



NBA Dream Player Insights for 2023 and 2024

Group F (DPV Final Project 24/25)

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Our Data Explanation

	A	B	C	D	E	F	G	H	I	J	K
1	Player	Pos	Age	Tm	G	GS	MP	FG	FGA	FG%	3P
2	Precious	Center (ba	24	TOR	25	0	17.5	3.1	6.8	0.459	0.
3	Precious	Power For	24	NYK	1	0	9	0	2	0	
4	Bam Adeb	Center (ba	26	MIA	23	23	34.1	8	15.7	0.506	
5	Ochai Agt	Shooting G	23	UTA	34	10	21.1	2.6	5.7	0.451	1.
6	Santi Alda	Power For	23	MEM	25	5	24	4.2	9.5	0.443	1.

K	L	M	N	O	P	Q	R	S	T	U	V	W
3P	3PA	3P%	2P	2PA	2P%	eFG%	FT	FTA	FT%	ORB	DRB	TRB
0.5	1.9	0.277	2.6	4.9	0.528	0.497	1	1.7	0.571	2	3.4	5.4
0	0	0	0	2	0	0	0	0		1	2	3
0	0.3	0.167	7.9	15.5	0.511	0.507	6	7.8	0.777	2.1	8.3	10.4
1.2	3.3	0.354	1.4	2.4	0.585	0.554	0.3	0.4	0.714	0.8	1.7	2.5
1.6	4.8	0.345	2.6	4.7	0.542	0.53	0.9	1.6	0.59	1.3	4	5.4
1.4	3.8	0.369	1	1.9	0.516	0.541	0.3	0.5	0.647	0.4	1.3	1.8
2.4	5.3	0.456	2.1	3.6	0.58	0.642	1.8	1.9	0.907	0.9	3.5	4.3

V	W	X	Y	Z	AA	AB	AC
DRB	TRB	AST	STL	BLK	TOV	PF	PTS
3.4	5.4	1.8	0.6	0.5	1.2	1.6	7.7
2	3	0	0	0	0	2	0
8.3	10.4	4	1.1	1	2.7	2.4	22
1.7	2.5	1	0.6	0.5	0.7	1.5	6.6
4	5.4	1.8	0.6	0.7	1	1.6	11
1.3	1.8	2.4	0.9	0.6	1	1.9	6.6

More Info visit the link below:

petra.id/NBA_Atribute_Explanation_GroupF_DPV24-25

Project Overview and Goal

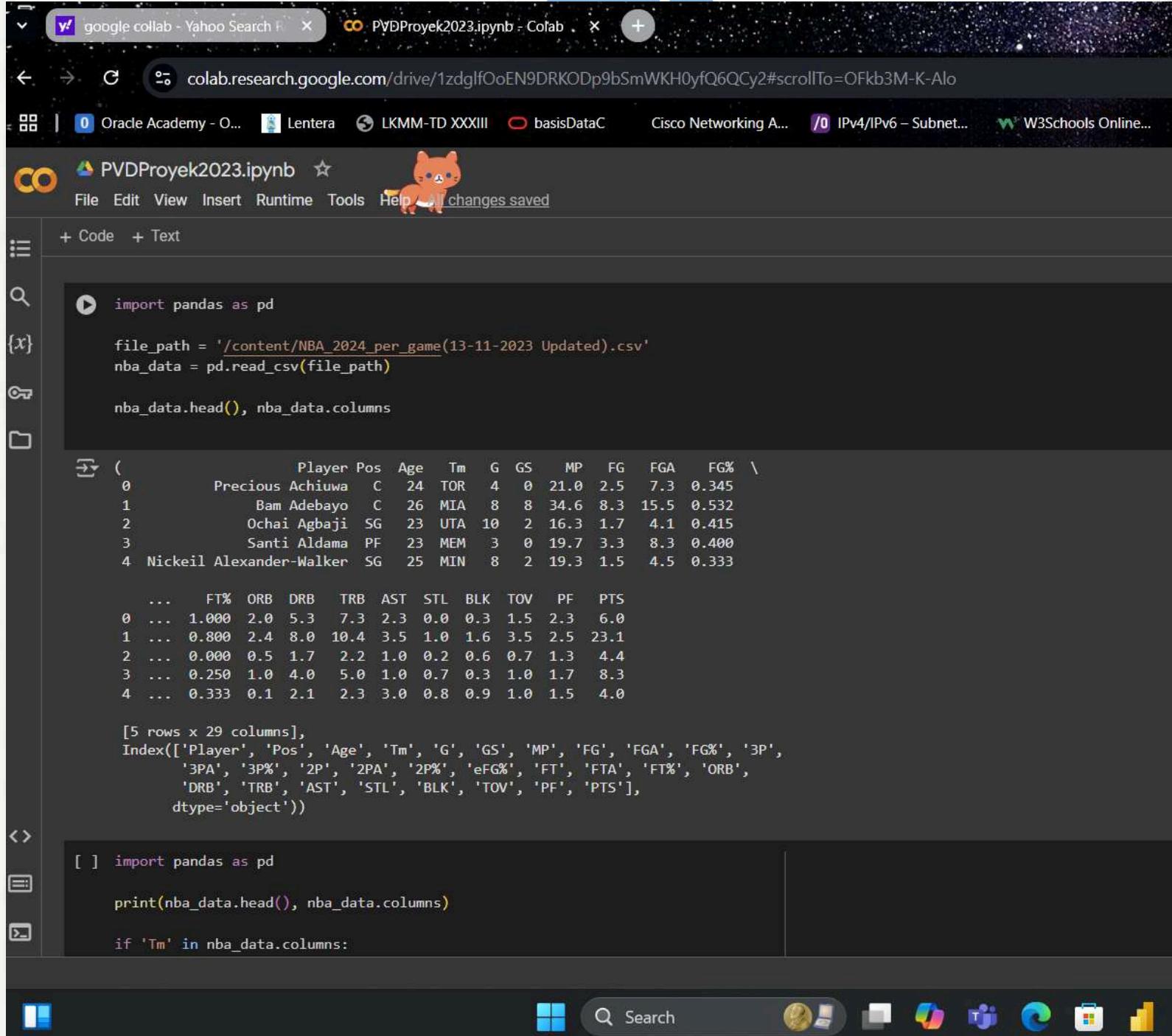
01. "How do we process the data?"
02. "What actions and insights are gained?"
03. Final conclusion & Our Summary

Our Analyzation Tools

- Tableau (Visualization, Dashboard, and Stories)
- Python (For Data Pre-Processing)



"How do we process the data?"



```
import pandas as pd

file_path = '/content/NBA_2024_per_game(13-11-2023 Updated).csv'
nba_data = pd.read_csv(file_path)

nba_data.head(), nba_data.columns
```

	Player	Pos	Age	Tm	G	GS	MP	FG	FGA	FG%	FT%	ORB	DRB	TRB	AST	STL	BLK	TOV	PF	PTS
0	Precious Achiuwa	C	24	TOR	4	0	21.0	2.5	7.3	0.345	1.000	2.0	5.3	7.3	2.3	0.0	0.3	1.5	2.3	6.0
1	Bam Adebayo	C	26	MIA	8	8	34.6	8.3	15.5	0.532	0.800	2.4	8.0	10.4	3.5	1.0	1.6	3.5	2.5	23.1
2	Ochai Agbaji	SG	23	UTA	10	2	16.3	1.7	4.1	0.415	0.000	0.5	1.7	2.2	1.0	0.2	0.6	0.7	1.3	4.4
3	Santi Aldama	PF	23	MEM	3	0	19.7	3.3	8.3	0.400	0.250	1.0	4.0	5.0	1.0	0.7	0.3	1.0	1.7	8.3
4	Nickeil Alexander-Walker	SG	25	MIN	8	2	19.3	1.5	4.5	0.333	0.333	0.1	2.1	2.3	3.0	0.8	0.9	1.0	1.5	4.0

[5 rows x 29 columns]
Index(['Player', 'Pos', 'Age', 'Tm', 'G', 'GS', 'MP', 'FG', 'FGA', 'FG%', 'FT', 'FTA', 'FT%', 'ORB', 'DRB', 'TRB', 'AST', 'STL', 'BLK', 'TOV', 'PF', 'PTS'],
 dtype='object')

```
[ ] import pandas as pd

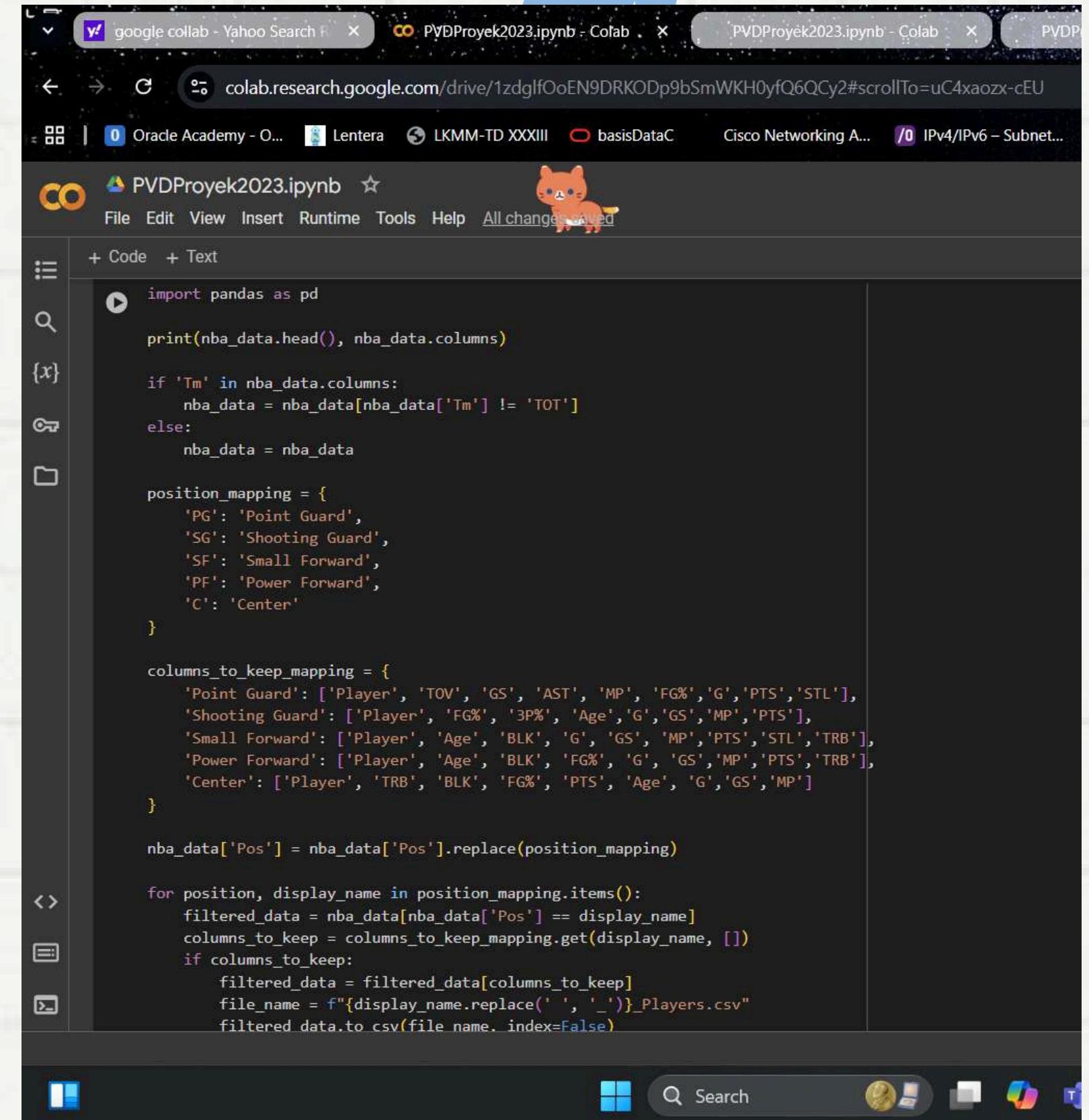
print(nba_data.head(), nba_data.columns)

if 'Tm' in nba_data.columns:
```

We use Python to split the dataset into 5 different main files based on the position of each basketball player (Small Forward, Power Forward, Center, Shooting Guard, and Point Guard).

"How do we process the data?"

Discard data that has $Tm = TOT$, because TOT represents a player who serves as a backup for other players, so both the role (which can be two roles simultaneously) and the team of that player can change. At the same time, take the most important parts and factors from each position based on the results of our survey on the website (for example, a power forward must have specific field attributes to be considered a good power forward).



