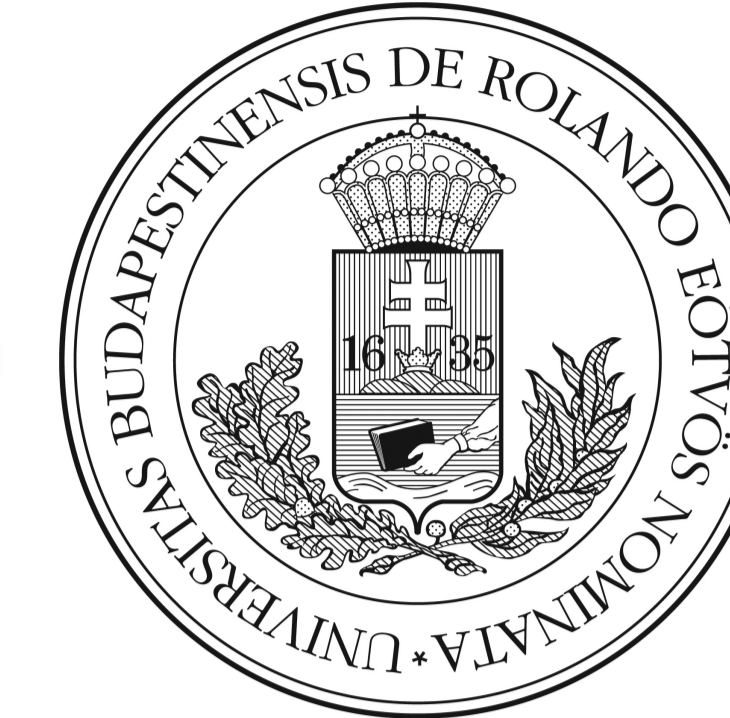


Interactive visualization: cooperation on the football pitch

→ simonlevente.github.io/datastories2021/index.html

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Abstract

Network science may focus the attention on the evolution of cooperation. Be it scientific networks or team sports, interactions between the nodes of a network can be visualized by highlighting its most weighed links.

Based on open source data published in (Buldú et al., 2018), this data visualization chooses an interactive way to highlight cooperation in the context of a football match between teams Real Madrid and Barcelona from La Liga 2017/2018 season.

Initially the most frequent connections appear on screen, while by pulling the slider weaker connections also appear. The details of each player are displayed on click.

Tech stack bases were used on Javascript and the P5js library based on the core principles of Processing. The interactive visualization can be reached on on the web address simon.levente.github.io/datastories2021/index.html.

Most frequent cooperations are highlighted initially and less appearing pairs undirected links are also showed following by a step on the slider. Moreover, the details of each player are displayed on click.

Used tech stack bases on javascript and the P5js library based on the core principles of Processing. The interactive visualization can be reached on on the web address simon.levente.github.io/datastories2021/index.html.

