

# WORLD CUP CASE STUDY

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## ANALYTICAL QUESTIONS

(1) Is the hosting country more likely to win the cup?



(2) What influences the attendance to increase?



(3) How likely would a match go to extra time?



(4) How likely would a match go to penalties?



(5) What increases the chance of the home team winning the match?



(6) What influences the home goals to increase?



(7) What increases the chance of the away team winning the match?



(8) What influences the away goals to increase?



(9) What makes a player likely to score?



(10) Are the top goal scoring teams more likely to be the top fouling teams?





HOSTING COUNTRIES



836

Matches Played

37M

Attendance

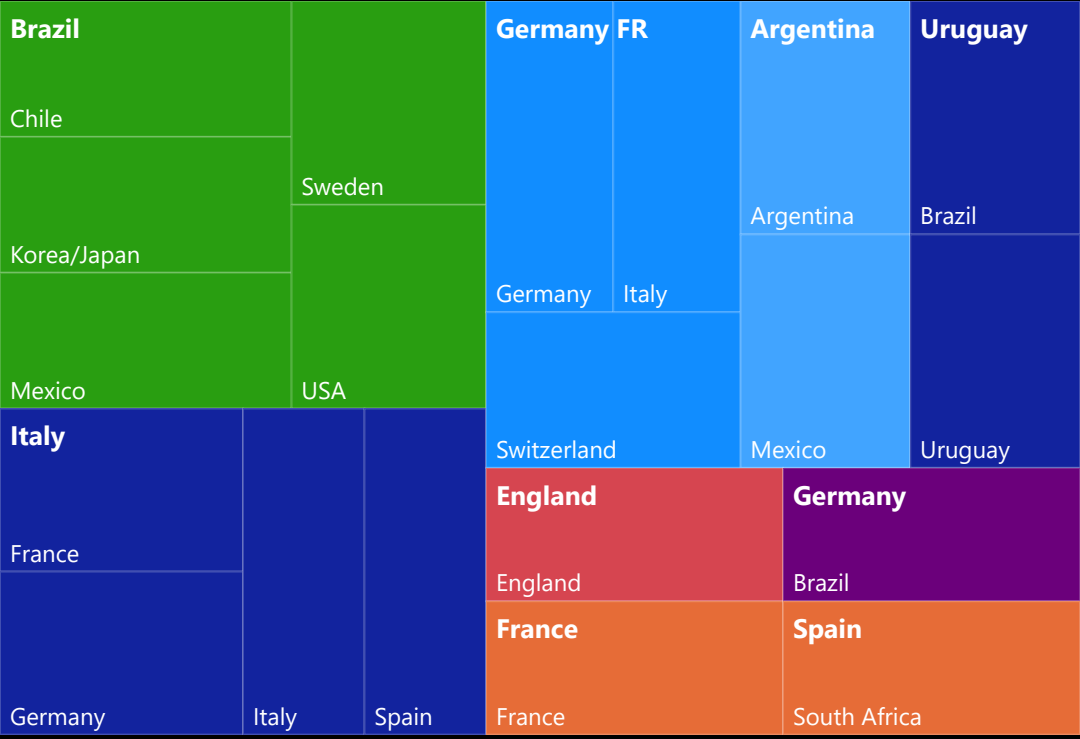
425

Qualified Teams

2379

Goals Scored

HOST COUNTRIES BY WINNERS



Key influencers



What influences Attendance to Increase ?

When...