The screenshot shows a Google Colab notebook titled "PVDProjek2023.ipynb". The code cell contains the following Python script:

```
import pandas as pd

print(nba_data.head(), nba_data.columns)

if 'Tm' in nba_data.columns:
    nba_data = nba_data[nba_data['Tm'] != 'TOT']
else:
    nba_data = nba_data

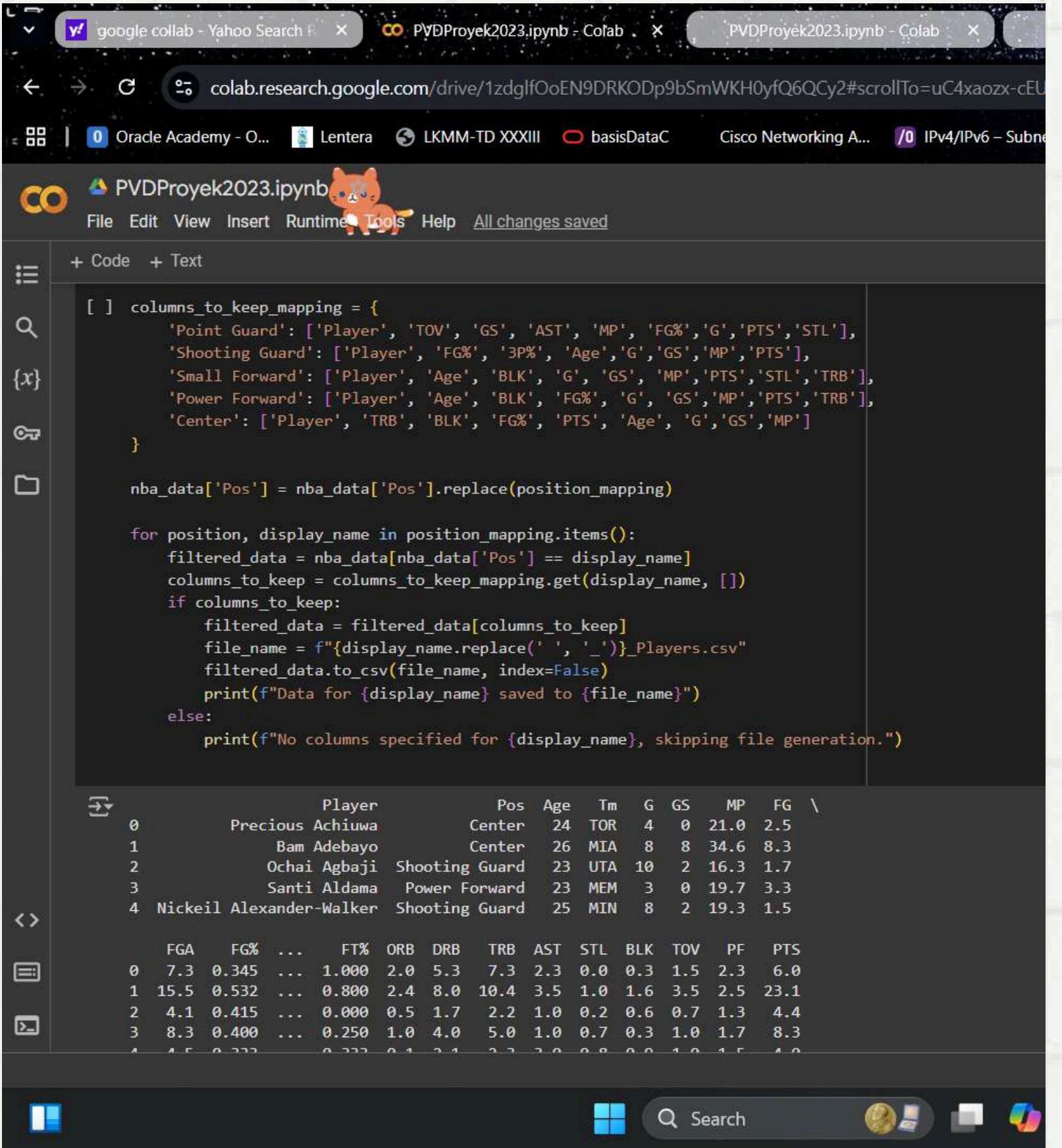
position_mapping = {
    'PG': 'Point Guard',
    'SG': 'Shooting Guard',
    'SF': 'Small Forward',
    'PF': 'Power Forward',
    'C': 'Center'
}

columns_to_keep_mapping = {
    'Point Guard': ['Player', 'TOV', 'GS', 'AST', 'MP', 'FG%', 'G', 'PTS', 'STL'],
    'Shooting Guard': ['Player', 'FG%', '3P%', 'Age', 'G', 'GS', 'MP', 'PTS'],
    'Small Forward': ['Player', 'Age', 'BLK', 'G', 'GS', 'MP', 'PTS', 'STL', 'TRB'],
    'Power Forward': ['Player', 'Age', 'BLK', 'FG%', 'G', 'GS', 'MP', 'PTS', 'TRB'],
    'Center': ['Player', 'TRB', 'BLK', 'FG%', 'PTS', 'Age', 'G', 'GS', 'MP']
}

nba_data['Pos'] = nba_data['Pos'].replace(position_mapping)

for position, display_name in position_mapping.items():
    filtered_data = nba_data[nba_data['Pos'] == display_name]
    columns_to_keep = columns_to_keep_mapping.get(display_name, [])
    if columns_to_keep:
        filtered_data = filtered_data[columns_to_keep]
        file_name = f"{display_name.replace(' ', '_})_Players.csv"
        filtered_data.to_csv(file_name, index=False)
```

"How do we process the data?"



```
[ ] columns_to_keep_mapping = {
    'Point Guard': ['Player', 'TOV', 'GS', 'AST', 'MP', 'FG%', 'G', 'PTS', 'STL'],
    'Shooting Guard': ['Player', 'FG%', '3P%', 'Age', 'G', 'MP', 'PTS'],
    'Small Forward': ['Player', 'Age', 'BLK', 'G', 'GS', 'MP', 'PTS', 'STL', 'TRB'],
    'Power Forward': ['Player', 'Age', 'BLK', 'FG%', 'G', 'GS', 'MP', 'PTS', 'TRB'],
    'Center': ['Player', 'TRB', 'BLK', 'FG%', 'PTS', 'Age', 'G', 'GS', 'MP']
}

nba_data['Pos'] = nba_data['Pos'].replace(position_mapping)

for position, display_name in position_mapping.items():
    filtered_data = nba_data[nba_data['Pos'] == display_name]
    columns_to_keep = columns_to_keep_mapping.get(display_name, [])
    if columns_to_keep:
        filtered_data = filtered_data[columns_to_keep]
        file_name = f"{display_name.replace(' ', '_")}_Players.csv"
        filtered_data.to_csv(file_name, index=False)
        print(f"Data for {display_name} saved to {file_name}")
    else:
        print(f"No columns specified for {display_name}, skipping file generation.")

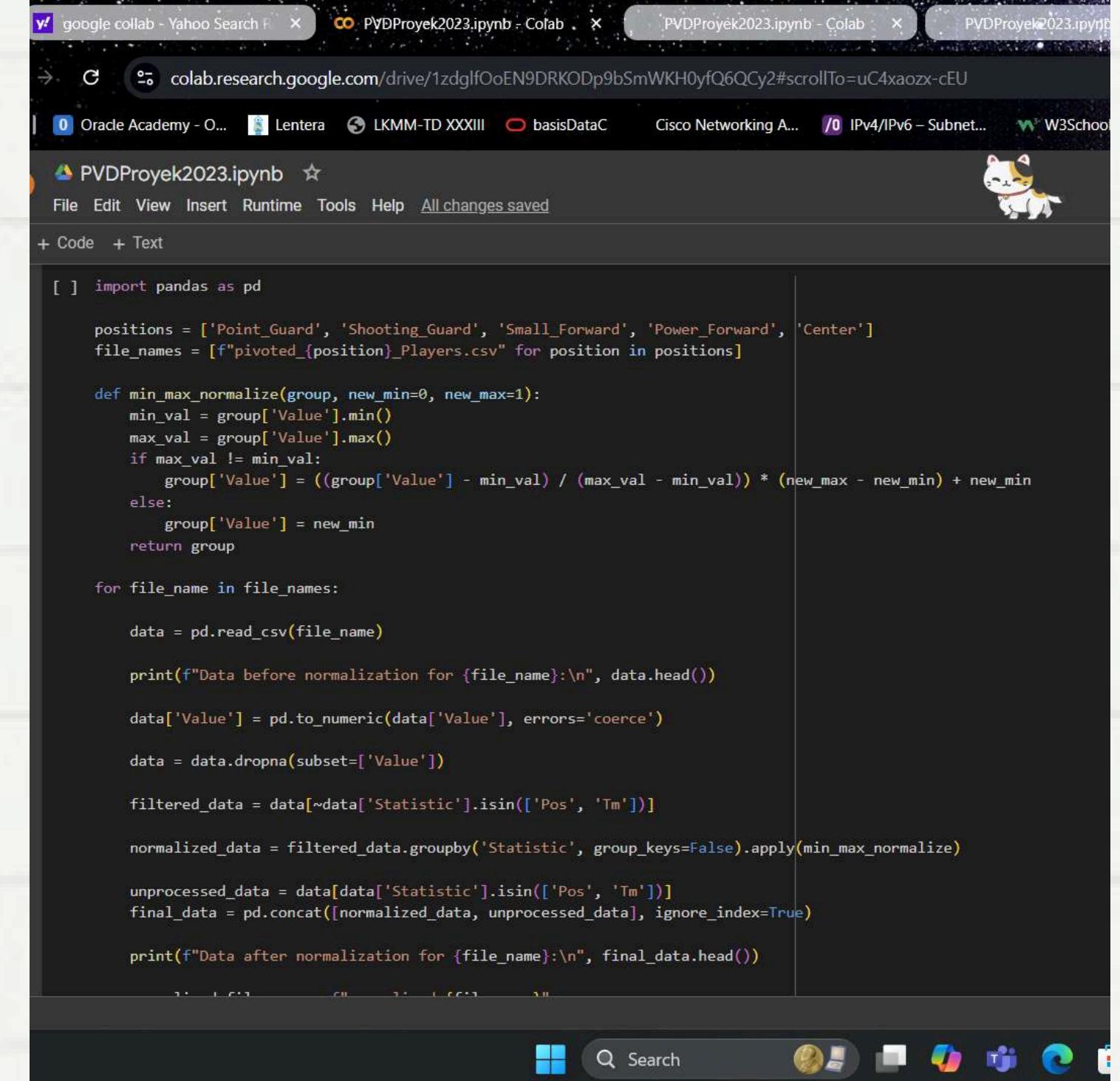
Player          Pos  Age   Tm   G   GS   MP   FG \
0  Precious Achiuwa  Center  24  TOR  4   0  21.0  2.5
1  Bam Adebayo  Center  26  MIA  8   8  34.6  8.3
2  Ochai Agbaji  Shooting Guard  23  UTA 10   2  16.3  1.7
3  Santi Aldama  Power Forward  23  MEM  3   0  19.7  3.3
4  Nickeil Alexander-Walker  Shooting Guard  25  MIN  8   2  19.3  1.5

   FGA  FG% ...  FT%  ORB  DRB  TRB  AST  STL  BLK  TOV  PF  PTS
0  7.3  0.345 ... 1.000  2.0  5.3  7.3  2.3  0.0  0.3  1.5  2.3  6.0
1  15.5  0.532 ... 0.800  2.4  8.0  10.4  3.5  1.0  1.6  3.5  2.5  23.1
2  4.1  0.415 ... 0.000  0.5  1.7  2.2  1.0  0.2  0.6  0.7  1.3  4.4
3  8.3  0.400 ... 0.250  1.0  4.0  5.0  1.0  0.7  0.3  1.0  1.7  8.3
```

After all the files for each position are collected, we perform a pivot (which is needed for creating **specific visual charts**), resulting in 3 columns: Player, Statistics, and Value. Each of the 5 positions is treated the same way.

"How do we process the data?"

This time, using the data that has not been pivoted, we perform data normalization. The goal is to make all data fields the same using **min-max normalization**, resulting in a range of 0-1. This aims to create a rank for each position, where the rank is the average of each field, which will then be sorted in descending order based on the highest average.



