



National Basketball Association 2K20



Session 0111
Spring 2023

Summary

NBA 2K is a series of basketball sports simulation video games developed by Visual Concepts and released annually since 1999. The premise of the series is to emulate the sport of basketball, and more specifically, the National Basketball Association.

About the Data

The data selected is a player dataset from the NBA2K20 video game.. The data includes 464 observations of 15 variables. The data includes detailed attributes for players that are included in the game. The data also includes the players names., their overall rating in the game with 100 being the highest and 0 being the lowest. The data also includes the player's jersey number, the current team they play for, their position, date of birth, height, weight, salary, and nationality.

Data Source: NBA2k20 Player Ranking Data (<https://www.kaggle.com/datasets/isaikenov/nba2k20-player-dataset>)
R Packages used: ggplot2, tm, wordcloud, RcolorBrewer, plotrix, rworldmap

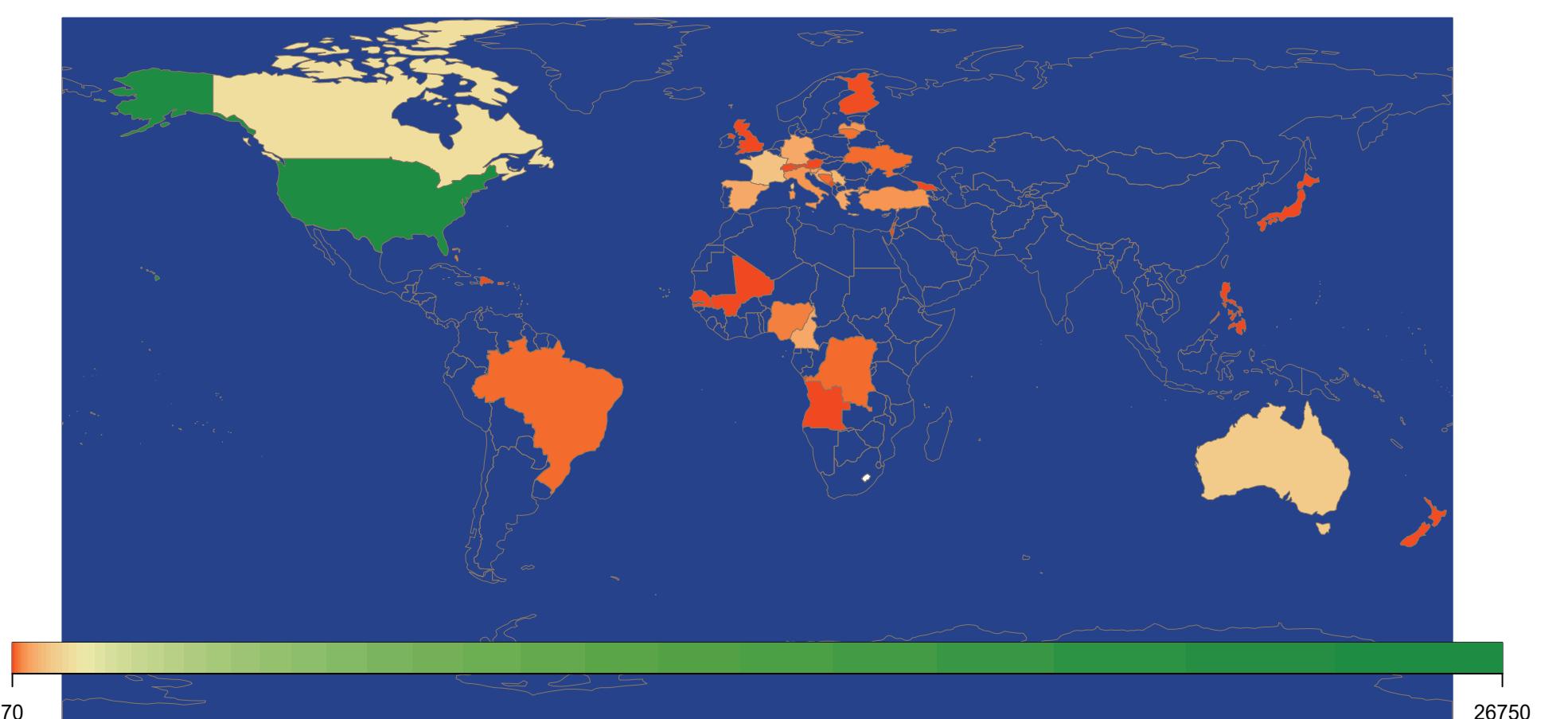
Ranking By Country

During the 1992 Olympic Games, a "Dream Team" led by NBA stars Michael Jordan, Magic Johnson and Larry Bird electrified basketball on a global stage. Now, 27 years later, fans around the world watched a Canadian team led by an African general manager and a core of international stars win the 2018-19 NBA championship as the league crowned an MVP from Greece.

Indeed, the NBA's international influence has become far-reaching, spawning "golden generations" of players in Spain, Argentina and Australia, as well as actively shaping basketball culture in China, Europe and Africa.

By aggregating the player rankings by the country where the player was born, we should get a pretty idea of how the 1992 "Dream Team" influenced the global expansion and the global love for basketball and the National Basketball Association around the world.

NBA2K Player Rating by Country



Ranking By Position

In the sport of basketball, there are five players that play per team, each assigned to positions. Historically, these players have been assigned to positions defined by the role they play on the court, from a strategic point of view. The three main positions are guard, forward, and center, with the standard team featuring two guards, two forwards, and a center. Over time, as more specialized roles developed, each of the guards and forwards came to be differentiated, and today each of the five positions are known by unique names, each of which has also been assigned a number: point guard (PG) or 1, small forward (SF) or 3, the power forward (PF) or 4, and the center (C) or 5. By taking the combined overall NBA 2K20 ratings per player and aggregating by positions. We should have a better idea of what positions the top rated



