Visualization

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```
library (ggplot2)
```

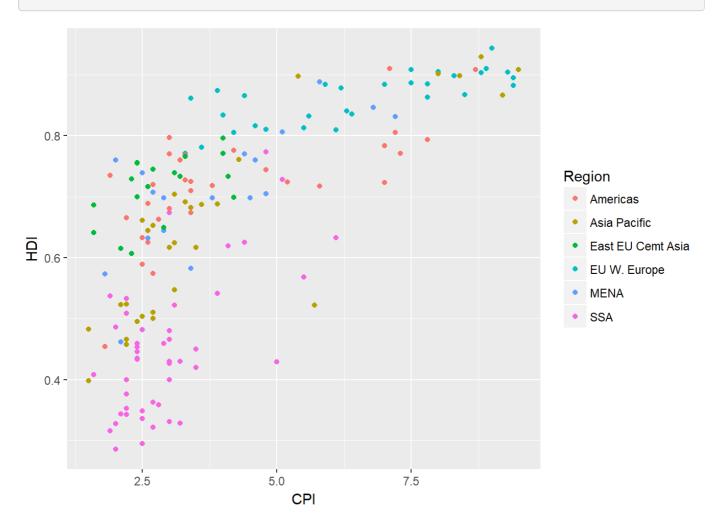
```
## Warning: package 'ggplot2' was built under R version 3.4.4
```

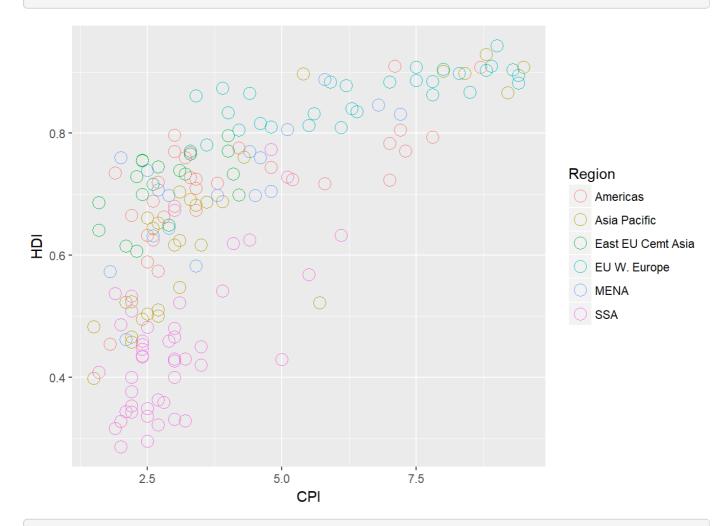
```
library(data.table)
df <- fread('Economist_Assignment_Data.csv',drop=1)</pre>
```

