##  [64] "gsubname3"          "motive"             "guncertain1"
##  [67] "guncertain2"        "guncertain3"        "individual"
##  [70] "nperps"             "nperpcap"           "claimed"
##  [73] "claimmode"          "claimmode_txt"      "claim2"
##  [76] "claimmode2"         "claimmode2_txt"     "claim3"
##  [79] "claimmode3"         "claimmode3_txt"     "compclaim"
##  [82] "weaptype1"          "weaptype1_txt"      "weapsubtype1"
##  [85] "weapsubtype1_txt"   "weaptype2"          "weaptype2_txt"
##  [88] "weapsubtype2"       "weapsubtype2_txt"   "weaptype3"
##  [91] "weaptype3_txt"      "weapsubtype3"       "weapsubtype3_txt"
##  [94] "weaptype4"          "weaptype4_txt"      "weapsubtype4"
##  [97] "weapsubtype4_txt"   "weapdetail"         "nkill"
## [100] "nkillus"            "nkillter"           "nwound"
## [103] "nwoundus"           "nwoundte"           "property"
## [106] "propextent"         "propextent_txt"     "propvalue"
## [109] "propcomment"        "ishostkid"          "nhostkid"
## [112] "nhostkidus"         "nhours"             "ndays"
## [115] "divert"             "kidhijcountry"      "ransom"
## [118] "ransomamt"          "ransomamtus"        "ransompaid"
## [121] "ransompaidus"       "ransomnote"         "hostkidoutcome"
## [124] "hostkidoutcome_txt" "nreleased"          "addnotes"
## [127] "scite1"             "scite2"             "scite3"
## [130] "dbsource"           "INT_LOG"            "INT_IDEO"
## [133] "INT_MISC"           "INT_ANY"            "related"
```

```r
rownames(my_data) # Get the row names
```

```
##   [1] "1"    "2"    "3"    "4"    "5"    "6"    "7"    "8"    "9"
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##  [28] "28"   "29"   "30"   "31"   "32"   "33"   "34"   "35"   "36"
##  [37] "37"   "38"   "39"   "40"   "41"   "42"   "43"   "44"   "45"
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##  [64] "64"   "65"   "66"   "67"   "68"   "69"   "70"   "71"   "72"
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##  [ reached getOption("max.print") -- omitted 81692 entries ]
```

