

# Police Shooting Data

```
#reading in data
data = read.csv(file = "fatal-police-shootings-data.csv", as.is = TRUE)
head(data)
```

##	id	name	date	manner_of_death	armed	age	gender	race
## 1	3	Tim Elliot	2015-01-02	shot	gun	53	M	A
## 2	4	Lewis Lee Lembke	2015-01-02	shot	gun	47	M	W
## 3	5	John Paul Quintero	2015-01-03	shot and Tasered	unarmed	23	M	H
## 4	8	Matthew Hoffman	2015-01-04	shot	toy weapon	32	M	W
## 5	9	Michael Rodriguez	2015-01-04	shot	nail gun	39	M	H
## 6	11	Kenneth Joe Brown	2015-01-04	shot	gun	18	M	W
##	city	state	signs_of_mental_illness	threat_level	flee			
## 1	Shelton	WA	True	attack	Not fleeing			
## 2	Aloha	OR	False	attack	Not fleeing			
## 3	Wichita	KS	False	other	Not fleeing			
## 4	San Francisco	CA	True	attack	Not fleeing			
## 5	Evans	CO	False	attack	Not fleeing			
## 6	Guthrie	OK	False	attack	Not fleeing			
##	body_camera							
## 1	False							
## 2	False							
## 3	False							
## 4	False							
## 5	False							
## 6	False							

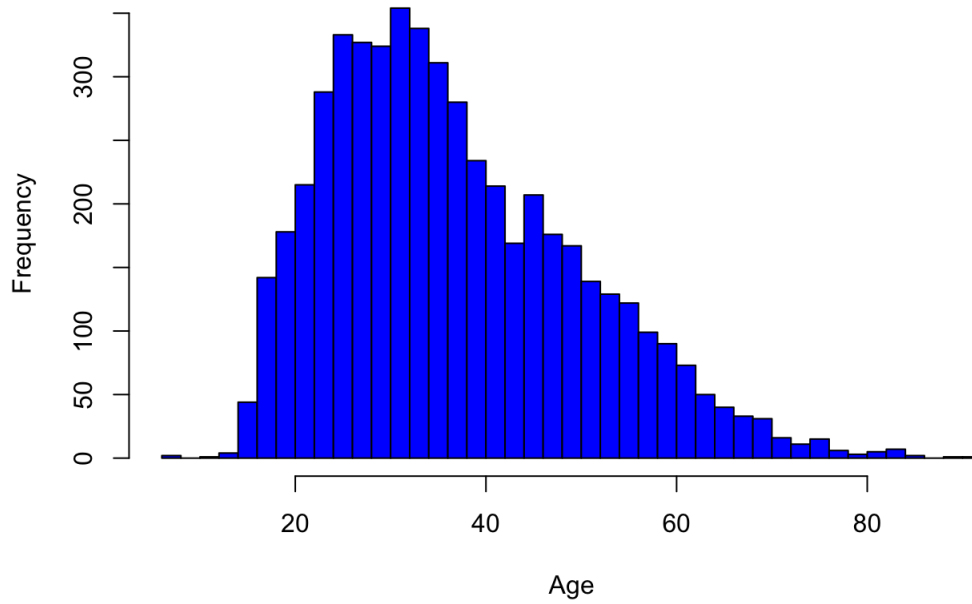
```
#data cleaning
race <- gsub("B", "Black", data$race)
race <- gsub("A", "Asian", race)
race <- gsub("W", "White", race)
race <- gsub("H", "Hispanic", race)
race <- gsub("N", "Native A.", race)
race <- gsub("O", "Other", race)

data$race <- race
#get data on population percentage of race from Census Bureau
#https://www.census.gov/quickfacts/fact/table/US/PST045219

amer_pop <- 329135084
b_pop <- amer_pop * .134
w_pop <- amer_pop * .601
h_pop <- amer_pop * .185
a_pop <- amer_pop * .059
n_pop <- amer_pop * .013
```

```
hist(data$age, xlab = "Age", ylab = "Frequency", main = "Histogram of Those Fatally Shot by Age", col = "blue", breaks = 50)
```

**Histogram of Those Fatally Shot by Age**

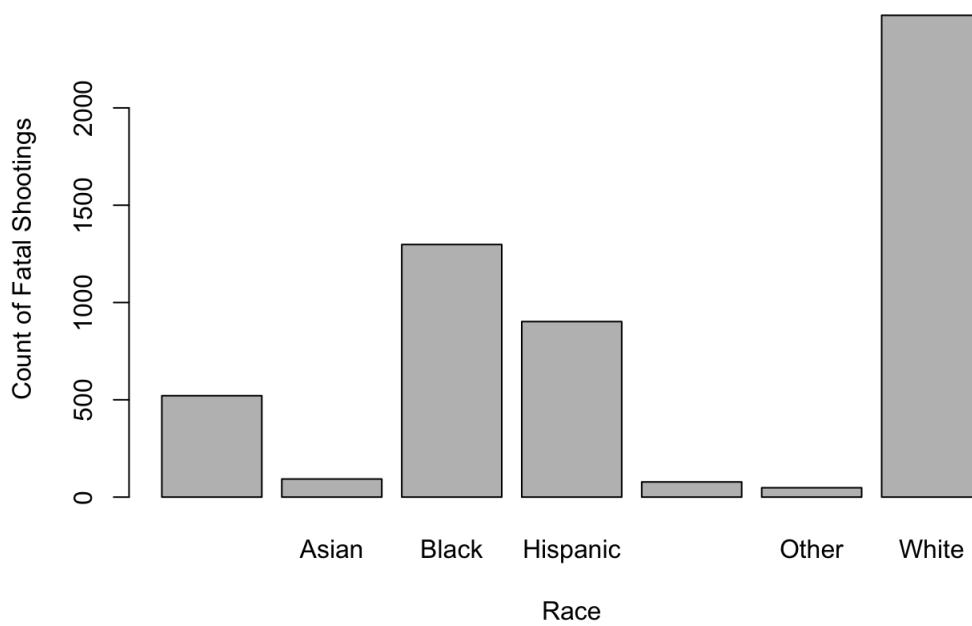


```
summary(na.omit(data$age))
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   \n##      6.00  27.00  35.00  37.12  46.00  91.00
```

```
counts <- table(data$race)\nbarplot(counts, xlab = "Race", ylab = "Count of Fatal Shootings", main = "Count of Fatal Shootings by Race")
```

**Count of Fatal Shootings by Race**



```

count_black <- nrow(data[data$race == "Black",])
count_white <- nrow(data[data$race == "White",])
count_hispanic <- nrow(data[data$race == "Hispanic",])
count_asian <- nrow(data[data$race == "Asian",])
count_na <- nrow(data[data$race == "Native A.",])

black_per <- (count_black / b_pop) * 100
white_per <- (count_white / w_pop) * 100
hispanic_per <- (count_hispanic / h_pop) * 100
asian_per <- (count_asian / a_pop) * 100
na_per <- (count_na / n_pop) * 100

fatalaties_per <- data.frame(c("Black", "White", "Hispanic", "Asian", "Native A."), c(black_per, white_per,
hispanic_per, asian_per, na_per))

barplot(c(black_per, white_per, hispanic_per, asian_per, na_per),
main = "Fatal Shootings by Race as % of US Population",
xlab = "Race",
ylab = "Percentage",
names.arg = c("Black", "White", "Hispanic", "Asian", "Native A."),
col = "darkred")

```