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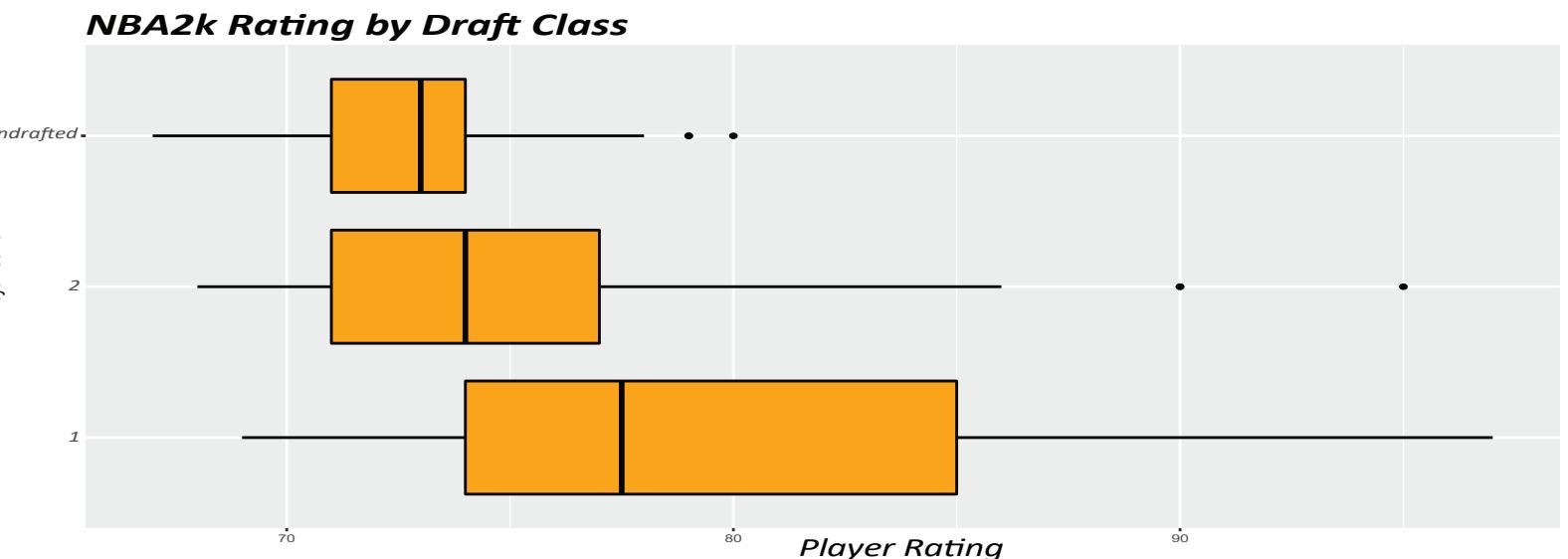
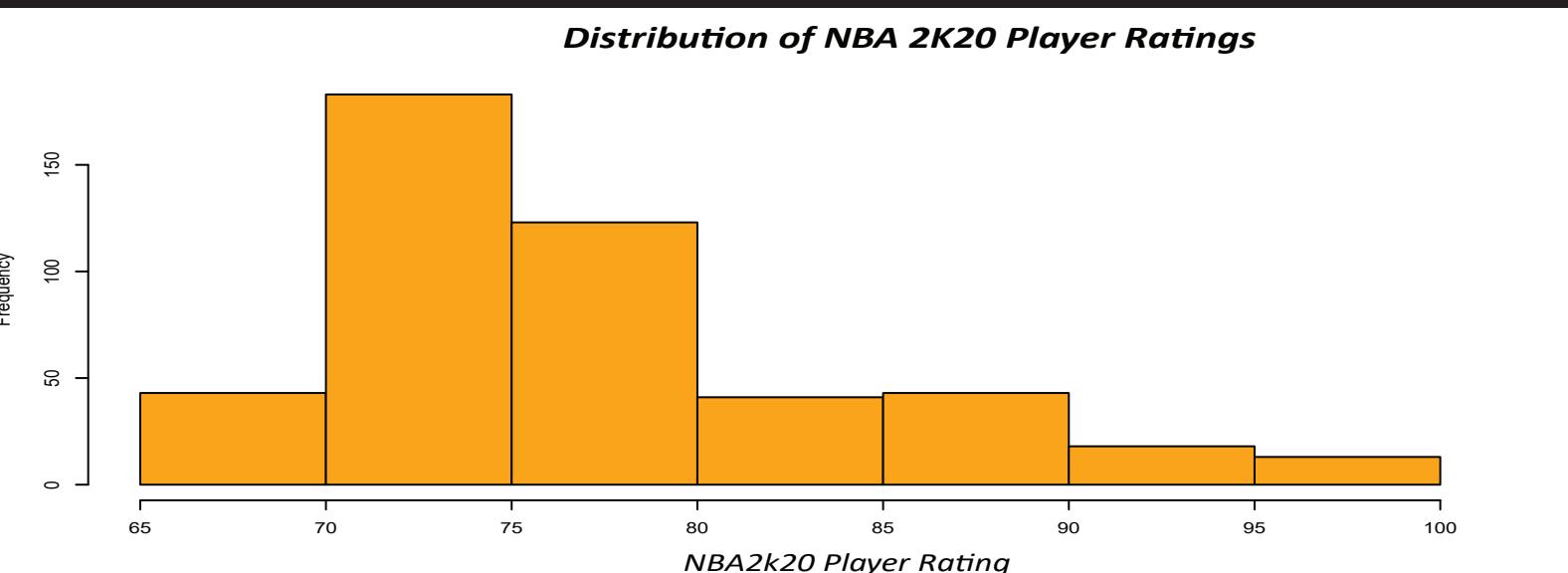
Audience

This poster will be of interest to anyone that is interested in the sport of basketball and/or anyone who loves to play sports related video games. The findings will allow you to make determinations about the different teams in the Association as well as the superstars and how they stack up against one another.

