## teams-cpmr

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```
## Installing package into '/Users/runner/work/_temp/Library'
## (as 'lib' is unspecified)
##
## The downloaded binary packages are in
## /var/folders/24/8k48j16d249_n_qfxws16xvm0000gn/T//RtmpjIMeAp/downloaded_packages
## -- Attaching packages ------ 1.3.2 --
## v ggplot2 3.3.6 v purrr 0.3.5
## v tibble 3.1.8
                    v dplyr 1.0.10
## v tidyr 1.2.1
                    v stringr 1.4.1
          2.1.3
                    v forcats 0.5.2
## v readr
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
raw_data <- read.csv("../scraped-data/discipline.csv")</pre>
raw_data <- as_tibble(raw_data)</pre>
raw_columns <- raw_data %>% select(Team, Matches, Yellow.Cards)
head(raw_columns)
## # A tibble: 6 x 3
## Team
                             Matches Yellow.Cards
    <chr>
                               <int> <int>
                               13
## 1 " Wolverhampton Wanderers "
                                              24
## 2 " Nottingham Forest "
                                  13
                                              33
## 3 " Aston Villa "
                                               27
                                  13
## 4 " West Ham United "
                                  13
                                               15
## 5 " Southampton "
                                   13
                                               21
## 6 " Everton "
                                   13
                                               33
new_table <- raw_columns %>% mutate(yellow_card_ratio = Yellow.Cards / Matches)
new_table <- new_table[order(-new_table$yellow_card_ratio),]</pre>
head(new_table)
## # A tibble: 6 x 4
##
    Team
                         Matches Yellow.Cards yellow_card_ratio
    <chr>
                         <int> <int> <dbl>
## 1 " Manchester United "
                            12
                                        33
                                                       2.75
```

```
## 2 " Nottingham Forest "
                            13
                                            33
                                                           2.54
## 3 " Everton "
                               13
                                            33
                                                           2.54
## 4 " Fulham "
                               13
                                            31
                                                           2.38
## 5 " Crystal Palace "
                               12
                                            28
                                                           2.33
## 6 " Aston Villa "
                               13
                                            27
                                                           2.08
data <- new_table %>% select(Team, yellow_card_ratio)
head(data)
## # A tibble: 6 x 2
## Team
                          yellow_card_ratio
##
   <chr>
                                     <dbl>
## 1 " Manchester United "
                                       2.75
## 2 " Nottingham Forest "
                                       2.54
## 3 " Everton "
                                       2.54
## 4 " Fulham "
                                       2.38
## 5 " Crystal Palace "
                                       2.33
```

2.08

## 6 " Aston Villa "