

# 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//RtmpNtfE1W/downloaded_packages
```

```
## -- Attaching packages ----- tidyverse 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
## v readr   2.1.3      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 " Wolverhampton Wanderers "      11         19
## 2 " Nottingham Forest "          11         30
## 3 " Everton "                  11         29
## 4 " West Ham United "           11         12
## 5 " Southampton "              11         16
## 6 " Bournemouth "             11         17
```

```
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 "      10         28           2.8
```

```
## 2 " Fulham " 10 28 2.8
## 3 " Nottingham Forest " 11 30 2.73
## 4 " Everton " 11 29 2.64
## 5 " Aston Villa " 10 23 2.3
## 6 " Leeds United " 9 19 2.11
```

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

```
## # A tibble: 6 x 2
##   Team                yellow_card_ratio
##   <chr>                <dbl>
## 1 " Manchester United " 2.8
## 2 " Fulham " 2.8
## 3 " Nottingham Forest " 2.73
## 4 " Everton " 2.64
## 5 " Aston Villa " 2.3
## 6 " Leeds United " 2.11
```

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