The screenshot shows a Google Colab notebook titled "PVDProjek2023.ipynb". The code in the cell is as follows:

```
[ ] import pandas as pd

positions = ['Point_Guard', 'Shooting_Guard', 'Small_Forward', 'Power_Forward', 'Center']
file_names = [f"pivot_{position}_Players.csv" for position in positions]

def min_max_normalize(group, new_min=0, new_max=1):
    min_val = group['Value'].min()
    max_val = group['Value'].max()
    if max_val != min_val:
        group['Value'] = ((group['Value'] - min_val) / (max_val - min_val)) * (new_max - new_min) + new_min
    else:
        group['Value'] = new_min
    return group

for file_name in file_names:
    data = pd.read_csv(file_name)
    print(f"Data before normalization for {file_name}:\n", data.head())
    data['Value'] = pd.to_numeric(data['Value'], errors='coerce')
    data = data.dropna(subset=['Value'])
    filtered_data = data[~data['Statistic'].isin(['Pos', 'Tm'])]
    normalized_data = filtered_data.groupby('Statistic', group_keys=False).apply(min_max_normalize)
    unprocessed_data = data[data['Statistic'].isin(['Pos', 'Tm'])]
    final_data = pd.concat([normalized_data, unprocessed_data], ignore_index=True)
    print(f"Data after normalization for {file_name}:\n", final_data.head())
```

"How do we process the data?"

We also process the data by calculating the difference from each average to identify the largest changes that may have occurred among the players in each position, in order to observe the movement of stats for the players.

```
▼ Mencari selisih AVG Terbesar

● import pandas as pd
import os

# Daftar posisi
positions = ["Point_Guard", "Shooting_Guard", "Small_Foward", "Power_Foward", "Center"]
output_dir = "output_per_position"
os.makedirs(output_dir, exist_ok=True)

largest_diff_per_position = []

for position in positions:

    file_2023 = f"AVG_{position}_Players.csv"
    file_2024 = f"AVG_{position}_Players.csv"

    data_2023 = pd.read_csv(file_2023)
    data_2024 = pd.read_csv(file_2024)

    common_players = set(data_2023['Player']).intersection(set(data_2024['Player']))

    data_2023_common = data_2023[data_2023['Player'].isin(common_players)]
    data_2024_common = data_2024[data_2024['Player'].isin(common_players)]

    merged_data = pd.merge(data_2023_common, data_2024_common, on='Player', suffixes=('_2023', '_2024'))

    merged_data['AVG_difference'] = merged_data['AVG_2024'] - merged_data['AVG_2023']

    output_file = os.path.join(output_dir, f"avg_difference_{position}.xlsx")
    merged_data[['Player', 'AVG_2023', 'AVG_2024', 'AVG_difference']].to_excel(output_file, index=False)

    max_diff_player = merged_data.loc[merged_data['AVG_difference'].idxmax()]
    largest_diff_per_position.append({
        "Position": position,
        "Player": max_diff_player['Player'],
        "AVG_2023": max_diff_player['AVG_2023'],
        "AVG_2024": max_diff_player['AVG_2024'],
        "AVG_difference": max_diff_player['AVG_difference']
    })

print(f"Hasil selisih nilai AVG untuk posisi {position} disimpan di {output_file}")

largest_diff_df = pd.DataFrame(largest_diff_per_position)
largest_diff_output_file = os.path.join(output_dir, "largest_diff_per_position.xlsx")
largest_diff_df.to_excel(largest_diff_output_file, index=False)

print(f"Player dengan selisih AVG terbesar per posisi disimpan di {largest_diff_output_file}")
```

Overview of Our Home Dashboard

Group F - NBA Dream Player Insights for 2023 and 2024



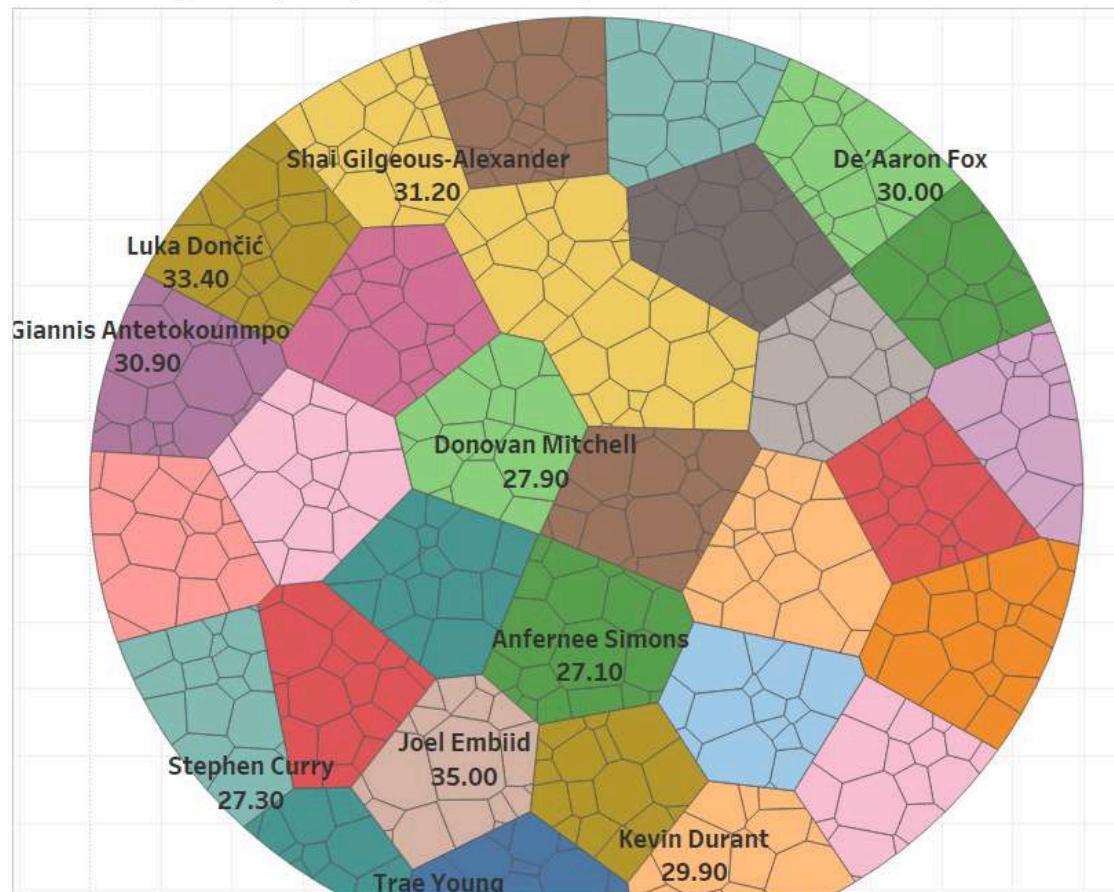
The **NBA** is the pinnacle of professional basketball, where the world's best athletes compete at the highest level.

Basketball is a game of skill, speed, and strategy, and the NBA represents the ultimate stage for showcasing these talents. Dive into the 2023 player stats and trends that define the league.

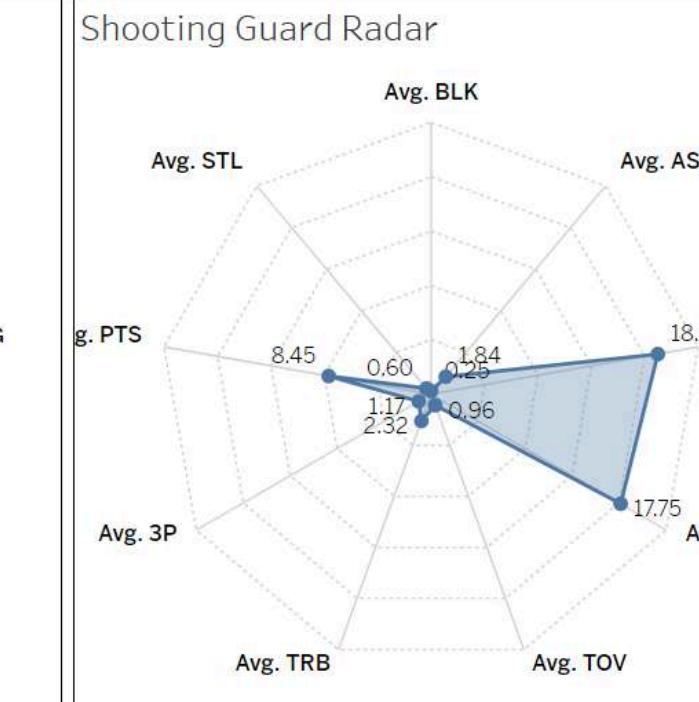
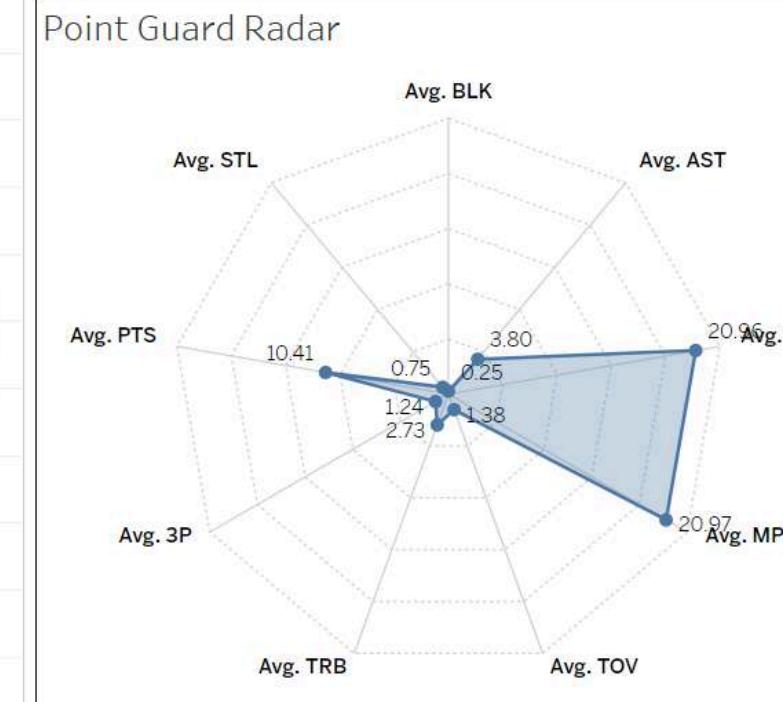
The **NBA**, with its fast-paced games and star-studded rosters, continues to captivate fans around the globe. This dashboard explores the data behind the 2023 for 2024 seasons.

As the premier basketball league, the NBA is home to incredible stories of athleticism and determination. Discover key insights from the 2023 for 2024 player performances here...

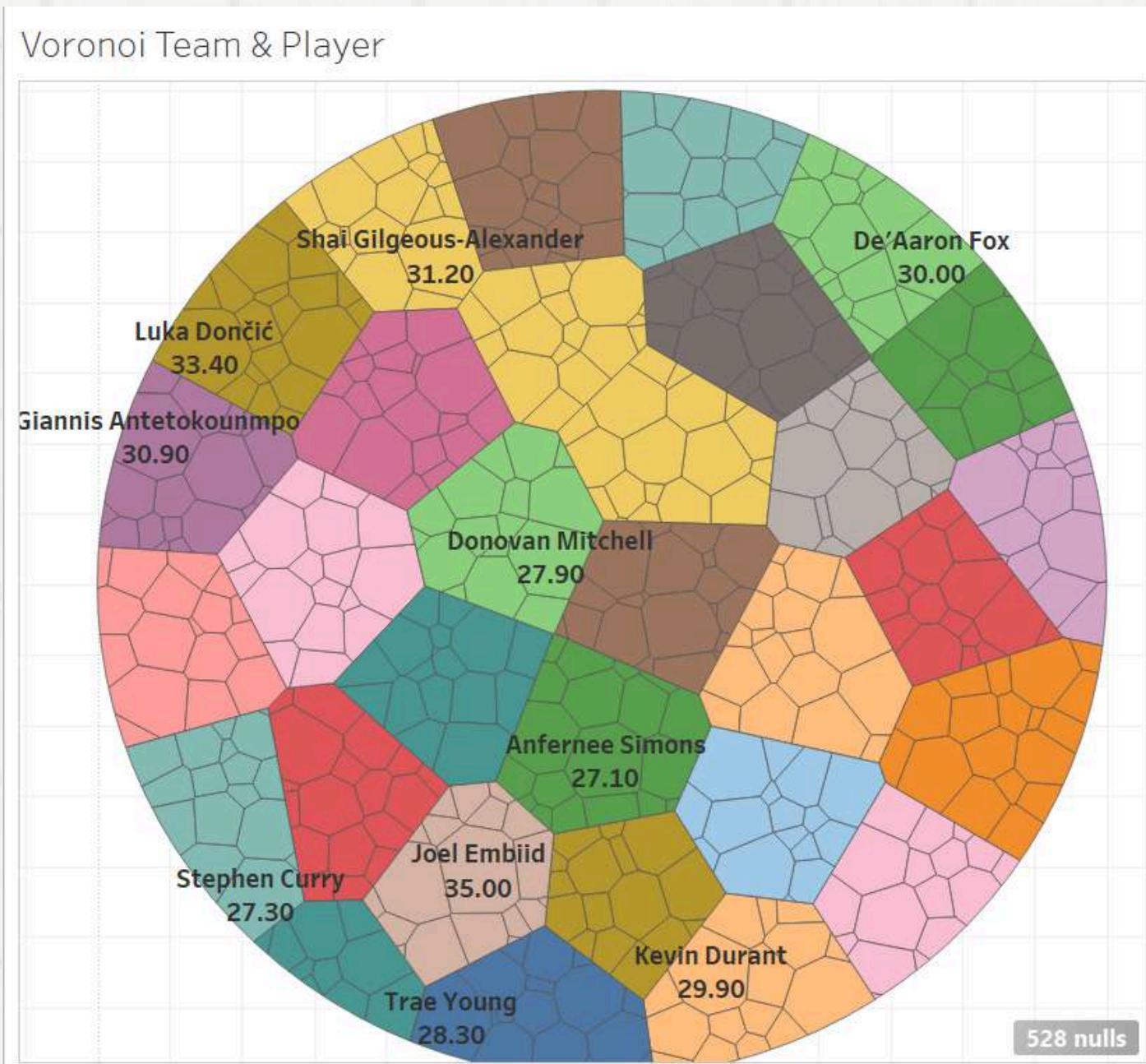
Let's See Who/Which person/team got the best point for this season