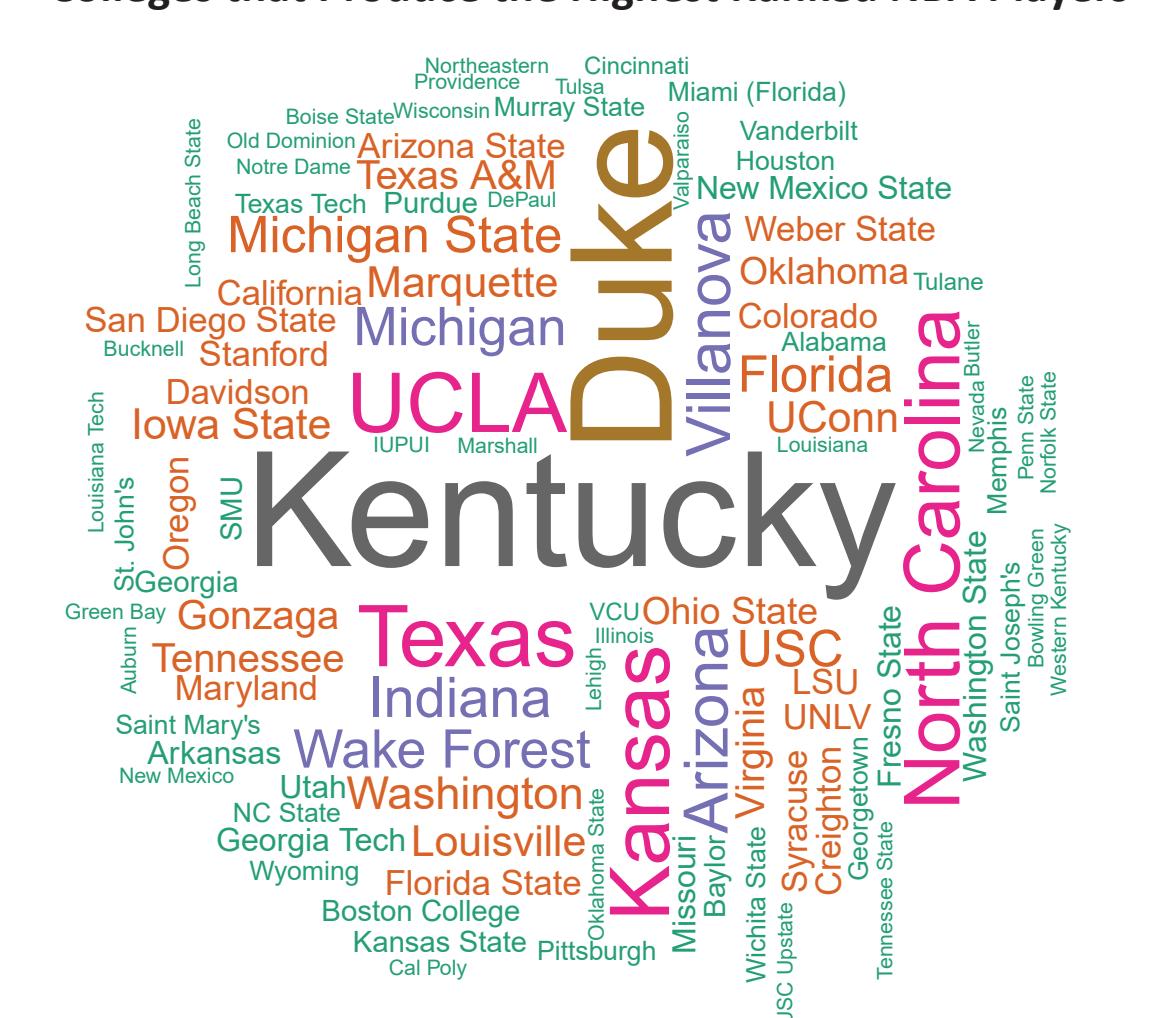
Questions

- Where are the highest rated NBA players from in the world?
- What colleges produce the highest rated NBA players?
- What teams have the highest rated players?

