Project

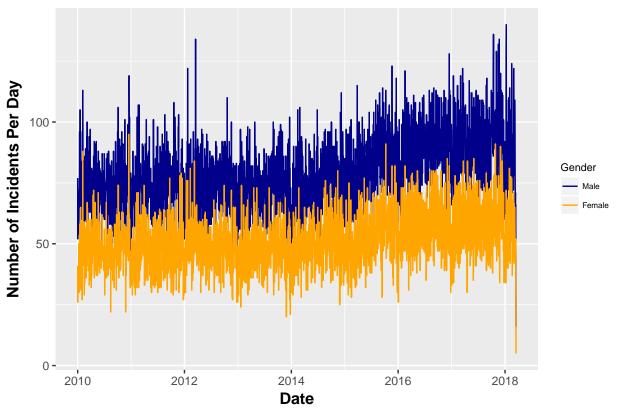
A aron

3/25/2018

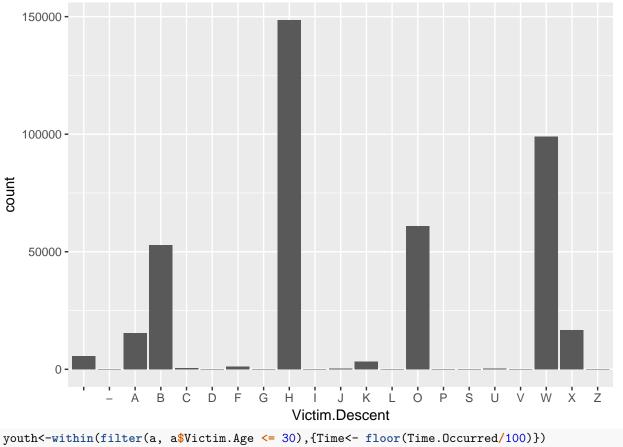
```
library(plyr)
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:plyr':
##
##
       arrange, count, desc, failwith, id, mutate, rename, summarise,
##
       summarize
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
library(magrittr)
library(reshape2)
library(ggplot2)
library(lubridate)
## Attaching package: 'lubridate'
## The following object is masked from 'package:plyr':
##
##
       here
## The following object is masked from 'package:base':
##
##
       date
a <- read.csv(file="/Users/aaron/Desktop/R/Project/TrafficCollision.csv", header=TRUE, sep=",")
count(a, Victim.Sex, Date.Occurred)
## # A tibble: 10,528 x 3
##
      Victim.Sex Date.Occurred
                                   n
          <fctr>
##
                        <fctr> <int>
## 1
                    01/01/2010
                                   4
## 2
                    01/01/2011
## 3
                    01/01/2013
                                   2
## 4
                    01/01/2014
                                   4
                                   2
## 5
                    01/01/2015
## 6
                    01/01/2016
                    01/02/2010
## 7
                                   1
## 8
                    01/02/2011
                                   1
## 9
                    01/02/2012
                                   1
```

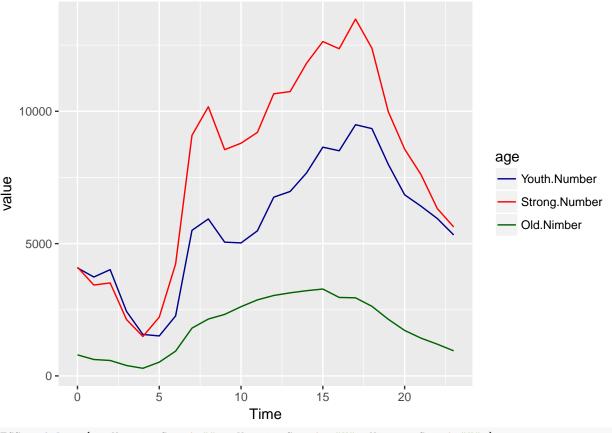
```
## 10
                    01/02/2013
                                    1
## # ... with 10,518 more rows
Male <<- subset(count(a, Victim.Sex, Date.Occurred), Victim.Sex == "M")</pre>
Female <- subset(count(a, Victim.Sex, Date.Occurred), Victim.Sex == "F")
num <- inner_join(Male, Female, by = "Date.Occurred")</pre>
d <- data_frame(date = as.Date(num$Date.Occurred, format = "%m/%d/%Y"),</pre>
                Number.of.Male = num$n.x,
                Number.of.Femlae = num$n.y)
dmelt <- melt(d, id.vars = "date", variable.name = "type")</pre>
ggplot(dmelt)+
aes(date, value, colour = type)+
geom_line()+
theme(
  plot.title = element_text(size = 13, hjust = 0.5, face = "bold"),
  axis.title = element_text(size = 12, face = "bold"),
  strip.text.x = element_text(size = 12, face = "bold"),
  legend.title = element_text(size = 8),
 legend.key.size = unit(0.5, "cm"),
 legend.text = element_text(size = 6)
)+
labs(
 x = "Date",
 y = "Number of Incidents Per Day",
 shape = "Transmission"
)+
scale_colour_manual(
 values = c("darkblue", "orange"),
 name = "Gender",
 labels = c("Male", "Female")
ggtitle("Time Series Plot of Traffic Collision Incidents from 2010")
```





ggplot(a) +
aes(Victim.Descent) +
geom_bar()





```
TCS<- filter(a, Victim.Sex !="" , Victim.Sex != "H", Victim.Sex !="X" )
h<-hour(as.POSIXct(sprintf("%04.0f", TCS$Time.Occurred), format="%H%M"))
##Bar graph
ggplot(TCS, aes(h, fill = Victim.Sex))+ geom_bar()</pre>
```