Radar Chart for Every Position in Basketball



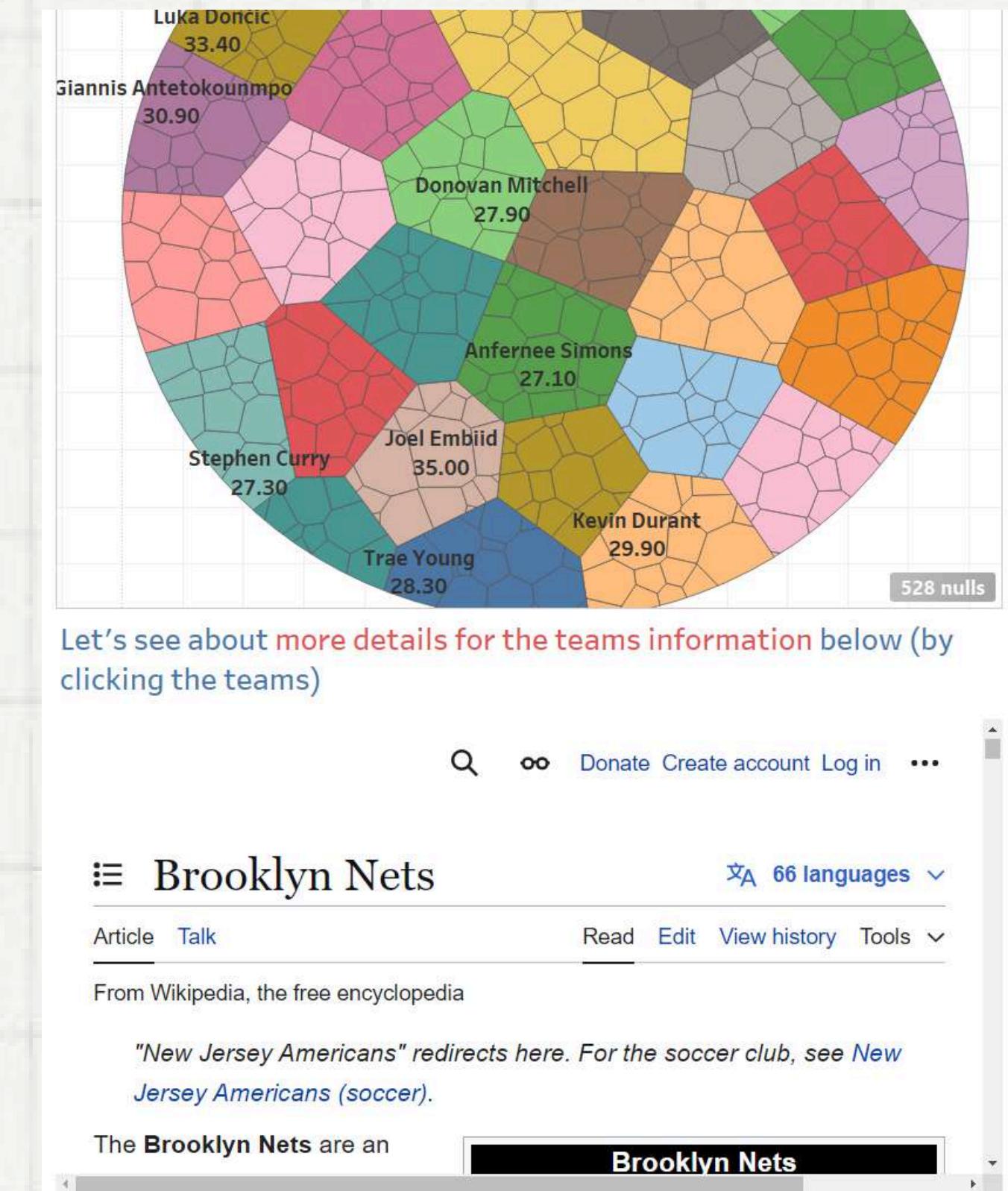
Voronoi Ball Chart



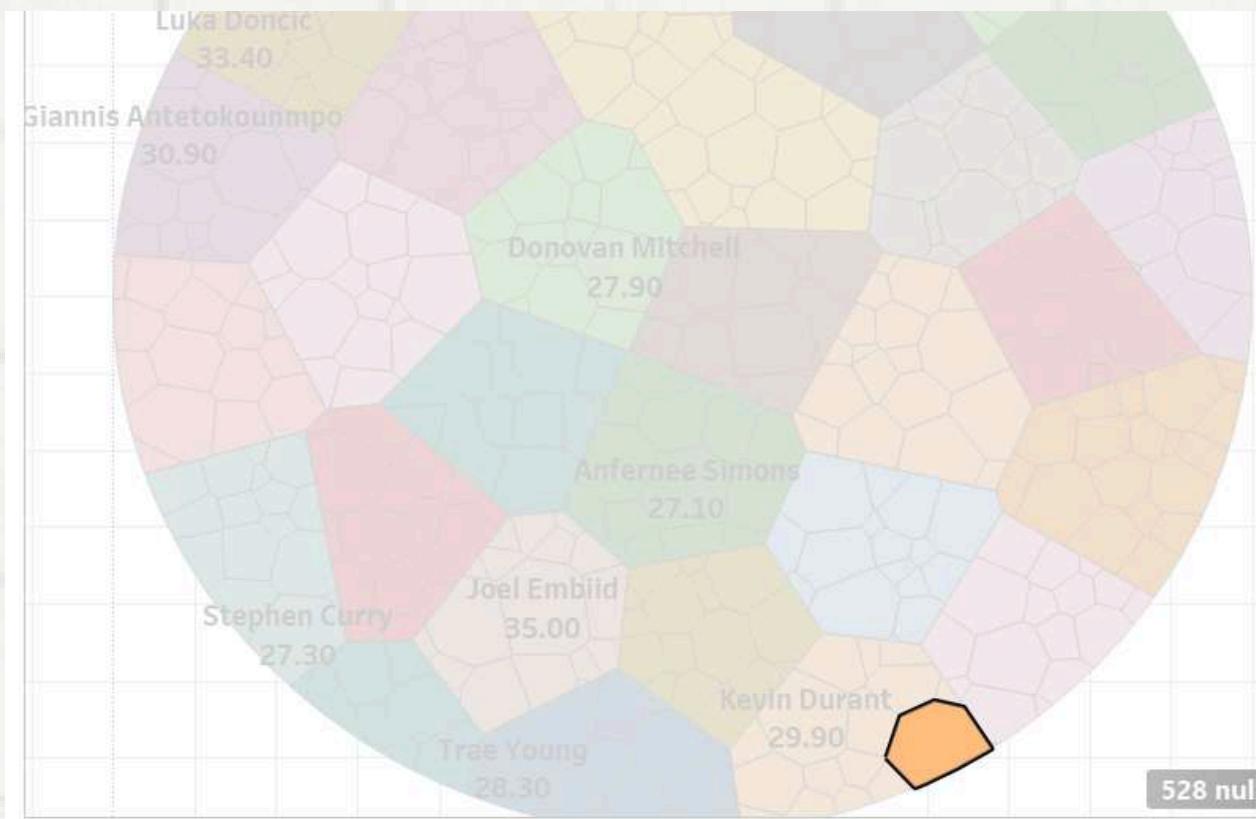
The purpose of the chart is to gain insights with aesthetic colors represented as teams. The aesthetic size or dimension of each color represents the team members. There are several key highlights, including displaying the names of players who have an average score greater than 27 points (like Trae Young, Stephen Curry, etc) during this NBA season.

Interactive Web

We also provide descriptive information by making the dashboard display interactive, as shown in the image on the left. Every time users click on the color aesthetic corresponding to a team, the Wikipedia information will also change, displaying a general overview of that team.



Interactive Web



Let's see about more details for the teams information below (by clicking the teams)

≡  **WIKIPEDIA**
The Free Encyclopedia

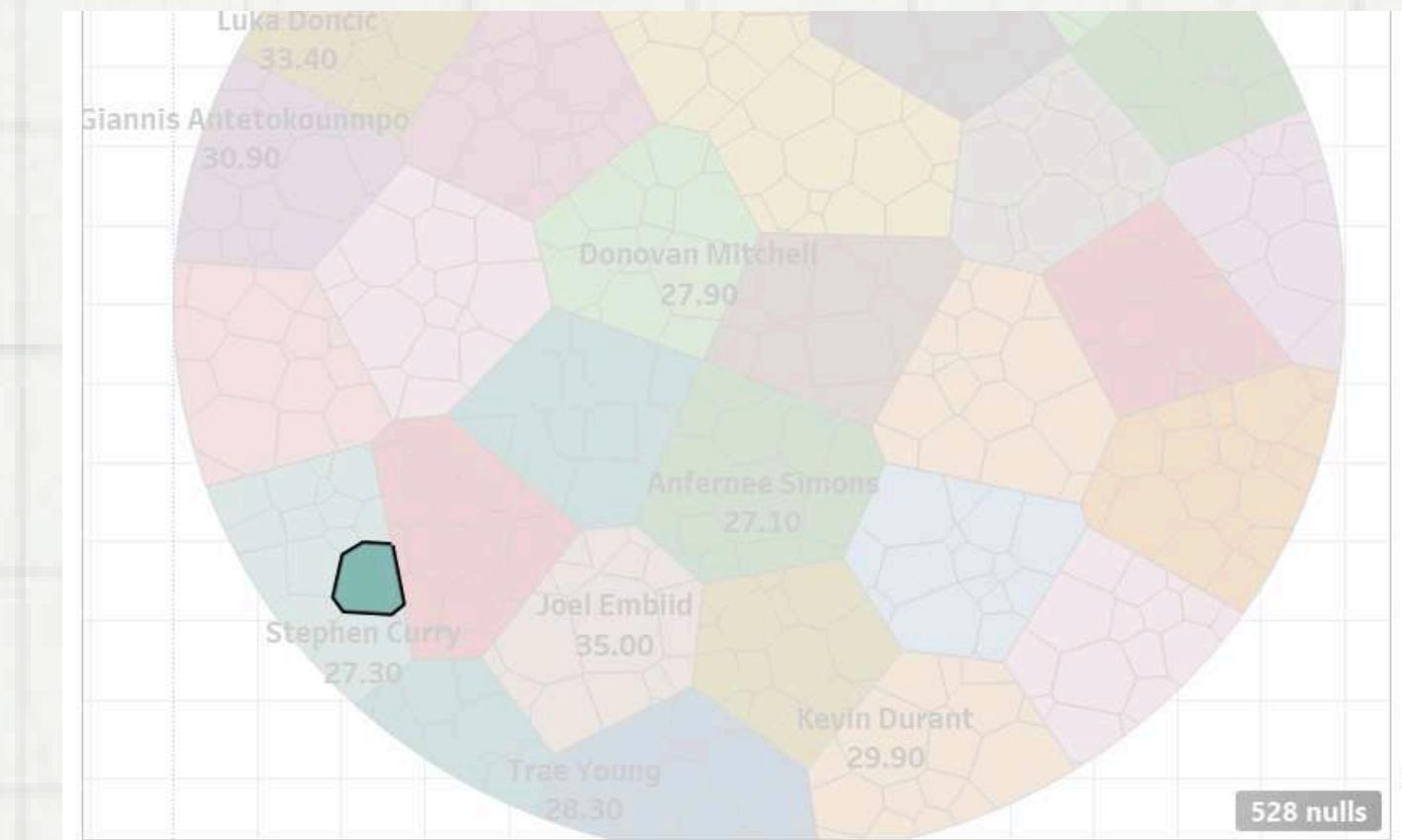
Q ⚡ Donate Create account Log in ...