Distribution of NBA 2K20 Player Ratings



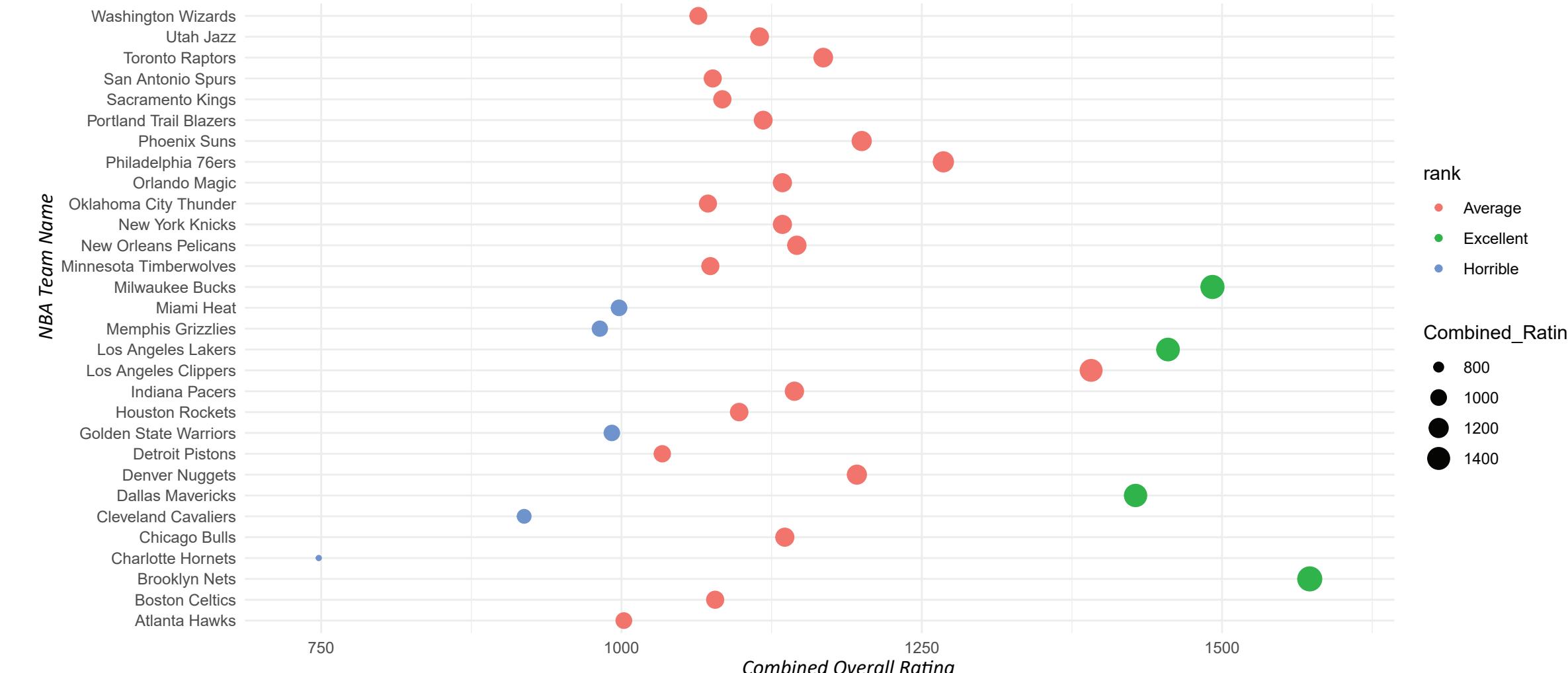
Colleges that Produce the Highest Ranked NBA Players