```
head(df)
```

```
Country HDI.Rank
                        HDI CPI
                                         Region
## 1: Afghanistan 172 0.398 1.5 Asia Pacific
       Albania
## 2:
                   70 0.739 3.1 East EU Cemt Asia
## 3:
       Algeria
                   96 0.698 2.9
       Angola
                  148 0.486 2.0
## 4:
                                            SSA
                   45 0.797 3.0
## 5:
     Argentina
                                      Americas
                   86 0.716 2.6 East EU Cemt Asia
       Armenia
## 6:
```

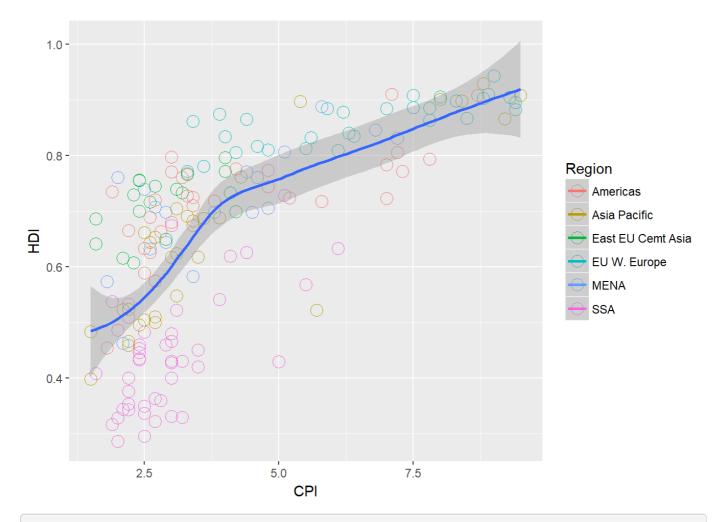
```
ggplot(df,aes(x=CPI,y=HDI,color=Region)) + geom_point()
```





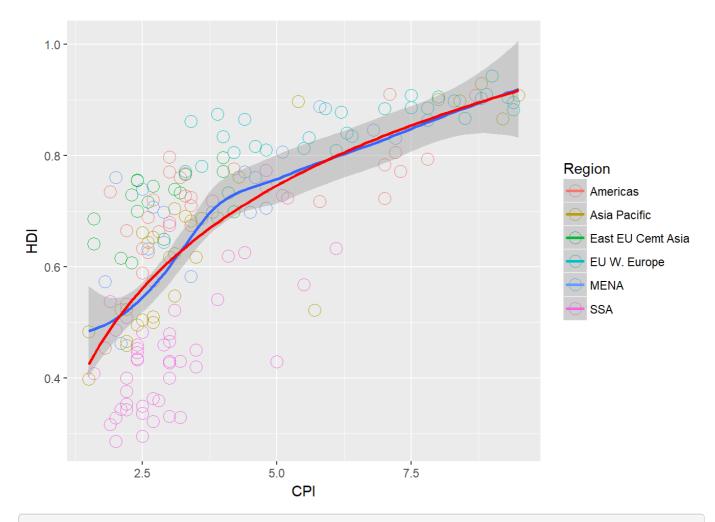
ggplot(df,aes(x=CPI,y=HDI,color=Region))+geom_point(size=4,shape=1)+geom_smooth(aes
(group=1))

`geom_smooth()` using method = 'loess'



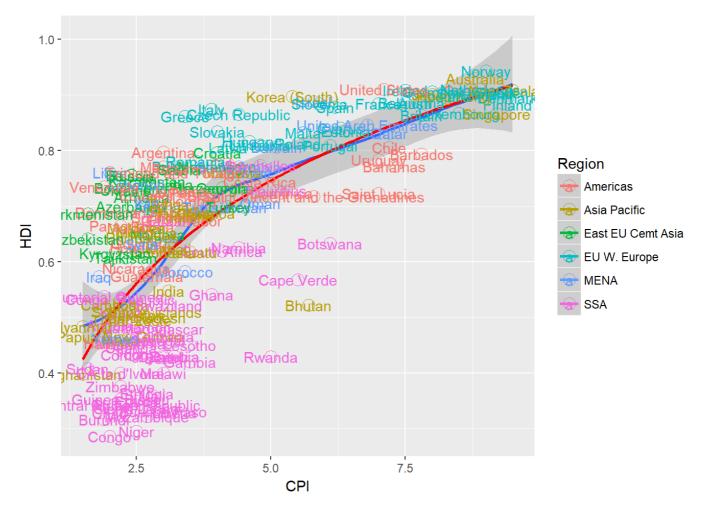
ggplot(df,aes(x=CPI,y=HDI,color=Region)) + geom_point(size=4,shape=1)+geom_smooth(aes(group=1))+ geom_smooth(aes(group=1),method ='lm',formula = y~log(x),se=FALSE,color='red')