≡ **Phoenix Suns**  67 languages

Article Talk Read Edit View history Tools

From Wikipedia, the free encyclopedia

The **Phoenix Suns** are an 



Let's see about more details for the teams information below (by clicking the teams)

 higher standard of quality, and to make it neutral in tone.
(October 2024) [\(Learn how and when to remove this message\)](#)

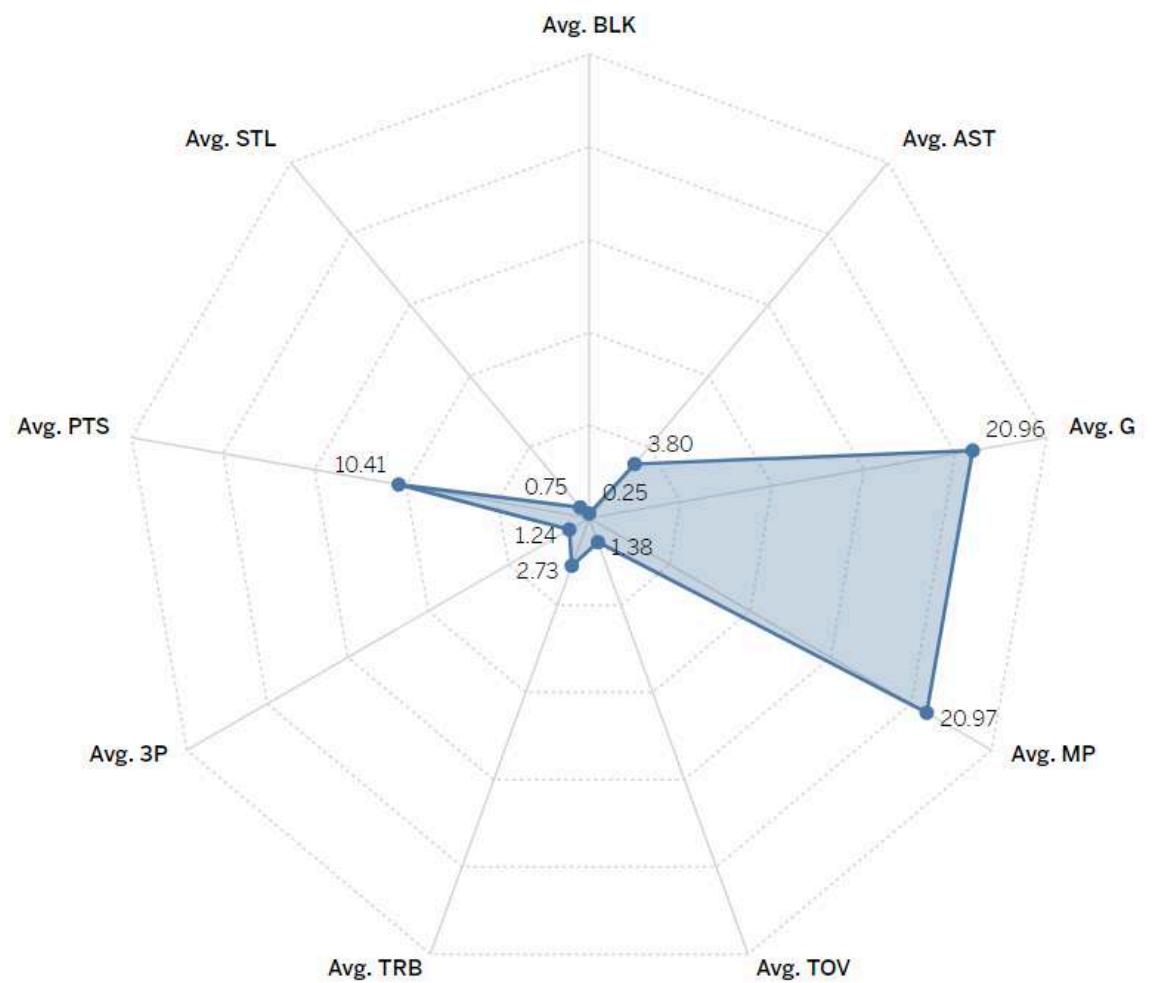
The **Golden State Warriors** are an American professional basketball team based in San Francisco. The Warriors compete in the National Basketball Association (NBA) as a member of the Pacific Division of the Western Conference. Founded in 1946

Golden State Warriors

2024–25 Golden State Warriors season

Radar Chart (Point Guard)

Point Guard Radar



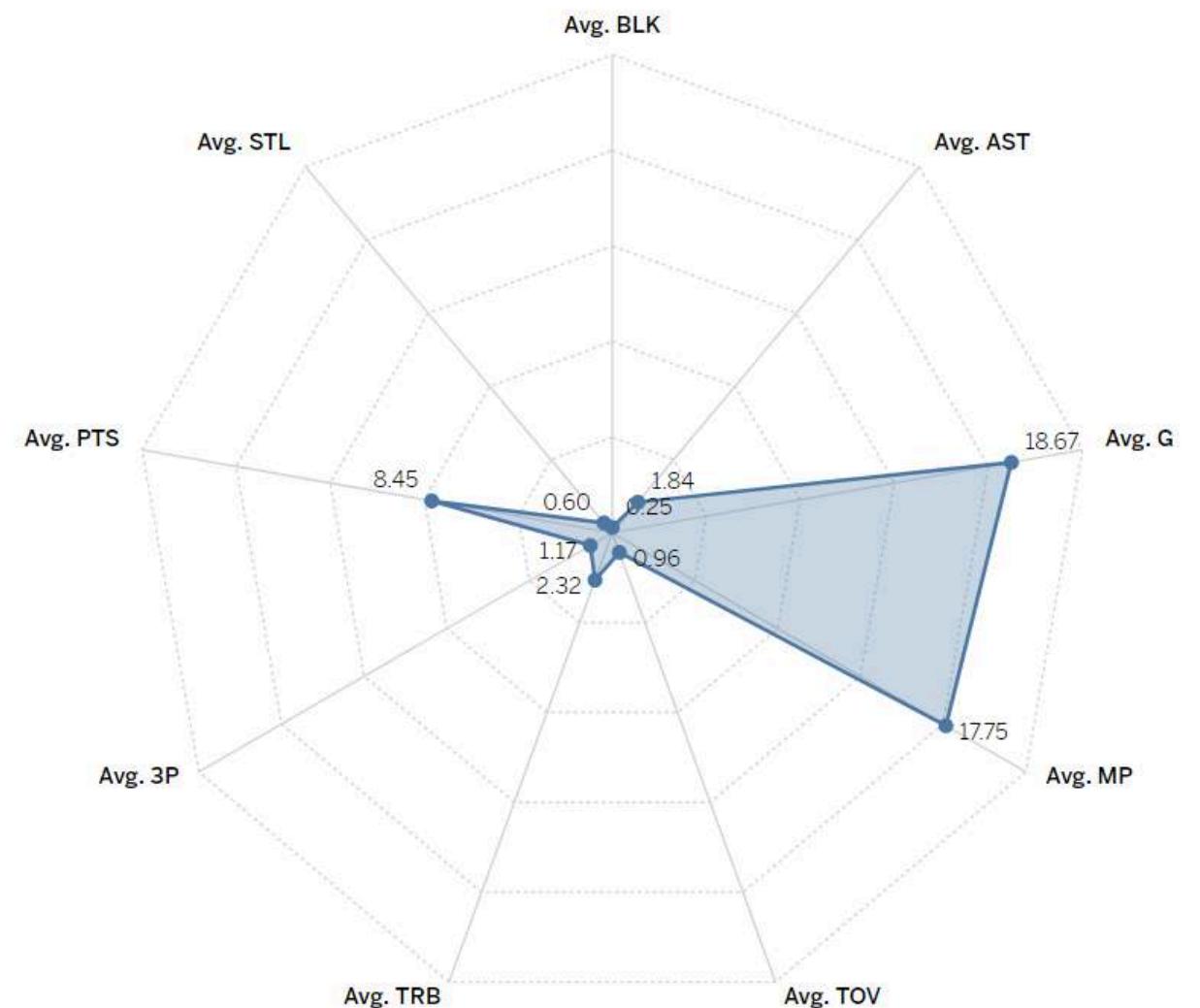
- Highest Avg. Points (**10.41**)
- Highest Avg. Steal (**0.75**)
- Highest Avg. Assist (**3.80**)
- Highest Avg. Turnover (**1.38**)

We can conclude Point Guard is focused more on **scoring points**.

Additionally, high number of Game (G) and Minutes Played (MP) shows that NBA teams rely heavily on PG to score points.

Radar Chart (Shooting Guard)

Shooting Guard Radar



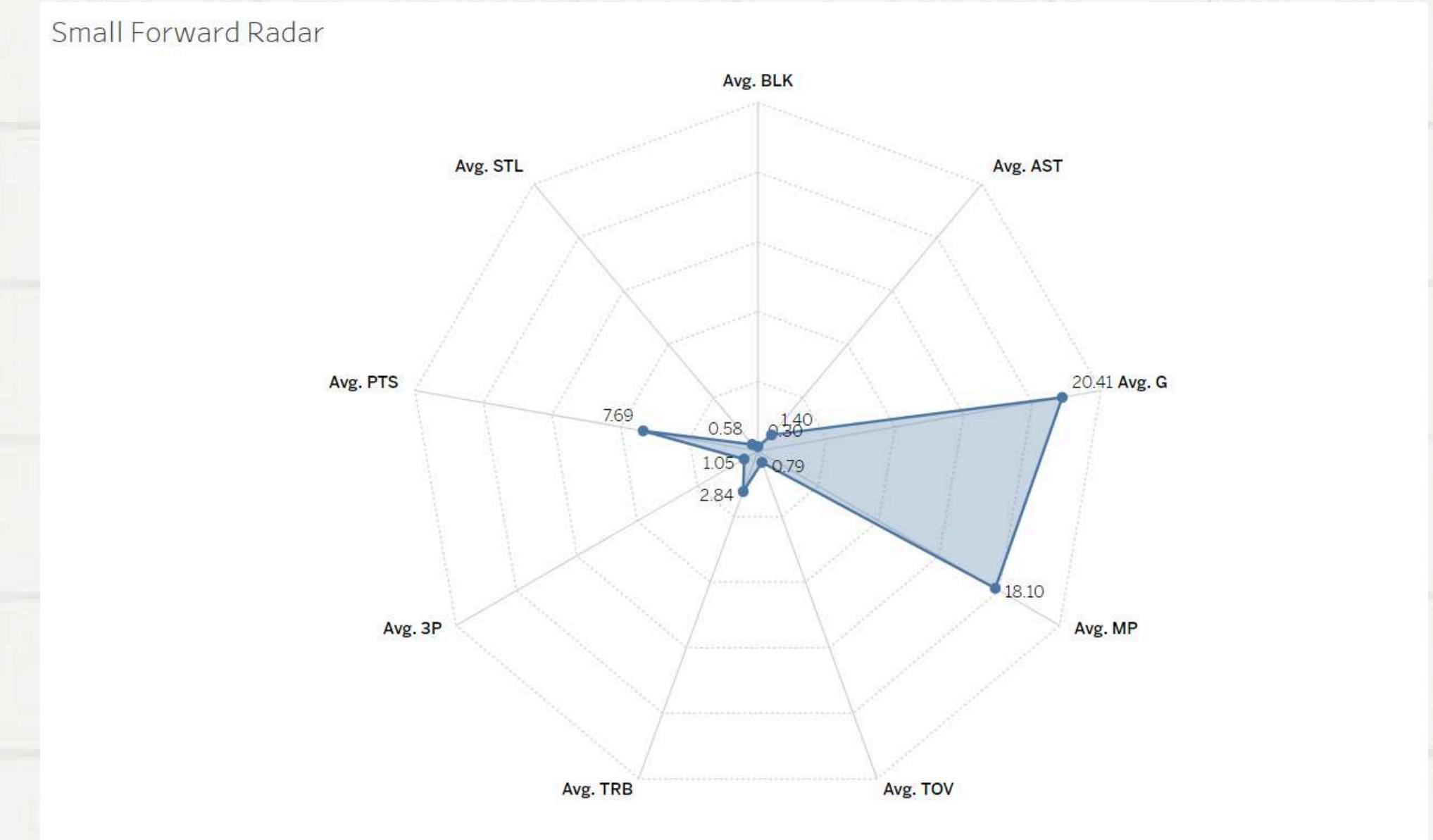
- 2nd in Avg. Points (**8.45**)
- 2nd in Avg. Steal (**0.60**)
- 2nd in Avg. Assist (**1.84**)

Based on the stats, Shooting Guard may play important **supporting role** for Point Guard in scoring points.

