Student Survey Assignment

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## Is there a significant relationship between the amount of time spent reading and the time spent watching television?

### Survey data is located in “student-survey.csv”

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When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

## Preparations

library(dplyr)  
library(ggplot2)  
library(readr)

## Loading Data

## Classes 'spec\_tbl\_df', 'tbl\_df', 'tbl' and 'data.frame': 11 obs. of 4 variables:  
## $ TimeReading: num 1 2 2 2 3 4 4 5 5 6 ...  
## $ TimeTV : num 90 95 85 80 75 70 75 60 65 50 ...  
## $ Happiness : num 86.2 88.7 70.2 61.3 89.5 ...  
## $ Gender : num 1 0 0 1 1 1 0 1 0 0 ...  
## - attr(\*, "spec")=  
## .. cols(  
## .. TimeReading = col\_double(),  
## .. TimeTV = col\_double(),  
## .. Happiness = col\_double(),  
## .. Gender = col\_double()  
## .. )

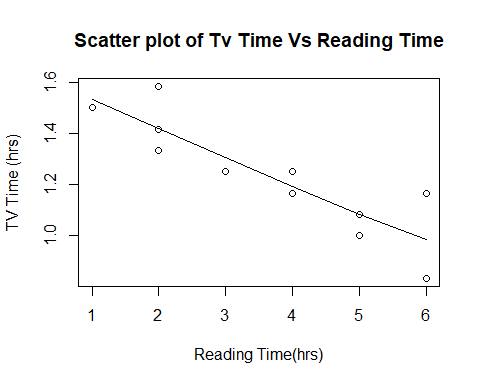
### Correlation Coefficient (Pearson Product moment Correlation)

The covarience between the two variables TimeReading and TimeTV is -0.8830677

The covarience between the two variables TimeReading and TimeTV in hours is -0.8830677

The relationship is strong negative,irrespective on how we measure the variables which means that amount of time spent watching TV is negatively affecting the reading time. This could also be seen in the plot below and fitting a line.

## Including Plots



## Conclusion

As an overall conclusion it could be said that as Reading time increases the TV time decreases overall.

The below plot shows the positive strong relationship between TV Time and happiness

