

Data Science for Economists - Spring 21

Problem Set 6

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March 18, 2021

1. Done.
2. Done. It is up to date.
3. The figure that I am plotting in this exercise shows the correlation between corruption and human development for all the countries.

Graph source: [Corrosive corruption](#)

The data is already cleaned so I just started off by plotting the data.

4. Below are the figures in order. First I plot the scatter for all the countries as below:

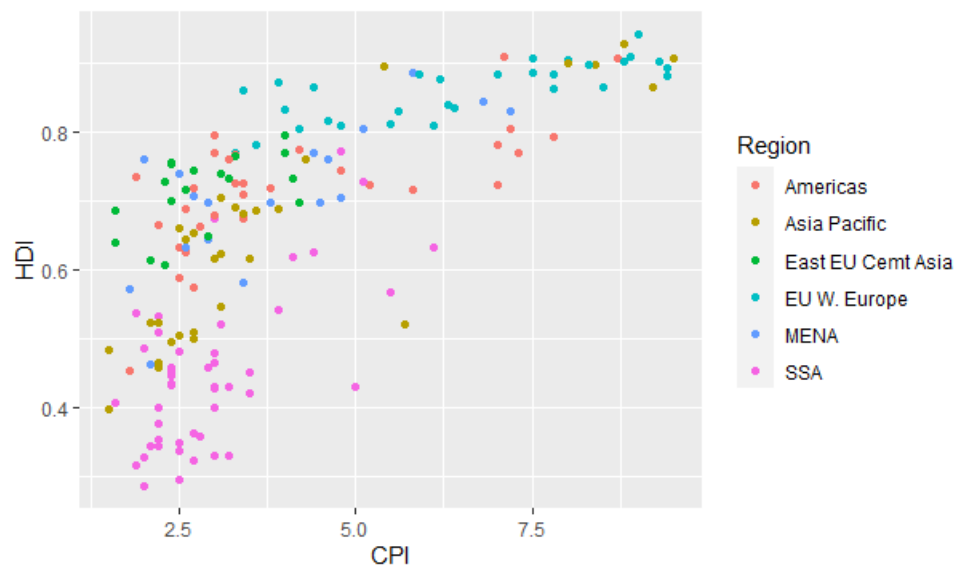


Figure 1: Scatter Plot

Then, I show the trend line in it:

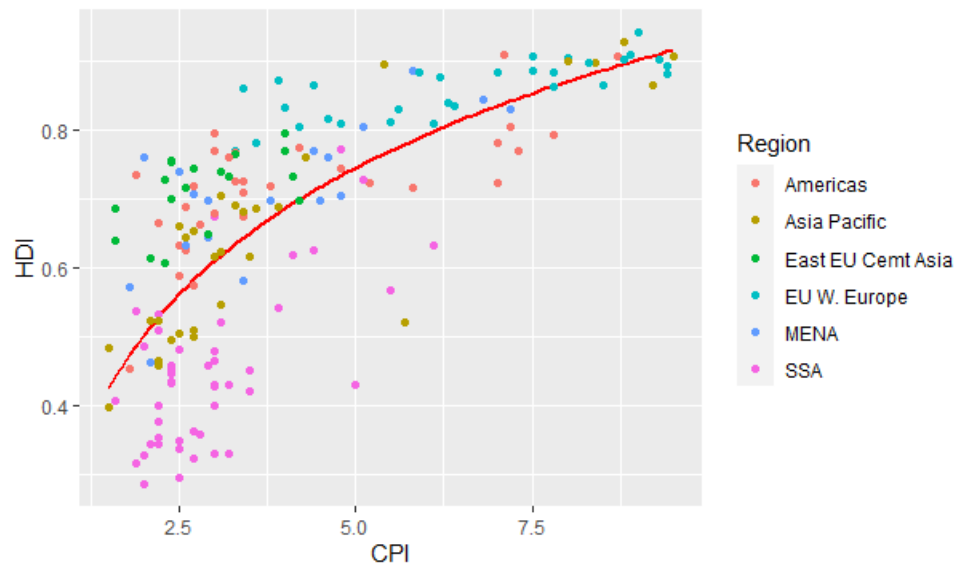


Figure 2: Scatter plot with trend line

And finally I include labels of countries for many of the observations and provide a different color label to different regions.

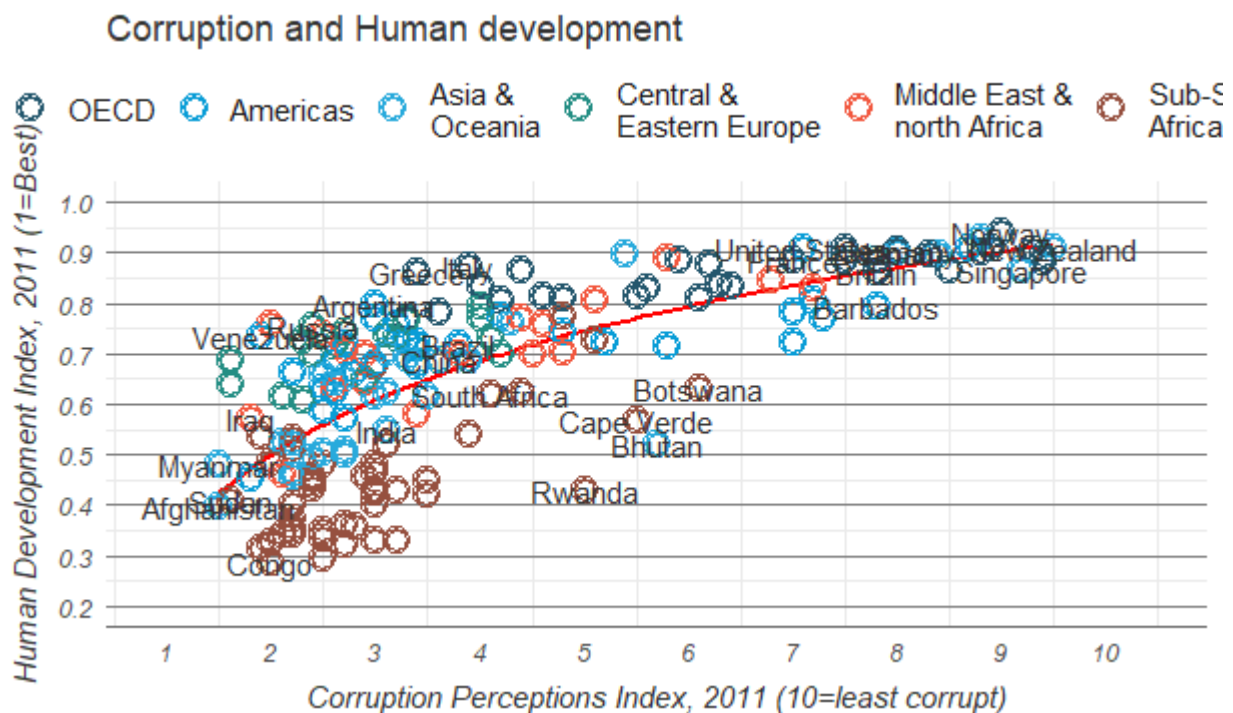


Figure 3: Final graph of correlation between corruption and human development

These images are showing the relationship between corruption and human development. It can be seen that the relationship is inverse. A high corruption perception index (CPI) where 10 = least corrupt correlates with a high human development index (HDI). This is intuitive and makes sense. Countries with high human development are expected to have a low corruption perception and vice versa.