

PTT Analysis of Entrance Exam Scores in Taiwan

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I just started the template.

Executive Summary

Write something here

Introduction

I am curious about the relationship between the high school entrance exam score percentiles and the college entrance scores in Taiwan. It seems obvious that a greater percentage of students from top high schools get admitted to prestigious universities¹.

However, the high school entrance exam is much easier than the college entrance exam, so some people studied little in middle school and was able to get into a good high school. Then some of these people kept studying little and ended up with a bad score on the college entrance exam. On the other hand, I have also seen some students from mediocre high schools worked very hard during the three years, and eventually earned a stellar score in the college exam.

Therefore, I decided to gather data and create my own analysis.

Data Collection

It is a challenge to obtain individual pairs of data as a representative sample. Although it is easy to send out a spreadsheet and ask my friends to report their scores anonymously, this approach can result in a large selection bias. Many of my friends graduated from the same high school or college as I did, so we are likely to have similar entrance exam scores.

Hence I retrieved data from the SENIORHIGH (high school)² discussion section on PTT³, the largest terminal-based bulletin board in Taiwan. I assume the data to be more representative (than if I had collected on my own) because anyone can get a PTT account and reply to the post. The majority of scores were reported in May 2015, and a few scores were reported in the following month or later.

Unfinished below

Background

High school entrance exam score percentiles

College entrance scores (Spring and Summer?)

¹<http://ymlee.pixnet.net/blog/post/23123081-%E5%8F%B0%E5%A4%A7%E7%9A%84%E6%90%96%E7%B1%83--%E5%85%A8%E5%9C%8B%E5%89%8D30%E5%BC%B7%E6%98%8E%E6%98%9F%E9%AB%98%E4%B8%AD%E5%87%BA%E7%88%90>

²<https://www.ptt.cc/bbs/SENIORHIGH/M.1432729401.A.995.html>

³If you have a PTT account, you can log into the website using a browser. <https://iamchucky.github.io/PttChrome/?site=ptt.cc>

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

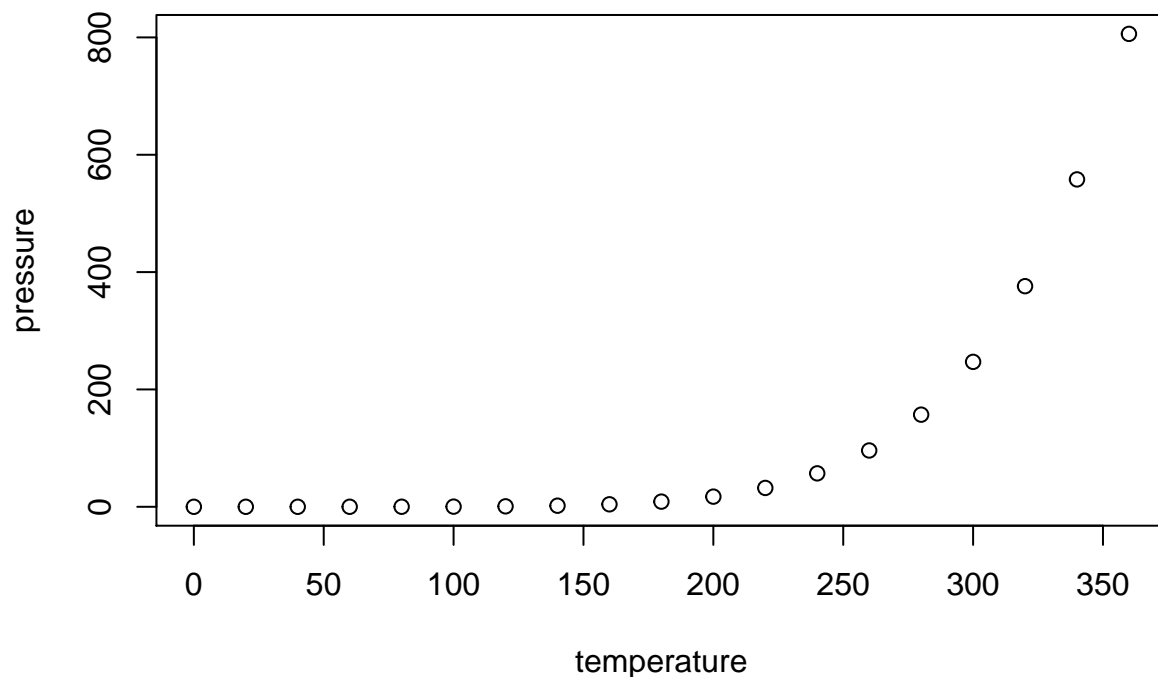
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
summary(cars)
```

```
##      speed      dist
##  Min.   : 4.0    Min.    : 2.00
##  1st Qu.:12.0    1st Qu.: 26.00
##  Median :15.0    Median : 36.00
##  Mean   :15.4    Mean     : 42.98
##  3rd Qu.:19.0    3rd Qu.: 56.00
##  Max.   :25.0    Max.     :120.00
```

Including Plots

You can also embed plots, for example:



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.