**FIFA World Cup Dashboard**

Fédération Internationale de Football Association, commonly referred to as FIFA is a non-profit organisation and the international governing body of football. Founded in 1904, they initially oversaw international competition between  [Belgium](https://en.wikipedia.org/wiki/Royal_Belgian_Football_Association), [Denmark](https://en.wikipedia.org/wiki/Danish_Football_Union), [France](https://en.wikipedia.org/wiki/Union_des_Soci%C3%A9t%C3%A9s_Fran%C3%A7aises_de_Sports_Athl%C3%A9tiques), [Germany](https://en.wikipedia.org/wiki/German_Football_Association), the [Netherlands](https://en.wikipedia.org/wiki/Royal_Dutch_Football_Association), [Spain](https://en.wikipedia.org/wiki/Royal_Spanish_Football_Federation), [Sweden](https://en.wikipedia.org/wiki/Swedish_Football_Association), and [Switzerland](https://en.wikipedia.org/wiki/Swiss_Football_Association). Now their membership oversees 211 national associations and each member is part of one of the following six regional confederations: [Africa](https://en.wikipedia.org/wiki/Confederation_of_African_Football), [Asia](https://en.wikipedia.org/wiki/Asian_Football_Confederation), [Europe](https://en.wikipedia.org/wiki/UEFA), [North & Central America and the Caribbean](https://en.wikipedia.org/wiki/CONCACAF), [Oceania](https://en.wikipedia.org/wiki/Oceania_Football_Confederation), and [South America](https://en.wikipedia.org/wiki/CONMEBOL). All of the national associations are able to play to try and qualify for the World Cup tournament with the exception of the hosting country who automatically qualifies. Those that qualify are split into groups which play further round robin matches to progress into the final series.

FIFA has employed team JJA to create a dashboard for officials, teams and soccer fans around the world to investigate trends of successful teams to help with game strategies, future development of the sport and provide general knowledge. Successful teams for this exercise have been defined as those that have finished first, second, third and fourth in the tournament.

The factors that are being investigated are as follows:

1. Distance that the teams have to travel to compete in the World Cup
2. Teams that consist of players that have experience playing in multiple world cup tournaments
3. The FIFA ranking of the team before they enter the World Cup tournament and where they finished in the tournament
4. Average number of goals kicked and conceded in matches to compare the impact of the attacking and defending strength of a team

Data analysis and presentation

1. Distance travelled
   1. Bar chart: How many times the hosting country has finished 1st, 2nd, 3rd, 4th
   2. Leaflet map with markers, with a dropdown menu filtering on the year of the tournament, to display the location of where the World Cup was held and the locations of where the teams that are based that finished 1st, 2nd, 3rd and 4th
2. Players’ experience
   1. Line chart: tournament year on the x-axis, number of new players recruited in the team on the y-axis, each line is a different team.
3. FIFA ranking vs finishing position in tournament
   1. Animated scatter plot: FIFA rank on the x-axis, world cup position on the y-axis, transitioning for each year
4. Goals kicked and conceded
   1. Lollipop chart: number of goals on the x-axis, list of countries on the y-axis, each dot colour coded for goals kicked and conceded