

Basketball Plot Stars

<https://github.com/Hoolahups/projectr5555>

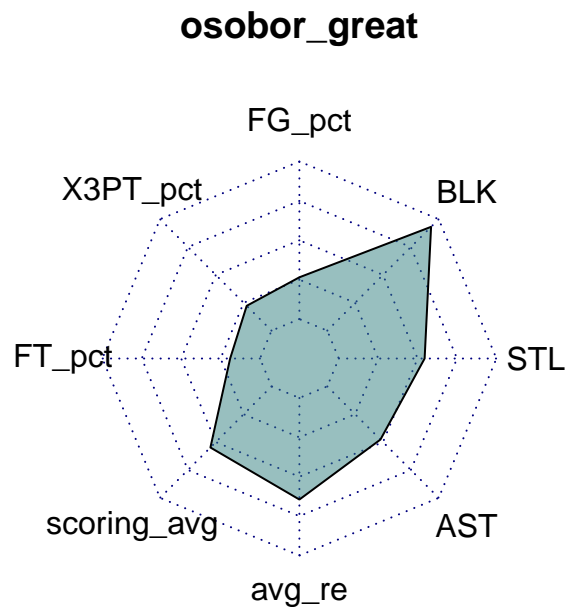
Our package scrapes player statistics for a university basketball team from the official team website and provides functions to create user-specified plots.

The `get_data` function takes a URL as an argument and scrapes the corresponding webpage. Many NCAA basketball teams use a format for their website identical to USU's, and so this function works for any team using that format. The function checks that the HTML scraped from the website matches an expected format, but the user should check to make sure that the desired team statistics page looks visually similar to USU's.

```
usu_t2023 <- get_data("https://utahstateaggies.com/sports/mens-basketball/stats/2023-24")
```

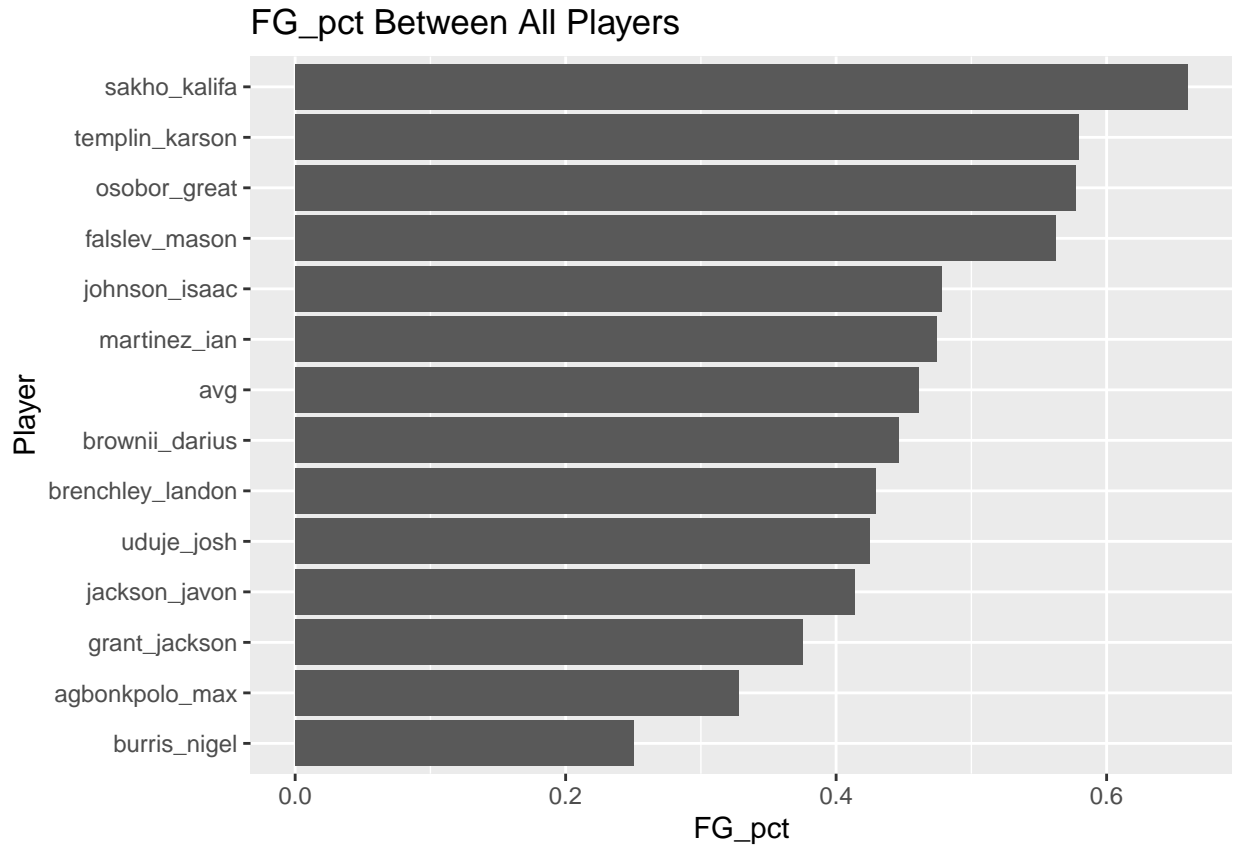
The `player_star` function takes the team as an argument, and one of the players from the team as an argument. The function creates a star plot of eight default statistics about the player.

```
player_star(usu_t2023, "osobor_great")
```



The `team_bar` function creates a horizontal bar plot. It takes the team and a stat as arguments, and it compares who has the highest and lowest of these statistics.

```
team_bar(usu_t2023, 'FG_pct')
```



The `compare_stats` function creates a scatterplot of two statistics from the team. It takes a team argument, and two stats must be chosen to compare.

```
compare_stats(usu_t2023, 'FG_pct', 'X3PT_pct')
```

Relationship Between FG_pct and X3PT_pct

