Obs	team	goals_team1	goals_team2	total_goals
1	FRANCE	11	5	16
2	ARGENTINA	11	4	15
3	ENGLAND	10	3	13
4	PORTUGAL	11	1	12
5	NETHERLANDS	8	2	10
6	SPAIN	8	1	9
7	BRAZIL	7	1	8
8	CROATIA	7	1	8
9	GERMANY	1	5	6
10	MOROCCO	1	5	6
11	GHANA	0	5	5
12	JAPAN	3	2	5
13	KOREA REPUBLIC	4	1	5
14	SENEGAL	0	5	5
15	SERBIA	2	3	5
16	SWITZERLAND	1	4	5
17	AUSTRALIA	1	3	4
18	CAMEROON	4	0	4
19	ECUADOR	1	3	4
20	IRAN	0	4	4
21	COSTA RICA	2	1	3
22	POLAND	2	1	3
23	SAUDI ARABIA	1	2	3
24	UNITED STATES	1	2	3
25	CANADA	1	1	2
26	MEXICO	0	2	2
27	URUGUAY	0	2	2
28	BELGIUM	1	0	1
29	DENMARK	0	1	1
30	QATAR	1	0	1
31	TUNISIA	1	0	1
32	WALES	0	1	1
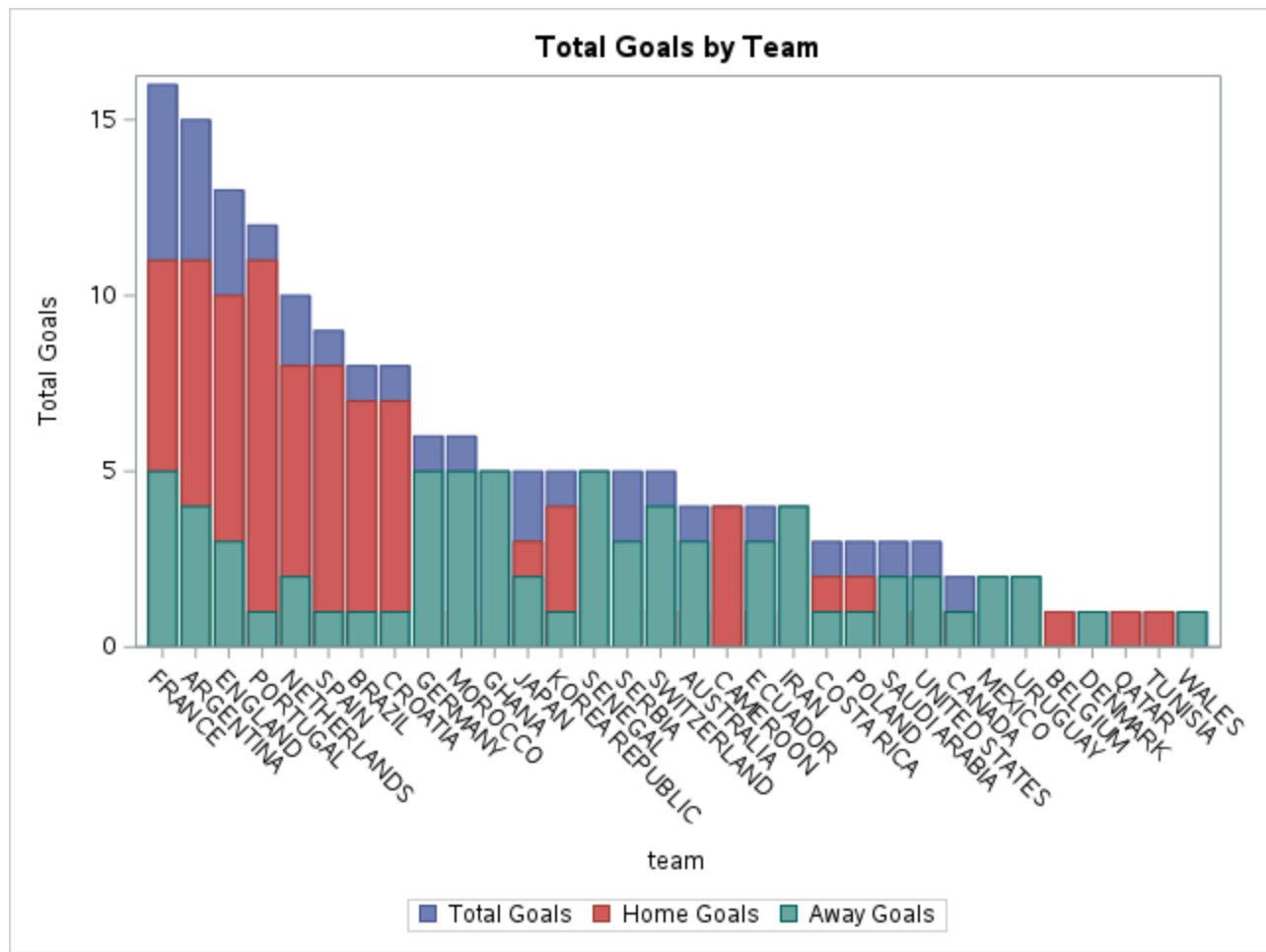
Total Goals by Team

