Figure 1: Grouped bar chart showing the ratio of headers and shots with foot as a percentage of total shots, together with the percentage of chances that results in goal

0.0.1 What-why-how

This idiom (Figure 1) shows the number of shots taken with the players' feet, versus their head, as well as the ratio of goals per chance ('successful chances'). The groups (teams) are ordered based on their ranking in the league, with the highest ranking team as the first group. This visualization was created to see if there is a correlation between a team's ranking, and how many shots were headers, as well as how many of their chances were successful.

0.0.2 Code

As with the other grouped bar charts, R was used exclusively, with the Excel sheet as input data. The variables in question were selected, then split into different tables for each team. Then the variables were summed, and shots from head and foot were divided by total shots. The successful chances were calculated by dividing the total number of goals

with the total number of chances. ggplot2 was utilized to create the grouped bar chart, ordering the groups by the ranking of the team, with the highest ranked team as the first group.