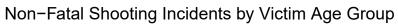
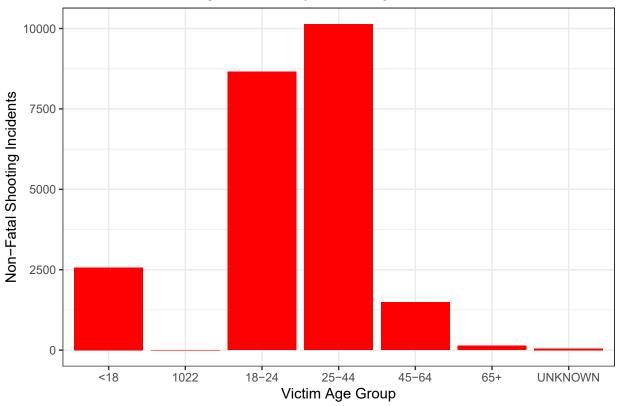
## NYPD Shooting Data

## 2024-04-30

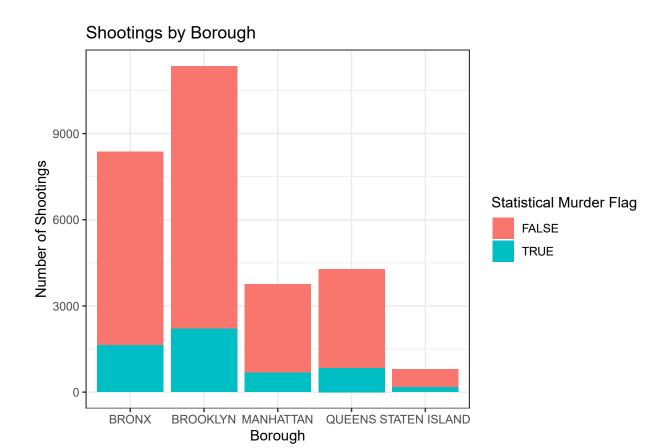
```
library(tidyverse)
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr 1.1.4
                       v readr
                                    2.1.5
## v forcats 1.0.0
                       v stringr
                                  1.5.1
## v ggplot2 3.5.1 v tibble
                                 3.2.1
## v lubridate 1.9.3
                       v tidyr
                                   1.3.1
## v purrr
              1.0.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
library(lubridate)
NYPD_data <- "https://data.cityofnewyork.us/api/views/833y-fsy8/rows.csv?accessType=DOWNLOAD"
shootings <- read_csv(NYPD_data)</pre>
## Rows: 28562 Columns: 21
## -- Column specification ----
## Delimiter: ","
## chr (12): OCCUR_DATE, BORO, LOC_OF_OCCUR_DESC, LOC_CLASSFCTN_DESC, LOCATION...
       (7): INCIDENT_KEY, PRECINCT, JURISDICTION_CODE, X_COORD_CD, Y_COORD_CD...
## lgl
        (1): STATISTICAL_MURDER_FLAG
## time (1): OCCUR_TIME
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
shootings$OCCUR_DATE <- mdy(shootings$OCCUR_DATE)</pre>
shootings <- shootings %>%
 mutate(across(c(BORO, PERP_AGE_GROUP, PERP_SEX, PERP_RACE, VIC_AGE_GROUP, VIC_SEX, VIC_RACE, STATISTIC
plot_victim_age <- shootings %>%
 filter(STATISTICAL_MURDER_FLAG == FALSE) %>%
 ggplot(aes(x = VIC_AGE_GROUP)) +
 geom_bar(fill = "red") +
```

```
theme_bw() +
  labs(x = "Victim Age Group",
       y = "Non-Fatal Shooting Incidents",
       title = "Non-Fatal Shooting Incidents by Victim Age Group")
plot_borough <- shootings %>%
  ggplot(aes(x = BORO, fill = STATISTICAL_MURDER_FLAG)) +
  geom_bar() +
  theme_bw() +
  labs(x = "Borough",
       y = "Number of Shootings",
       fill = "Statistical Murder Flag",
      title = "Shootings by Borough")
plot_perpetrator_age <- shootings %>%
  ggplot(aes(x = PERP_AGE_GROUP)) +
  geom_bar(fill = "blue") +
  theme_bw() +
  labs(x = "Perpetrator Age Group",
       y = "Number of Shootings",
       title = "Shootings by Perpetrator Age Group")
plot_victim_race <- shootings %>%
  ggplot(aes(x = VIC_RACE)) +
  geom_bar(fill = "green") +
 theme_bw() +
  labs(x = "Victim Race",
       y = "Number of Shootings",
       title = "Shootings by Victim Race")
print(plot_victim_age)
```



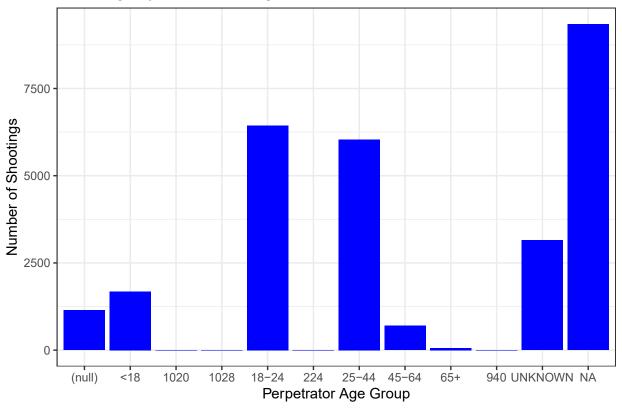


print(plot\_borough)

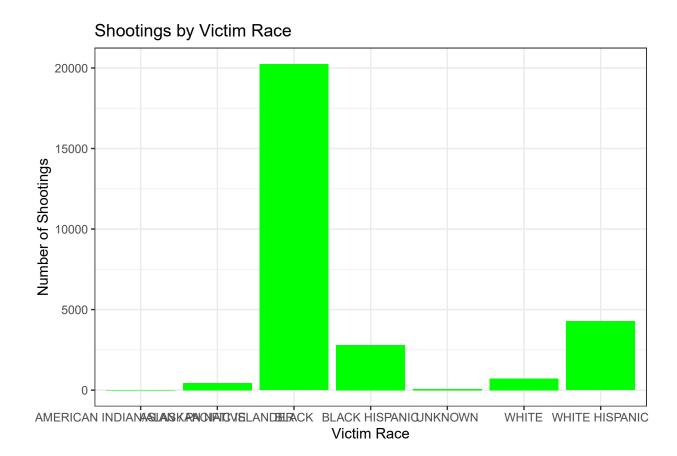


print(plot\_perpetrator\_age)

## Shootings by Perpetrator Age Group



print(plot\_victim\_race)



In Conclusion we can see that certain age groups make up a large portion of the victims. In addition Brooklyn had the highest fatalaties. I think my biases are in regards to age, race and gender, which is why I chose to investigate those categories to see if there might be any links.