....the average of  
Attendance increases by

Stage is Final

32.35K

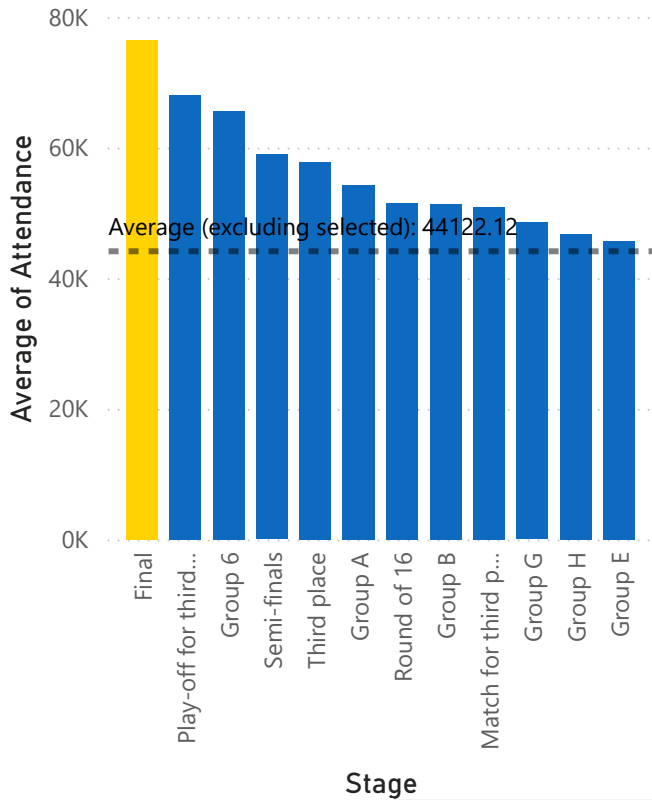
Host Country is USA

25.73K

Qualified Teams is more  
than 16

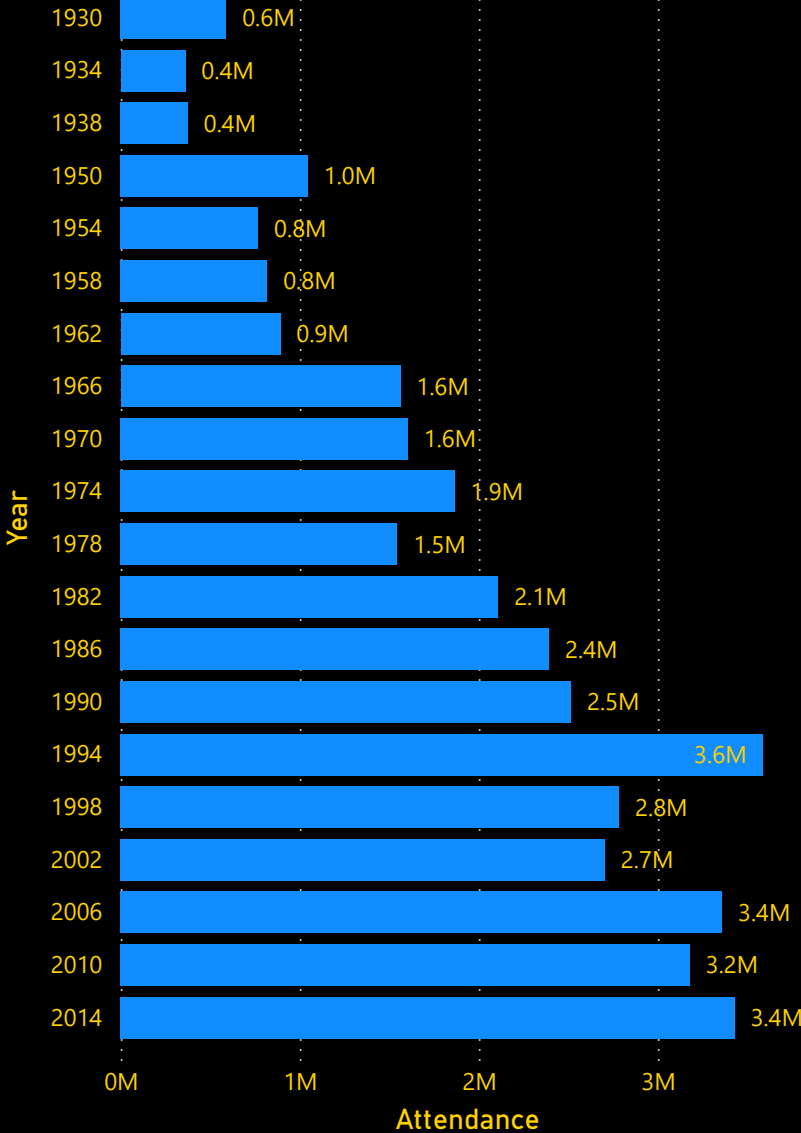
12.24K

← Attendance is more likely to increase when Stage is Final than otherwise (on average).



☐ Only show values that are influencers

ATTENDANCE BY DATE TIME



Key influencers



What influences Match Condition to be Extra Time ?

When...

