

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/24/8k48jl6d249_n_qfxwsl6xvm0000gn/T//RtmpA4WXjK/downloaded_packages

## -- Attaching packages ----- tidyverse 1.3.2 --
## v ggplot2 3.3.6      v purrr 0.3.4
## v tibble 3.1.8       v dplyr 1.0.10
## v tidyr 1.2.1        v stringr 1.4.1
## v readr 2.1.2        v forcats 0.5.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()
```

```
raw_data <- read.csv("../scraped-data/discipline.csv")
raw_data <- as_tibble(raw_data)
```

```
raw_columns <- raw_data %>% select(Team, Matches, Yellow.Cards)
head(raw_columns)
```

```
## # A tibble: 6 x 3
##   Team                Matches Yellow.Cards
##   <chr>              <int>      <int>
## 1 " Aston Villa "      7          18
## 2 " Nottingham Forest " 7          20
## 3 " Southampton "      7           9
## 4 " Fulham "          7          21
## 5 " Wolverhampton Wanderers " 6          12
## 6 " West Ham United "    6           7
```

```
new_table <- raw_columns %>% mutate(yellow_card_ratio = Yellow.Cards / Matches)
new_table <- new_table[order(-new_table$yellow_card_ratio),]
head(new_table)
```

```
## # A tibble: 6 x 4
##   Team                Matches Yellow.Cards yellow_card_ratio
##   <chr>              <int>      <int>      <dbl>
## 1 " Manchester United "    6          20          3.33
```

```
## 2 " Fulham " 7 21 3
## 3 " Nottingham Forest " 7 20 2.86
## 4 " Aston Villa " 7 18 2.57
## 5 " Everton " 6 14 2.33
## 6 " Tottenham Hotspur " 6 14 2.33
```

```
data <- new_table %>% select(Team, yellow_card_ratio)
head(data)
```

```
## # A tibble: 6 x 2
##   Team                yellow_card_ratio
##   <chr>                <dbl>
## 1 " Manchester United " 3.33
## 2 " Fulham " 3
## 3 " Nottingham Forest " 2.86
## 4 " Aston Villa " 2.57
## 5 " Everton " 2.33
## 6 " Tottenham Hotspur " 2.33
```

```
write.csv(data, "../cleaned-data/teams-cpmr.csv", row.names = FALSE)
```