

# CS 467: Final Project

A visualization of the motion of soccer

## Shots and Goals

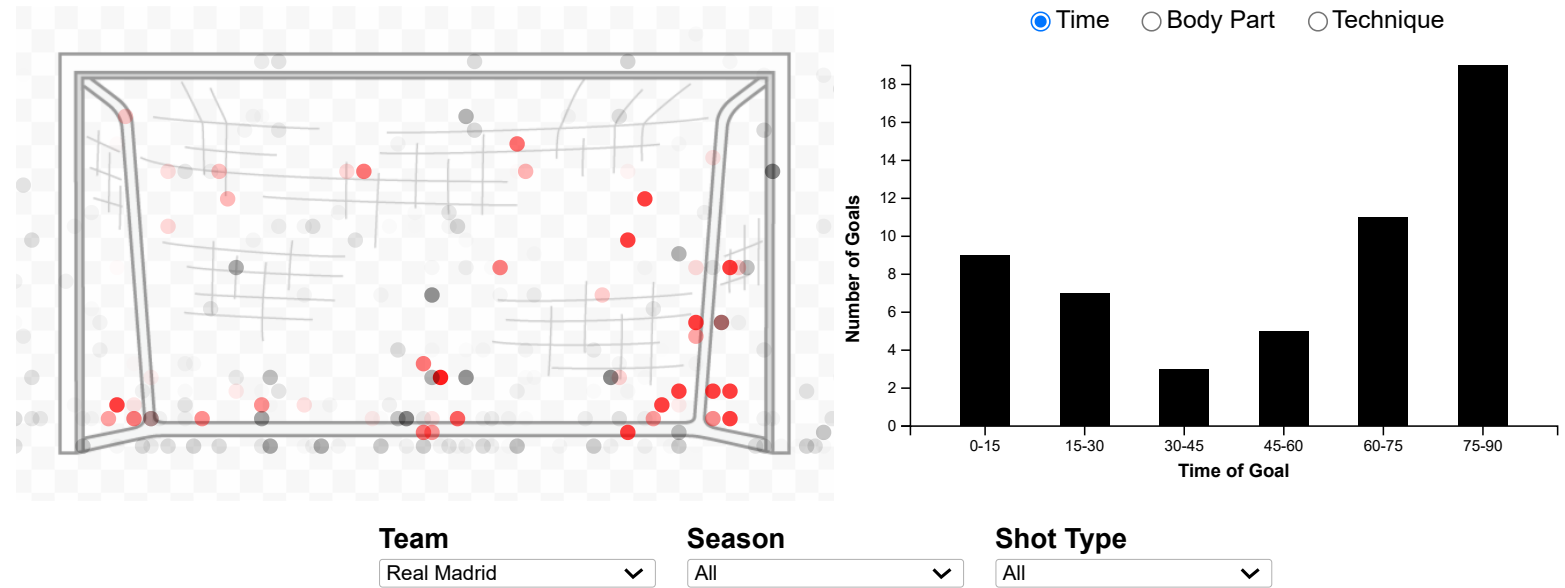
This design visualizes the spatial layout of attempted shots and their conversion to goals on a regulation sized soccer goal post. Begin by selecting a team. All team data is displayed by default and can be further filtered by competition season and shot type.

Each shot is denoted by a point drawn on the goalpost.

**Red** points denote shot attempts that ended up in goal, while **Black** points denote attempts that were blocked or off-target. Opacity denotes a shot's xG (eXpectedGoals) statistic, a popular metric used to measure the likelihood of scoring. Easier shots have high xG and appear more solid, while harder shots have lower xG and appear more transparent.

The barchart on the right displays analytics for the selected data.

**Time:** 15-minute interval during which successful goals were made  
**Body Part:** Which body part was used to make shot attempts  
**Technique:** How shots were made (*Hover for more*)



## Passes and Assists

These designs visualize the spatial distribution of passes and assists over the pitch. The pitch is a regulation-sized 120-by-80 yard field. The selected team's direction of play is to the right.