...the likelihood of Match Condition being Extra Time increases by

Match Winner is Belgium

4.21x

Away Team Name is Belgium

4.06x

Match Winner is England

3.74x

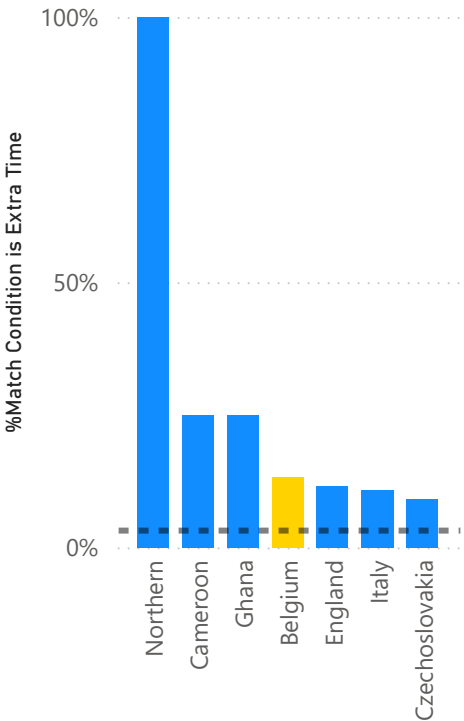
Match Winner is Italy

3.73x

Away Team Goals is more than 1

2.52x

← Match Condition is more likely to be Extra Time when Match Winner is Belgium than otherwise (on average).



☐ Only show values that are influencers

Key influencers



What influences Match Condition to be Penalties ?

When...

...the likelihood of Match Condition being Penalties increases by

Home Team Goals is 1 or less

7.85x

Home Team Name is Republic of Ireland

6.65x

Away Team Name is Argentina

5.90x

Away Team Name is France

4.88x

Match Winner is Germany

4.16x

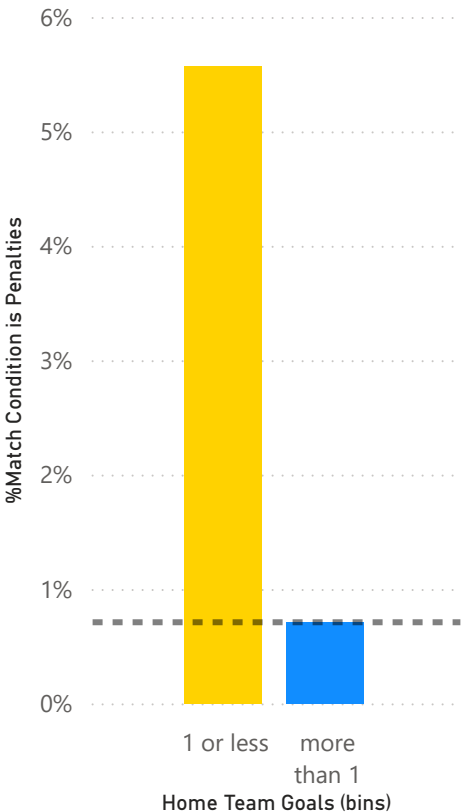
Home Team Name is Spain

3.50x

Match Winner is Argentina

3.12x

← Match Condition is more likely to be Penalties when Home Team Goals is 1 or less than otherwise (on average).



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## Key influencers



What influences Home VS Away Outcome to be Home Team Wins ?

When...

...the likelihood of Home VS  
Away Outcome being Home  
Team Wins increases by

Home Team Goals goes up  
1.62

Infinity

Away Team Goals goes  
down 1.07

Infinity

Yellow Cards Amount goes  
up 2.59

2.58x

Red Cards Amount goes  
down 0.72

2.31x

Half-time Away Goals is 0 or  
less

1.54x

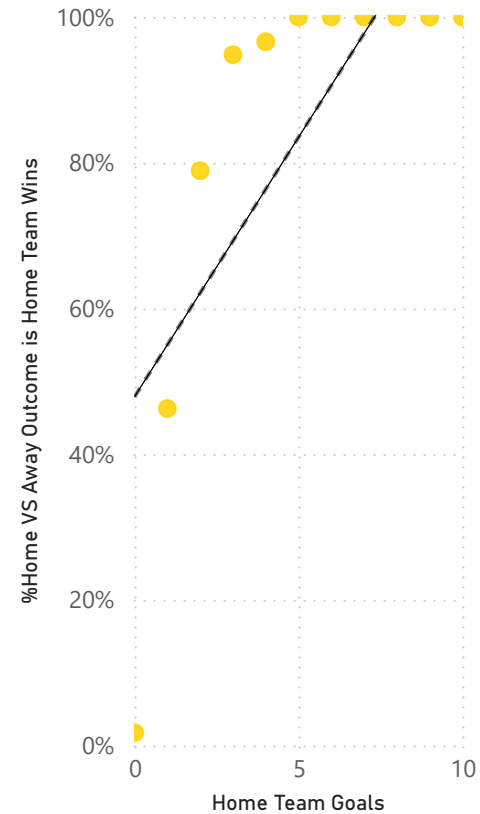
Home Team Name is Brazil

1.39x

Home Team Name is  
Argentina

1.35x

← On average when Home Team Goals  
increases, the likelihood of Home VS Away  
Outcome being Home Team Wins increases.



