

EuroVsCopa

Collin

2025-02-18

```
data <- read.csv("C:/Users/cstra/data/EuroVsCopa.csv")
View(data)
summary(data)
```

```
##      stadium      attendance      home_team      away_team
## Length:81      Length:81      Length:81      Length:81
## Class :character Class :character Class :character Class :character
## Mode  :character Mode  :character Mode  :character Mode  :character
##
##
##
##      home_goals      away_goals      Home.Expected.goals.xG. Home.Total.shots
## Min.   :0.000      Min.   :0.0000      Min.   :0.120      Min.   : 2
## 1st Qu.:0.000      1st Qu.:0.0000      1st Qu.:0.760      1st Qu.: 8
## Median :1.000      Median :1.0000      Median :1.110      Median :12
## Mean   :1.309      Mean   :0.9383      Mean   :1.344      Mean   :13
## 3rd Qu.:2.000      3rd Qu.:1.0000      3rd Qu.:1.770      3rd Qu.:18
## Max.   :5.000      Max.   :4.0000      Max.   :3.360      Max.   :35
## Home.Shots.on.target Home.Big.chances Home.Big.chances.missed
## Min.   : 0.000      Min.   :0.000      Min.   :0.000
## 1st Qu.: 3.000      1st Qu.:1.000      1st Qu.:0.000
## Median : 4.000      Median :2.000      Median :1.000
## Mean   : 4.531      Mean   :2.272      Mean   :1.543
## 3rd Qu.: 6.000      3rd Qu.:3.000      3rd Qu.:2.000
## Max.   :13.000      Max.   :9.000      Max.   :7.000
## Home.Accurate.passes Home.Fouls.committed Home.Corners Home.Total.shots.
## Length:81      Min.   : 4.00      Min.   : 0      Min.   : 2
## Class :character 1st Qu.: 9.00      1st Qu.: 3      1st Qu.: 8
## Mode  :character Median :12.00      Median : 4      Median :12
##                      Mean  :12.09      Mean   : 5      Mean   :13
##                      3rd Qu.:15.00      3rd Qu.: 6      3rd Qu.:18
##                      Max.   :26.00      Max.   :13      Max.   :35
## Home.Shots.off.target Home.Shots.on.target. Home.Blocked.shots
## Min.   : 0.000      Min.   : 0.000      Min.   : 0.000
## 1st Qu.: 3.000      1st Qu.: 3.000      1st Qu.: 2.000
## Median : 4.000      Median : 4.000      Median : 3.000
## Mean   : 4.728      Mean   : 4.531      Mean   : 3.741
## 3rd Qu.: 6.000      3rd Qu.: 6.000      3rd Qu.: 5.000
## Max.   :16.000      Max.   :13.000      Max.   :12.000
## Home.Hit.woodwork Home.Shots.inside.box Home.Shots.outside.box
## Min.   :0.0000      Min.   : 1.000      Min.   : 0.000
```

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## 1st Qu.:0.0000    1st Qu.: 4.000    1st Qu.: 3.000
## Median :0.0000    Median : 7.000    Median : 5.000
## Mean   :0.2469    Mean   : 7.667    Mean   : 5.333
## 3rd Qu.:0.0000    3rd Qu.:10.000    3rd Qu.: 7.000
## Max.   :2.0000    Max.   :20.000    Max.   :15.000
## Home.Expected.goals..xG. Home.xG.open.play Home.xG.set.play
## Min.   :0.120     Min.   :0.0200    Min.   :0.0000
## 1st Qu.:0.760     1st Qu.:0.5100    1st Qu.:0.0900
## Median :1.110     Median :0.7100    Median :0.2100
## Mean   :1.344     Mean   :0.9202    Mean   :0.3014
## 3rd Qu.:1.770     3rd Qu.:1.3500    3rd Qu.:0.3900
## Max.   :3.360     Max.   :2.6600    Max.   :1.3500
## Home.Non.penalty.xG Home.xG.on.target..xGOT. Home.Passes
## Min.   :0.120     Min.   :0.040     Min.   :229.0
## 1st Qu.:0.720     1st Qu.:0.580     1st Qu.:374.0
## Median :1.010     Median :1.210     Median :457.0
## Mean   :1.218     Mean   :1.445     Mean   :476.8
## 3rd Qu.:1.660     3rd Qu.:2.100     3rd Qu.:562.0
## Max.   :3.360     Max.   :5.090     Max.   :869.0
## Home.Accurate.passes.1 Home.Own.half Home.Opposition.half
## Length:81         Min.   : 75.0    Min.   : 56.0
## Class :character   1st Qu.:157.0    1st Qu.:116.0
## Mode  :character   Median :192.0    Median :180.0
##                   Mean   :200.1    Mean   :206.5
##                   3rd Qu.:232.0    3rd Qu.:277.0
##                   Max.   :457.0    Max.   :582.0
## Home.Accurate.long.balls Home.Accurate.crosses Home.Throws
## Length:81         Length:81         Min.   : 8.00
## Class :character   Class :character   1st Qu.:14.00
## Mode  :character   Mode  :character   Median :18.00
##                   Mean   :18.12
##                   3rd Qu.:21.00
##                   Max.   :41.00
## Home.Touches.in.opposition.box Home.Offsides Home.Yellow.cards
## Min.   : 4.00     Min.   :0.000    Min.   :0.000
## 1st Qu.:13.00     1st Qu.:1.000    1st Qu.:1.000
## Median :21.00     Median :2.000    Median :2.000
## Mean   :23.02     Mean   :1.802    Mean   :1.938
## 3rd Qu.:30.00     3rd Qu.:3.000    3rd Qu.:3.000
## Max.   :57.00     Max.   :5.000    Max.   :6.000
## Home.Red.cards Home.Tackles.won Home.Interceptions Home.Blocks
## Min.   :0.0000    Length:81         Min.   : 1.000    Min.   :0.000
## 1st Qu.:0.0000    Class :character   1st Qu.: 6.000    1st Qu.:1.000
## Median :0.0000    Mode  :character   Median : 7.000    Median :3.000
## Mean   :0.1111         Mean   : 7.494    Mean   :3.062
## 3rd Qu.:0.0000         3rd Qu.:10.000    3rd Qu.:5.000
## Max.   :2.0000         Max.   :15.000    Max.   :8.000
## Home.Clearances Home.Keeper.saves Home.Duels.won Home.Ground.duels.won
## Min.   : 5.00    Min.   : 0.000    Min.   :22.00    Length:81
## 1st Qu.:13.00    1st Qu.: 2.000    1st Qu.:40.00    Class :character
## Median :18.00    Median : 3.000    Median :48.00    Mode  :character
## Mean   :19.16    Mean   : 2.728    Mean   :49.51
## 3rd Qu.:24.00    3rd Qu.: 3.000    3rd Qu.:57.00
## Max.   :45.00    Max.   :11.000    Max.   :83.00

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```

## Home.Aerial.duels.won Home.Successful.dribbles Away.Expected.goals.xG.
## Length:81          Length:81          Min.    :0.020
## Class :character    Class :character    1st Qu.:0.570
## Mode  :character    Mode  :character    Median :1.160
##                                     Mean   :1.196
##                                     3rd Qu.:1.560
##                                     Max.    :3.740
## Away.Total.shots Away.Shots.on.target Away.Big.chances Away.Big.chances.missed
## Min.    : 1.00    Min.    : 0.000    Min.    :0.000    Min.    :0.000
## 1st Qu.: 9.00    1st Qu.: 2.000    1st Qu.:1.000    1st Qu.:1.000
## Median :11.00    Median : 3.000    Median :2.000    Median :1.000
## Mean   :11.75    Mean   : 3.667    Mean   :2.123    Mean   :1.506
## 3rd Qu.:15.00    3rd Qu.: 5.000    3rd Qu.:3.000    3rd Qu.:2.000
## Max.    :27.00    Max.    :12.000    Max.    :6.000    Max.    :5.000
## Away.Accurate.passes Away.Fouls.committed Away.Corners    Away.Total.shots.
## Length:81          Min.    : 4.00    Min.    : 0.000    Min.    : 1.00
## Class :character    1st Qu.: 8.00    1st Qu.: 2.000    1st Qu.: 9.00
## Mode  :character    Median :12.00    Median : 4.000    Median :11.00
##                                     Mean   :11.67    Mean   : 4.358    Mean   :11.75
##                                     3rd Qu.:14.00    3rd Qu.: 6.000    3rd Qu.:15.00
##                                     Max.    :22.00    Max.    :13.000    Max.    :27.00
## Away.Shots.off.target Away.Shots.on.target. Away.Blocked.shots
## Min.    : 0.000    Min.    : 0.000    Min.    :0.000
## 1st Qu.: 3.000    1st Qu.: 2.000    1st Qu.:2.000
## Median : 5.000    Median : 3.000    Median :3.000
## Mean   : 4.975    Mean   : 3.667    Mean   :3.111
## 3rd Qu.: 7.000    3rd Qu.: 5.000    3rd Qu.:5.000
## Max.    :14.000    Max.    :12.000    Max.    :8.000
## Away.Hit.woodwork Away.Shots.inside.box Away.Shots.outside.box
## Min.    :0.000    Min.    : 0.000    Min.    : 0.00
## 1st Qu.:0.000    1st Qu.: 4.000    1st Qu.: 3.00
## Median :0.000    Median : 7.000    Median : 4.00
## Mean   :0.358    Mean   : 7.173    Mean   : 4.58
## 3rd Qu.:1.000    3rd Qu.:10.000    3rd Qu.: 6.00
## Max.    :2.000    Max.    :17.000    Max.    :13.00
## Away.Expected.goals..xG. Away.xG.open.play Away.xG.set.play
## Min.    :0.020    Min.    :0.0000    Min.    :0.0000
## 1st Qu.:0.570    1st Qu.:0.3200    1st Qu.:0.0500
## Median :1.160    Median :0.7100    Median :0.1800
## Mean   :1.196    Mean   :0.8388    Mean   :0.2711
## 3rd Qu.:1.560    3rd Qu.:1.3100    3rd Qu.:0.3500
## Max.    :3.740    Max.    :2.4600    Max.    :1.8700
## Away.Non.penalty.xG Away.xG.on.target..xGOT. Away.Passes
## Min.    :0.020    Min.    :0.000    Min.    :192.0
## 1st Qu.:0.540    1st Qu.:0.390    1st Qu.:329.0
## Median :1.100    Median :1.130    Median :409.0
## Mean   :1.108    Mean   :1.164    Mean   :423.9
## 3rd Qu.:1.510    3rd Qu.:1.640    3rd Qu.:517.0
## Max.    :3.070    Max.    :4.000    Max.    :690.0
## Away.Accurate.passes.1 Away.Own.half Away.Opposition.half
## Length:81          Min.    : 67.0    Min.    : 33.0
## Class :character    1st Qu.:143.0    1st Qu.:102.0
## Mode  :character    Median :181.0    Median :149.0
##                                     Mean   :187.4    Mean   :165.9

```

