Pongtastic

Team MarHack: Jonny, Quirin, Chris, Luis, Karo

The Idea



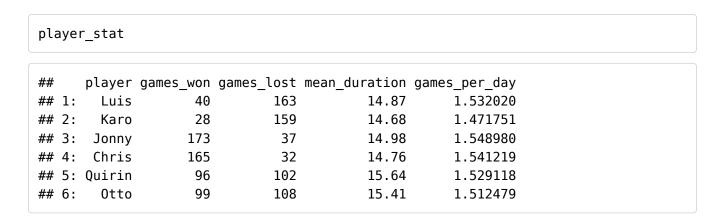
Data Example

```
#read data
simulated_data <- data.table(read.csv(file = "./../Data/game_simulation_data.cs
v"))
simulated_data[1:5,]</pre>
```

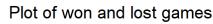
```
##
      player1 player2 time_stamp time_to_score who_serves who_scores player_skill1
## 1:
                         36.62534
                                        36.62534
                                                           2
                                                                      1
                                                           2
## 2:
                         49.27873
                                        12.65339
                                                                                     1
            3
                         86.19217
                                       36.91344
                                                           2
                                                                      1
                                                                                     1
                                                           2
## 4:
            4
                     0 112.89446
                                       26.70230
                                                                                     1
                                                           2
## 5:
            5
                       133.00451
                                       20.11005
                     0
      player_skill2 game_date game_id player1_id player2_id
## 1:
                  3 2021-01-02
                                      1
                                              Chris
                                                           Luis
## 2:
                  3 2021-01-02
                                       1
                                              Chris
                                                           Luis
                                      1
                  3 2021-01-02
## 3:
                                              Chris
                                                           Luis
## 4:
                  3 2021-01-02
                                       1
                                              Chris
                                                           Luis
## 5:
                   3 2021-01-02
                                       1
                                              Chris
                                                           Luis
```

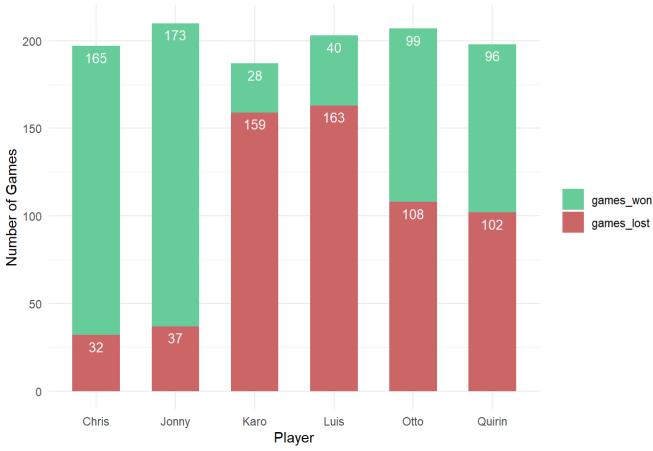
```
#read data
dt <- simulated_data</pre>
```

Player statistics

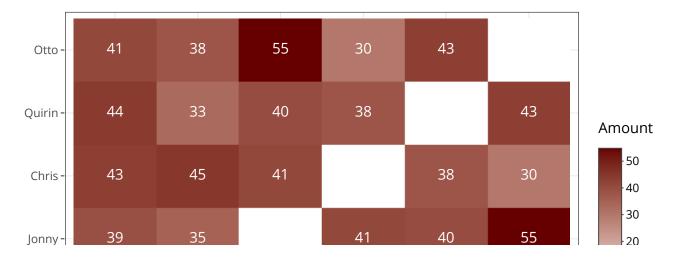


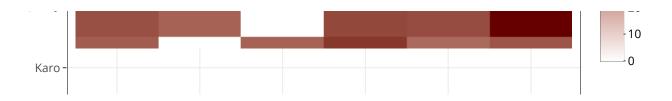
Player Plots



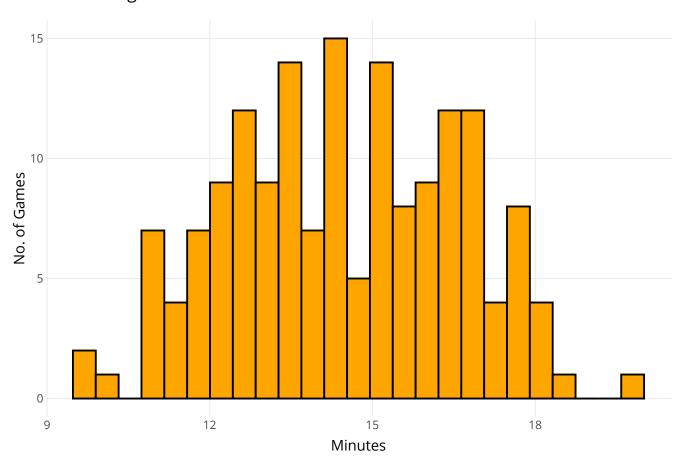


Who played with whom

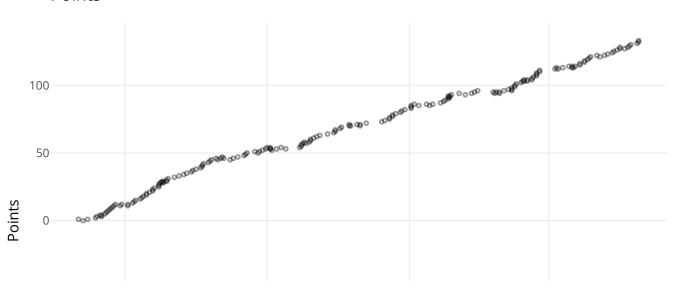








Points





```
## No scatterpolar mode specifed:
     Setting the mode to markers
##
     Read more about this attribute -> https://plotly.com/r/reference/#scatter-mod
##
е
## No scatterpolar mode specifed:
##
     Setting the mode to markers
##
     Read more about this attribute -> https://plotly.com/r/reference/#scatter-mod
е
## No scatterpolar mode specifed:
     Setting the mode to markers
##
##
     Read more about this attribute -> https://plotly.com/r/reference/#scatter-mod
е
```



• Youtube • Download MP4 Data Collection • Extract image from MP4 • Time resolution [s] Data Preprocessing • PyTesseract • Get Score from image Image Classification • Time resolution [s] • Score both players Create time • Additional information series • See results from Karo and Jonny Data Visualization