

# **DSC 101 PROJECT**

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#### **ACHIEVEMENTS**

• What did we want to achieve in the last sprint?

After coming up with our plan, and method in the past sprints, it was time to actually execute it. We wanted to write all the code and find out the relevant stats for each player.

• What did we achieve in the last sprint?

We achieved loading the data set, refining the data, splitting it up into three separate data frames (attackers, midfielders, and defenders), and keeping only the relevant statistics for each category. We also found the results of who had the best stats in each category. After figuring out this "formula", it will be easier to do it for the rest of the data set we haven't finished yet.

#### **ACHIEVEMENTS**

• What are we especially proud of in the last sprint?

We're especially proud of getting to where we are, it seems daunting at first, and it's one thing to do it on DataCamp but another to do it on your own with no prompts. It went better than expected!

#### **PROBLEMS WE RAN INTO?**

• What did we not achieve in the last sprint?

We didn't get to plotting the EPL results, or finding all the stats for the MLS. (Now that we figured out all the trials and errors with the EPL dataset, it should be much easier and faster to do the American league one.

• What are we going to do different in the next sprint?

In the next sprint, we'll be more organized, and now that we know what to do, be more efficient.

## **CRITERIA FOR PLAYERS STATS**

#### **Defense:**

- challenges won
- ball interceptions
- tackles
- ball recoveries

#### Midfield:

- assists
- accurate pass percentage
- key passes
- dribbles

#### Forward:

- expected goals
- goals
- percentage of shots on target
- dribbles



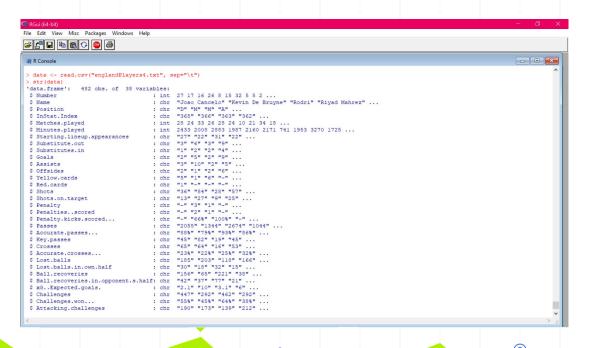
## **ERRORS WE RAN INTO**

Started out in R. For some reason, had a lot of trouble trying to read in the file. It took a lot of trying different things to find out what worked.

```
File Edit View Misc Packages Windows Help
cannot open file 'englandPlayers.txt': No such file or directory
  data = read.table("englandPlayers.txt", header = TRUE)
  Error in scan(file = file, what = what, sep = sep, quote = quote, dec = dec.
   line 1 did not have 66 elements
   data = read.table("englandPlayers.txt", header = TRUE)
 Error in scan(file = file, what = what, sep = sep, quote = quote, dec = dec,
   data = read.table("englandPlayers1.txt", header = TRUE)
  Error in scan(file = file, what = what, sep = sep, quote = quote, dec = dec, :
   data = read.table("englandPlayers1.txt", header = TRUE, sep="\t")
  Error in scan(file = file, what = what, sep = sep, quote = quote, dec = dec,
   line 1 did not have 64 elements
   data = read.table("englandPlayers3.csv", header = TRUE)
  Error in read.table("englandPlayers3.csv", header = TRUE) :
   more columns than column names
   data = read.table("englandPlayers3.csv", header = TRUE)
  Error in read.table("englandPlayers3.csv", header = TRUE) :
   more columns than column names
   data = read.table("englandPlayers4.csv", header = TRUE)
  Error in read.table("englandPlayers4.csv", header = TRUE)
   more columns than column names
```

```
File Edit View Misc Packages Windows Help
Error in file(file, "rt") : cannot open the connection
 In addition: Warning message:
 In file(file, "rt") :
  cannot open file 'englandPlayers.txt': No such file or directory
 [1] "C:/Users/HP/Documents"
 data = read.table("englandPlayers.txt", header = TRUE)
 Error in scan(file = file, what = what, sep = sep, quote = quote, dec = dec,
  line 1 did not have 66 elements
  data = read.table("englandPlayers.txt", header = TRUE)
 Error in scan(file = file, what = what, sep = sep, quote = quote, dec = dec, :
  line 1 did not have 66 elements
  data = read.table("englandPlayers1.txt", header = TRUE)
 Error in scan(file = file, what = what, sep = sep, quote = quote, dec = dec, :
  line 1 did not have 66 elements
  data = read.table("englandPlayers1.txt", header = TRUE, sep="\t")
 Error in scan(file = file, what = what, sep = sep, quote = quote, dec = dec, :
  line 1 did not have 64 elements
  data = read.table("englandPlayers1.txt", header = TRUE, sep="\t", strip.white$
 Error in scan(file = file, what = what, sep = sep, quote = quote, dec = dec,
  line 1 did not have 64 elements
  data = read.table("englandPlayers3.csv", header = TRUE)
 Error in read.table("englandPlayers3.csv", header = TRUE) :
  more columns than column names
```