Obs	team	conceded_team1	conceded_team2	total_conceded
1	COSTA RICA	4	7	11
2	SWITZERLAND	0	9	9
3	ARGENTINA	6	2	8
4	FRANCE	3	5	8
5	KOREA REPUBLIC	4	4	8
6	SERBIA	3	5	8
7	CANADA	2	5	7
8	CROATIA	3	4	7
9	GHANA	2	5	7
10	IRAN	1	6	7
11	QATAR	5	2	7
12	SENEGAL	2	5	7
13	AUSTRALIA	0	6	6
14	PORTUGAL	3	3	6
15	WALES	5	1	6
16	GERMANY	2	3	5
17	MOROCCO	0	5	5
18	POLAND	2	3	5
19	SAUDI ARABIA	2	3	5
20	CAMEROON	3	1	4

Obs	team	conceded_team1	conceded_team2	total_conceded
21	ENGLAND	4	0	4
22	JAPAN	3	1	4
23	NETHERLANDS	4	0	4
24	UNITED STATES	1	3	4
25	BRAZIL	1	2	3
26	DENMARK	0	3	3
27	ECUADOR	2	1	3
28	MEXICO	0	3	3
29	SPAIN	1	2	3
30	BELGIUM	2	0	2
31	URUGUAY	0	2	2
32	TUNISIA	1	0	1