Radar Chart (Small Forward)

- Lowest Avg. Turnover (0.79)

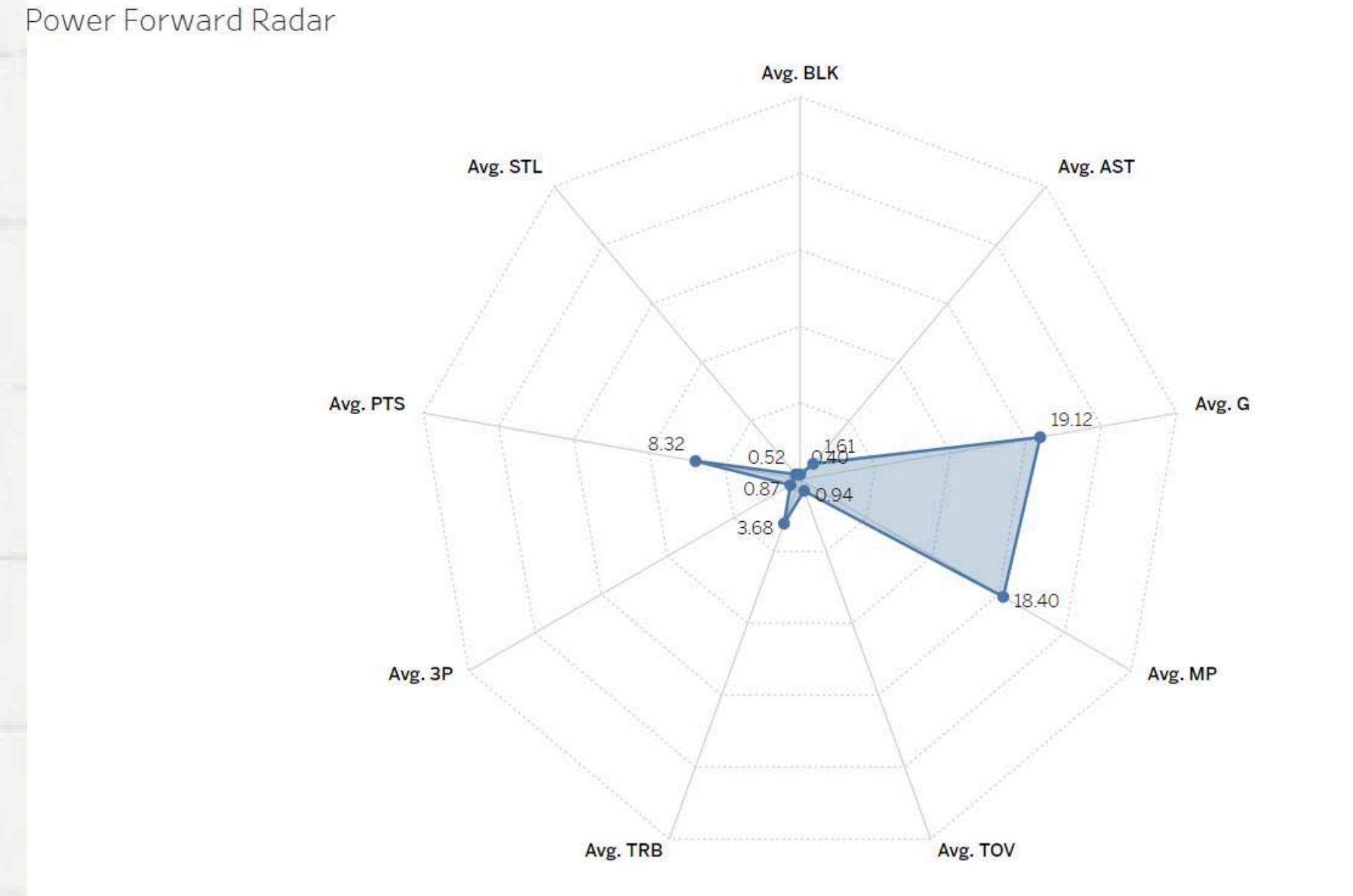
Small Forward statistic's rank are mostly third compared to other position, but having low TOV might mean SF players are the **best playmakers**.



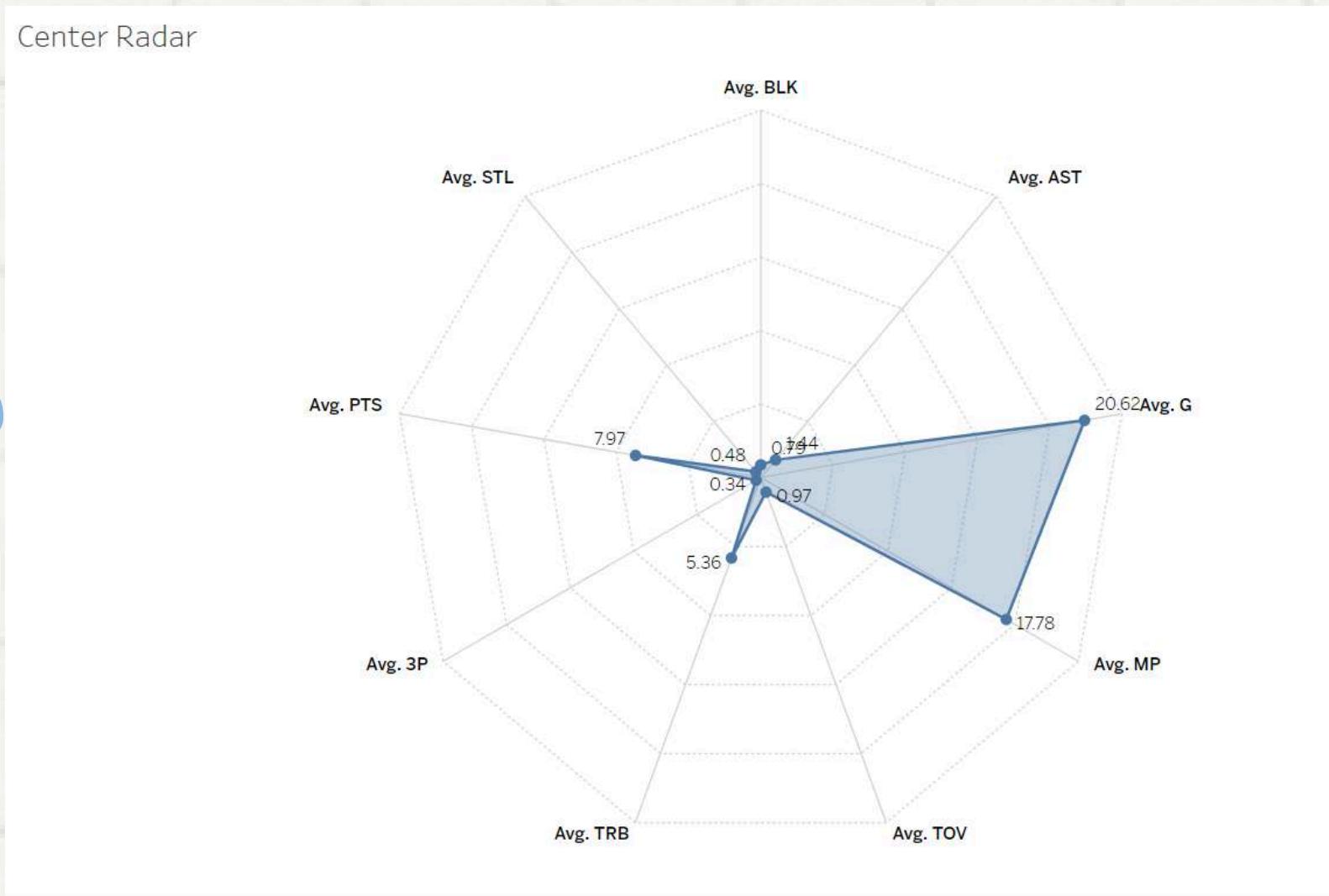
Radar Chart (Power Forward)

- 2nd in Avg. Block (0.40)
- 2nd in Avg. Rebonuds (3.68)
- 2nd lowest in Avg. Turnover (0.94)

Based on the analysis, Power Forward players can be the **second line of defence**, supporting Center players.



Radar Chart (Center)



- Highest Avg. Block (**0.75**)
- Highest Avg. Rebounds (**5.36**)
- Lowest Avg. 3p (**0.34**)

Center players are important and are more focused on the **team defence**, proven by the high average of blocks and rebounds.

Point Guard



- Ball Handling
- Shooting
- Speed & Agility

Shooting Guard



- Scoring Ability
- Shooting
- Off-Ball Movements

Small Forward



- Defensive Skills
- Mid-range Shooting
- Versatility

Actions

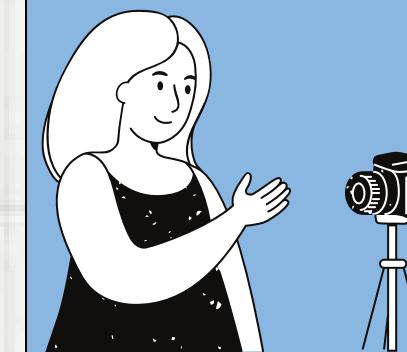
For Every Position

Power Forward



- Rebounding
- Post Moves
- Strength & Physicality

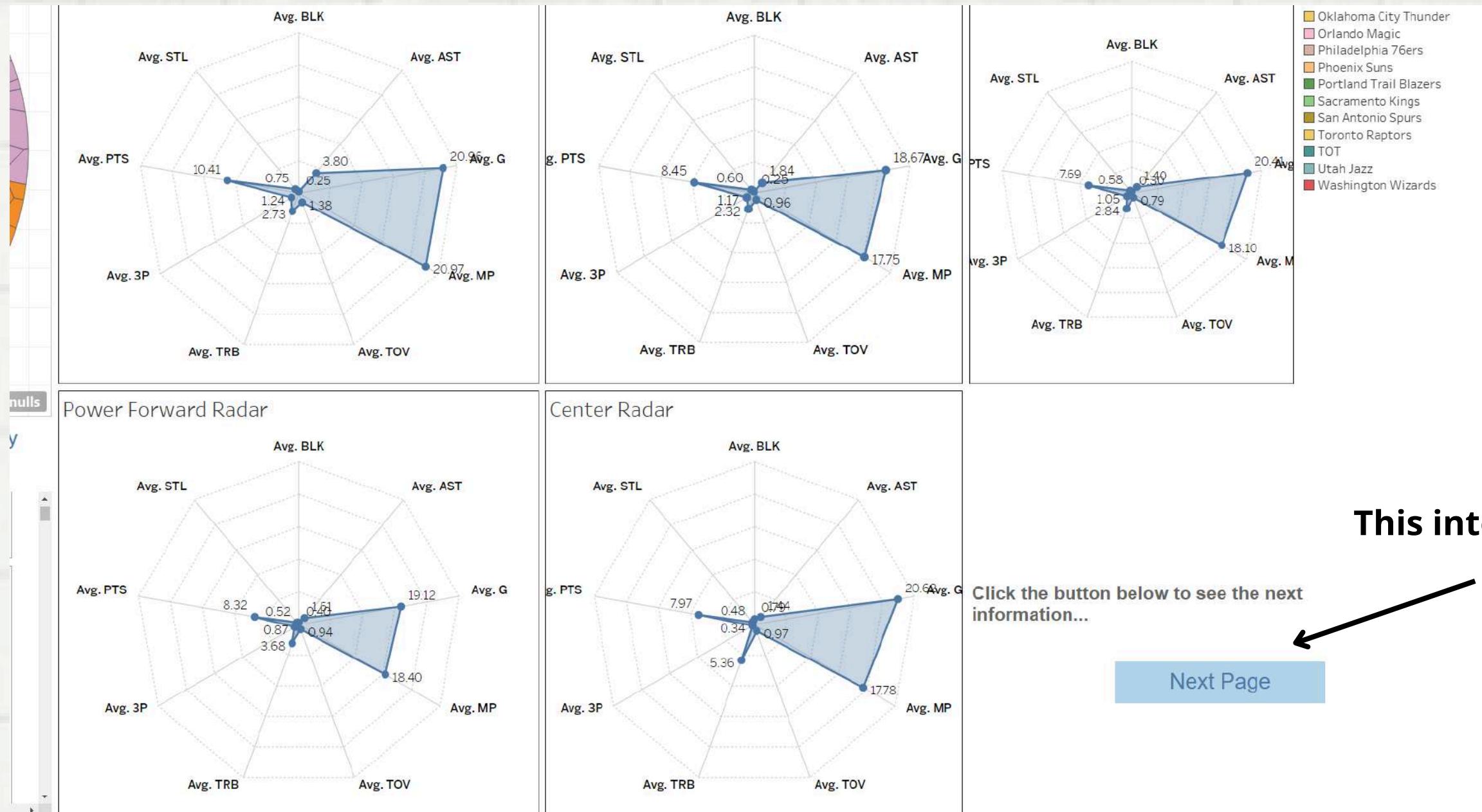
Center



- Shot Blocking
- Post Moves
- Strength

Source: [Basketball Position Roles and Responsibilities](#)