```r
class(my_data) # Get the class of the data frame
```

```
## [1] "data.frame"
```

```r
typeof(my_data) # Get the type of the data frame
```

```
## [1] "list"
```

```r
levels(my_data$variable) # Get the levels of a factor variable
```

```
## NULL
```

```r
unique(my_data$variable) # Get unique values of a column
```

```
## NULL
```

```r
# Data Wrangling with dplyr
library(dplyr) # Load the dplyr package for data manipulation
my_data_filtered <- filter(my_data, iyear >= 2000) # Filter rows based on a condition
my_data_selected <- select(my_data, iyear, nkill) # Select specific columns
my_data_mutated <- mutate(my_data, casualties = nkill + nwound) # Create a new column
my_data_summarised <- summarise(my_data, total_kills = sum(nkill, na.rm = TRUE)) # Summarise data
my_data_grouped <- group_by(my_data, iyear) # Group data by year
```
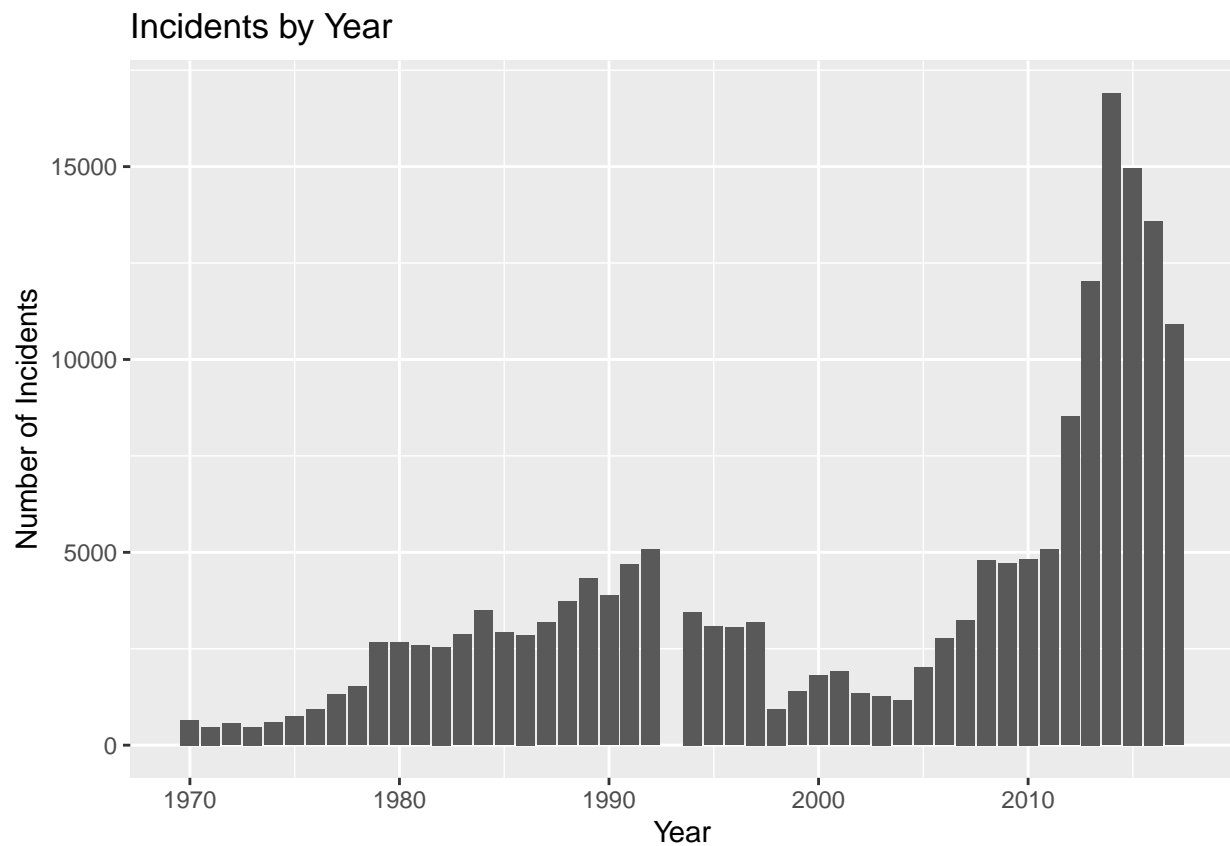
224

```r
# Statistical Analysis


# Plotting incidents by year

# Replace '1year' with the actual year column name
```
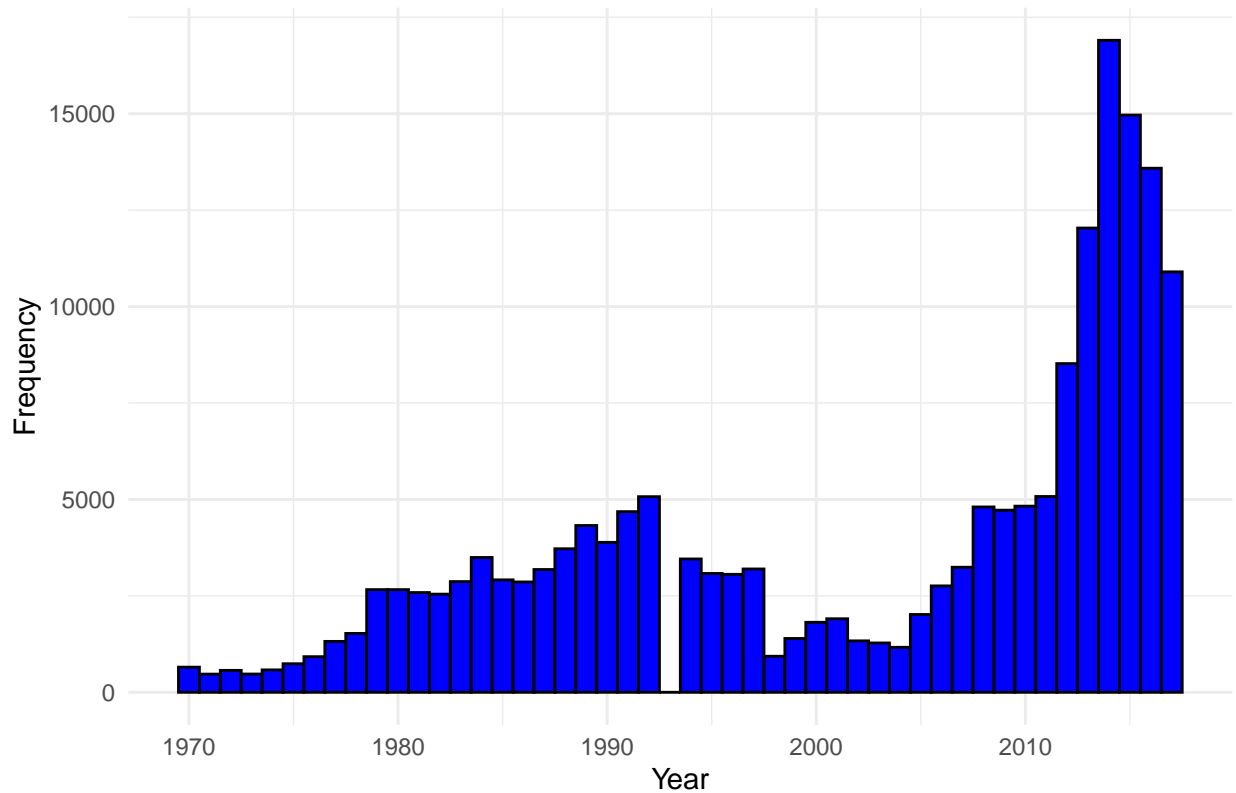
```r
ggplot(my_data, aes(x = iyear)) +
  geom_bar() +
  labs(title = "Incidents by Year", x = "Year", y = "Number of Incidents")
```


Incidents by Year