Total Goals Conceded by Team
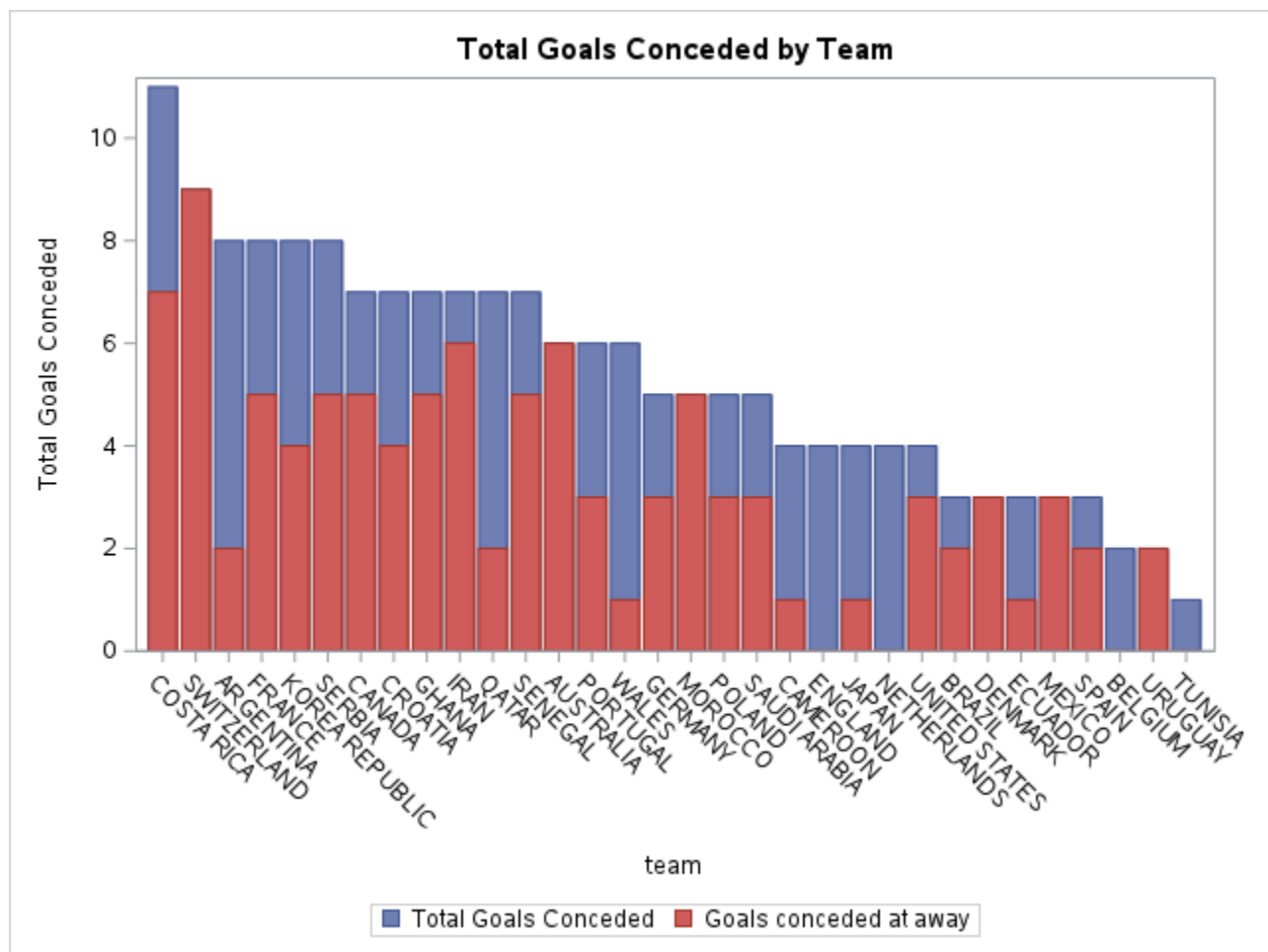
Total Goals Conceded by Team

The MEANS Procedure

Analysis Variable : possession_diff			
outcome	N Obs	Mean	Std Dev
Away Team Wins	20	4.6500000	23.1181747
Draw	15	1.0666667	19.2036703
Home Team Wins	29	-1.3448276	26.6569153