```
## `geom_smooth()` using method = 'loess'
```

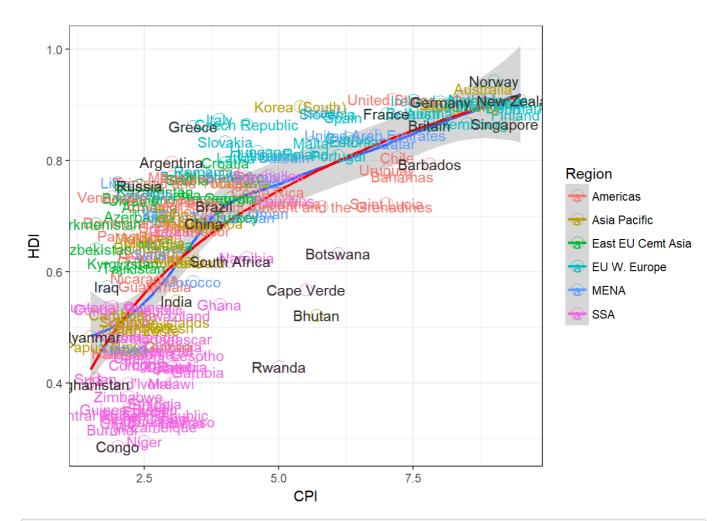


ggplot(df,aes(x=CPI,y=HDI,color=Region)) + geom_point(size=4,shape=1)+geom_smooth(a
es(group=1))+ geom_smooth(aes(group=1),method ='lm',formula = y~log(x),se=FALSE,col
or='red')+geom_text(aes(label=Country))

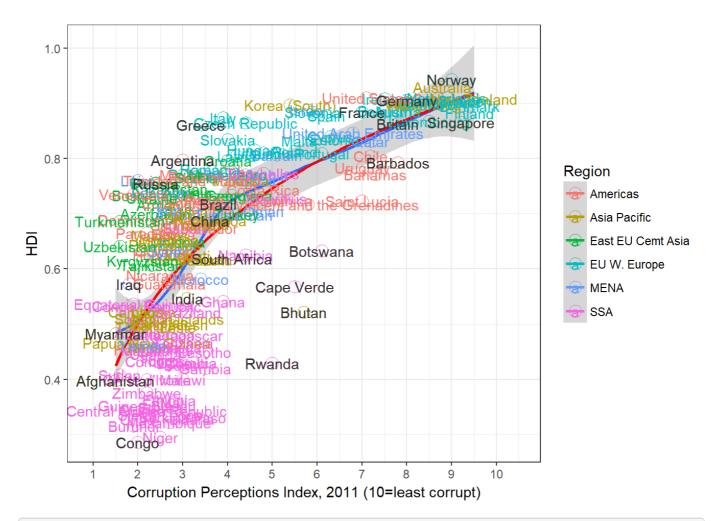
```
## `geom_smooth()` using method = 'loess'
```



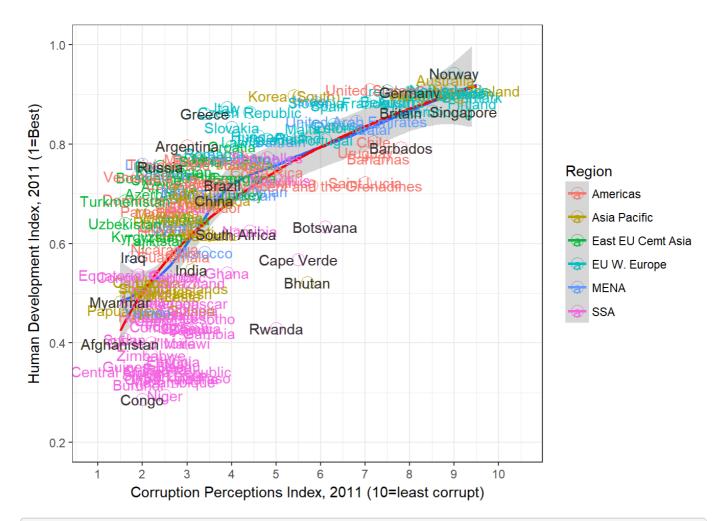
```
## `geom_smooth()` using method = 'loess'
```



```
## `geom_smooth()` using method = 'loess'
```



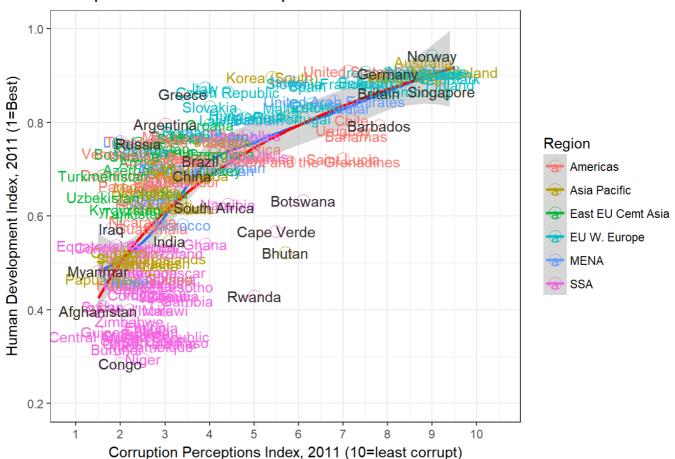
```
## `geom_smooth()` using method = 'loess'
```



ggplot(df,aes(x=CPI,y=HDI,color=Region)) + geom_point(size=4,shape=1)+geom_smooth(a
es(group=1))+ geom_smooth(aes(group=1),method ='lm',formula = y~log(x),se=FALSE,col
or='red')+geom_text(aes(label=Country))+ geom_text(aes(label = Country), color = "g
ray20",data = subset(df, Country %in% pointsToLabel),check_overlap = TRUE)+theme_bw
()+scale_x_continuous(name = "Corruption Perceptions Index, 2011 (10=least corrupt)
",limits = c(.9, 10.5),breaks=1:10) + scale_y_continuous(name = "Human Development
Index, 2011 (1=Best)",limits = c(0.2, 1.0))+ggtitle("Corruption and Human developme
nt")

```
## `geom_smooth()` using method = 'loess'
```

Corruption and Human development



library (ggthemes)

```
## `geom_smooth()` using method = 'loess'
```