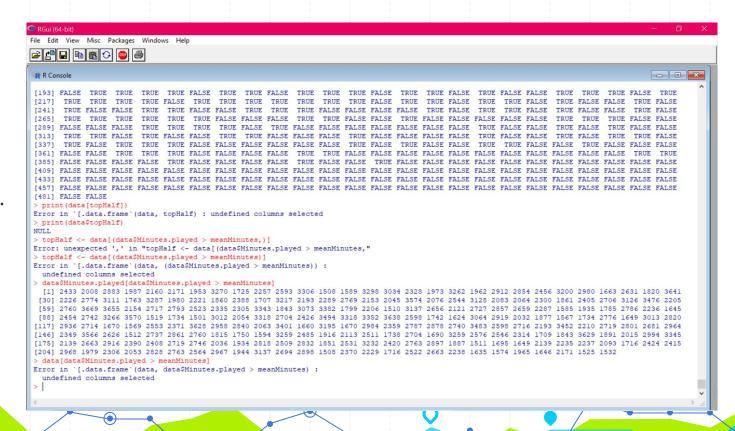
#### cont.

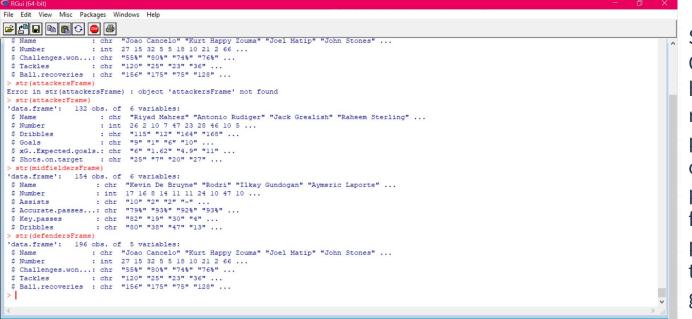


Finally got it to work!

Now time for working with the actual data...

Next came trying to extract values. We only wanted the players that have played more than the avg amount of minutes played, a.k.a. the top half. We remembered we did something like this in class (with hotdogs...?)





Separating the values. One logic error we had here is that we realized we took players from our big original dataset and put them into the data frames for each position, instead of the refined top half group of players. This was later fixed.

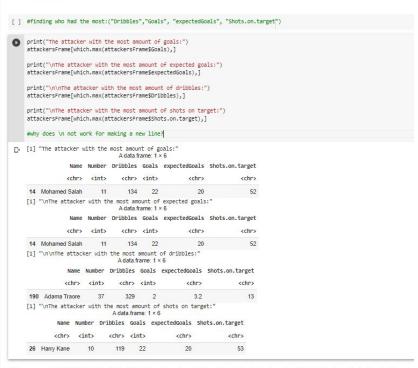
#### -moved everything into collaboratory

## **RESULTS**

-here are some results we've gotten:



#### - ATTACKERS



Here we see that Mo Salah had both the highest number of expected goals, and the highest number of goals. So he really lived up to his expectations.

## Questions for the product owner...

Are these results so far what you expected?

What's your favorite color so we can make that the color of one of our histograms?:)

## Questions for other team members...

What do you think was the hardest part about all the coding done so far in this project?

How long did it take for you to load in the data set? Did it go smoother for you?

## Stay tuned for the next sprint review!