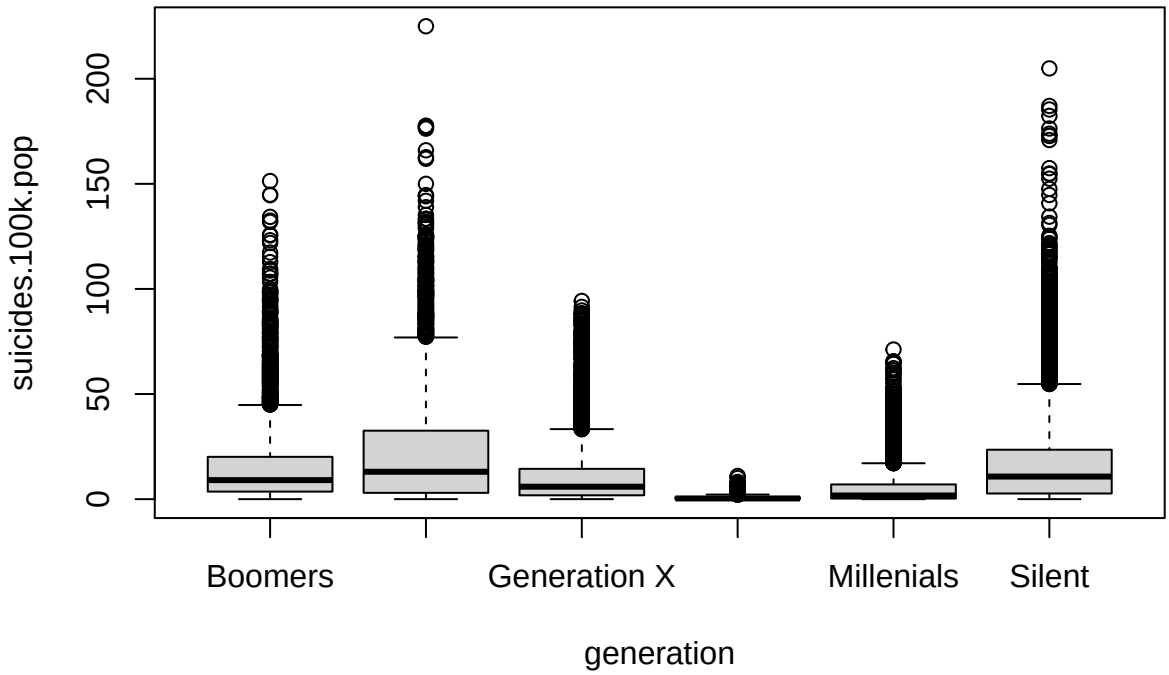
209 Project

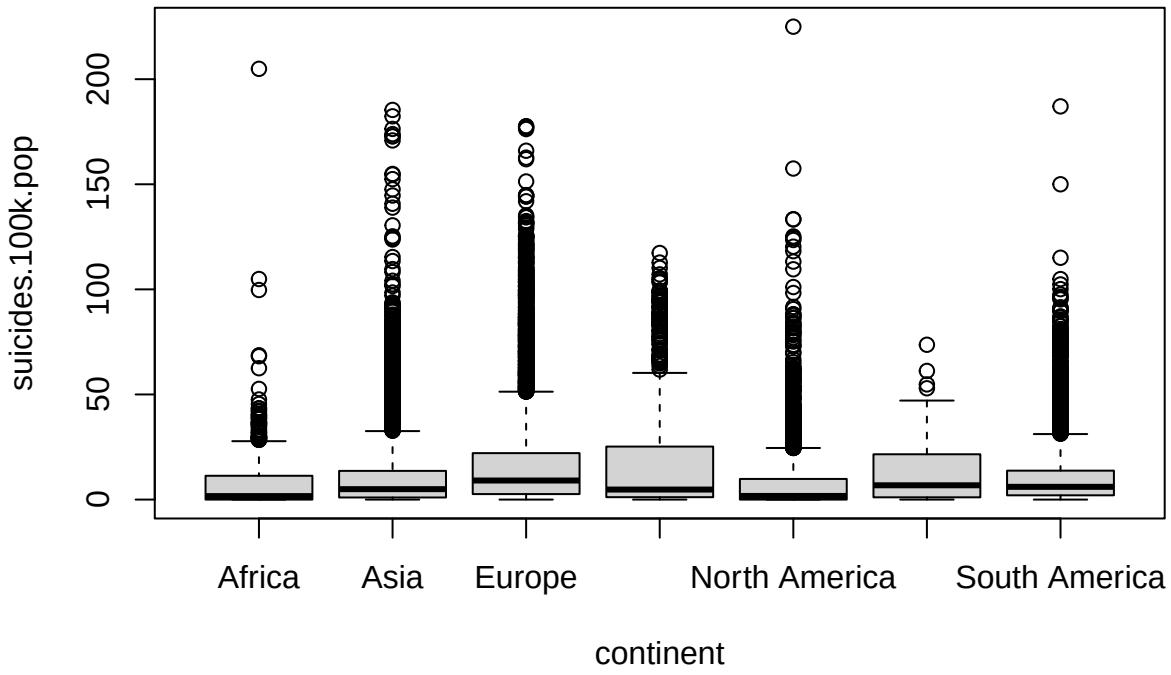
```
library(ggplot2)
```

```
dat <- read.csv("data_cleaned.csv")
suicide <- read.csv("suicide_cleaned.csv")
happy <- read.csv("Happiness_cleaned.csv")
```

```
boxplot(suicides.100k.pop ~ generation, data = suicide)
```

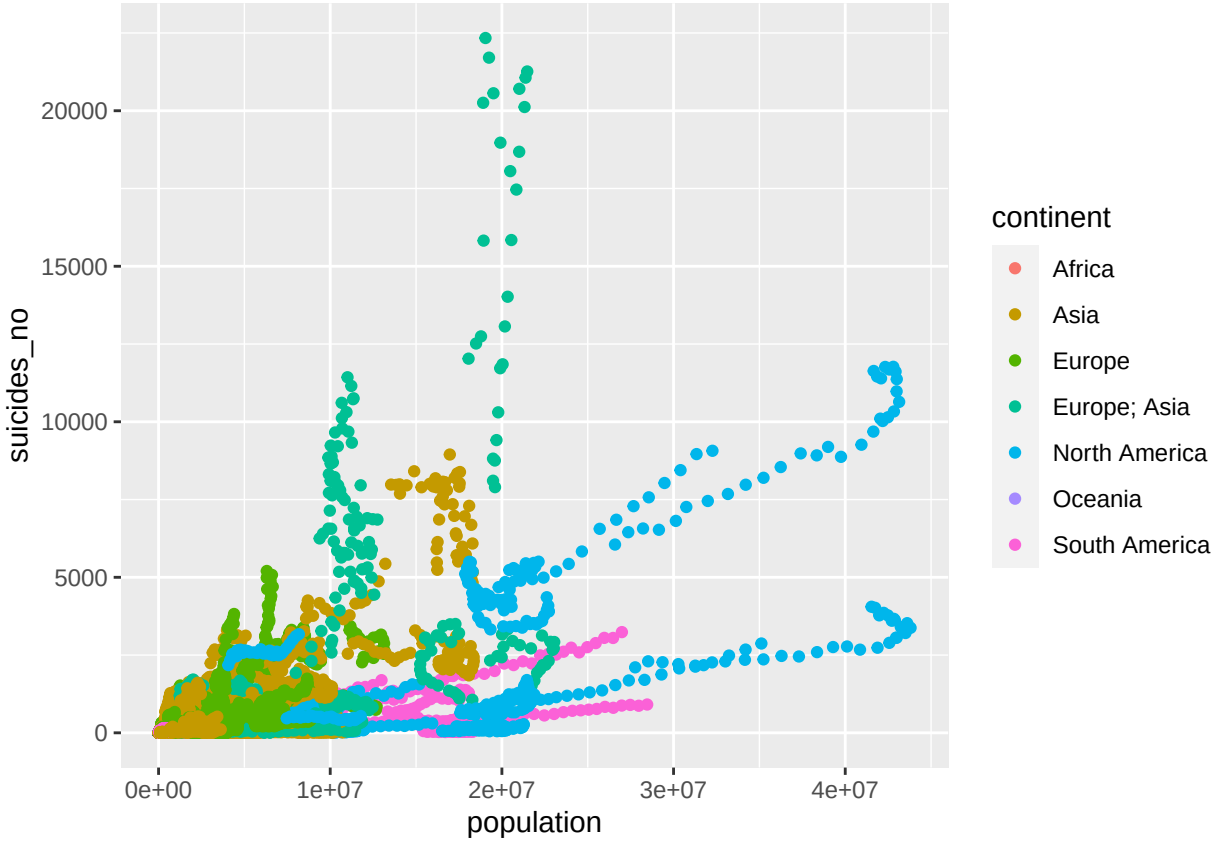



```
boxplot(suicides.100k.pop ~ continent, data = suicide)
```

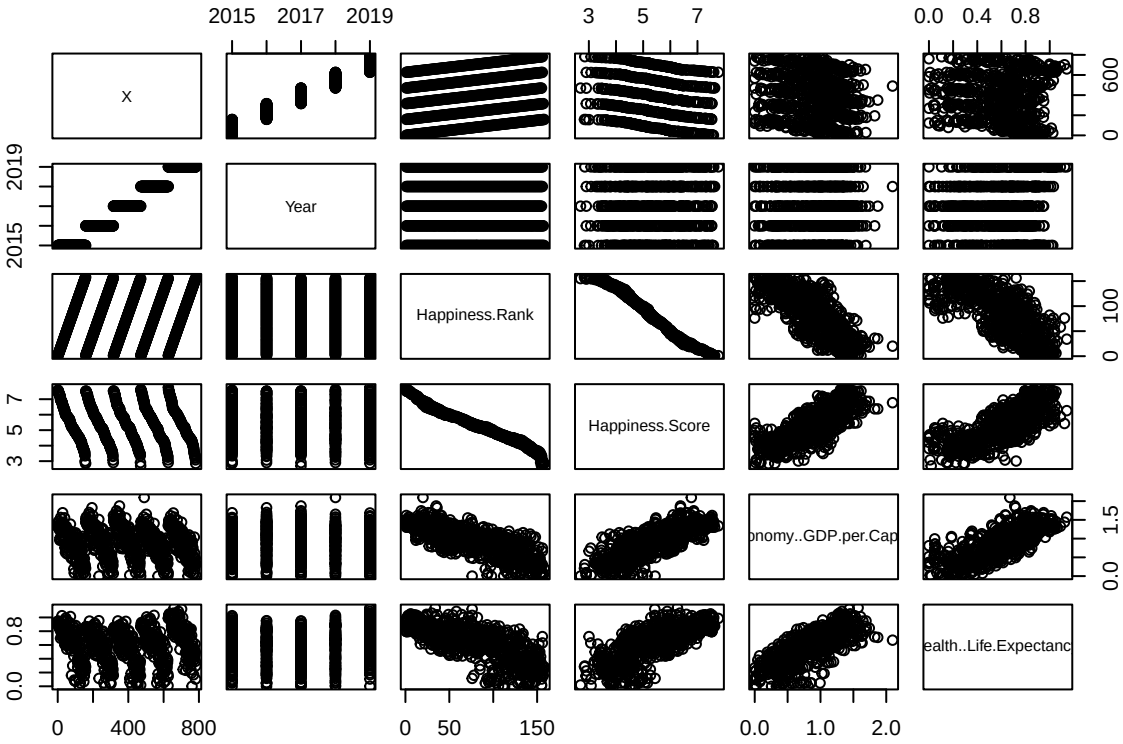



```
