```
sqf_2011
                                           sqf_2011$race<-
                                            recode(
                                             sqf_2011$race,
                                             "A" = "API",
                                             "B"
                                                     = "Black",
                                             "|"=
                                                    "Am Indian",
                                             "P"=
                                                    "Hispanic",
                                             "Q"=
                                                    "Hispanic",
                                             "W"=
                                                    "White",
                                             "X"=
                                                   "Unknown",
sqf_2011 <-
                                             "Z"=
                                                   "Other",
sqf_2011 |>
                                             .default = NA_character_
 select( sex, race, arstmade
```

```
sqf_2011 |>
 group_by(race) |>
 summarise(stops_by_race = n() )
sqf_2011$arstmade<-
 recode(
  sqf_2011$arstmade,
         = 1,
```

```
sqf_2011 |>
group_by(race) |>
summarise(stops_by_race = n(),
percent_stopped = stops_by_race /total_stops *100
)
```

```
sqf_2011 |>
group_by(race) |>
summarise(stops_by_race = n(),
    percent_stopped = stops_by_race/ total_stops *100,
    percent_arrested = sum(arstmade)/ = stops_by_race *100
)
```

```
sqf_2011 |>
group_by(race) |>
summarise(stops by race = n(),
      percent_stopped = stops_by_race / total_stops *100,
      percent_arrested = sum(arstmade)/ stops_by_race *100
)|>
arrange(percent_arrested) |>
ggplot()+
geom col(aes(x=race,y=percent arrested), fill="blue", width = 0.25, position = position nudge(x=0.15))+
geom col(aes(x=race,y=percent stopped), fill="red", width = 0.25, position = position nudge(x=-0.15))+
labs(
    y="",
   title = "Percent Stopped and Percent Arrested",
   subtitle = "NYC SQF 2011 Data",
   caption = "The red bars show percent of people stopped of the total.\n The blue bars show the percent arrested by stop.")+
theme minimal()
```