Possession Difference by Match Outcome
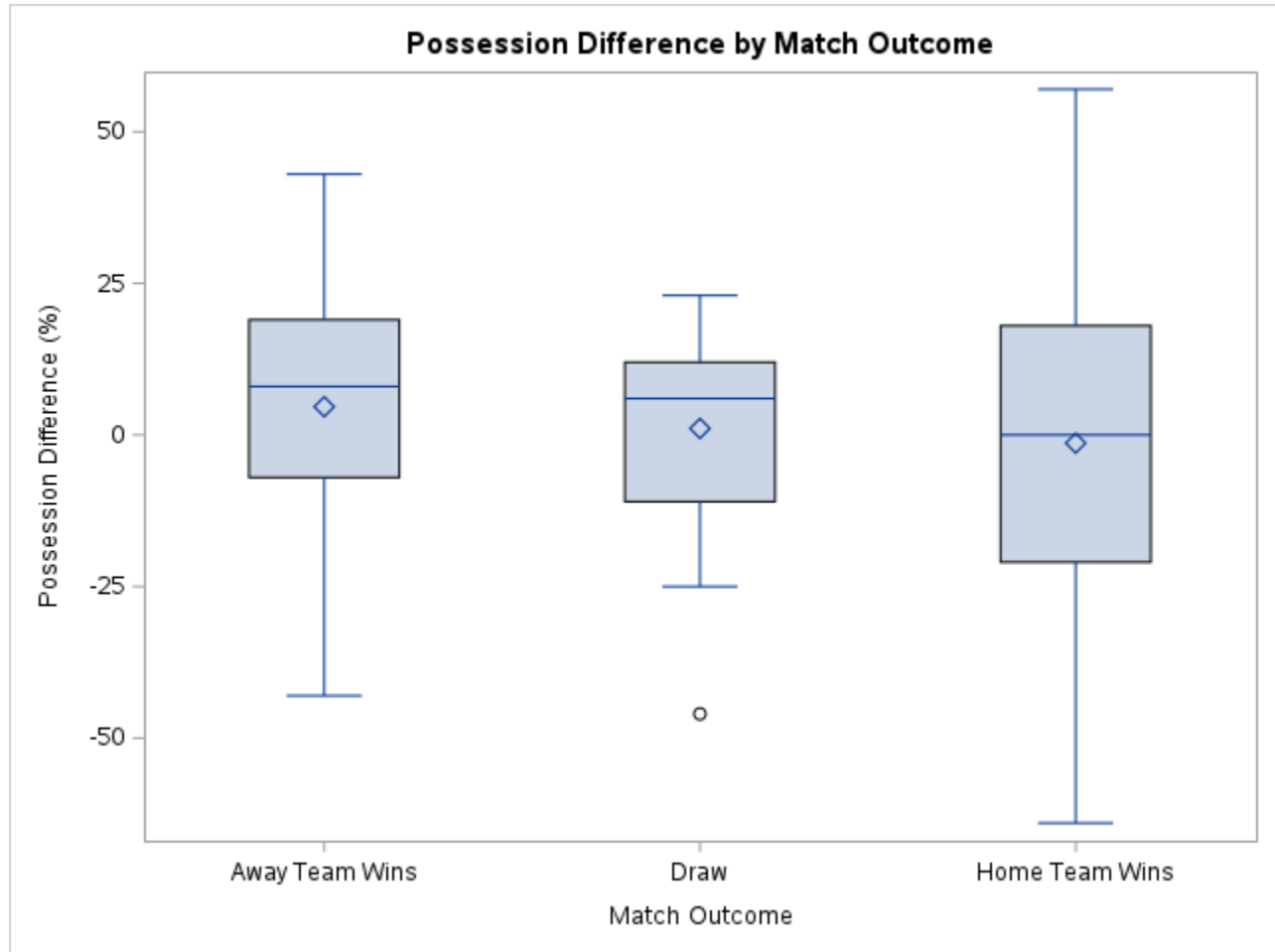
Logistic Regression of Winning on Possession Difference

The LOGISTIC Procedure

Model Information	
Data Set	NEWRSLT.LOGISTIC_DATA
Response Variable	win
Number of Response Levels	2
Model	binary logit
Optimization Technique	Fisher's scoring

Number of Observations Read	64
Number of Observations Used	49

Response Profile		
Ordered Value	win	Total Frequency

Response Profile		
Ordered Value	win	Total Frequency
1	1	29
2	0	20

Probability modeled is win=1.

Note: 15 observations were deleted due to missing values for the response or explanatory variables.

Model Convergence Status
Convergence criterion (GCONV=1E-8) satisfied.

Model Fit Statistics		
Criterion	Intercept Only	Intercept and Covariates
AIC	68.266	69.575
SC	70.158	73.359
-2 Log L	66.266	65.575

Testing Global Null Hypothesis: BETA=0			
Test	Chi-Square	DF	Pr > ChiSq
Likelihood Ratio	0.6907	1	0.4059
Score	0.6839	1	0.4082
Wald	0.6744	1	0.4115

| Analysis of Maximum Likelihood Estimates					
Parameter	DF	Estimate	Standard Error	Wald Chi-Square	Pr > ChiSq
Intercept	1	0.3880	0.2939	1.7424	0.1868
possession_diff	1	-0.00982	0.0120	0.6744	0.4115

Odds Ratio Estimates			
Effect	Point Estimate	95% Wald Confidence Limits	
possession_diff	0.990	0.967	1.014

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	56.2	Somers' D	0.148
Percent Discordant	41.4	Gamma	0.152
Percent Tied	2.4	Tau-a	0.073
Pairs	580	c	0.574

