

referees-cpmr

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```
## Installing package into '/Users/runner/work/_temp/Library'
## (as 'lib' is unspecified)

##
##   There is a binary version available but the source version is later:
##       binary source needs_compilation
## rmarkdown   2.17   2.18                FALSE

## installing the source package 'rmarkdown'

## -- Attaching packages ----- tidyverse 1.3.2 --
## v ggplot2 3.4.0      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/referees.csv")
raw_data <- as_tibble(raw_data)
```

```
head(raw_data)
```

```
## # A tibble: 6 x 4
##   Referee      Matches Red.cards Yellow.cards
##   <chr>      <int>    <int>      <int>
## 1 " Michael Oliver "      12         1        39
## 2 " Anthony Taylor "      12         5        44
## 3 " Paul Tierney "       11         2        43
## 4 " Simon Hooper "        9         0        26
## 5 " Andy Madley "         9         0        25
## 6 " Stuart Attwell "       8         2        24
```

```
raw_columns <- raw_data %>% select(Referee, Matches, Yellow.cards)
head(raw_columns)
```

```
## # A tibble: 6 x 3
##   Referee      Matches Yellow.cards
##   <chr>      <int>      <int>
## 1 " Michael Oliver "      12         39
## 2 " Anthony Taylor "      12         44
## 3 " Paul Tierney "       11         43
## 4 " Simon Hooper "        9         26
## 5 " Andy Madley "         9         25
## 6 " Stuart Attwell "       8         24
```

```
## 1 " Michael Oliver "      12      39
## 2 " Anthony Taylor "      12      44
## 3 " Paul Tierney "        11      43
## 4 " Simon Hooper "        9       26
## 5 " Andy Madley "         9       25
## 6 " Stuart Attwell "      8       24
```

```
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
##   Referee      Matches Yellow.cards yellow_card_ratio
##   <chr>      <int>      <int>      <dbl>
## 1 " Robert Madley "      1         6         6
## 2 " Michael Salisbury "  6        31        5.17
## 3 " Craig Pawson "      7        31        4.43
## 4 " Peter Bankes "      6        26        4.33
## 5 " John Brooks "       6        24         4
## 6 " Jarred Gillett "    6        24         4
```

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

```
## # A tibble: 6 x 2
##   Referee      yellow_card_ratio
##   <chr>      <dbl>
## 1 " Robert Madley "      6
## 2 " Michael Salisbury "  5.17
## 3 " Craig Pawson "      4.43
## 4 " Peter Bankes "      4.33
## 5 " John Brooks "       4
## 6 " Jarred Gillett "    4
```

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