Mad Lions EC Colombia - Scrims CS Report

Tet
20 - 01 - 2018

Script para obtener los datos deseados

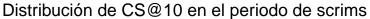
```
library(googlesheets)
library(tidyverse)
library(lubridate)
library(jsonlite)
key <- readLines("API/API key.txt", warn=F)</pre>
servers <- c("https://la1.api.riotgames.com", "https://na1.api.riotgames.com")
names(servers) =c("LAN","NA")
by match <- "/lol/match/v4/timelines/by-match/"</pre>
mes <- "enero"
#This line may ask to authenticate using a browser
gs_ls()
#qet the match history
mh <- gs_url("https://docs.google.com/spreadsheets/d/1WAXDVqFOBm2QvADV76uPd78nO3oLLl_NJVFVfItHKHE/")
# get the raw match_history sheet
training_history <- gs_read(ss=mh, ws = "match_history", range = "B4:BA9")</pre>
#fixing for the lack of last character with an NA
fix <- training_history[length(training_history)-1]</pre>
names(fix) = paste0("X",as.integer(str_replace(names(fix),"X","")) + 2)
training_history <- cbind(training_history,fix)</pre>
#Cleaning the links and dates
historial <- training_history %>%
  gather(Date, link) %>%
 mutate(Date = dmy(Date)) %>%
 filter(!is.na(Date))
#Extracting which side we played on
lados <- training_history %>%
  select(num_range("X",seq(2,length(training_history), by = 2)))
colnames(lados) <- unique(historial$Date)</pre>
lados <- lados %>% gather(Date, lado) %>%
  mutate(Date = ymd(Date))
#Joining the tables and cleaning up the link
scrims <- as.tbl(cbind(historial, lados$lado), stringsAsFactors = FALSE) %>%
  mutate(server = str_extract(link, "LA1|NA1")) %>%
  mutate(link =
           str replace(link,
                        "https://matchhistory.lan.leagueoflegends.com/es/#match-details/LA1/", "")) %%
  mutate(link =
           str_replace(link,
```

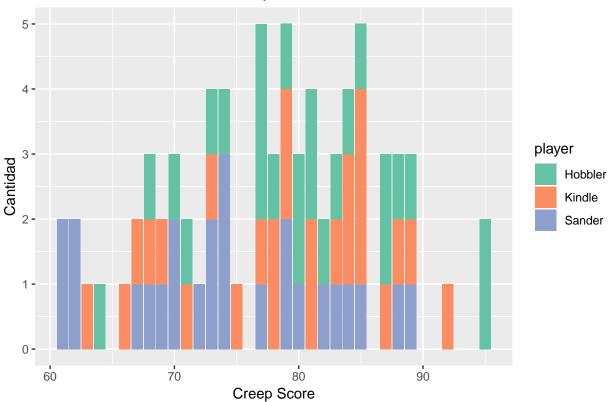
```
"https://matchhistory.na.leagueoflegends.com/en/#match-details/NA1/", "")) %%
  mutate(link = strtrim(link, 10)) %>%
  mutate(link = str_remove(link, "/")) %>%
  mutate(`lados$lado` = as.character(`lados$lado`))
names(scrims) = c("date", "match_id", "lado", "server")
#This function extracts the general info of the matches
#includes: position, currentgold, totalgold, level, xp, minionsKilled, jungleMinionsKilled
extract match data <- function(match id, server) {</pre>
  if (!is.na(match id)) {
    if (server == "LA1") {
      fromJSON(paste0(servers[1],by_match,match_id,"?api_key=",key))[[1]][[1]]
    } else if (server == "NA1") {
      fromJSON(paste0(servers[2],by_match,match_id,"?api_key=",key))[[1]][[1]]
    }
 } else {
    NA
  }
}
#filtering games on the blue side and adding general info
blue_side <- scrims %>% filter(lado == "azul")
blue_side_games <- map2(.x = blue_side_match_id, .y = blue_side_server, .f = extract_match_data) %>%
 map(~.[1:5])
#filtering games on the red side and adding general info
red side <- scrims %>% filter(lado == "rojo")
red_side_games <- map2(red_side$match_id, red_side$server, extract_match_data) %>%
 map(~.[6:10])
#mixing all the games regardless of the participant id, all these are our games
our_games <- purrr::flatten(list(blue_side_games, red_side_games))</pre>
names(our_games) <- paste("game",1:length(our_games))</pre>
#Flattened the positions data frame inside each game
for (i in seq_along(our_games)) {
  our_games[[i]] <- our_games[[i]] %>% map(jsonlite::flatten)
}
#This function selects only the useful information for the given player
info_selector <- function(filtered_games, player_number) {</pre>
  map(filtered_games,player_number) %>%
    map(~select(., -teamScore, -dominionScore))
}
#These are the matches separated by player with only the useful info selected
top <- info_selector(our_games, 1)</pre>
jungle <- info_selector(our_games, 2)</pre>
mid <- info_selector(our_games, 3)
adc <- info_selector(our_games, 4)</pre>
support <- info_selector(our_games, 5)</pre>
```

```
#A function to get the relevant lane cs for each player
get_lane_cs <- function(games, player) {</pre>
  games %>% map(~map(.x,"minionsKilled")) %>%
    map(player) %>%
    map(possibly(~data.frame(min5 = .x[[6]], min10 = .x[[11]], min15 = .x[[16]],
                              min20 = .x[[21]], lastminute = last(.x)),
                 otherwise = data.frame(min5 = NA, min10 = NA, min15 = NA, min20 = NA, lastminute = NA)
}
#Subsetting the cs for each player to study
top_cs <- get_lane_cs(our_games, 1)</pre>
mid_cs <- get_lane_cs(our_games, 3)</pre>
adc_cs <- get_lane_cs(our_games, 4)</pre>
#Building the data frame to use with gqplot2
cs_10 <- tibble(games = names(top_cs), Sander = map_dbl(top_cs, "min10"),</pre>
                 Hobbler = map_dbl(mid_cs, "min10"), Kindle = map_dbl(adc_cs, "min10")) %>%
  gather(player, cs, -games)
```

Gráficas

Cada barra de longitud 1 en cantidad representa un juego en el periodo de scrims en el que alcanzó el cs al minuto 10 correspondiente en CreepScore. El color de las barras representa los jugadores de interés.





Guardar los scrims de enero

Utilizando el siguiente código se guarda el timeline en los scrims del mes enero en formato JSON

toJSON(our_games) %>% write("enero_timeline.json")