## Key influencers



What influences Home Team Goals to Increase ?

When...

...the average of Home  
Team Goals increases by

Player Goals Scored goes  
up 1.94

0.97

Half-time Home Goals goes  
up 0.94

0.5

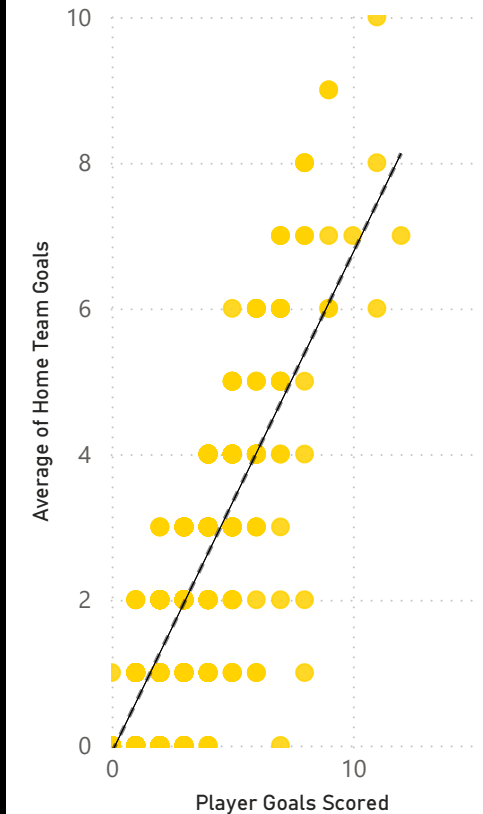
Total Substitutions goes  
down 5.01

0.18

Own Goals Scored goes up  
0.22

0.17

← On average when Player Goals Scored  
increases, Home Team Goals also increases.