Team Average Possession per Match

Obs	team	avg_possession
1	SPAIN	73.0000
2	PORTUGAL	60.0000
3	ENGLAND	58.0000
4	ARGENTINA	55.5000
5	CROATIA	54.0000
6	DENMARK	52.0000

Obs	team	avg_possession
7	BRAZIL	50.5000
8	BELGIUM	47.0000
9	GERMANY	46.5000
10	UNITED STATES	46.3333
11	CAMEROON	46.0000
12	MEXICO	45.5000
13	NETHERLANDS	45.0000
14	CANADA	44.5000
15	ECUADOR	44.5000
16	FRANCE	44.0000
17	SWITZERLAND	43.0000
18	MOROCCO	42.0000
19	SERBIA	41.5000
20	KOREA REPUBLIC	41.0000
21	SAUDI ARABIA	40.5000
22	WALES	39.0000
23	SENEGAL	38.3333
24	QATAR	38.0000
25	URUGUAY	37.0000
26	POLAND	36.5000
27	AUSTRALIA	33.6667
28	GHANA	33.5000
29	TUNISIA	33.0000
30	COSTA RICA	28.0000
31	IRAN	26.0000
32	JAPAN	22.0000

Team Average Possession per Match
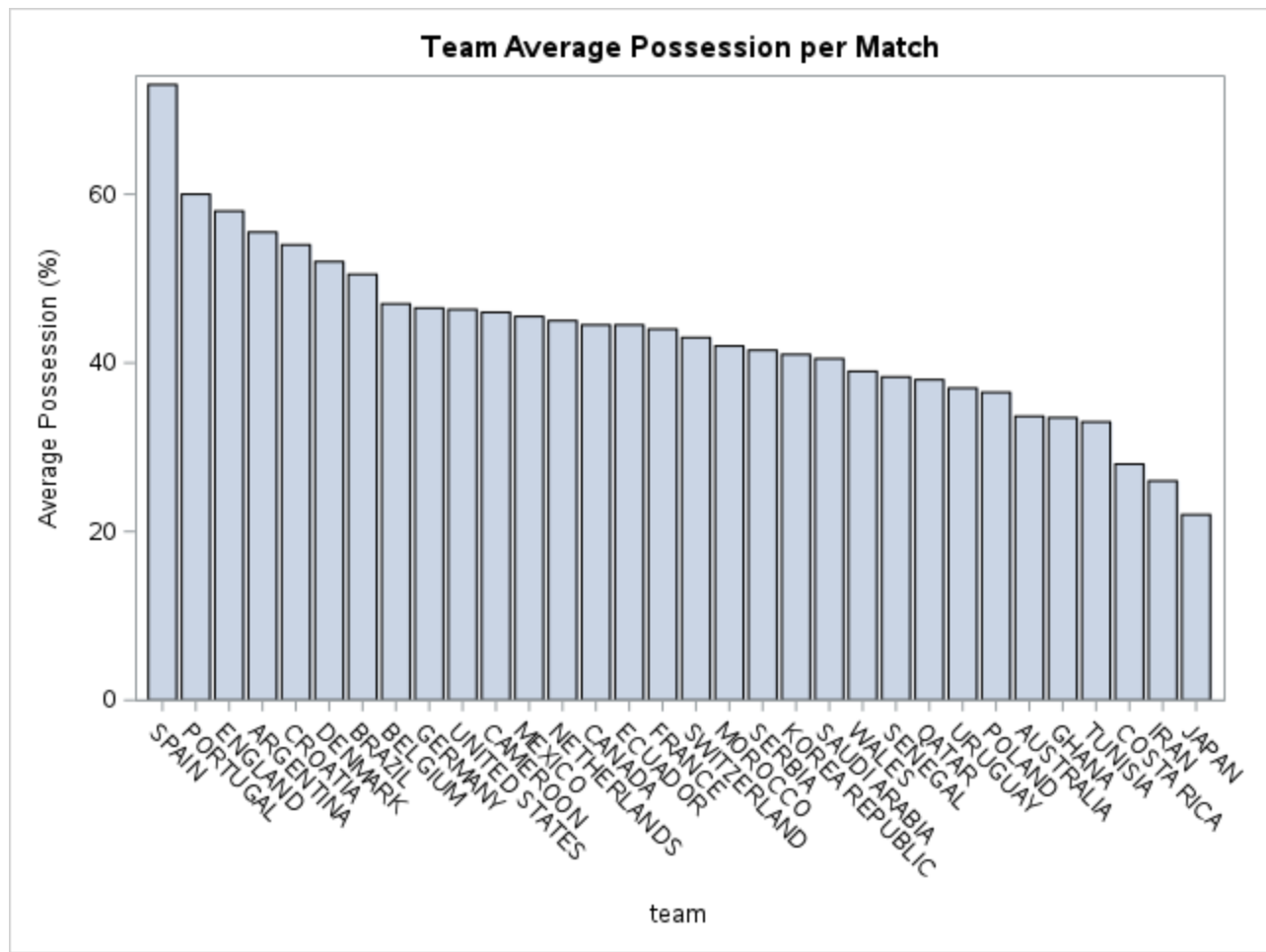
Team Efficiency: Shot Conversion Rates