```
##          3rd Qu.:233.0  3rd Qu.:228.0
##          Max.    :302.0  Max.    :513.0
## Away.Accurate.long.balls Away.Accurate.crosses Away.Throws
## Length:81          Length:81          Min.    : 6.00
## Class :character    Class :character    1st Qu.:13.00
## Mode  :character    Mode  :character    Median :17.00
##                                     Mean  :17.25
##                                     3rd Qu.:22.00
##                                     Max.   :29.00
## Away.Touches.in.opposition.box Away.Offsides Away.Yellow.cards
## Min.    : 1.00          Min.    :0.000 Min.    : 0.000
## 1st Qu.:13.00          1st Qu.:0.000 1st Qu.: 1.000
## Median :19.00          Median :1.000 Median : 2.000
## Mean   :20.11          Mean   :1.358 Mean   : 2.198
## 3rd Qu.:26.00          3rd Qu.:2.000 3rd Qu.: 3.000
## Max.    :50.00          Max.    :6.000 Max.    :11.000
## Away.Red.cards Away.Tackles.won Away.Interceptions Away.Blocks
## Min.    :0.00000 Length:81          Min.    : 1.000 Min.    : 0.000
## 1st Qu.:0.00000 Class :character 1st Qu.: 5.000 1st Qu.: 2.000
## Median :0.00000 Mode  :character Median : 7.000 Median : 3.000
## Mean   :0.06173          Mean   : 7.531 Mean   : 3.654
## 3rd Qu.:0.00000          3rd Qu.: 9.000 3rd Qu.: 5.000
## Max.    :1.00000          Max.    :16.000 Max.    :11.000
## Away.Clearances Away.Keeper.saves Away.Duels.won Away.Ground.duels.won
## Min.    : 4.00 Min.    :0.000 Min.    :26.00 Length:81
## 1st Qu.:15.00 1st Qu.:2.000 1st Qu.:41.00 Class :character
## Median :19.00 Median :3.000 Median :47.00 Mode  :character
## Mean   :20.37 Mean   :3.235 Mean   :48.49
## 3rd Qu.:26.00 3rd Qu.:4.000 3rd Qu.:56.00
## Max.    :55.00 Max.    :9.000 Max.    :73.00
## Away.Aerial.duels.won Away.Successful.dribbles
## Length:81          Length:81
## Class :character    Class :character
## Mode  :character    Mode  :character
##
##
##
```

```
data$goals <- data$home_goals + data$away_goals
data$XG <- data$Home.Expected.goals.xG. + data$Away.Expected.goals.xG.
data$shots <- data$Home.Total.shots + data$Away.Total.shots
data$fouls <- data$Home.Fouls.committed + data$Away.Fouls.committed
data$yellows <- data$Home.Yellow.cards + data$Away.Yellow.cards
data$reds <- data$Home.Red.cards + data$Away.Red.cards
data$passes <- data$Home.Passes + data$Away.Passes
data$passes.own.half <- data$Home.Own.half + data$Away.Own.half
data$passes.opp.half <- data$Home.Opposition.half + data$Away.Opposition.half
```

```
euro <- data[1:51,]
copa <- data[52:81,]
View(euro)
View(copa)
summary(euro)
```

```

##      stadium      attendance      home_team      away_team
## Length:51      Length:51      Length:51      Length:51
## Class :character Class :character Class :character Class :character
## Mode  :character Mode  :character Mode  :character Mode  :character
##
##
##
##      home_goals      away_goals      Home.Expected.goals.xG. Home.Total.shots
## Min.   :0.000      Min.   :0.00      Min.   :0.170      Min.   : 4.00
## 1st Qu.:0.500      1st Qu.:0.00      1st Qu.:0.780      1st Qu.: 9.50
## Median :1.000      Median :1.00      Median :1.320      Median :13.00
## Mean   :1.275      Mean   :1.02      Mean   :1.376      Mean   :13.37
## 3rd Qu.:2.000      3rd Qu.:1.00      3rd Qu.:1.765      3rd Qu.:17.50
## Max.   :5.000      Max.   :3.00      Max.   :3.360      Max.   :35.00
## Home.Shots.on.target Home.Big.chances Home.Big.chances.missed
## Min.   : 0.000      Min.   :0.000      Min.   :0.000
## 1st Qu.: 3.000      1st Qu.:1.000      1st Qu.:1.000
## Median : 4.000      Median :2.000      Median :1.000
## Mean   : 4.725      Mean   :2.392      Mean   :1.706
## 3rd Qu.: 6.500      3rd Qu.:4.000      3rd Qu.:3.000
## Max.   :13.000      Max.   :6.000      Max.   :6.000
## Home.Accurate.passes Home.Fouls.committed Home.Corners      Home.Total.shots.
## Length:51      Min.   : 6.00      Min.   : 1.000      Min.   : 4.00
## Class :character 1st Qu.: 9.00      1st Qu.: 3.000      1st Qu.: 9.50
## Mode  :character Median :11.00      Median : 5.000      Median :13.00
##                      Mean   :11.61      Mean   : 5.333      Mean   :13.37
##                      3rd Qu.:14.00      3rd Qu.: 6.000      3rd Qu.:17.50
##                      Max.   :19.00      Max.   :13.000      Max.   :35.00
## Home.Shots.off.target Home.Shots.on.target. Home.Blocked.shots
## Min.   : 0.000      Min.   : 0.000      Min.   : 0.000
## 1st Qu.: 3.000      1st Qu.: 3.000      1st Qu.: 2.000
## Median : 4.000      Median : 4.000      Median : 3.000
## Mean   : 4.686      Mean   : 4.725      Mean   : 3.961
## 3rd Qu.: 5.500      3rd Qu.: 6.500      3rd Qu.: 6.000
## Max.   :16.000      Max.   :13.000      Max.   :11.000
## Home.Hit.woodwork Home.Shots.inside.box Home.Shots.outside.box
## Min.   :0.0000      Min.   : 1.000      Min.   : 0.000
## 1st Qu.:0.0000      1st Qu.: 5.000      1st Qu.: 4.000
## Median :0.0000      Median : 8.000      Median : 6.000
## Mean   :0.2745      Mean   : 7.765      Mean   : 5.608
## 3rd Qu.:0.0000      3rd Qu.:10.500      3rd Qu.: 7.000
## Max.   :2.0000      Max.   :20.000      Max.   :15.000
## Home.Expected.goals..xG. Home.xG.open.play Home.xG.set.play
## Min.   :0.170      Min.   :0.0700      Min.   :0.0000
## 1st Qu.:0.780      1st Qu.:0.5900      1st Qu.:0.0900
## Median :1.320      Median :0.7500      Median :0.2300
## Mean   :1.376      Mean   :0.9645      Mean   :0.3078
## 3rd Qu.:1.765      3rd Qu.:1.3500      3rd Qu.:0.4400
## Max.   :3.360      Max.   :2.6600      Max.   :1.0600
## Home.Non.penalty.xG Home.xG.on.target..xGOT. Home.Passes
## Min.   :0.170      Min.   :0.040      Min.   :229.0
## 1st Qu.:0.755      1st Qu.:0.815      1st Qu.:402.5
## Median :1.200      Median :1.330      Median :504.0
## Mean   :1.268      Mean   :1.562      Mean   :511.3

```

