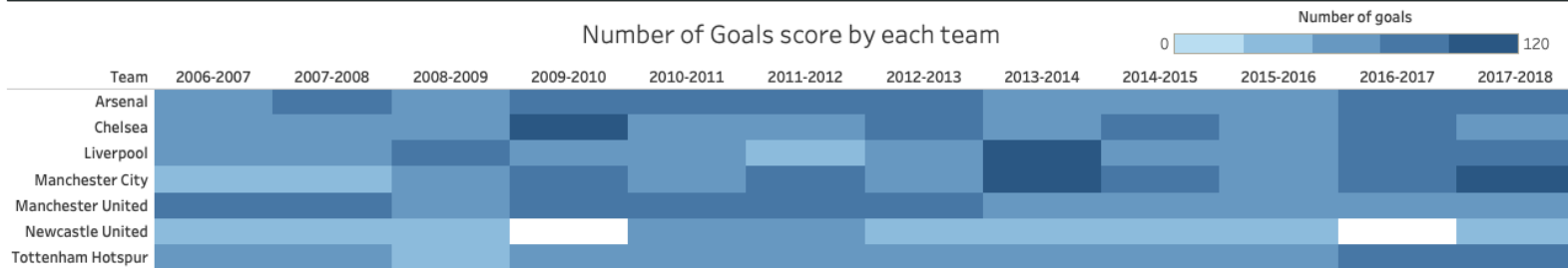


Premier League Visualisation

The Premier League (PL) is one of the top five competitive football leagues and the most popular globally (Sportsmonkie, 2023). Interestingly, the newest top teams in the Premier League are **Manchester United**, **Manchester City**, **Liverpool**, **Chelsea**, **Arsenal**, **Tottenham Hotspur** and **Newcastle United**, which they have been called the 'Big Seven' (Kay, 2023). The teams will play each other home and away across the season, and gain points through winning matches. Consequently, the winner of the season will be determined by the team that has the most points (League Premier, 2018). The visualisation will present the overall performance, offensive and defensive plays of the 'Big Seven' from 2006 to 2018.

Overall Performance

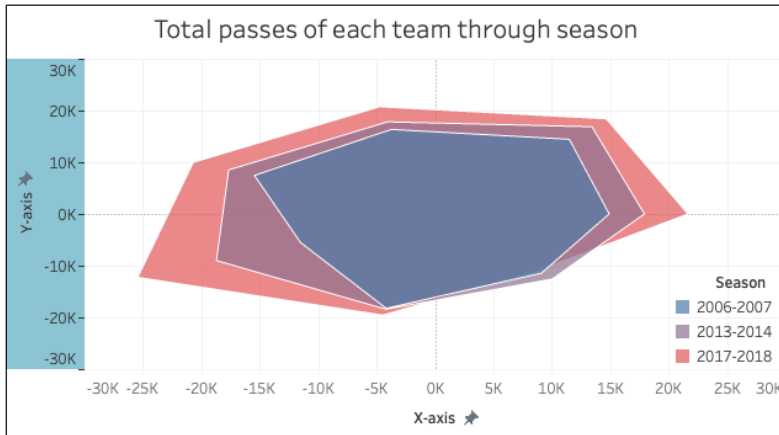
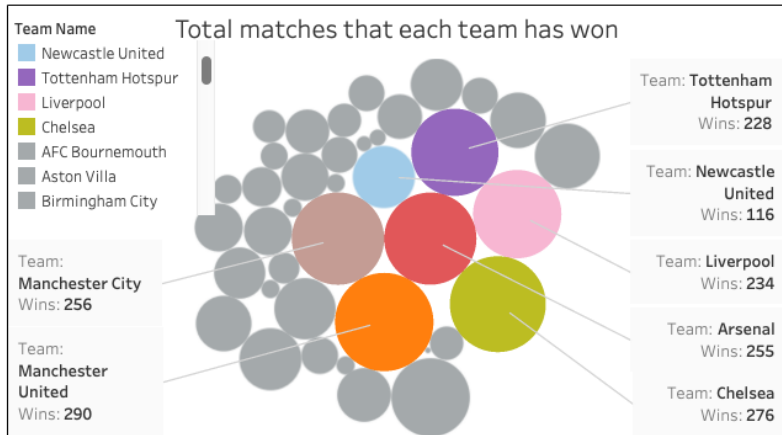
Number of Goals score by each team



In the season 2006-2007, **Manchester United** had the best squad in history with one of the best footballers in the world, Cristiano Ronaldo (Football Planet, 2023). Hence, **Manchester United** has secured their win in the PL season with 83 Goals. Moreover, **Manchester United** has won the most matches among the 'Big Seven' with 290 Matches. Coming to 2013-2014, **Manchester City** and **Liverpool** has an even match-up where they have 102 and 101 Goals respectively. The race between them is heated, however **Manchester City** is the lucky team with 86 points to win the season (Football Database, 2014).