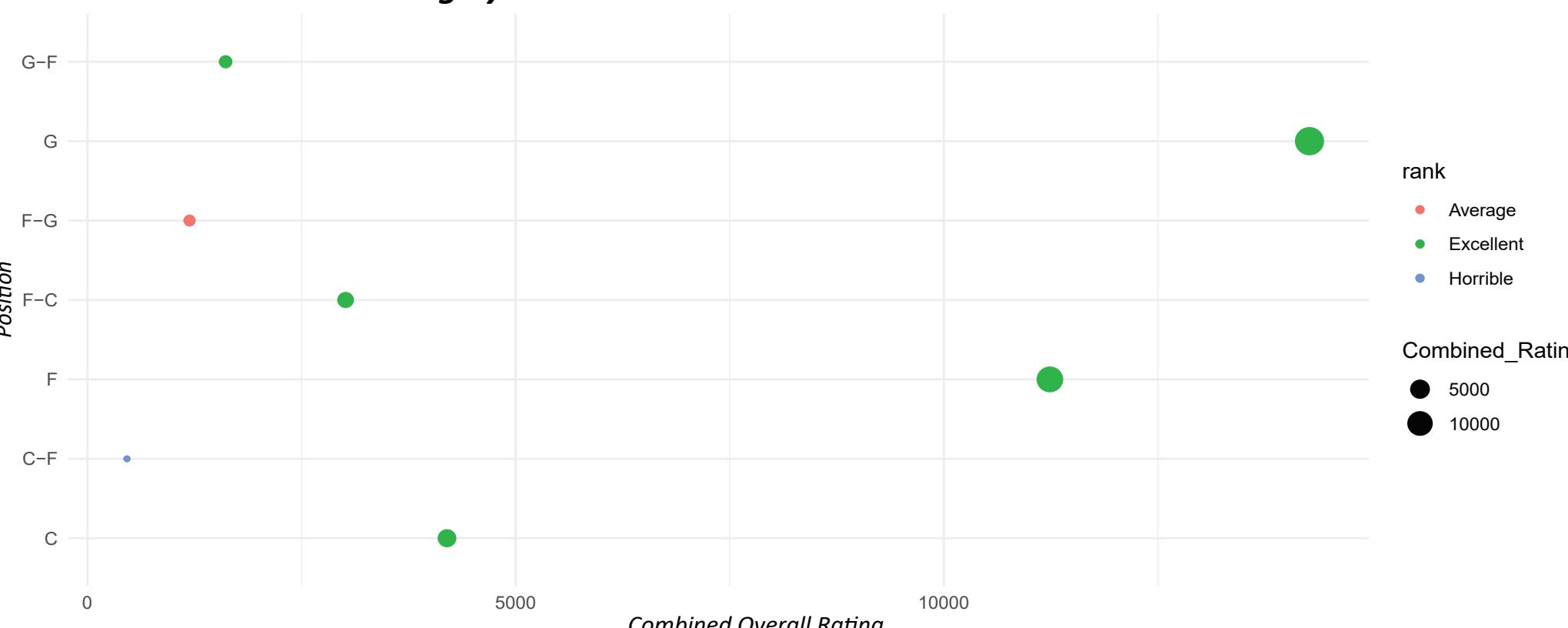
Ranking By Team

The NBA originated in 1946 with 11 teams, and through a sequence of team expansions, reductions and relocations currently consists of 30 teams. The United States is home to 29 teams; another is in Canada. The current league organization divides 30 teams into two conferences of three divisions with five teams each. The current divisional alignment was introduced in the 2004-2005 season. Reflecting the population distribution of the United States and Canada as a whole, most teams are in the eastern half of the country. By aggregating the player rankings by team, we should have a pretty good idea who the top ranked teams are in the National Basketball Association.

NBA2K Combined Ranking by Team



NBA2K Combined Rating by Position



NBA Teams with the Most NBA Championships