```

## 3rd Qu.:1.690      3rd Qu.:2.130      3rd Qu.:583.0
## Max. :3.360      Max. :5.090      Max. :869.0
## Home.Accurate.passes.1 Home.Own.half Home.Opposition.half
## Length:51      Min. : 75.0 Min. : 60.0
## Class :character 1st Qu.:171.0 1st Qu.:126.0
## Mode :character Median :212.0 Median :210.0
## Mean :209.8 Mean :234.7
## 3rd Qu.:233.5 3rd Qu.:306.5
## Max. :457.0 Max. :582.0
## Home.Accurate.long.balls Home.Accurate.crosses Home.Throws
## Length:51      Length:51      Min. : 8
## Class :character Class :character 1st Qu.:14
## Mode :character Mode :character Median :17
## Mean :17
## 3rd Qu.:20
## Max. :26
## Home.Touches.in.opposition.box Home.Offsides Home.Yellow.cards
## Min. :10.00      Min. :0.000 Min. :0.000
## 1st Qu.:13.00      1st Qu.:0.000 1st Qu.:1.000
## Median :21.00      Median :1.000 Median :2.000
## Mean :23.57      Mean :1.608 Mean :2.078
## 3rd Qu.:31.00      3rd Qu.:3.000 3rd Qu.:3.000
## Max. :57.00      Max. :5.000 Max. :6.000
## Home.Red.cards Home.Tackles.won Home.Interceptions Home.Blocks
## Min. :0.00000 Length:51      Min. : 1.000 Min. :0.000
## 1st Qu.:0.00000 Class :character 1st Qu.: 5.000 1st Qu.:2.000
## Median :0.00000 Mode :character Median : 6.000 Median :3.000
## Mean :0.05882      Mean : 6.882 Mean :3.471
## 3rd Qu.:0.00000      3rd Qu.: 8.000 3rd Qu.:5.000
## Max. :2.00000      Max. :15.000 Max. :8.000
## Home.Clearances Home.Keeper.saves Home.Duels.won Home.Ground.duels.won
## Min. : 5.00 Min. : 0.000 Min. :22.00 Length:51
## 1st Qu.:14.00 1st Qu.: 2.000 1st Qu.:37.00 Class :character
## Median :19.00 Median : 3.000 Median :44.00 Mode :character
## Mean :19.57 Mean : 2.784 Mean :44.94
## 3rd Qu.:24.50 3rd Qu.: 3.000 3rd Qu.:52.00
## Max. :45.00 Max. :11.000 Max. :83.00
## Home.Aerial.duels.won Home.Successful.dribbles Away.Expected.goals.xG.
## Length:51      Length:51      Min. :0.020
## Class :character Class :character 1st Qu.:0.740
## Mode :character Mode :character Median :1.180
## Mean :1.231
## 3rd Qu.:1.535
## Max. :3.070
## Away.Total.shots Away.Shots.on.target Away.Big.chances Away.Big.chances.missed
## Min. : 1.00 Min. : 0.000 Min. :0.000 Min. :0.000
## 1st Qu.: 9.00 1st Qu.: 3.000 1st Qu.:1.000 1st Qu.:1.000
## Median :12.00 Median : 4.000 Median :2.000 Median :1.000
## Mean :12.35 Mean : 3.745 Mean :2.157 Mean :1.471
## 3rd Qu.:15.00 3rd Qu.: 5.000 3rd Qu.:3.000 3rd Qu.:2.000
## Max. :27.00 Max. :12.000 Max. :6.000 Max. :4.000
## Away.Accurate.passes Away.Fouls.committed Away.Corners Away.Total.shots.
## Length:51      Min. : 5.00 Min. : 0.000 Min. : 1.00
## Class :character 1st Qu.: 8.00 1st Qu.: 2.000 1st Qu.: 9.00

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```

## Mode :character      Median :10.00      Median : 4.000      Median :12.00
##                      Mean :10.71      Mean : 4.686      Mean :12.35
##                      3rd Qu.:13.00      3rd Qu.: 7.000      3rd Qu.:15.00
##                      Max. :22.00      Max. :13.000      Max. :27.00
## Away.Shots.off.target Away.Shots.on.target. Away.Blocked.shots
## Min. : 1.000      Min. : 0.000      Min. :0.000
## 1st Qu.: 3.000      1st Qu.: 3.000      1st Qu.:2.000
## Median : 5.000      Median : 4.000      Median :3.000
## Mean : 5.176      Mean : 3.745      Mean :3.431
## 3rd Qu.: 7.000      3rd Qu.: 5.000      3rd Qu.:5.000
## Max. :14.000      Max. :12.000      Max. :8.000
## Away.Hit.woodwork Away.Shots.inside.box Away.Shots.outside.box
## Min. :0.0000      Min. : 1.000      Min. : 0.000
## 1st Qu.:0.0000      1st Qu.: 5.000      1st Qu.: 3.000
## Median :0.0000      Median : 8.000      Median : 4.000
## Mean :0.3922      Mean : 7.745      Mean : 4.608
## 3rd Qu.:1.0000      3rd Qu.:10.500      3rd Qu.: 6.000
## Max. :2.0000      Max. :17.000      Max. :13.000
## Away.Expected.goals..xG. Away.xG.open.play Away.xG.set.play
## Min. :0.020      Min. :0.0000      Min. :0.000
## 1st Qu.:0.740      1st Qu.:0.3950      1st Qu.:0.045
## Median :1.180      Median :0.8200      Median :0.140
## Mean :1.231      Mean :0.9051      Mean :0.252
## 3rd Qu.:1.535      3rd Qu.:1.3350      3rd Qu.:0.330
## Max. :3.070      Max. :2.4600      Max. :1.870
## Away.Non.penalty.xG Away.xG.on.target..xGOT. Away.Passes
## Min. :0.020      Min. :0.000      Min. :251.0
## 1st Qu.:0.560      1st Qu.:0.540      1st Qu.:364.0
## Median :1.140      Median :1.180      Median :453.0
## Mean :1.154      Mean :1.214      Mean :461.6
## 3rd Qu.:1.510      3rd Qu.:1.770      3rd Qu.:567.5
## Max. :3.070      Max. :4.000      Max. :690.0
## Away.Accurate.passes.1 Away.Own.half Away.Opposition.half
## Length:51      Min. : 91.0      Min. : 33.0
## Class :character      1st Qu.:168.5      1st Qu.:113.0
## Mode :character      Median :210.0      Median :165.0
##                      Mean :203.6      Mean :189.2
##                      3rd Qu.:243.0      3rd Qu.:264.0
##                      Max. :302.0      Max. :513.0
## Away.Accurate.long.balls Away.Accurate.crosses Away.Throws
## Length:51      Length:51      Min. : 8.00
## Class :character      Class :character      1st Qu.:12.00
## Mode :character      Mode :character      Median :16.00
##                      Mean :16.14
##                      3rd Qu.:18.50
##                      Max. :29.00
## Away.Touches.in.opposition.box Away.Offsides Away.Yellow.cards
## Min. : 2.0      Min. :0.000      Min. : 0.000
## 1st Qu.:12.5      1st Qu.:0.000      1st Qu.: 1.000
## Median :19.0      Median :1.000      Median : 2.000
## Mean :21.1      Mean :1.529      Mean : 2.333
## 3rd Qu.:28.5      3rd Qu.:2.000      3rd Qu.: 3.000
## Max. :50.0      Max. :6.000      Max. :11.000
## Away.Red.cards      Away.Tackles.won      Away.Interceptions      Away.Blocks

```

```

## Min. :0.00000 Length:51 Min. : 1.000 Min. : 0.000
## 1st Qu.:0.00000 Class :character 1st Qu.: 5.000 1st Qu.: 2.000
## Median :0.00000 Mode :character Median : 7.000 Median : 3.000
## Mean :0.03922 Mean : 7.039 Mean : 3.922
## 3rd Qu.:0.00000 3rd Qu.: 9.000 3rd Qu.: 6.000
## Max. :1.00000 Max. :16.000 Max. :11.000
## Away.Clearances Away.Keeper.saves Away.Duels.won Away.Ground.duels.won
## Min. : 4.0 Min. :0.00 Min. :26.00 Length:51
## 1st Qu.:15.0 1st Qu.:2.00 1st Qu.:40.00 Class :character
## Median :19.0 Median :3.00 Median :44.00 Mode :character
## Mean :21.1 Mean :3.49 Mean :45.96
## 3rd Qu.:26.5 3rd Qu.:5.00 3rd Qu.:50.00
## Max. :55.0 Max. :9.00 Max. :72.00
## Away.Aerial.duels.won Away.Successful.dribbles goals XG
## Length:51 Length:51 Min. :0.000 Min. :0.700
## Class :character Class :character 1st Qu.:1.500 1st Qu.:1.985
## Mode :character Mode :character Median :2.000 Median :2.400
## Mean :2.294 Mean :2.606
## 3rd Qu.:3.000 3rd Qu.:3.345
## Max. :6.000 Max. :4.390
## shots fouls yellows reds
## Min. :11.00 Min. :14.00 Min. : 1.000 Min. :0.00000
## 1st Qu.:22.00 1st Qu.:17.50 1st Qu.: 3.000 1st Qu.:0.00000
## Median :26.00 Median :22.00 Median : 4.000 Median :0.00000
## Mean :25.73 Mean :22.31 Mean : 4.412 Mean :0.09804
## 3rd Qu.:29.00 3rd Qu.:25.50 3rd Qu.: 5.000 3rd Qu.:0.00000
## Max. :41.00 Max. :39.00 Max. :16.000 Max. :2.00000
## passes passes.own.half passes.opp.half
## Min. : 741.0 Min. :275.0 Min. :219.0
## 1st Qu.: 873.5 1st Qu.:359.0 1st Qu.:353.0
## Median : 961.0 Median :401.0 Median :414.0
## Mean : 972.9 Mean :413.4 Mean :423.9
## 3rd Qu.:1041.5 3rd Qu.:476.5 3rd Qu.:497.5
## Max. :1455.0 Max. :685.0 Max. :683.0

```

summary(copa)

```

## stadium attendance home_team away_team
## Length:30 Length:30 Length:30 Length:30
## Class :character Class :character Class :character Class :character
## Mode :character Mode :character Mode :character Mode :character
##
##
## home_goals away_goals Home.Expected.goals.xG Home.Total.shots
## Min. :0.000 Min. :0.0 Min. :0.1200 Min. : 2.00
## 1st Qu.:0.000 1st Qu.:0.0 1st Qu.:0.7525 1st Qu.: 8.00
## Median :1.000 Median :1.0 Median :0.8800 Median :11.00
## Mean :1.367 Mean :0.8 Mean :1.2910 Mean :12.37
## 3rd Qu.:2.000 3rd Qu.:1.0 3rd Qu.:2.0775 3rd Qu.:17.75
## Max. :5.000 Max. :4.0 Max. :3.0200 Max. :24.00
## Home.Shots.on.target Home.Big.chances Home.Big.chances.missed
## Min. :1.0 Min. :0.000 Min. :0.000
## 1st Qu.:3.0 1st Qu.:1.000 1st Qu.:0.000

```