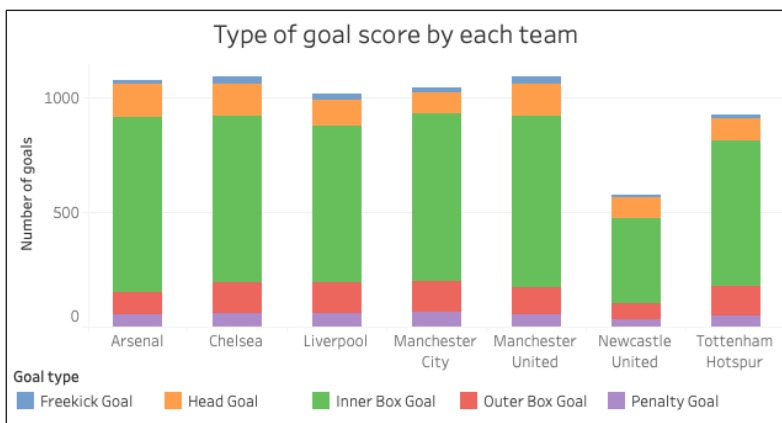
Manchester City easily won season 2017-2018, where they scored 106 goals. The number is higher than their rivals **Manchester United** in second place with 68 goals (Lee, 2018). The key to the success of the winner comes from the passing, where they have the highest number of passes (28 241 passes) among the 'Big Seven' and in the past.

Despite being relegated from the PL in 2009-2010 and 2016-2017, **Newcastle United** came back on 2017-2018 with a fine number of goals (39).



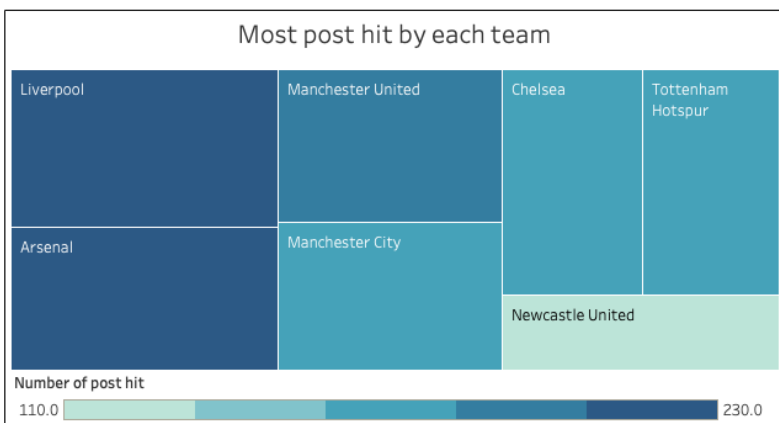
Offensive Performance

Various factors such as strategy, possession, and positioning could turn into goals, scoring is undoubtedly the essential key to beating the opponent (Ben, 2023). Sometimes, the team is not fortunate enough to score a goal and hit the post instead.



Despite not having the most goals, **Arsenal** score the most goals in the Inner Box (765), which is very close to the opponent goalkeeper. Moreover, the number of goals score in the Inner Box is significantly larger than other types of goals as in the chart shown.

Newcastle United has the least goals among other teams where the number of goal of other teams is almost twice as much **Newcastle United** has.