Our Home Dashboard

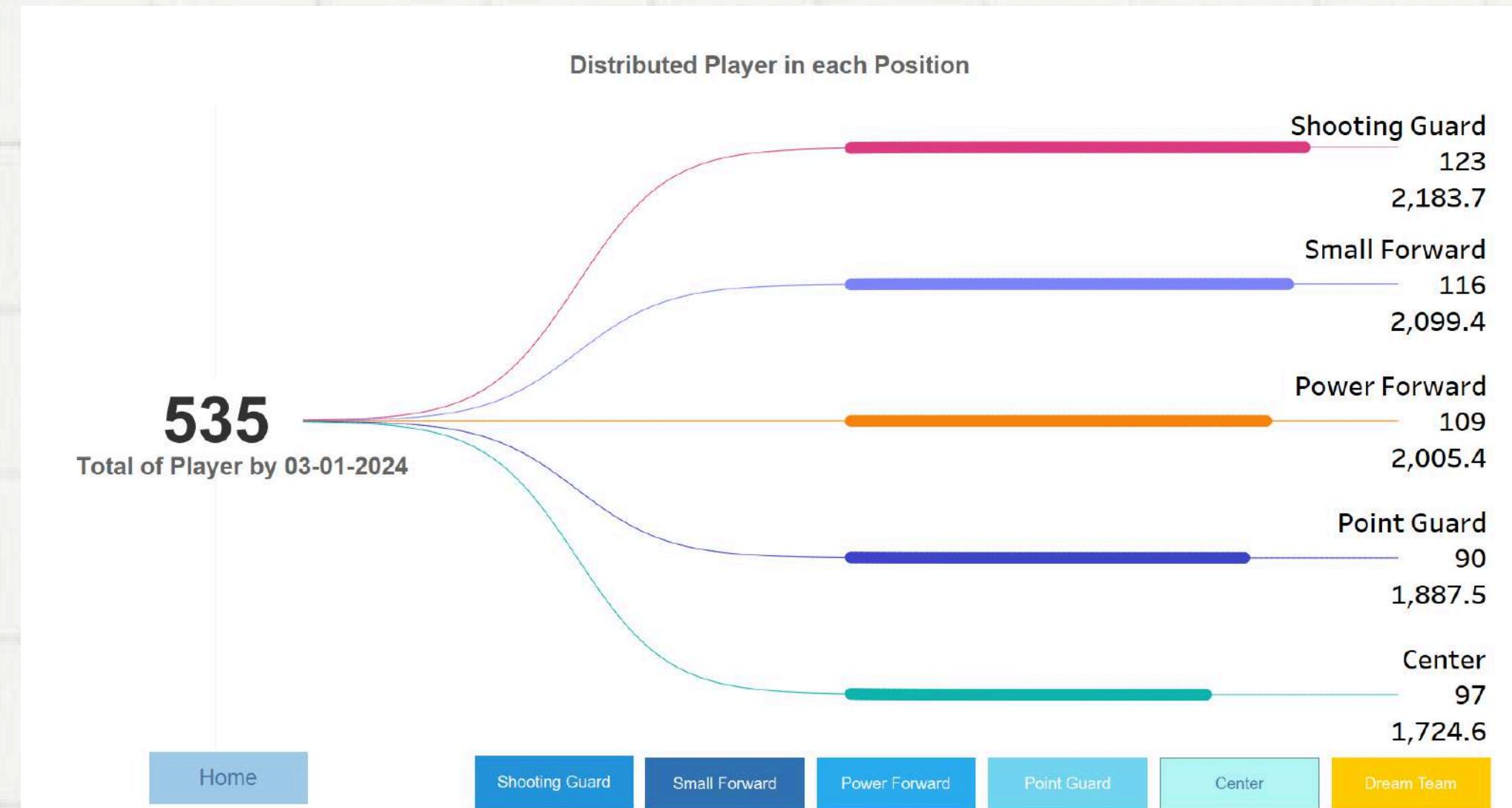


This interactive button will lead us
into our next page

Click the button below to see the next
information...

Next Page

Dendogram



From the dendrogram, we can see the average distribution of players based on that season. The insight from this shows that most basketball players role are **shooting guards**, while the least role are **point guards**. The color aesthetic is used to represent **the total minutes played by each player**. It can be seen that **shooting guards** dominate the game field minutes, while **centers** play the least.

What's Next?

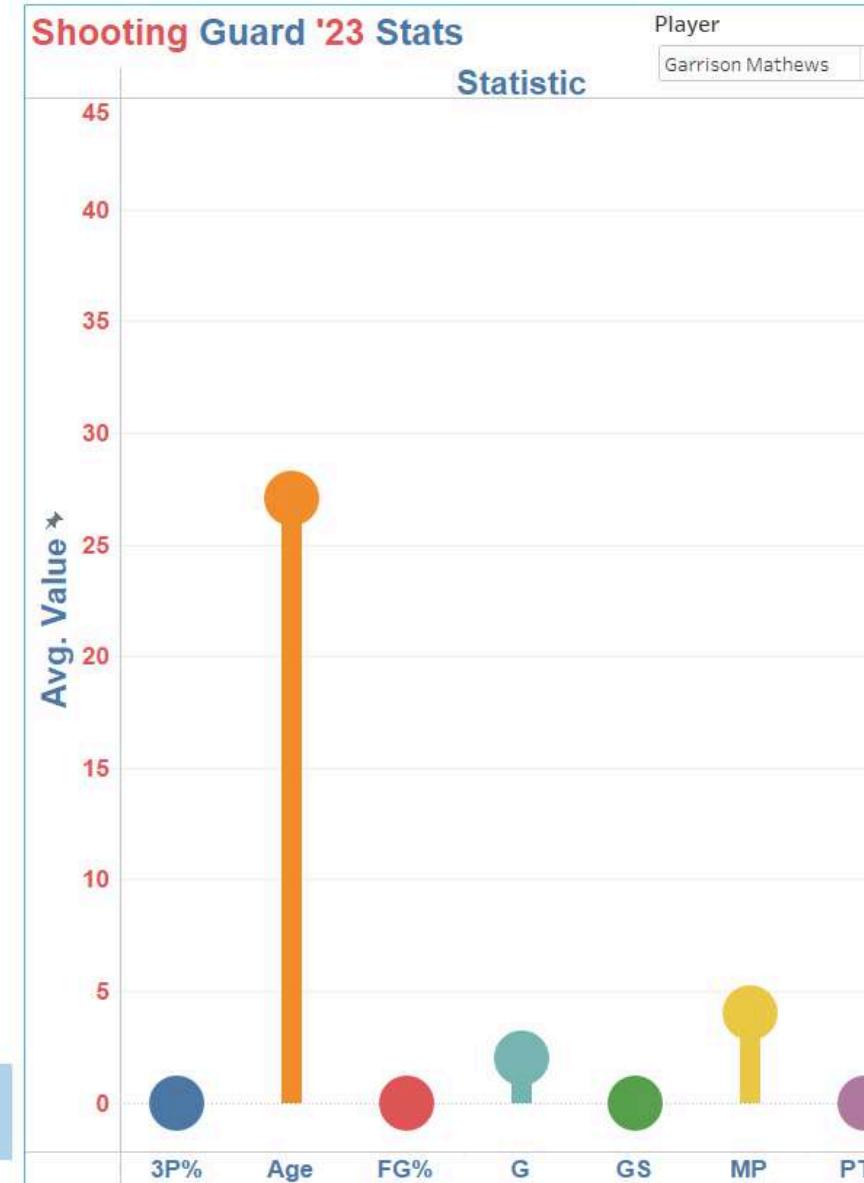


Next, we will look at the comparative analysis by clicking that interactive button of each player position one by one, step by step.

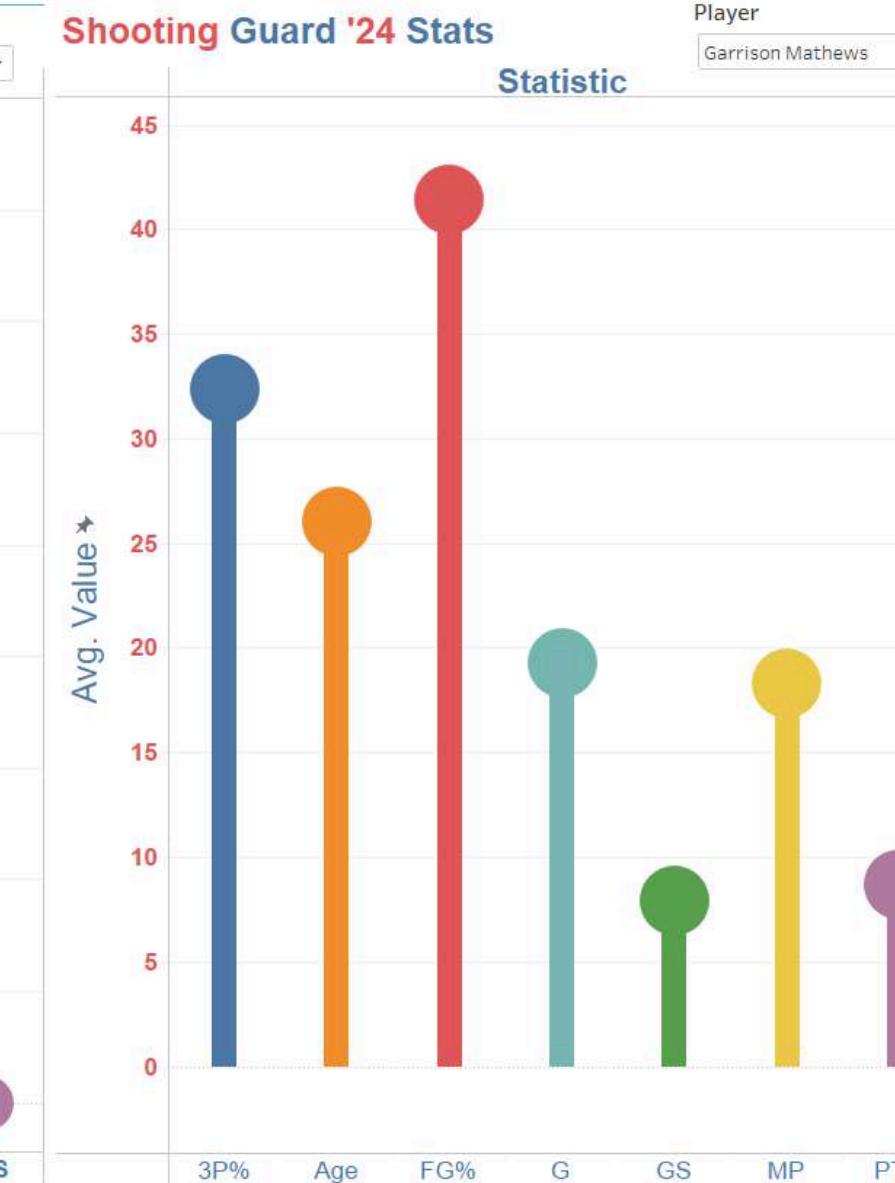
Shooting Guard Analysis Dashboard Overview

Shooting Guard Analysis

The shooting guard is usually the team's best shooter. The shooting guard can make shots from long distance and also is a good dribbler.



