

# Exploring Soccer Data

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## Introduction

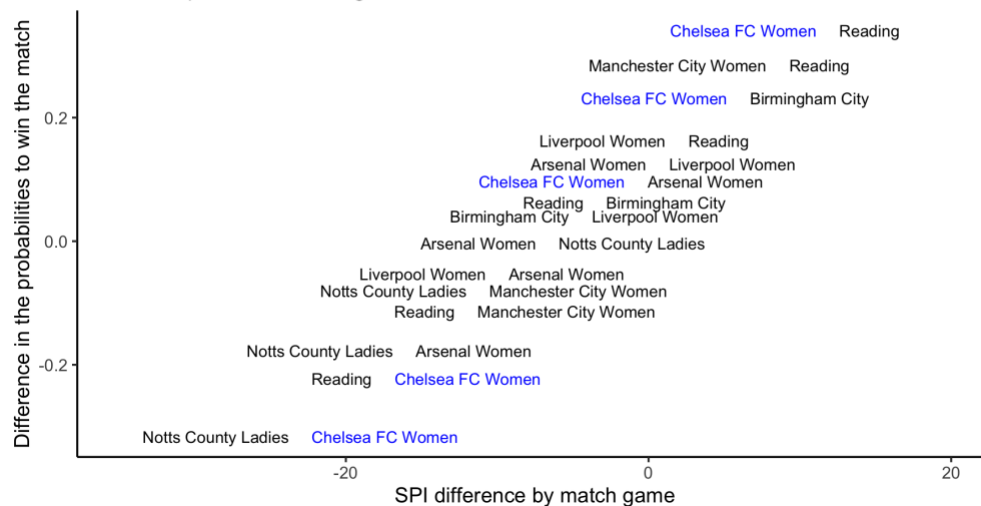
Soccer is one of my favorite sports. I always have been interested to explore, analyze, and create meaningful visualizations about it. After doing some online research, I found a particular dataset in FiveThirtyEight that emphasizes club soccer predictions around the world from 2016 to 2021. This dataset contains 23 variables of which I will focus on the year of the season, league name, teams, soccer power index score (SPI), probabilities of winning the match, and the scores. Also, there are 39 unique leagues and 810 teams, and I will be exploring **FA Women's Super League** being the only league for women and see what conclusions I can make about their teams.

1. Chelsea FC Women team did a good by playing in their home city and the city of their away teams in 2016.

The first interesting finding was comparing the difference in the SPIs and the difference in the probabilities of winning the match regarding the women teams in 2016. The SPI is designed to project which teams will have the most success going forward to the next game. By looking at the difference in the SPI, the Chelsea FC Women team had an overall positive impact going forward to the next games. On the other hand, when the Chelsea FC Women team played in their home city, the probability of winning the game was positive, and the games played in the away teams were negative, resulting in a bigger probability than the away team to win.

### Chelsea FC Women team had a positive progress going into each next game in season 2016

Each line represents a match game where the home team is on the left side of the line.

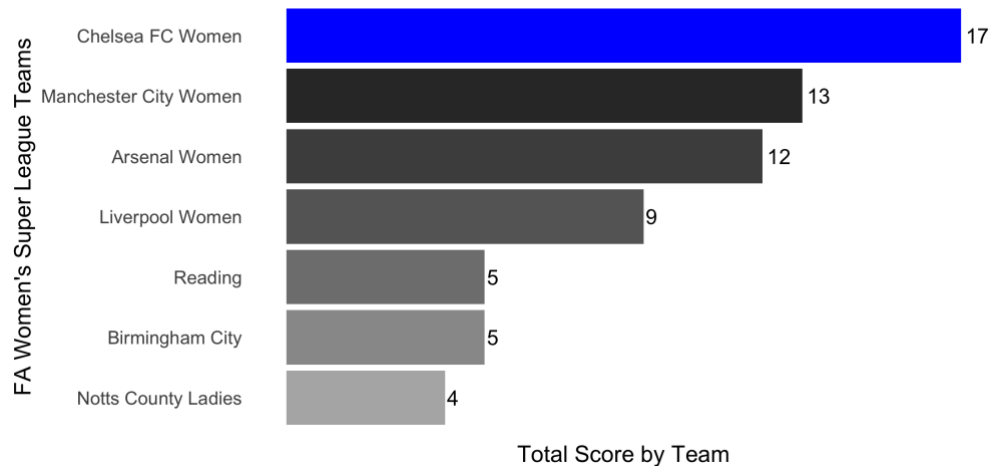


2. The total goals made during the 2016 season affirms that the Chelsea FC Women team did a better job than the other teams.

The second interesting finding was looking at the total scores to see if the Chelsea FC Women team had a better result than the other teams. It was noticeable they scored more goals confirming an accurate approach with the previous plot.

### Chelsea FC Women team scored more goals than the other teams in season 2016

Base on the total of games each team played (home games and away games)



### 3. Chelsea FC Women performance from 2016 to 2020

The final interesting finding was looking at the total scores over these seasons to analyze if the Chelsea FC Women team had progressed or not with the total goals scored over these years. Overall, the team has progressed every year, and the seasons that they performed better was in 2016, 2019, and 2020.

### The total goals scored by Chelsea FC Women team has increased over the years

They did a better job during the seasons 2016, 2019, and 2020.