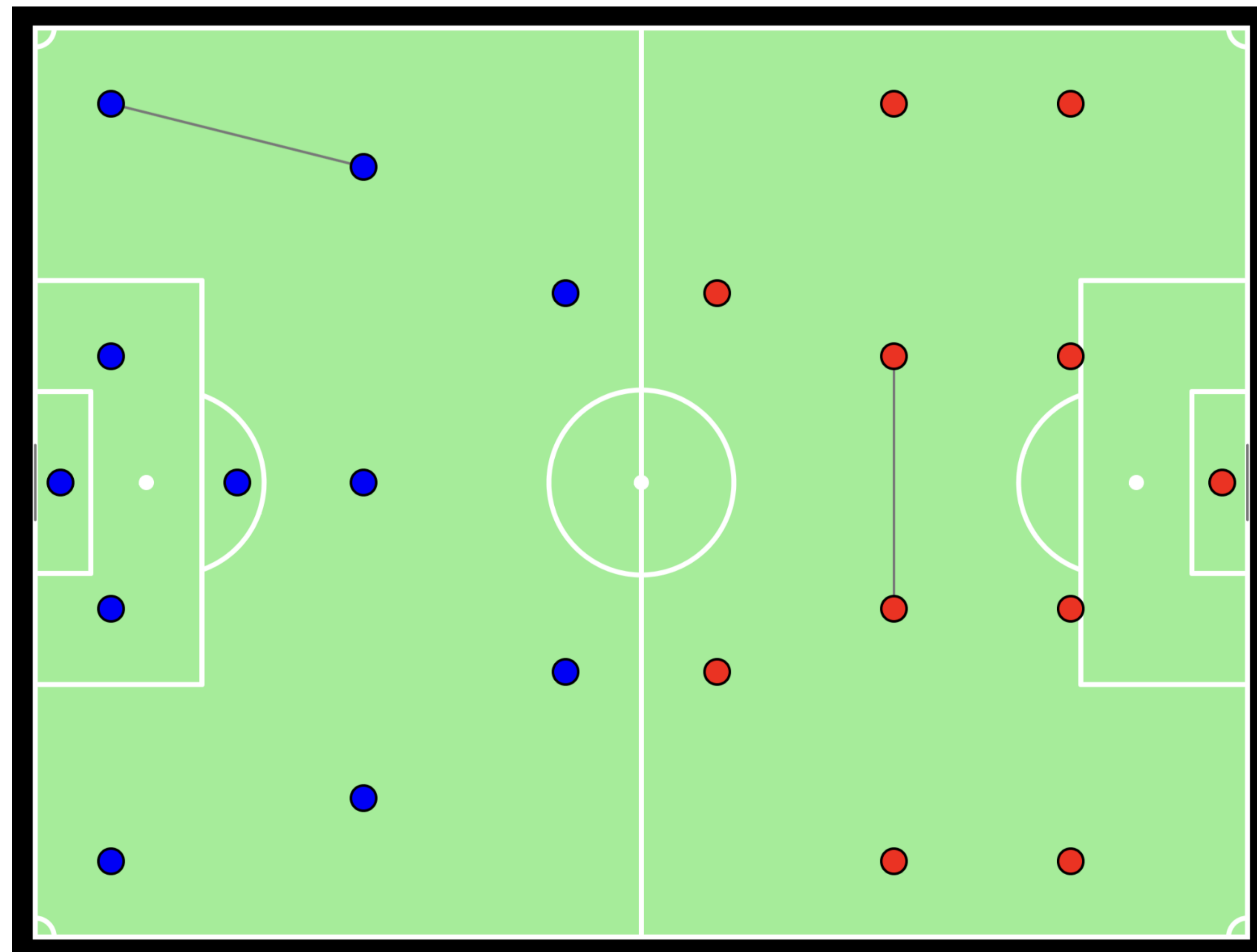


Figure 1: Most frequent passing pairs for the teams Barcelona and Real Madrid.

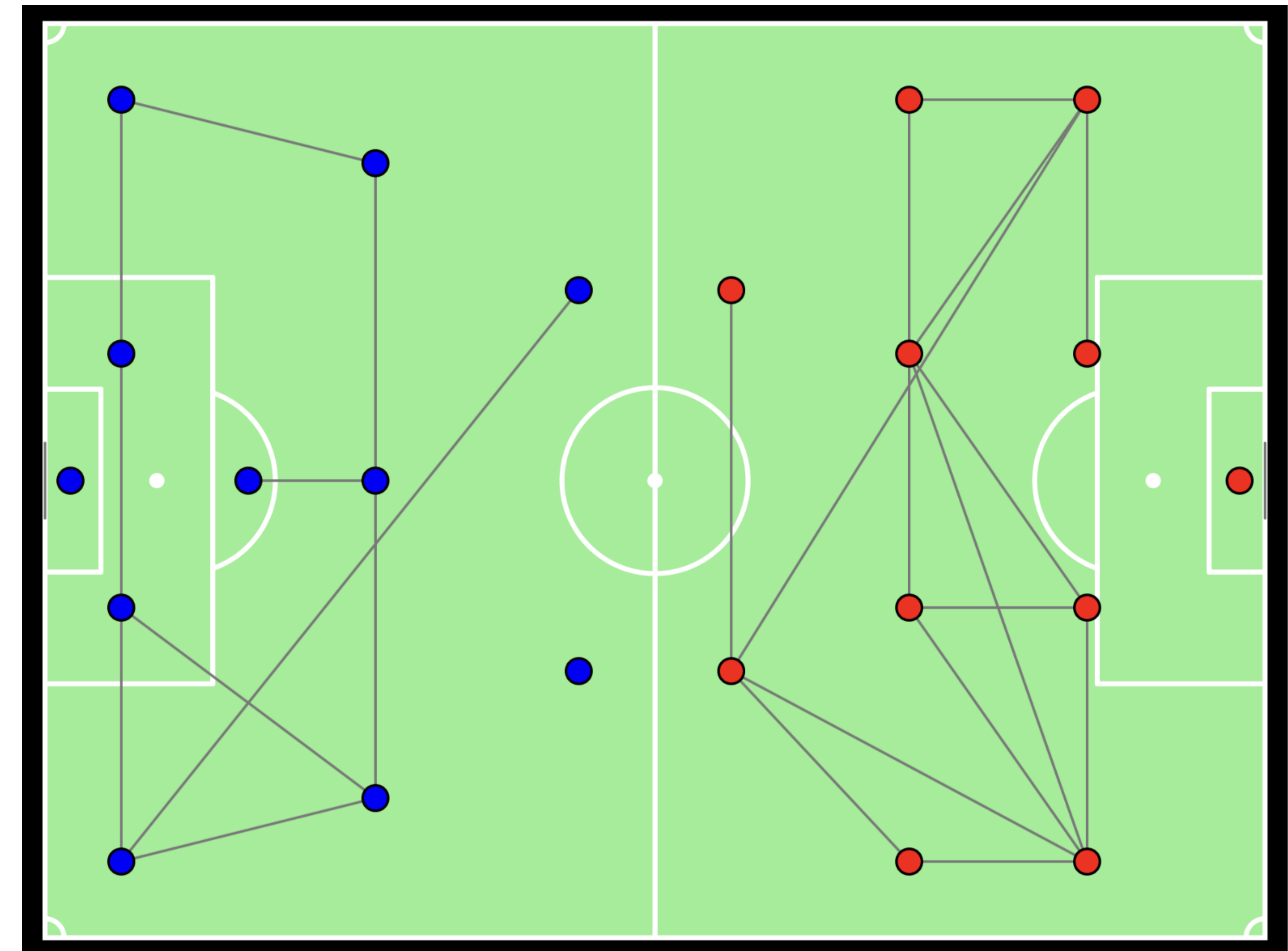


Figure 2: E very passing pairs for the teams Barcelona and Real Madrid.

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