Obs	team	conversion_rate
1	SAUDI ARABIA	0.33333
2	GHANA	0.31250
3	COSTA RICA	0.25000
4	NETHERLANDS	0.22222
5	ECUADOR	0.20513
6	JAPAN	0.20000
7	AUSTRALIA	0.19167
8	ENGLAND	0.17647
9	FRANCE	0.17407
10	IRAN	0.17262
11	MOROCCO	0.15260
12	WALES	0.14286
13	SENEGAL	0.12778
14	GERMANY	0.11250
15	ARGENTINA	0.10667
16	SWITZERLAND	0.10476
17	SERBIA	0.09375
18	URUGUAY	0.08333
19	CANADA	0.05556
20	DENMARK	0.05000

Obs	team	conversion_rate
21	KOREA REPUBLIC	0.05000
22	UNITED STATES	0.04630
23	POLAND	0.04545
24	PORTUGAL	0.04167
25	MEXICO	0.04000
26	SPAIN	0.03571
27	BRAZIL	0.02500
28	CROATIA	0.02083
29	BELGIUM	0.00000
30	CAMEROON	0.00000
31	QATAR	0.00000
32	TUNISIA	0.00000

Team Efficiency: Shot Conversion Rates
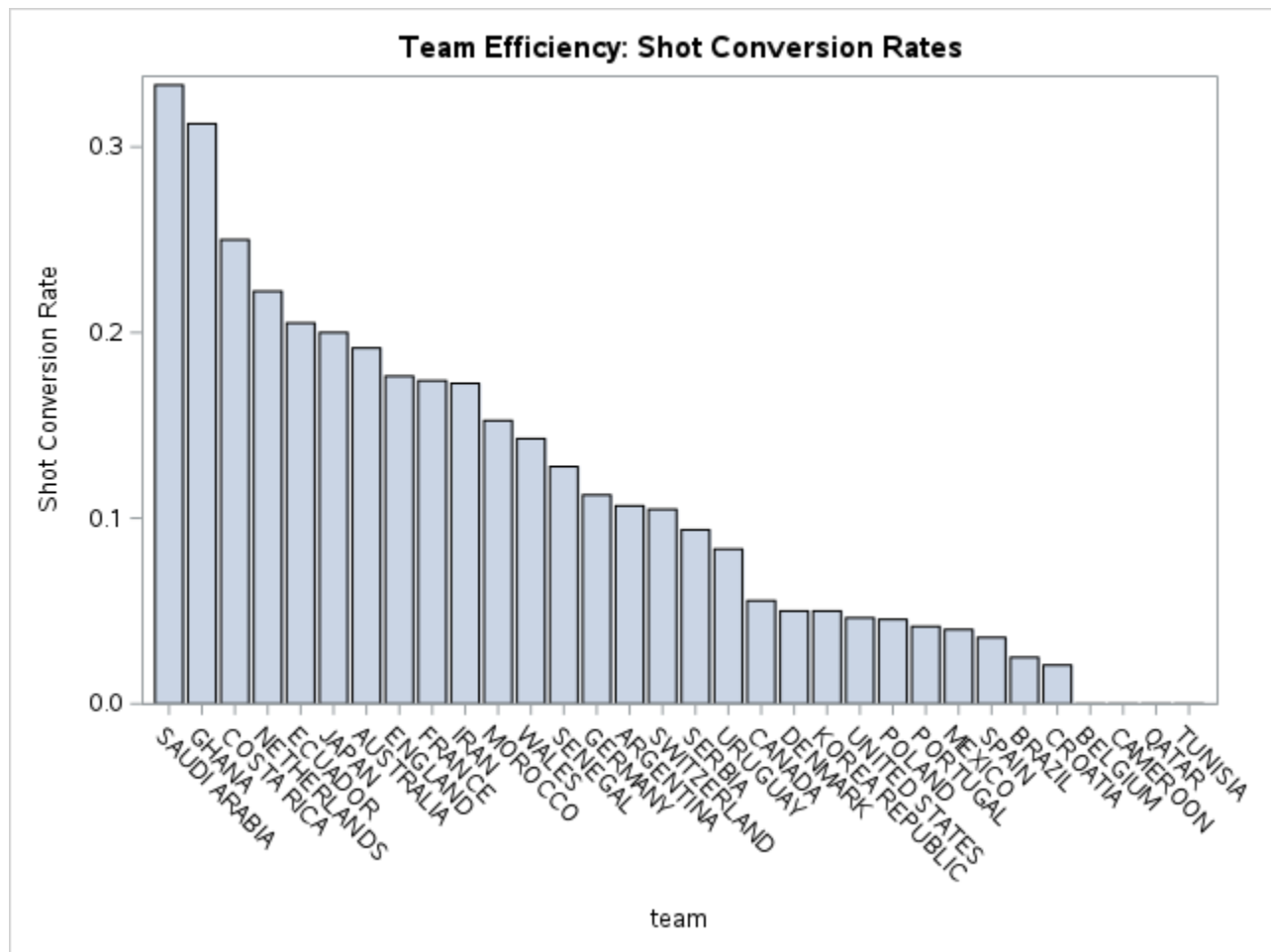
Defensive Performance Metric by Team

Obs	team	clean_sheets	goal_preventions	defensive_pressures	forced_turnovers	defensive_performance_score
1	MOROCCO	4	77	2516	544	605.65
2	CROATIA	2	82	2113	548	526.10
3	FRANCE	1	80	1986	524	496.20
4	JAPAN	0	62	1829	319	429.15