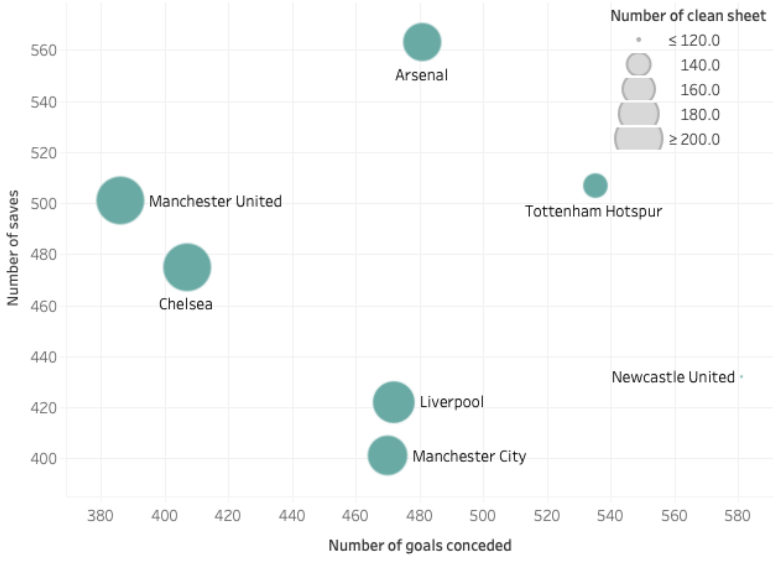
Scoring lots of goals could also mean that the teams shoot the ball at the post. In the above chart, **Liverpool** and **Arsenal** are the teams that hit the post the most with 227 and 206 respectively.

Most team in the 'Big Seven' has hit the post more than 120 times, while **Newcastle United** has the least number of hitting the post with 112 times.

Defensive Performance

Opposite to offensive is defensive, which is another essential in football. Rather than score a goal, the aim of defending is to stop the opponent from scoring a goal (Complete Soccer Guide, 2010). There are multiple techniques to prevent the opponent, for example, tackling, clearance and saves.

Defensive efficiency by each team

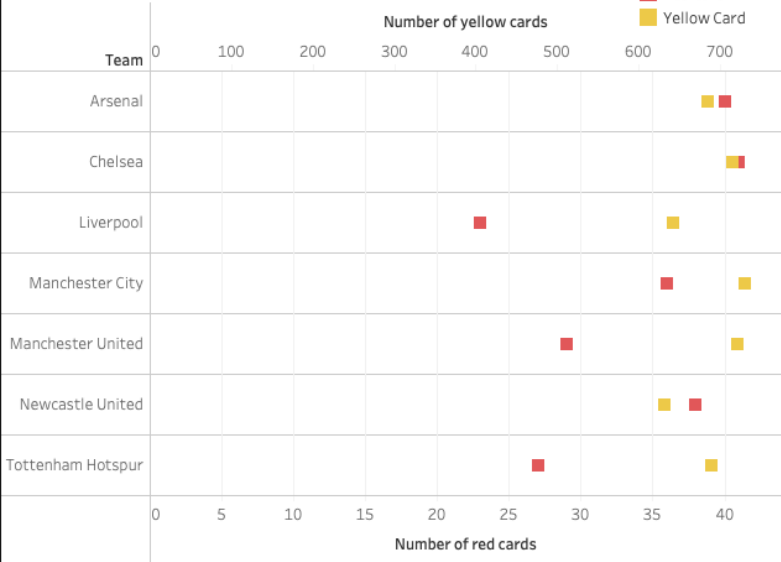


Arsenal has the highest saves by the goalkeeper where the team has a total of 563 saves. Moreover, there are 4 teams have more than 450 saves. The smallest number of saves is coming from **Manchester City**(401).

In the list of letting the opponent scoring, Newcastle is on top of the list with 581 goal conceded. Furthermore, the number of team having less than 500 goal conceded is 5 including **Manchester United**, **Chelsea**, **Arsenal**, **Liverpool** and **Manchester City**.

On contrast, the team that has number of match without letting the opponent scoring (clean sheet) is **Manchester United** (206). It is reasonable that **Newcastle United** has the least number of clean sheet.

Red Cards vs Yellow Cards by each team



Prevent the opponent from scoring by rough play such as tackle or trick could lead to yellow card for being unsportsmanlike. The penalty could be further extended to red card where the player will be sent out of the field.

Despite having the most goal in season 2017-2018, **Manchester City** could not prevent them from fouling the opponent by having 731 yellow cards and 36 red cards.

Eventhough **Manchester United** is in the bottom three having most red cards, they has been notoriously for rough play before 2000s. In September 1997, Roy Keane, a player from **Manchester United**, has attempt on of the worst tackle that break a player's leg from their rival, **Manchester City** (Swan, 2023).