

CS171 Final Project - Initial Project Plan  
Michael Woo, George Zhang, Jeffrey Zhao

## **Introduction**

Data analytics in sports has grown rapidly over the past decade. Team data, such as win-loss records, and individual data have contributed to changes in the way teams play and construct their rosters. Our goal is to provide compelling visualizations for viewing this data with the objective of determining what makes a team successful. We will focus on basketball, specifically the Golden State Warriors, for our analysis.

The Golden State Warriors in the 2015-2016 NBA Season are on track to break the all time single season win record and are arguably playing some of the best basketball in the last couple of decades. Our visualizations will use rich data sources to try and explain what exactly makes the Warriors different from other teams in the league and attempt to explain some factors of their success.

## **Data**

Our data will largely come from stats.nba.com. An additional data source might be basketball-reference.com. The NBA has detailed stats on both players and teams. Since we will be focusing on the Golden State Warriors, we will mostly take advantage of their diverse player stats, though if we successfully complete the visualizations ahead of schedule, the team data available provides an opportunity to compare data between teams. A few particular aspects of the data we might look at include field goal percentage, points per game, rebounds per game, and PER (Player Efficiency Rating).

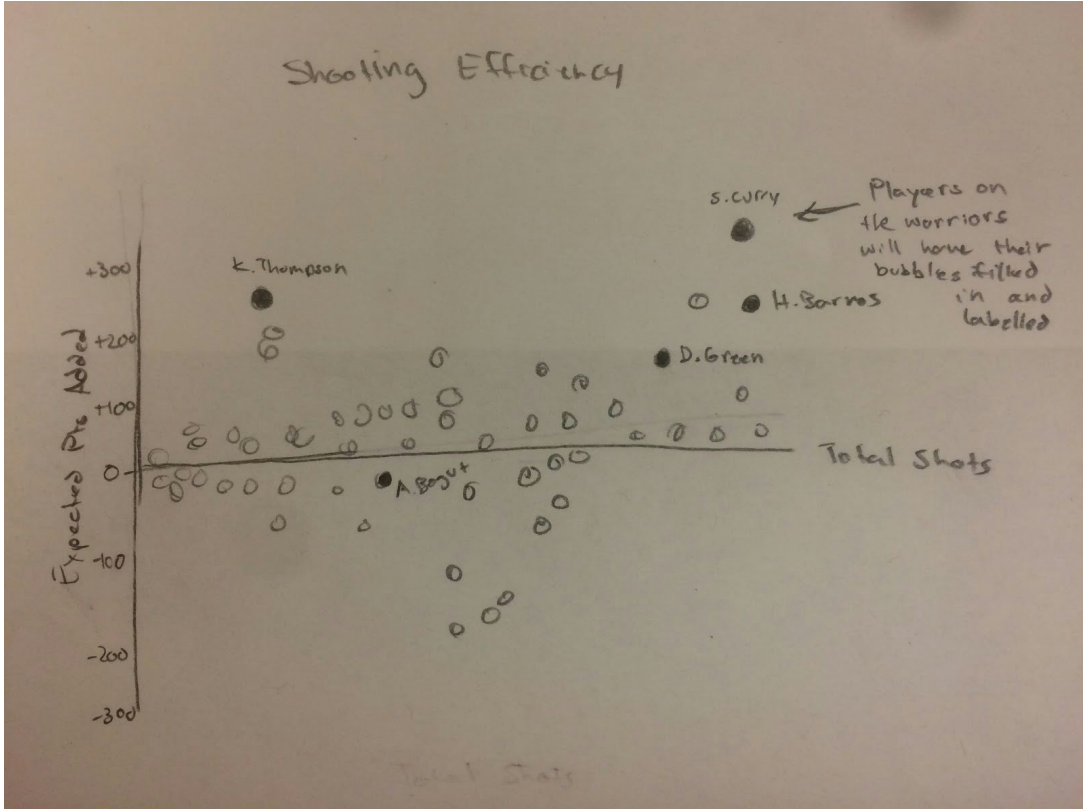
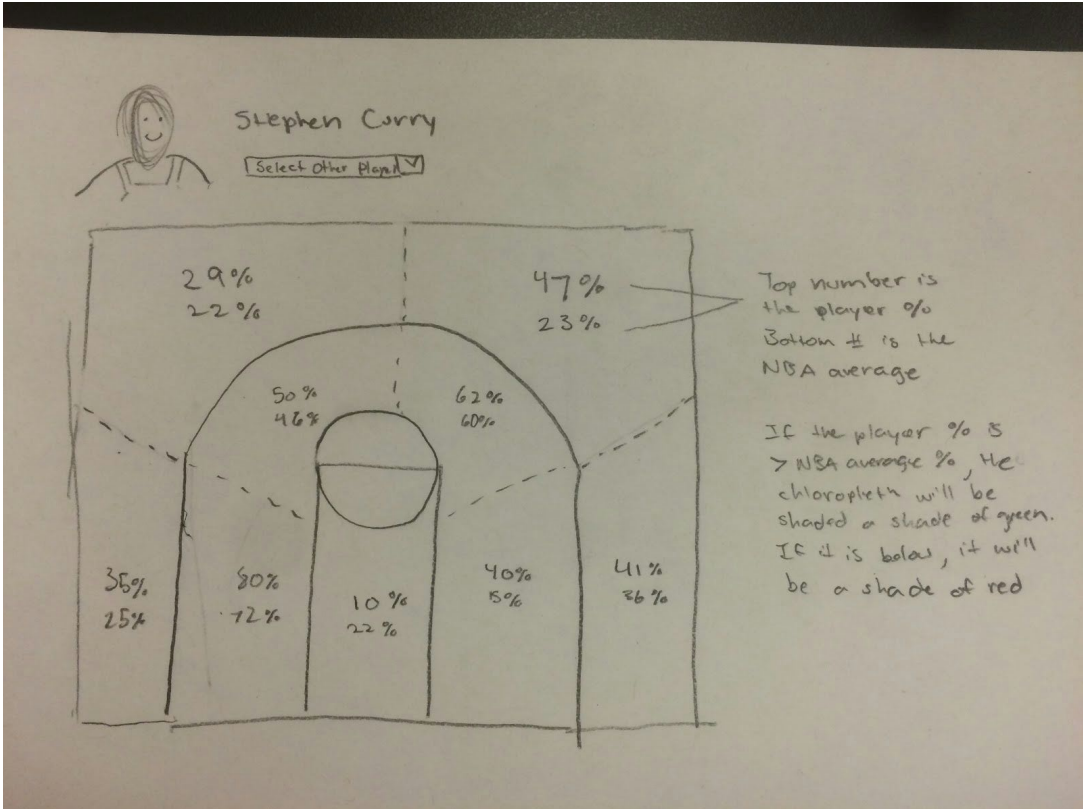
## **Goals**

- What's successful in the NBA
- Find out what kind of style in the NBA is trending?
- Who are the star players in each position according to the data?
- How might coaches / teams respond to new styles of play?

## **Tasks**

- Obtaining data / finding additional sources
- Coming up with an overall storyline for the website
- Writing content that contextualizes visualizations
- Design/CSS for the website outside of the visualizations
- Design/implementation of visualizations
- Putting website on production

Visualization Mockups



Klay Thompson  
Golden State Warriors