5	ARGENTINA	3	45	1688	494	424.15

Obs	team	clean_sheets	goal_preventions	defensive_pressures	forced_turnovers	defensive_performance_score
6	NETHERLANDS	2	67	1550	412	389.35
7	BRAZIL	2	34	1477	361	358.85
8	AUSTRALIA	2	63	1383	307	339.20
9	POLAND	2	72	1354	270	330.10
10	PORTUGAL	1	51	1267	303	312.00
11	COSTA RICA	1	63	1257	221	300.70
12	UNITED STATES	2	34	1150	293	283.25
13	SWITZERLAND	1	41	1150	280	282.65
14	KOREA REPUBLIC	1	50	1139	242	277.00
15	SENEGAL	0	36	1077	266	264.30
16	ENGLAND	3	45	995	280	253.45
17	IRAN	1	35	987	219	239.40
18	CAMEROON	1	44	922	240	231.80
19	GHANA	0	44	898	249	227.95
20	TUNISIA	2	31	904	222	222.65
21	URUGUAY	2	29	895	230	221.55
22	SERBIA	0	51	848	226	216.25
23	QATAR	0	32	886	171	210.85
24	SPAIN	2	23	827	240	207.95
25	CANADA	0	29	860	185	207.00
26	SAUDI ARABIA	0	49	803	215	205.10
27	BELGIUM	2	43	824	180	203.35
28	WALES	0	45	781	210	198.95
29	GERMANY	0	27	781	233	197.90
30	MEXICO	1	23	749	216	188.35
31	ECUADOR	1	22	748	183	182.95
32	DENMARK	1	40	669	211	175.85

Team Defensive Performance Metrics