plot(suicide$population, suicide$suicides.100k.pop)
```


```
ggplot(data = suicide, aes(x = population, y = suicides_no, col = continent)) + geom_point()
```




```
plot(happy)
```




```
Multiple.Model <- lm(Happiness.Score ~ Economy..GDP.per.Capita. + Health..Life.Expectancy., data = happ
Cm <- Multiple.Model$coefficients
```

```r
Y.Pred.Multiple <- Cm[1] + Cm[2]*happy$Economy..GDP.per.Capita. + Cm[2]*happy$Health..Life.Expectancy.
Y.True <- happy$Happiness.Score
Economy.Model <- lm(Happiness.Score ~ Economy..GDP.per.Capita., data = happy)
Ce <- Economy.Model$coefficients
Life.Model <- lm(Happiness.Score ~ Health..Life.Expectancy., data = happy)
Cl <- Life.Model$coefficients
Y.Pred.Economy <- Ce[1] + Ce[2] * happy$Economy..GDP.per.Capita.
Y.Pred.Life <- Cl[1] + Cl[2] * happy$Health..Life.Expectancy.
cor(Y.Pred.Multiple, Y.True)
```

```
## [1] 0.8139569
```

```r
cor(Y.Pred.Life, Y.True)
```

```
## [1] 0.7424557
```

```r
cor(Y.Pred.Economy, Y.True)
```

```
## [1] 0.789284
```