```

## Median :4.0          Median :1.500      Median :1.000
## Mean   :4.2          Mean   :2.067      Mean   :1.267
## 3rd Qu.:5.0          3rd Qu.:2.750      3rd Qu.:2.000
## Max.   :9.0          Max.   :9.000      Max.   :7.000
## Home.Accurate.passes Home.Fouls.committed Home.Corners Home.Total.shots.
## Length:30           Min.    : 4.00      Min.    :0.000  Min.    : 2.00
## Class :character     1st Qu.:10.25      1st Qu.:2.000  1st Qu.: 8.00
## Mode  :character     Median :12.00      Median :4.000  Median :11.00
##                               Mean   :12.90      Mean   :4.433  Mean   :12.37
##                               3rd Qu.:15.75      3rd Qu.:6.750  3rd Qu.:17.75
##                               Max.    :26.00      Max.    :9.000  Max.    :24.00
## Home.Shots.off.target Home.Shots.on.target. Home.Blocked.shots
## Min.    : 0.00      Min.    :1.0      Min.    : 0.000
## 1st Qu.: 2.25      1st Qu.:3.0      1st Qu.: 2.000
## Median : 5.00      Median :4.0      Median : 2.500
## Mean   : 4.80      Mean   :4.2      Mean   : 3.367
## 3rd Qu.: 7.00      3rd Qu.:5.0      3rd Qu.: 4.750
## Max.   :12.00      Max.   :9.0      Max.   :12.000
## Home.Hit.woodwork Home.Shots.inside.box Home.Shots.outside.box
## Min.    :0.0      Min.    : 1.0      Min.    : 0.000
## 1st Qu.:0.0      1st Qu.: 4.0      1st Qu.: 3.000
## Median :0.0      Median : 6.5      Median : 5.000
## Mean   :0.2      Mean   : 7.5      Mean   : 4.867
## 3rd Qu.:0.0      3rd Qu.:10.0      3rd Qu.: 6.000
## Max.   :1.0      Max.   :15.0      Max.   :11.000
## Home.Expected.goals..xG. Home.xG.open.play Home.xG.set.play
## Min.    :0.1200      Min.    :0.020      Min.    :0.0000
## 1st Qu.:0.7525      1st Qu.:0.480      1st Qu.:0.0925
## Median :0.8800      Median :0.675      Median :0.1650
## Mean   :1.2910      Mean   :0.845      Mean   :0.2903
## 3rd Qu.:2.0775      3rd Qu.:1.225      3rd Qu.:0.3575
## Max.   :3.0200      Max.   :2.390      Max.   :1.3500
## Home.Non.penalty.xG Home.xG.on.target..xGOT. Home.Passes
## Min.    :0.1200      Min.    :0.0500      Min.    :251.0
## 1st Qu.:0.7125      1st Qu.:0.3775      1st Qu.:346.2
## Median :0.8650      Median :0.9550      Median :403.0
## Mean   :1.1337      Mean   :1.2453      Mean   :418.0
## 3rd Qu.:1.5375      3rd Qu.:1.5675      3rd Qu.:509.8
## Max.   :3.0200      Max.   :3.8900      Max.   :695.0
## Home.Accurate.passes.1 Home.Own.half Home.Opposition.half
## Length:30           Min.    : 80.0      Min.    : 56.0
## Class :character     1st Qu.:124.5      1st Qu.:109.5
## Mode  :character     Median :165.0      Median :144.0
##                               Mean   :183.5      Mean   :158.7
##                               3rd Qu.:221.5      3rd Qu.:185.8
##                               Max.    :381.0      Max.    :410.0
## Home.Accurate.long.balls Home.Accurate.crosses Home.Throws
## Length:30           Length:30           Min.    :11.00
## Class :character     Class :character     1st Qu.:17.25
## Mode  :character     Mode  :character     Median :19.00
##                               Mean   :20.03
##                               3rd Qu.:22.00
##                               Max.    :41.00
## Home.Touches.in.opposition.box Home.Offsides Home.Yellow.cards

```

```

## Min.      : 4.0              Min.      :0.000   Min.      :0.0
## 1st Qu.:13.0              1st Qu.:1.000   1st Qu.:1.0
## Median :21.0              Median :2.000   Median :2.0
## Mean    :22.1              Mean    :2.133   Mean    :1.7
## 3rd Qu.:29.0              3rd Qu.:3.000   3rd Qu.:2.0
## Max.     :50.0              Max.     :5.000   Max.     :5.0
## Home.Red.cards Home.Tackles.won Home.Interceptions Home.Blocks
## Min.      :0.0      Length:30      Min.      : 4.000      Min.      :0.000
## 1st Qu.:0.0      Class :character  1st Qu.: 7.000      1st Qu.:1.000
## Median :0.0      Mode  :character  Median : 8.000      Median :2.000
## Mean    :0.2                                Mean    : 8.533      Mean    :2.367
## 3rd Qu.:0.0                                3rd Qu.:10.000     3rd Qu.:4.000
## Max.     :1.0                                Max.     :15.000     Max.     :7.000
## Home.Clearances Home.Keeper.saves Home.Duels.won Home.Ground.duels.won
## Min.      : 7.00   Min.      :0.000   Min.      :39.00   Length:30
## 1st Qu.:12.50   1st Qu.:1.250   1st Qu.:48.00   Class :character
## Median :17.00   Median :2.500   Median :57.00   Mode  :character
## Mean    :18.47   Mean    :2.633   Mean    :57.27
## 3rd Qu.:23.75   3rd Qu.:3.750   3rd Qu.:64.00
## Max.     :45.00   Max.     :8.000   Max.     :81.00
## Home.Aerial.duels.won Home.Successful.dribbles Away.Expected.goals.xG.
## Length:30      Length:30      Min.      :0.030
## Class :character      Class :character      1st Qu.:0.525
## Mode  :character      Mode  :character      Median :1.050
##                                Mean    :1.136
##                                3rd Qu.:1.620
##                                Max.     :3.740
## Away.Total.shots Away.Shots.on.target Away.Big.chances Away.Big.chances.missed
## Min.      : 2.00   Min.      :0.000   Min.      :0.000   Min.      :0.000
## 1st Qu.: 7.00   1st Qu.:2.000   1st Qu.:1.000   1st Qu.:0.250
## Median :10.50   Median :3.000   Median :2.000   Median :1.000
## Mean    :10.73   Mean    :3.533   Mean    :2.067   Mean    :1.567
## 3rd Qu.:13.75   3rd Qu.:5.000   3rd Qu.:3.000   3rd Qu.:2.000
## Max.     :22.00   Max.     :9.000   Max.     :5.000   Max.     :5.000
## Away.Accurate.passes Away.Fouls.committed Away.Corners Away.Total.shots.
## Length:30      Min.      : 4.0      Min.      : 0.0      Min.      : 2.00
## Class :character  1st Qu.:10.5      1st Qu.: 2.0      1st Qu.: 7.00
## Mode  :character  Median :13.5      Median : 3.0      Median :10.50
##                                Mean    :13.3      Mean    : 3.8      Mean    :10.73
##                                3rd Qu.:16.5      3rd Qu.: 5.0      3rd Qu.:13.75
##                                Max.     :20.0      Max.     :11.0      Max.     :22.00
## Away.Shots.off.target Away.Shots.on.target. Away.Blocked.shots
## Min.      :0.000   Min.      :0.000   Min.      :0.000
## 1st Qu.:3.000   1st Qu.:2.000   1st Qu.:1.000
## Median :5.000   Median :3.000   Median :2.000
## Mean    :4.633   Mean    :3.533   Mean    :2.567
## 3rd Qu.:6.000   3rd Qu.:5.000   3rd Qu.:4.000
## Max.     :9.000   Max.     :9.000   Max.     :8.000
## Away.Hit.woodwork Away.Shots.inside.box Away.Shots.outside.box
## Min.      :0.00   Min.      : 0.00   Min.      : 0.000
## 1st Qu.:0.00   1st Qu.: 3.25   1st Qu.: 3.000
## Median :0.00   Median : 6.00   Median : 4.000
## Mean    :0.30   Mean    : 6.20   Mean    : 4.533
## 3rd Qu.:0.75   3rd Qu.: 8.00   3rd Qu.: 6.000

```