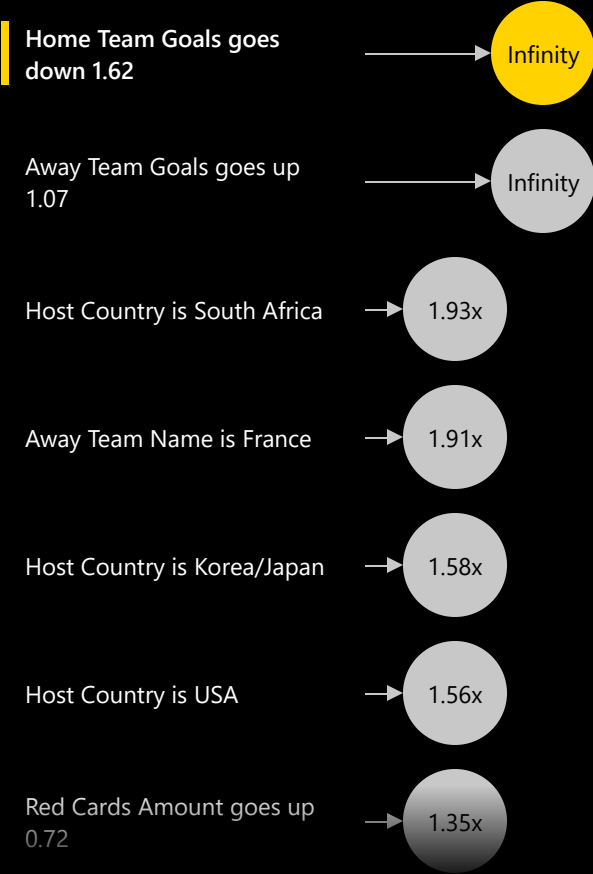
Key influencers



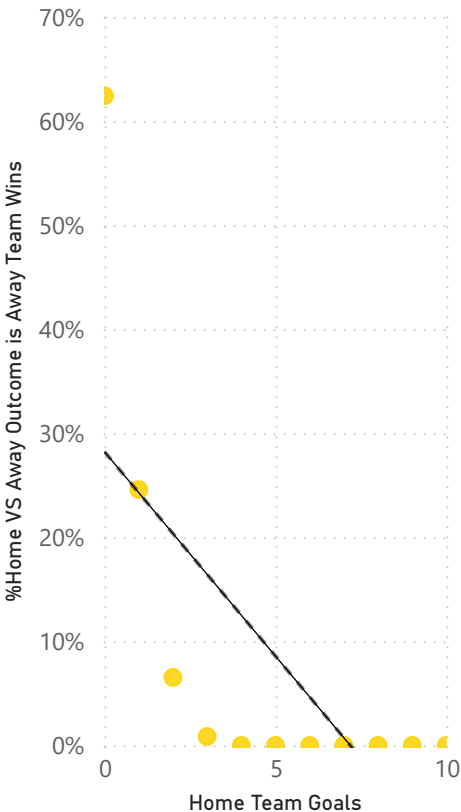
What influences Home VS Away Outcome to be Away Team Wins ?

When...

...the likelihood of Home VS  
Away Outcome being Away  
Team Wins increases by



← On average when Home Team Goals decreases, the likelihood of Home VS Away Outcome being Away Team Wins increases.



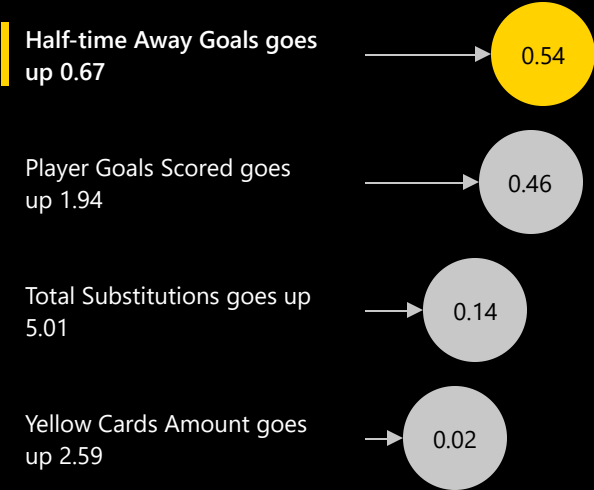
Key influencers



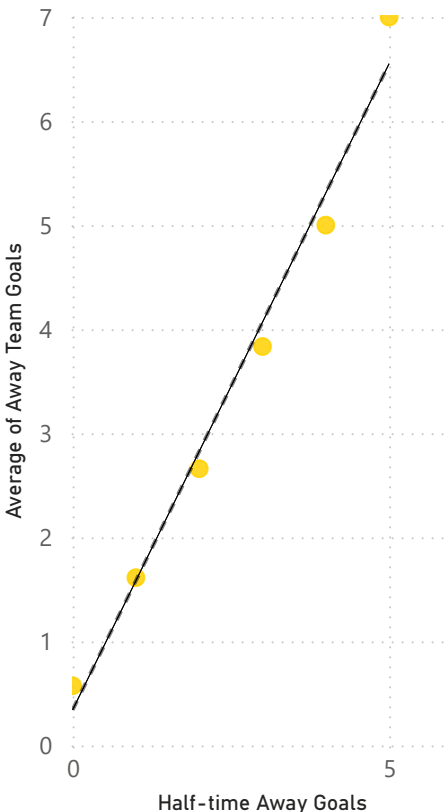
What influences Away Team Goals to Increase ?

When...

...the average of Away Team  
Goals increases by



← On average when Half-time Away Goals increases, Away Team Goals also increases.



Year

☐ 1930

☐ 1934

☒ 1938

☐ 1950

☐ 1954

☐ 1958

☐ 1962

☐ 1966

☐ 1970

☐ 1974

☐ 1978

☐ 1982

☐ 1986

☐ 1990

☐ 1994

☐ 1998

☐ 2002

☐ 2006

☐ 2010

☐ 2014

TOP GOAL SCORERS

Player Name

Leonidas

7

Gyorgy Sarosi

5

Gyula Zsengeller

5

Silvio Piola

5

Ernest Wilimowski

4

Gino Colaussi

4

Andre Abegglen

3

Arne Nyberg

3

Gustav Wetterstrom

3

Harry Andersson

3

Hector Socorro

3

Peracio

3

Romeu

3

Player Goals Scored

Key influencers



What influences Player Goals Scored to

Increase

?

