K-Pop Data Analysis

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Starting in 2024.

Test citation (Chai, 2024)

1 Executive Summary

Write something here

Disclaimer

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2 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
##
    {\tt Min.}
           : 4.0
                            : 2.00
                    Min.
    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
```

2.1 Read in the Dataset

Idol School (偶像學校)

Motivation: One of the contestants, Snowbaby (蔡瑞雪), is originally from Taiwan.

¹Snowbaby's YouTube channel: https://www.youtube.com/@snowbaby

```
## # A tibble: 10 x 7
##
     Chinese_Name English_Name Vocal Dance Physical Overall Basic_Strength_Ranking
##
                 <chr>
                             <dbl> <dbl>
                                           <dbl>
     <chr>
                                                   <dbl>
                                                                        <dbl>
  1 NATTY
                 NATTY
                               9.8
                                             8.1
                                                    8.63
##
                                     8
                                                                            1
## 2 劉怡伶
                 Tasha
                               8
                                     9.5
                                             8
                                                    8.5
                                                                            2
                 Lee Chae Yo~
                                     8.5
                                                                            3
## 3 李采映
                               8.5
                                             7.5
                                                    8.17
## 4 宋河英
                 Song Ha You~
                               8.6
                                     5.9
                                             9.8
                                                    8.1
                                                                            4
                 Kim Eun Suh
                               6.3
                                                    7.73
                                                                            5
## 5 金恩書
                                     6.9
                                            10
                                                    7.2
                                                                            6
## 6 金明智
                 Kim Myong Ji
                               5.5
                                     7.9
                                             8.2
                                                                            7
## 7 張圭悧
                 Jang Gyuri
                               7.2
                                    7.1
                                             7
                                                   7.1
                 Park Sun
                                                                            8
## 8 朴宣
                               9.5
                                     6.1
                                             5.5
                                                   7.03
## 9 李悠汀
                 Lee Yoo Jeo~
                               5.8
                                     6.2
                                             9
                                                    7
                                                                            9
                 Kim Na Yeon
## 10 金娜妍
                               8.3
                                     6
                                             6.4
                                                    6.9
                                                                           10
```

2.2 Idol School: Additional Resources

Students who were eliminated from the show: https://www.ptt.cc/bbs/fromis 9/M.1555819461.A.C73.html

Someone else used random forests to predict the final ranking: https://shavid.pixnet.net/blog/post/331691281

2.3 Test for Non-English Characters

CJK = Chinese, Japanese, Korean

Chinese example

RStudio 有辦法打中文嗎?

```
print("大家好,很高興能認識你們!")
```

```
## [1] "大家好,很高興能認識你們!"
```

Japanese example

思い出にするにはまだ早すぎる

```
print(" みやわき さくら")
```

```
## [1] "みやわき さくら"
```

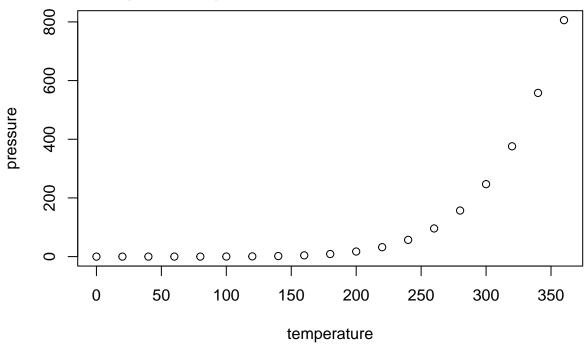
print(" 宮脇 咲良")

[1] "宮脇 咲良"

This template does not support Korean characters yet.

2.4 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.

Acknowledgments

Write something here

References

Chai, C. P. (2024). Statistical analysis of high school and college entrance exam scores in Taiwan with online data. *Preprint on ResearchGate*. http://dx.doi.org/10.13140/RG.2.2.29468.91520/1.