```

## Max. :2.00      Max. :15.00      Max. :10.000
## Away.Expected.goals..xG. Away.xG.open.play Away.xG.set.play
## Min. :0.030      Min. :0.0200     Min. :0.0000
## 1st Qu.:0.525      1st Qu.:0.2025     1st Qu.:0.0500
## Median :1.050      Median :0.5250     Median :0.1950
## Mean :1.136      Mean :0.7260     Mean :0.3037
## 3rd Qu.:1.620      3rd Qu.:1.0300     3rd Qu.:0.3950
## Max. :3.740      Max. :1.9200     Max. :1.3800
## Away.Non.penalty.xG Away.xG.on.target..xGOT. Away.Passes
## Min. :0.030      Min. :0.000      Min. :192.0
## 1st Qu.:0.525      1st Qu.:0.310      1st Qu.:311.2
## Median :0.980      Median :0.925      Median :336.0
## Mean :1.031      Mean :1.078      Mean :359.9
## 3rd Qu.:1.510      3rd Qu.:1.395      3rd Qu.:407.0
## Max. :2.720      Max. :3.640      Max. :551.0
## Away.Accurate.passes.1 Away.Own.half Away.Opposition.half
## Length:30      Min. : 67.0     Min. : 43.0
## Class :character 1st Qu.:127.2   1st Qu.: 86.5
## Mode :character Median :161.0   Median :117.0
## Mean :159.9     Mean :126.4
## 3rd Qu.:187.5   3rd Qu.:157.5
## Max. :260.0     Max. :247.0
## Away.Accurate.long.balls Away.Accurate.crosses Away.Throws
## Length:30      Length:30      Min. : 6.00
## Class :character Class :character 1st Qu.:17.00
## Mode :character Mode :character Median :20.50
## Mean :19.13
## 3rd Qu.:22.75
## Max. :29.00
## Away.Touches.in.opposition.box Away.Offsides Away.Yellow.cards
## Min. : 1.00      Min. :0.000     Min. :0.000
## 1st Qu.:13.50      1st Qu.:0.000     1st Qu.:1.000
## Median :18.00      Median :1.000     Median :2.000
## Mean :18.43      Mean :1.067     Mean :1.967
## 3rd Qu.:22.75      3rd Qu.:2.000     3rd Qu.:3.000
## Max. :45.00      Max. :3.000     Max. :5.000
## Away.Red.cards Away.Tackles.won Away.Interceptions Away.Blocks
## Min. :0.0      Length:30      Min. : 2.000     Min. : 0.00
## 1st Qu.:0.0      Class :character 1st Qu.: 7.000     1st Qu.: 1.25
## Median :0.0      Mode :character Median : 8.000     Median : 2.50
## Mean :0.1      Mean : 8.367     Mean : 3.20
## 3rd Qu.:0.0      3rd Qu.:10.000     3rd Qu.: 4.00
## Max. :1.0      Max. :16.000     Max. :11.00
## Away.Clearances Away.Keeper.saves Away.Duels.won Away.Ground.duels.won
## Min. : 6.00      Min. :0.0      Min. :35.00     Length:30
## 1st Qu.:14.00     1st Qu.:1.0      1st Qu.:44.00     Class :character
## Median :16.50     Median :2.0      Median :51.50     Mode :character
## Mean :19.13      Mean :2.8      Mean :52.80
## 3rd Qu.:23.00     3rd Qu.:4.0      3rd Qu.:60.25
## Max. :37.00      Max. :8.0      Max. :73.00
## Away.Aerial.duels.won Away.Successful.dribbles goals XG
## Length:30      Length:30      Min. :0.000     Min. :1.410
## Class :character Class :character 1st Qu.:1.000     1st Qu.:1.748
## Mode :character Mode :character Median :2.000     Median :2.455

```

```
##                               Mean    :2.167    Mean    :2.427
##                               3rd Qu.:3.000    3rd Qu.:2.822
##                               Max.     :5.000    Max.     :4.610
##      shots      fouls      yellows      reds      passes
## Min.    :14.00   Min.    :15.00   Min.    :0.000   Min.    :0.0   Min.    :607.0
## 1st Qu.:19.25   1st Qu.:23.00   1st Qu.:3.000   1st Qu.:0.0   1st Qu.:721.0
## Median :22.00   Median :25.00   Median :4.000   Median :0.0   Median :776.5
## Mean    :23.10   Mean    :26.20   Mean    :3.667   Mean    :0.3   Mean    :777.9
## 3rd Qu.:27.50   3rd Qu.:30.25   3rd Qu.:4.750   3rd Qu.:0.0   3rd Qu.:837.5
## Max.    :33.00   Max.    :41.00   Max.    :7.000   Max.    :2.0   Max.    :944.0
## passes.own.half passes.opp.half
## Min.    :240.0   Min.    :210.0
## 1st Qu.:267.0   1st Qu.:252.5
## Median :341.5   Median :270.0
## Mean    :343.4   Mean    :285.1
## 3rd Qu.:395.5   3rd Qu.:312.2
## Max.    :530.0   Max.    :459.0
```

```
t.test(euro$goals, copa$goals)
```

```
##
## Welch Two Sample t-test
##
## data: euro$goals and copa$goals
## t = 0.37267, df = 54.574, p-value = 0.7108
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.5580423  0.8129442
## sample estimates:
## mean of x mean of y
## 2.294118 2.166667
```

```
t.test(euro$XG, copa$XG)
```

```
##
## Welch Two Sample t-test
##
## data: euro$XG and copa$XG
## t = 0.90301, df = 65.943, p-value = 0.3698
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
## -0.2177496  0.5773575
## sample estimates:
## mean of x mean of y
## 2.606471 2.426667
```

```
t.test(euro$shots, copa$shots)
```

```
##
## Welch Two Sample t-test
##
## data: euro$shots and copa$shots
```

```
## t = 2.0421, df = 70.367, p-value = 0.04489
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  0.0615103 5.1894701
## sample estimates:
## mean of x mean of y
##  25.72549  23.10000
```

```
t.test(euro$fouls, copa$fouls)
```

```
##
## Welch Two Sample t-test
##
## data: euro$fouls and copa$fouls
## t = -2.9358, df = 52.294, p-value = 0.004935
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -6.542267 -1.230282
## sample estimates:
## mean of x mean of y
##  22.31373  26.20000
```

```
t.test(euro$yellows, copa$yellows)
```

```
##
## Welch Two Sample t-test
##
## data: euro$yellows and copa$yellows
## t = 1.5148, df = 78.985, p-value = 0.1338
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.2339402  1.7241362
## sample estimates:
## mean of x mean of y
##  4.411765  3.666667
```

```
t.test(euro$reds, copa$reds)
```

```
##
## Welch Two Sample t-test
##
## data: euro$reds and copa$reds
## t = -1.6835, df = 41.73, p-value = 0.09975
## alternative hypothesis: true difference in means is not equal to 0
## 95 percent confidence interval:
##  -0.44410933  0.04018776
## sample estimates:
## mean of x mean of y
##  0.09803922  0.30000000
```

```
t.test(euro$passes, copa$passes)
```

```
##  
## Welch Two Sample t-test  
##  
## data: euro$passes and copa$passes  
## t = 7.5042, df = 77.963, p-value = 8.553e-11  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 143.2825 246.7607  
## sample estimates:  
## mean of x mean of y  
## 972.9216 777.9000
```

```
t.test(euro$passes.own.half, copa$passes.own.half)
```

```
##  
## Welch Two Sample t-test  
##  
## data: euro$passes.own.half and copa$passes.own.half  
## t = 3.7691, df = 63.282, p-value = 0.0003624  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 32.90189 107.14909  
## sample estimates:  
## mean of x mean of y  
## 413.3922 343.3667
```

```
t.test(euro$passes.opp.half, copa$passes.opp.half)
```

```
##  
## Welch Two Sample t-test  
##  
## data: euro$passes.opp.half and copa$passes.opp.half  
## t = 8.206, df = 77.507, p-value = 3.908e-12  
## alternative hypothesis: true difference in means is not equal to 0  
## 95 percent confidence interval:  
## 105.0692 172.3896  
## sample estimates:  
## mean of x mean of y  
## 423.8627 285.1333
```

```
# Perform t-tests and store results  
t_tests <- list(  
  goals = t.test(euro$goals, copa$goals),  
  XG = t.test(euro$XG, copa$XG),  
  shots = t.test(euro$shots, copa$shots),  
  fouls = t.test(euro$fouls, copa$fouls),  
  yellows = t.test(euro$yellows, copa$yellows),  
  reds = t.test(euro$reds, copa$reds),  
  passes = t.test(euro$passes, copa$passes),
```

```

passes_own_half = t.test(euro$passes.own.half, copa$passes.own.half),
passes_opp_half = t.test(euro$passes.opp.half, copa$passes.opp.half)
)

```

```
library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 4.4.2
```

```
# Function to create plot for each t-test
```

```

create_plot <- function(data, t_test_result, title) {
  plot_data <- data.frame(
    group = c("Euro", "Copa"),
    mean = c(mean(data[[1]]), mean(data[[2]])),
    sd = c(sd(data[[1]]), sd(data[[2]])),
    se = c(sd(data[[1]])/sqrt(length(data[[1]])), sd(data[[2]])/sqrt(length(data[[2]])))
  )

  ggplot(plot_data, aes(x = group, y = mean)) +
    geom_bar(stat = "identity", fill = "skyblue", alpha = 0.7) +
    geom_errorbar(aes(ymin = mean - se, ymax = mean + se), width = 0.2) +
    labs(title = paste(title, "\n(t =", round(t_test_result$statistic, 2), ", p =", round(t_test_result$p.value, 2), ")"),
         x = "Tournament", y = "Mean") +
    theme_minimal()
}

```