When...

...the average of Player  
Goals Scored increases by

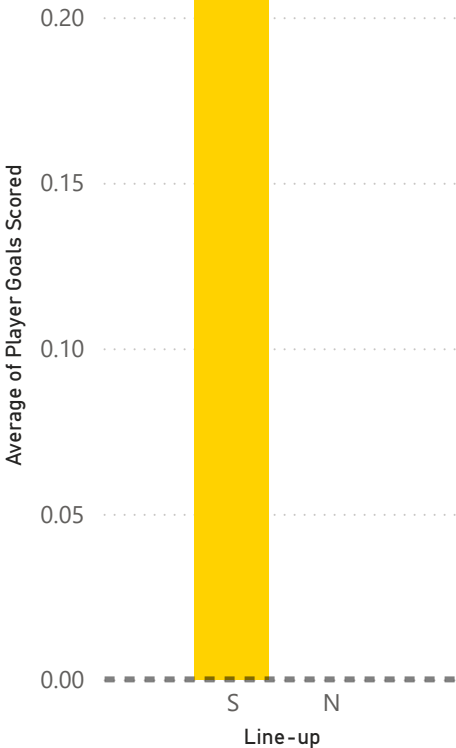
Line-up is S

0.21

Red Cards Amount is 0

0.11

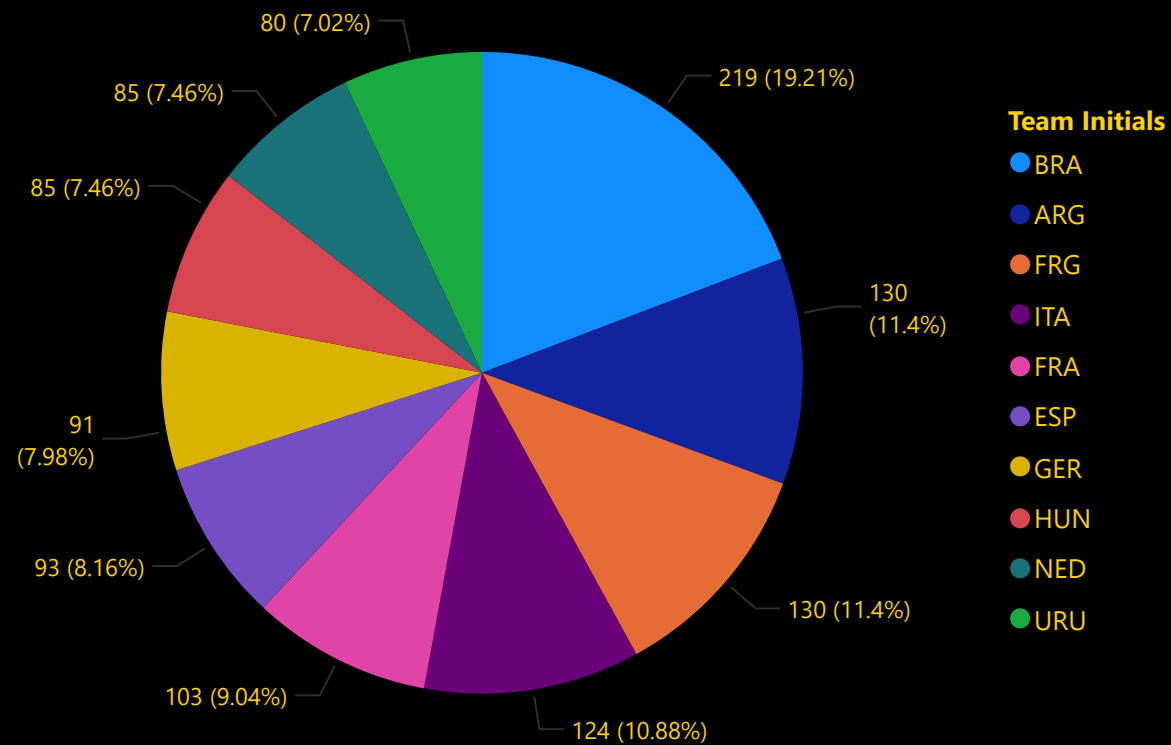
← Player Goals Scored is more likely to  
increase when Line-up is S than otherwise  
(on average).



☐ Only show values that are influencers



TOP TEAMS BY GOALS SCORED



TOP TEAMS BY AMOUNT OF YELLOW CARDS

