Supplement for Lecture 10: Partitioning Variability

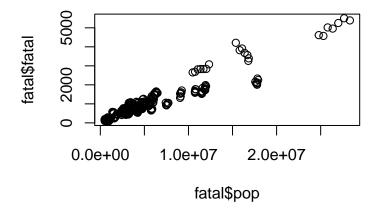
Load Data

```
data("Fatalities") # Load Data
fatal = Fatalities[,c("fatal","pop","youngdrivers")]
head(fatal)
##
     fatal
               pop youngdrivers
       839 3942002
                       0.211572
                       0.210768
       930 3960008
       932 3988992
                       0.211484
       882 4021008
                       0.211140
    1081 4049994
                       0.213400
     1110 4082999
                       0.215527
```

Variables of Interest - fatal = Number of vehicle fatalities - pop = Population - youngdrivers = Percent of Drivers 15 - 24

Create New Variable to Adjust for Population

```
#Consider scatterplot
plot(x=fatal$pop,y=fatal$fatal)
```



```
#Create New Variable Called adj_fatal
fatal$adj_fatal = (fatal$fatal/fatal$pop)*1000
```

```
#Remove Original Variable
fatal$fatal = NULL

#Preview Modified Dataset
head(fatal)
```

#Consider new scatterplot
plot(x=fatal\$pop,y=fatal\$adj_fatal)