```
# Create plots
```

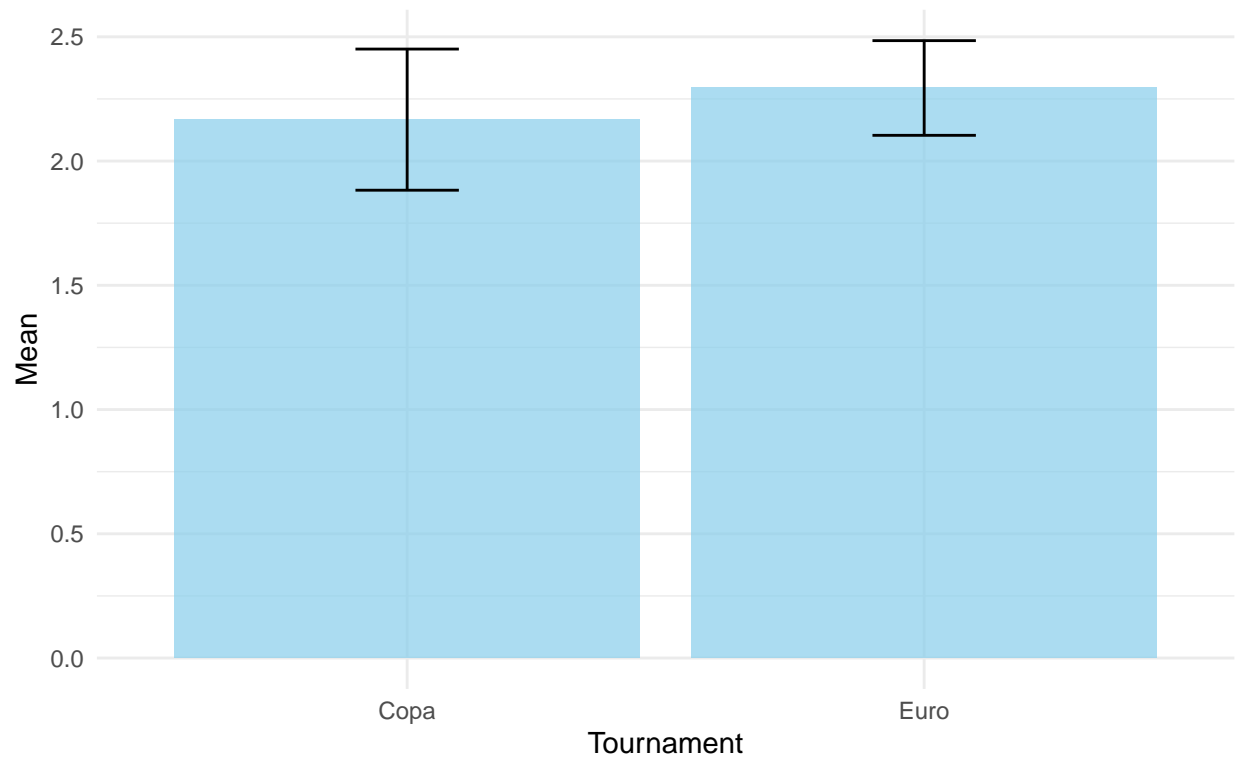
```

plots <- list(
  goals = create_plot(list(euro$goals, copa$goals), t_tests$goals, "Comparison of Goals between Euro and Copa"),
  XG = create_plot(list(euro$XG, copa$XG), t_tests$XG, "Comparison of Expected Goals (XG) between Euro and Copa"),
  shots = create_plot(list(euro$shots, copa$shots), t_tests$shots, "Comparison of Shots between Euro and Copa"),
  fouls = create_plot(list(euro$fouls, copa$fouls), t_tests$fouls, "Comparison of Fouls between Euro and Copa"),
  yellows = create_plot(list(euro$yellows, copa$yellows), t_tests$yellows, "Comparison of Yellow Cards between Euro and Copa"),
  reds = create_plot(list(euro$reds, copa$reds), t_tests$reds, "Comparison of Red Cards between Euro and Copa"),