```r
# Histogram of incidents by year
ggplot(my_data, aes(x = iyear)) +
  geom_histogram(binwidth = 1, fill = "blue", color = "black") +
  labs(title = "Histogram of Incidents by Year",
       x = "Year",
       y = "Frequency") +
  theme_minimal()
```

Histogram of Incidents by Year


```
mean_kills <- mean(my_data$nkill, na.rm = TRUE) # Calculate mean of kills
median_kills <- median(my_data$nkill, na.rm = TRUE) # Calculate median of kills
sd_kills <- sd(my_data$nkill, na.rm = TRUE) # Calculate standard deviation of kills
var_kills <- var(my_data$nkill, na.rm = TRUE) # Calculate variance of kills
cor_kills_wound <- cor(my_data$nkill, my_data$nwound, use = "complete.obs") # Correlation between kills
```

```
# Generalized Linear Modeling
glm_model <- glm(success ~ nkill + nwound, family = binomial, data = my_data)
```

```
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
```

```
summary(glm_model) # Summarize the GLM
```

```
##
## Call:
## glm(formula = success ~ nkill + nwound, family = binomial, data = my_data)
##
## Coefficients:
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept) 1.637681   0.008984  182.29   <2e-16 ***
## nkill       0.193448   0.006002   32.23   <2e-16 ***
## nwound      0.161206   0.004760   33.87   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 119432  on 164816  degrees of freedom
## Residual deviance: 113756  on 164814  degrees of freedom
##   (16874 observations deleted due to missingness)
## AIC: 113762
##
## Number of Fisher Scoring iterations: 8
```

```r
# T-Test
ttest_result <- t.test(nkill ~ success, data = my_data)
ttest_result # Display the t-test result
```

```
##
##  Welch Two Sample t-test
##
## data:  nkill by success
## t = -48.19, df = 99378, p-value < 2.2e-16
## alternative hypothesis: true difference in means between group 0 and group 1 is not equal to 0
## 95 percent confidence interval:
##  -2.002732 -1.846188
## sample estimates:
## mean in group 0 mean in group 1
##       0.6995472       2.6240072
```

```r
# Chi-Squared Test Example
# Replace 'attacktype1' and 'weaptype1' with the actual column names from your dataset
chisq_result <- chisq.test(table(my_data$attacktype1, my_data$weaptype1))
```

```
## Warning in chisq.test(table(my_data$attacktype1, my_data$weaptype1)):
## Chi-squared approximation may be incorrect
```

```r
chisq_result # Display the chi-squared test result
```

```
##
##  Pearson's Chi-squared test
##
## data:  table(my_data$attacktype1, my_data$weaptype1)
## X-squared = 425533, df = 88, p-value < 2.2e-16
```