  passes = create_plot(list(euro$passes, copa$passes), t_tests$passes, "Comparison of Passes between Euro and Copa"),
  passes_own_half = create_plot(list(euro$passes.own.half, copa$passes.own.half), t_tests$passes_own_half, "Comparison of Passes (Own Half) between Euro and Copa"),
  passes_opp_half = create_plot(list(euro$passes.opp.half, copa$passes.opp.half), t_tests$passes_opp_half, "Comparison of Passes (Opp Half) between Euro and Copa")
)

```

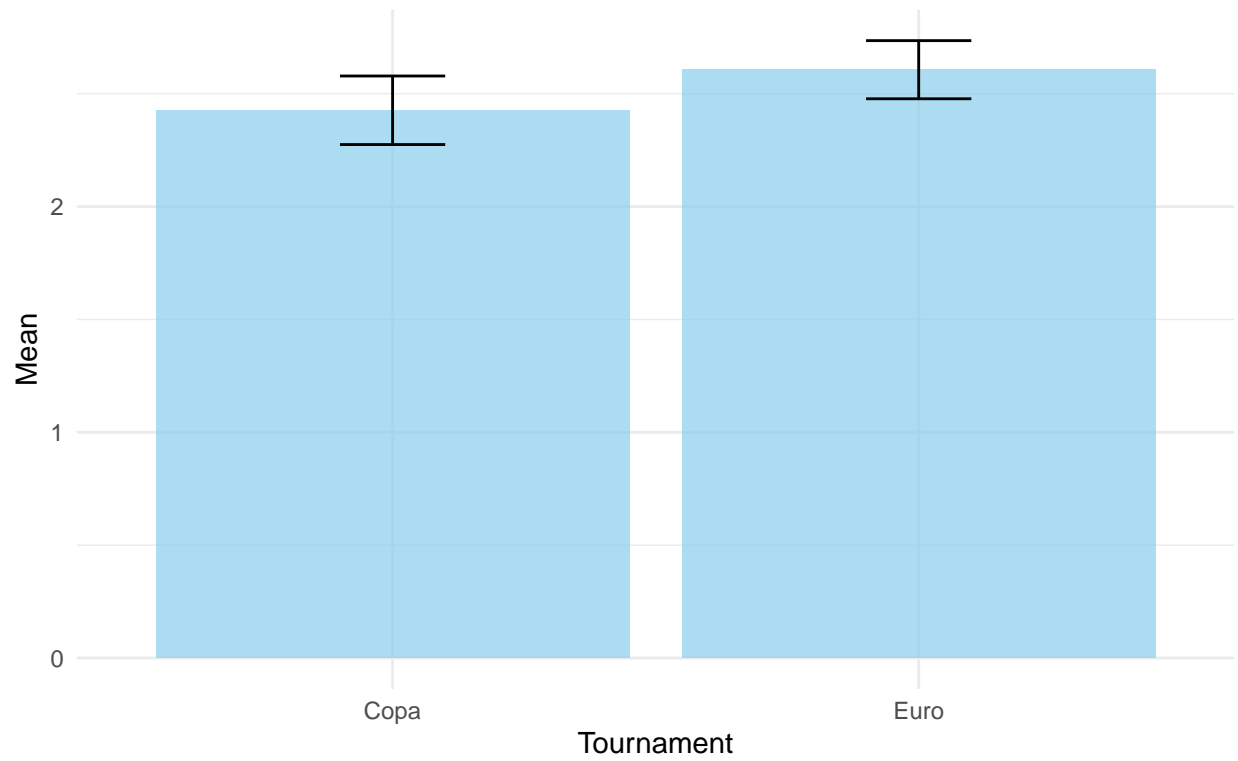
```
plots$goals
```

Comparison of Goals between Euro and Copa
($t = 0.37$, $p = 0.7108$)



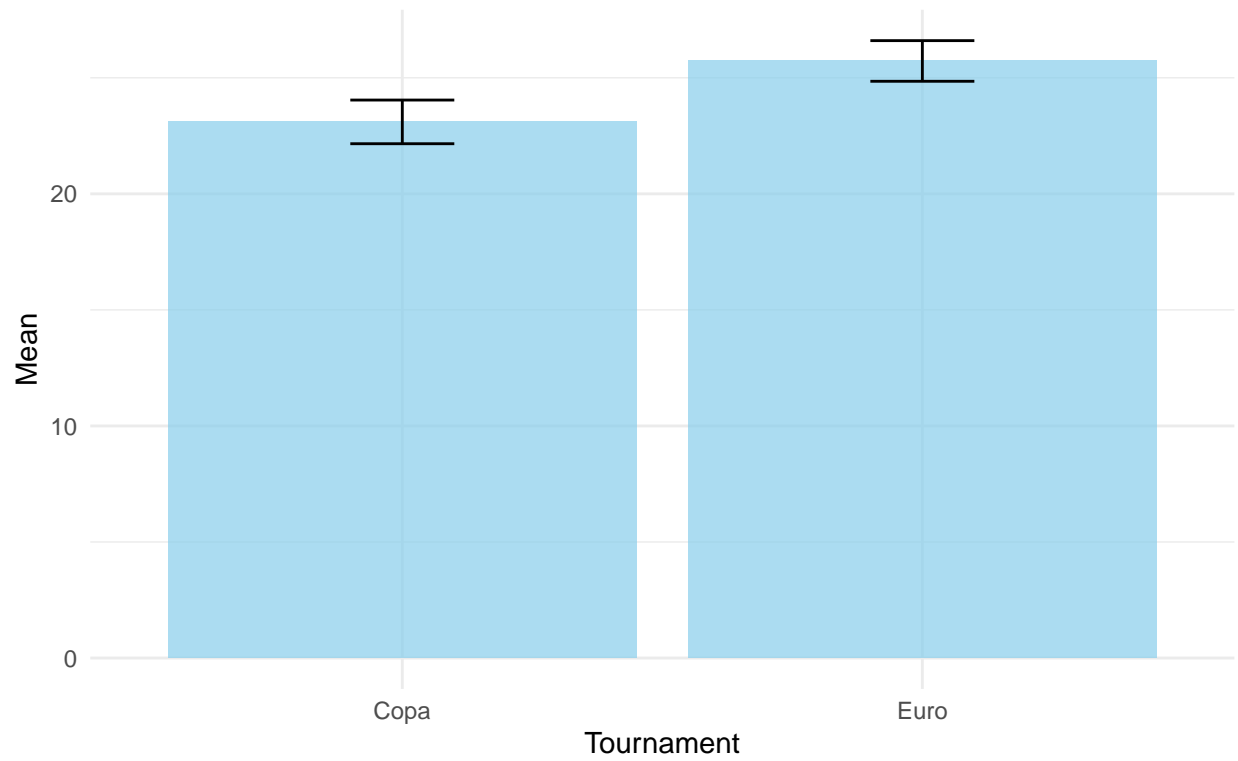
plots\$XG

Comparison of Expected Goals (XG) between Euro and Copa
($t = 0.9$, $p = 0.3698$)



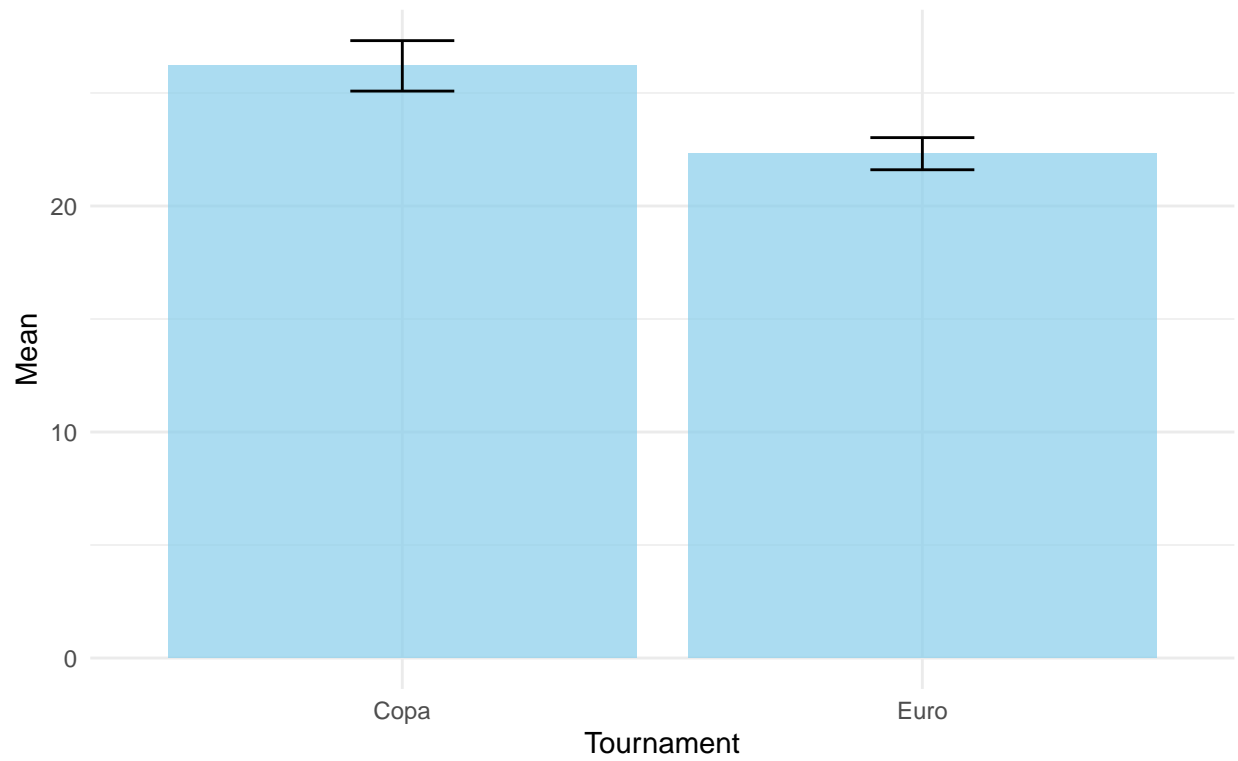
plots\$shots

Comparison of Shots between Euro and Copa
($t = 2.04$, $p = 0.0449$)



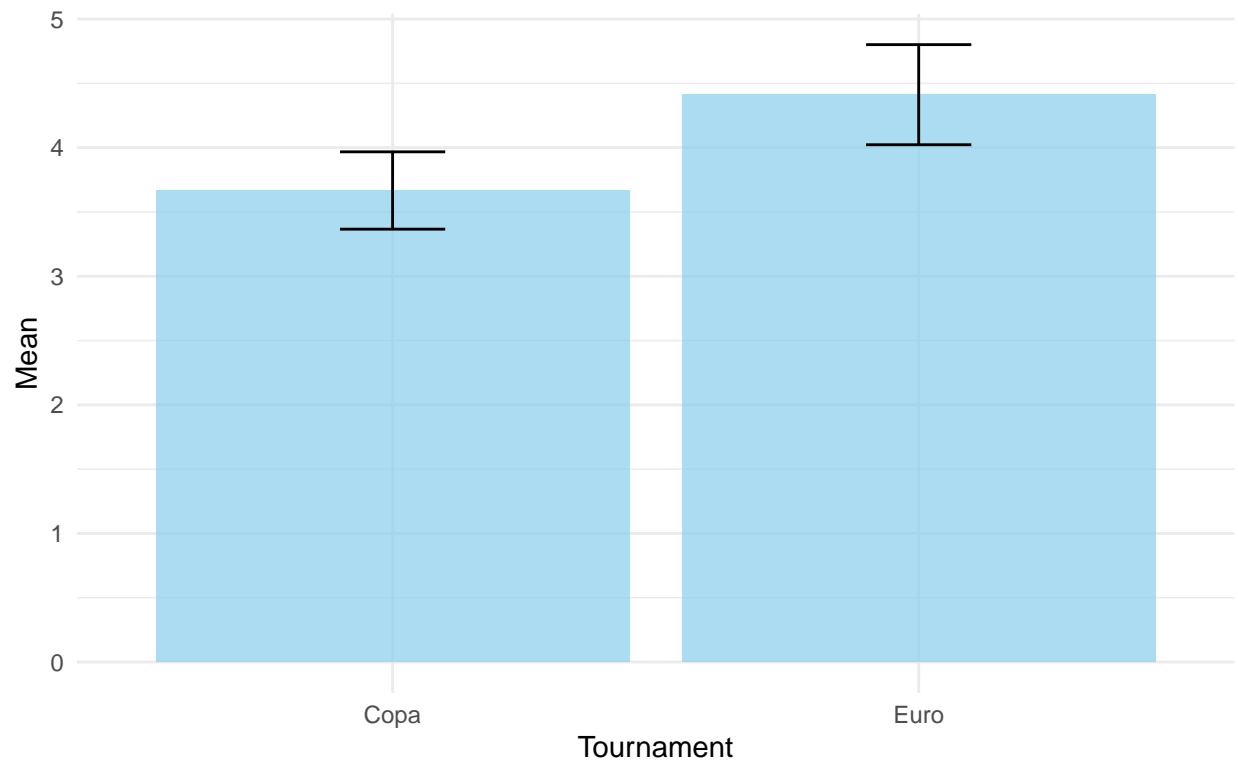
plots\$fouls

Comparison of Fouls between Euro and Copa
($t = -2.94$, $p = 0.0049$)



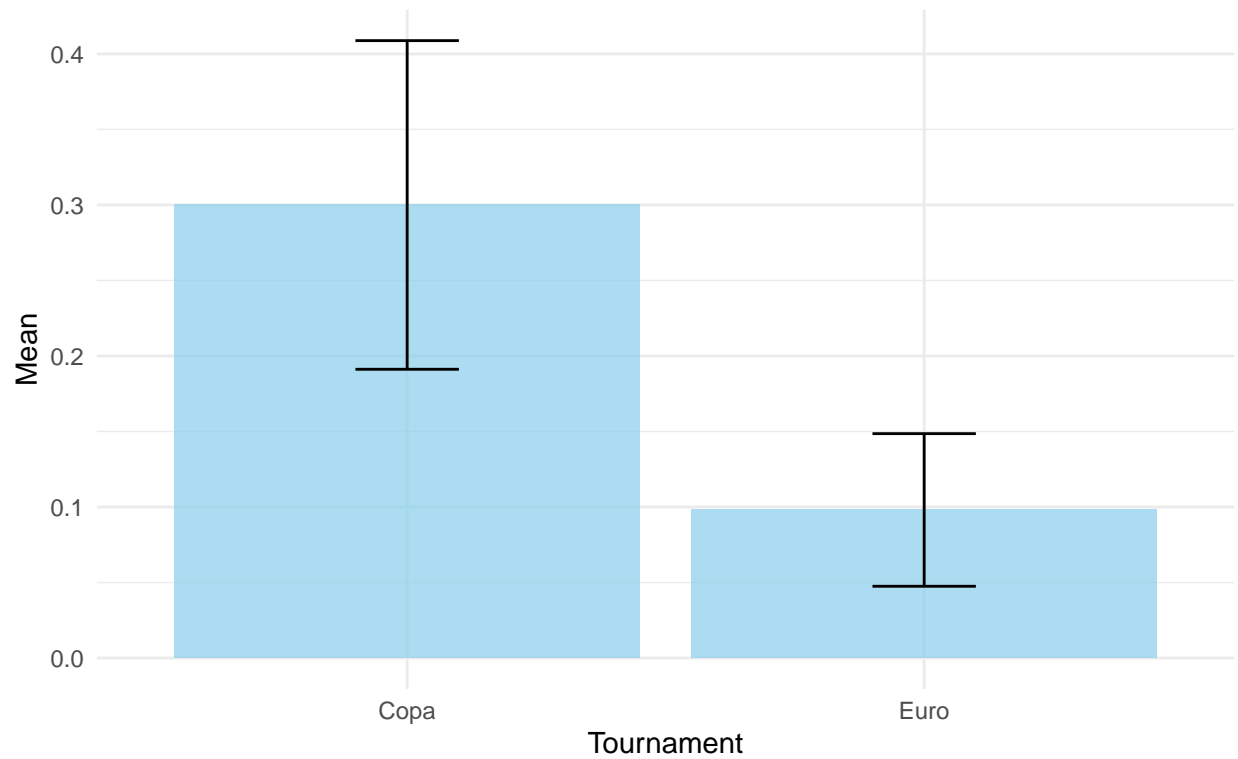
plots\$yellows

Comparison of Yellow Cards between Euro and Copa
($t = 1.51$, $p = 0.1338$)



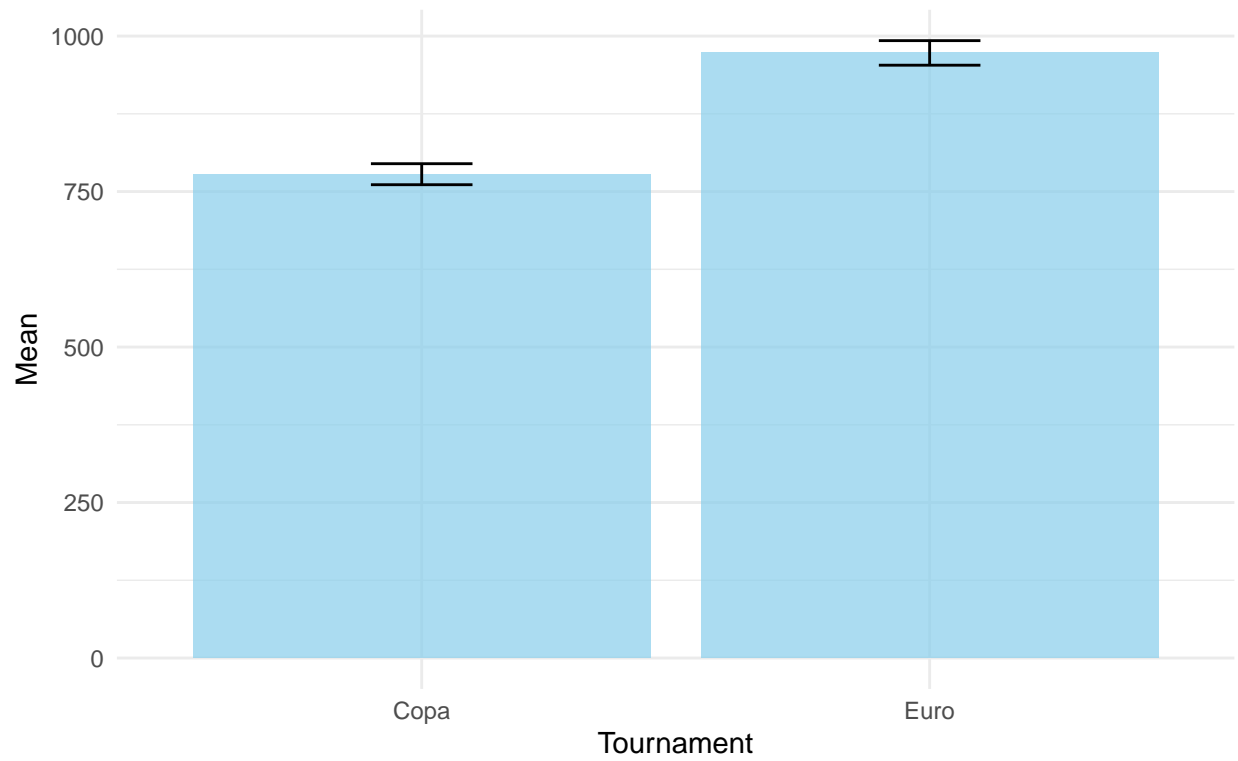
plots\$reds

Comparison of Red Cards between Euro and Copa
($t = -1.68$, $p = 0.0998$)



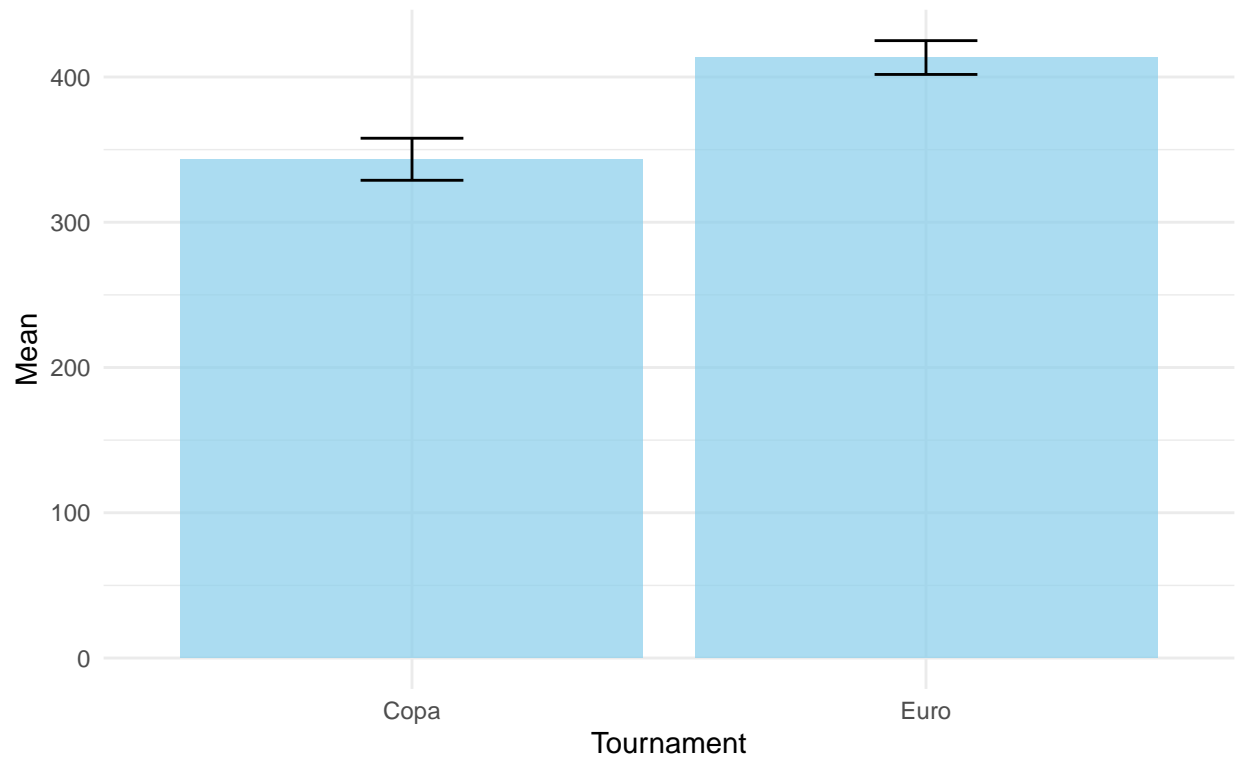
plots\$passes

Comparison of Passes between Euro and Copa
($t = 7.5$, $p = 0$)



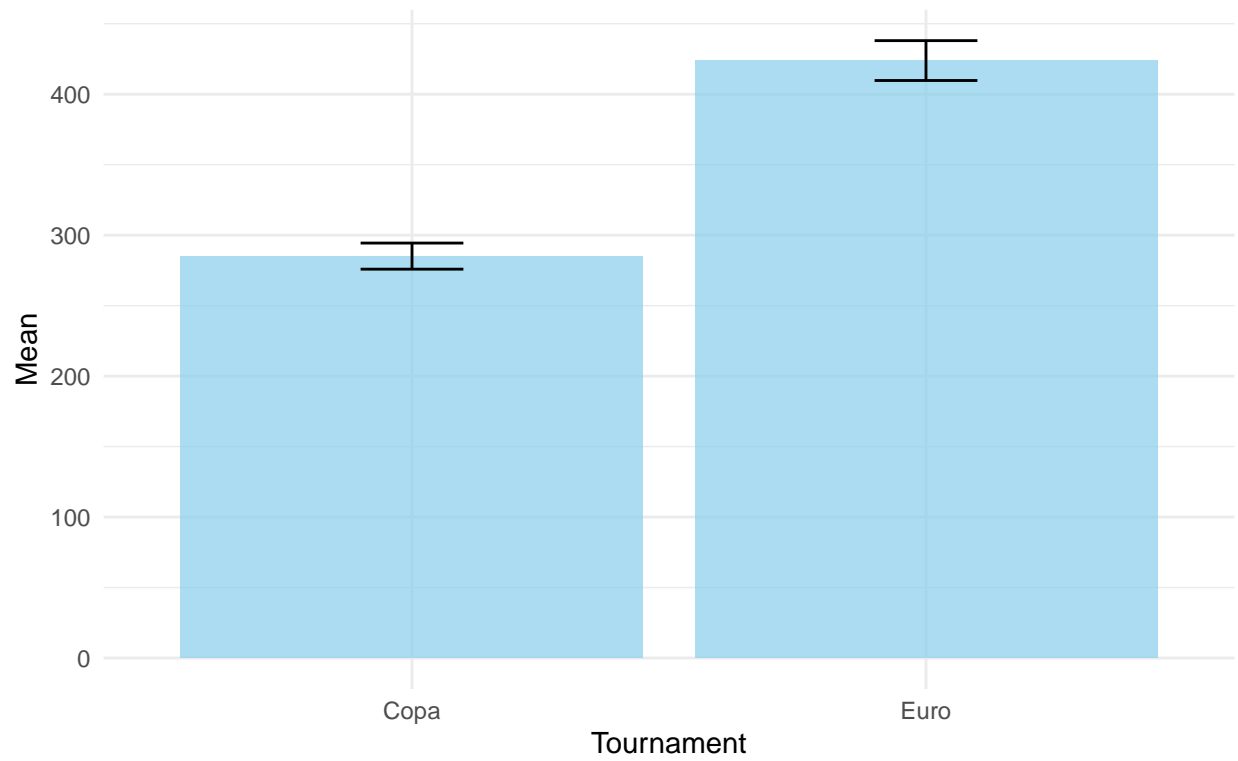
```
plots$passes_own_half
```

Comparison of Passes in Own Half between Euro and Copa
($t = 3.77$, $p = 4e-04$)



```
plots$passes_opp_half
```

Comparison of Passes in Opponent's Half between Euro and Copa
($t = 8.21$, $p = 0$)



“ “