Back

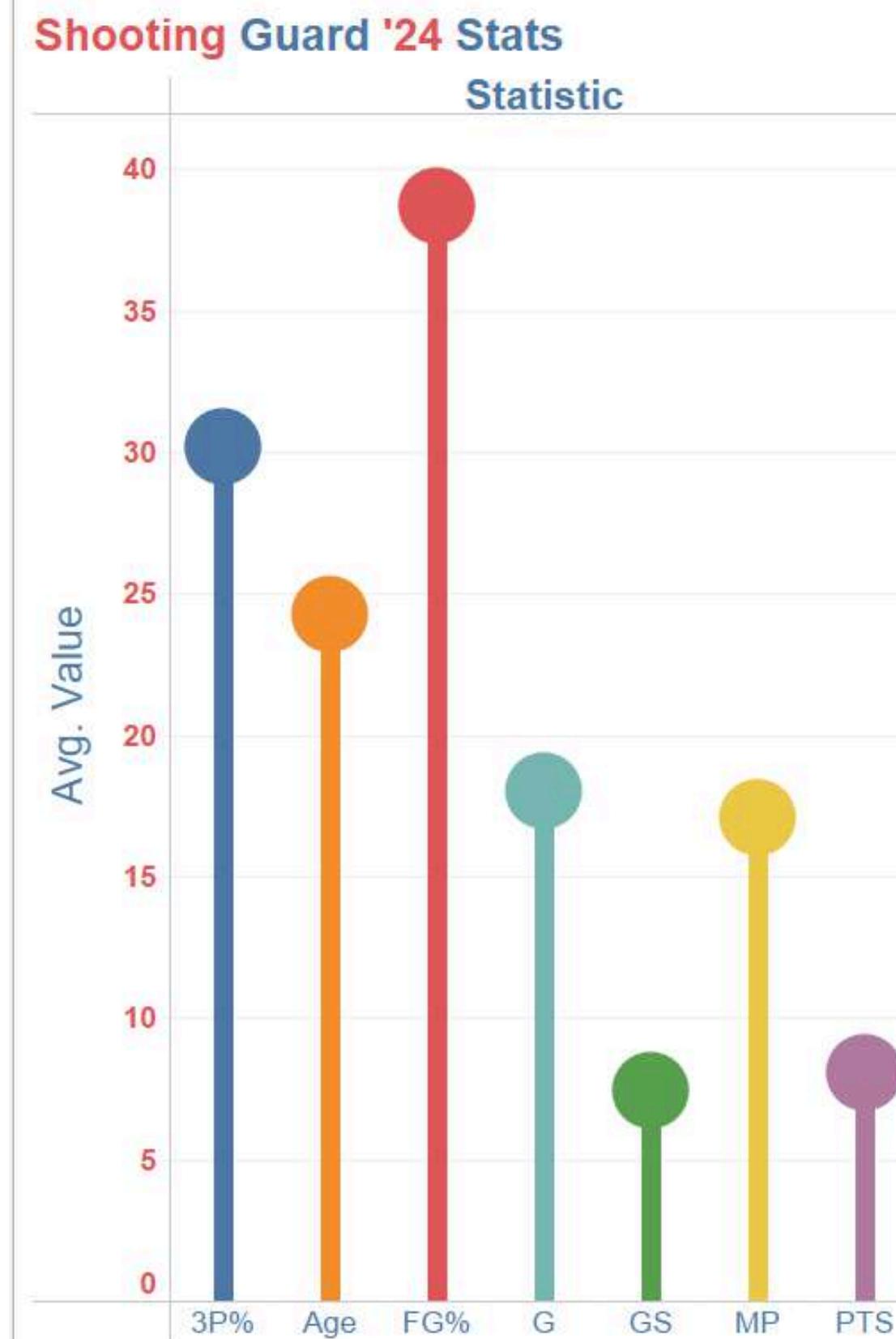


Next

Shooting Guard that has the most drastic change
Garrison Mathews

In this dashboard, we provide only 2 separate bar charts, each representing a different time period from the season, with the aim of observing the most drastic development of players.

Shooting Guard Overall

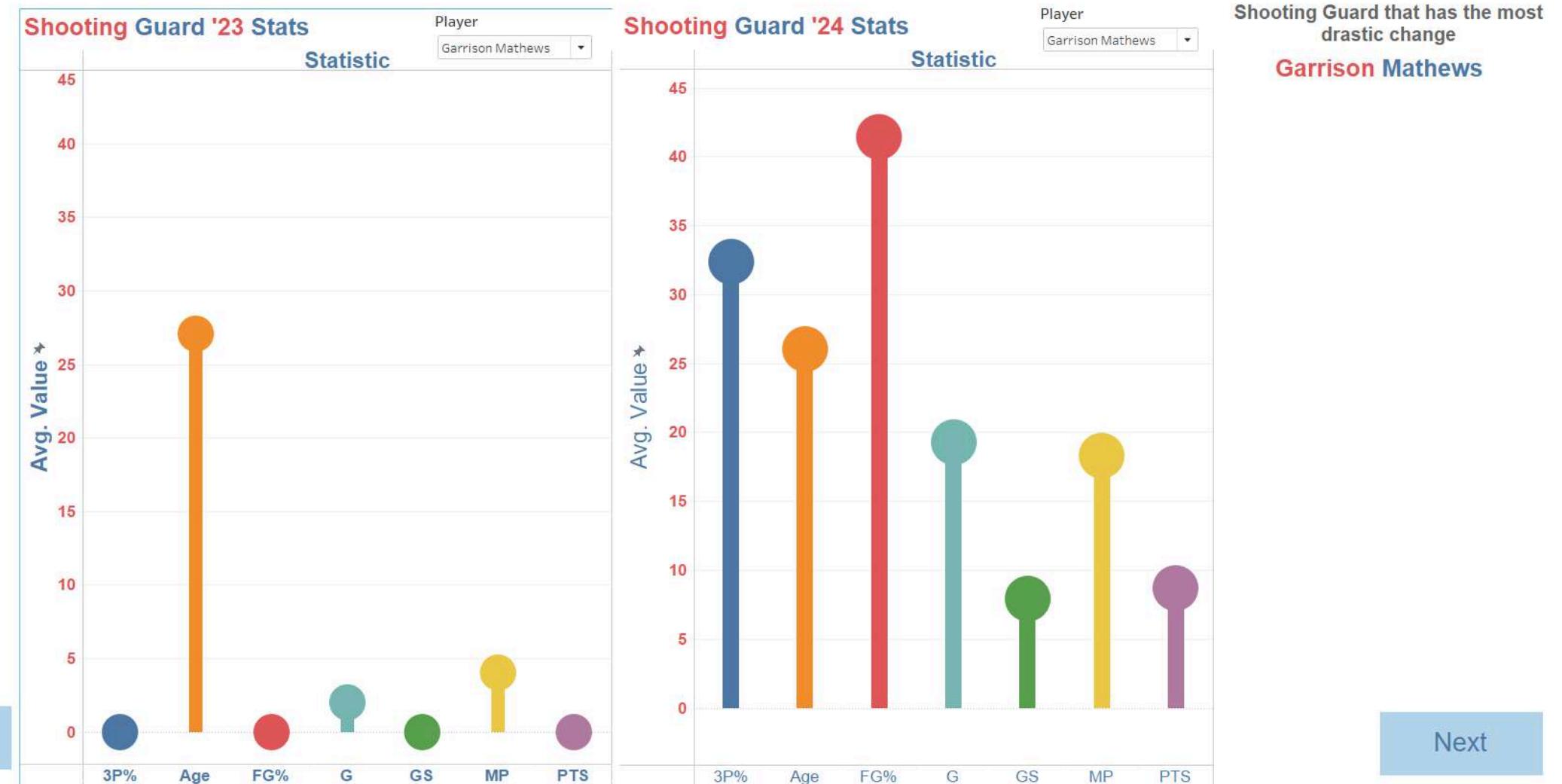


We do research on what areas contribute to the Shooting Guard position. It is concluded that the most influential stats for a Shooting Guard are the percentage of 3 points, age, percentage of shot success, many matches, position as a core player, minutes per game, and points.

Shooting Guard Drastic Change

Shooting Guard Analysis

The shooting guard is usually the team's best shooter. The shooting guard can make shots from long distance and also is a good dribbler.



As you can see in this statistics for Garrison Matthews we can see that from the number of games he played, he scored 3 points frequently. The total point he achieved rises accordingly.

Shooting Guard No Significant Improvement



As you can see in this statistics for Shaedon Sharpe we can see that the change in 3-point%, average points does not improve significantly. In fact, those metrics decreases.

Overall Player

Keep improving important areas, like shooting, assists, and steals

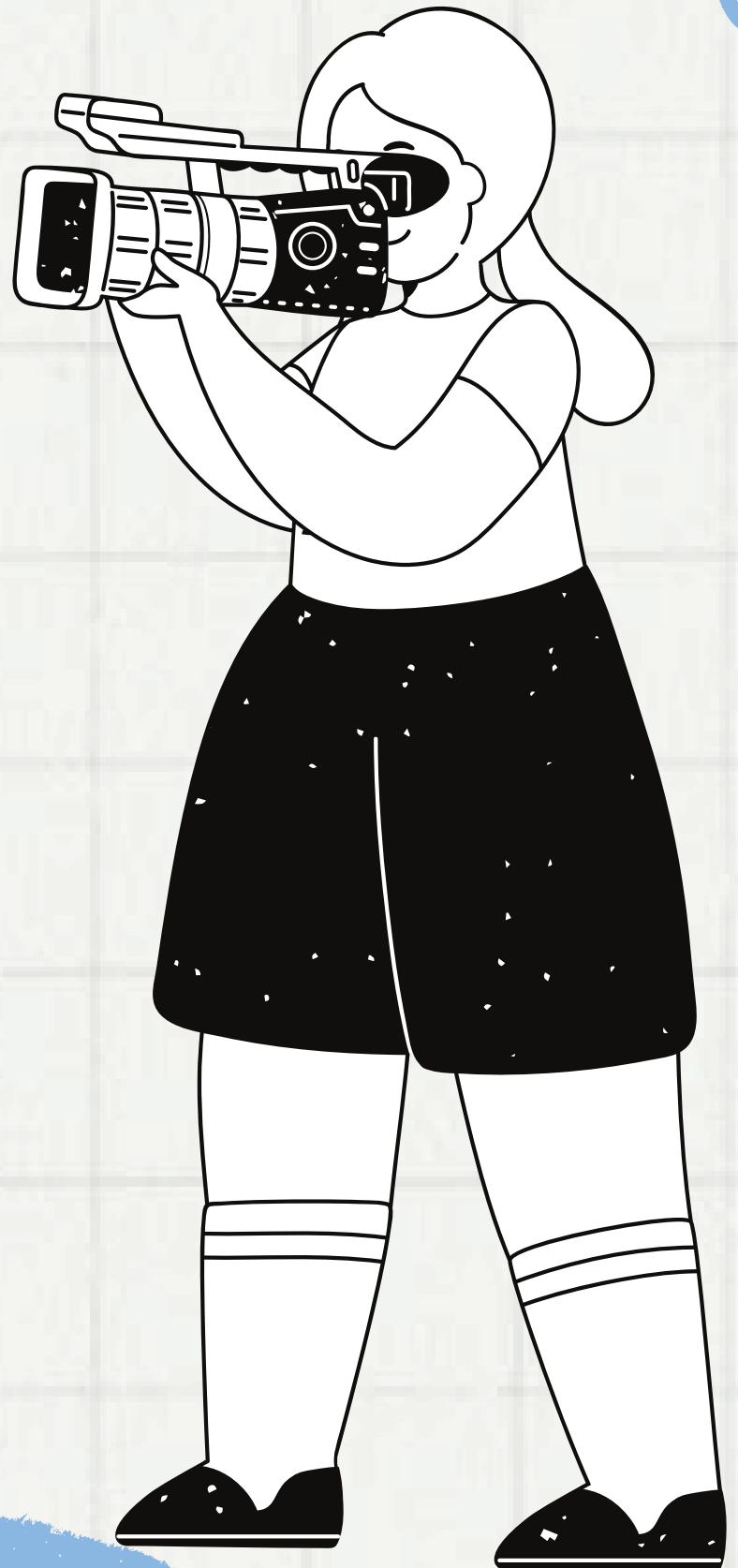
Drastic Change

Increase scoring consistency in each game played

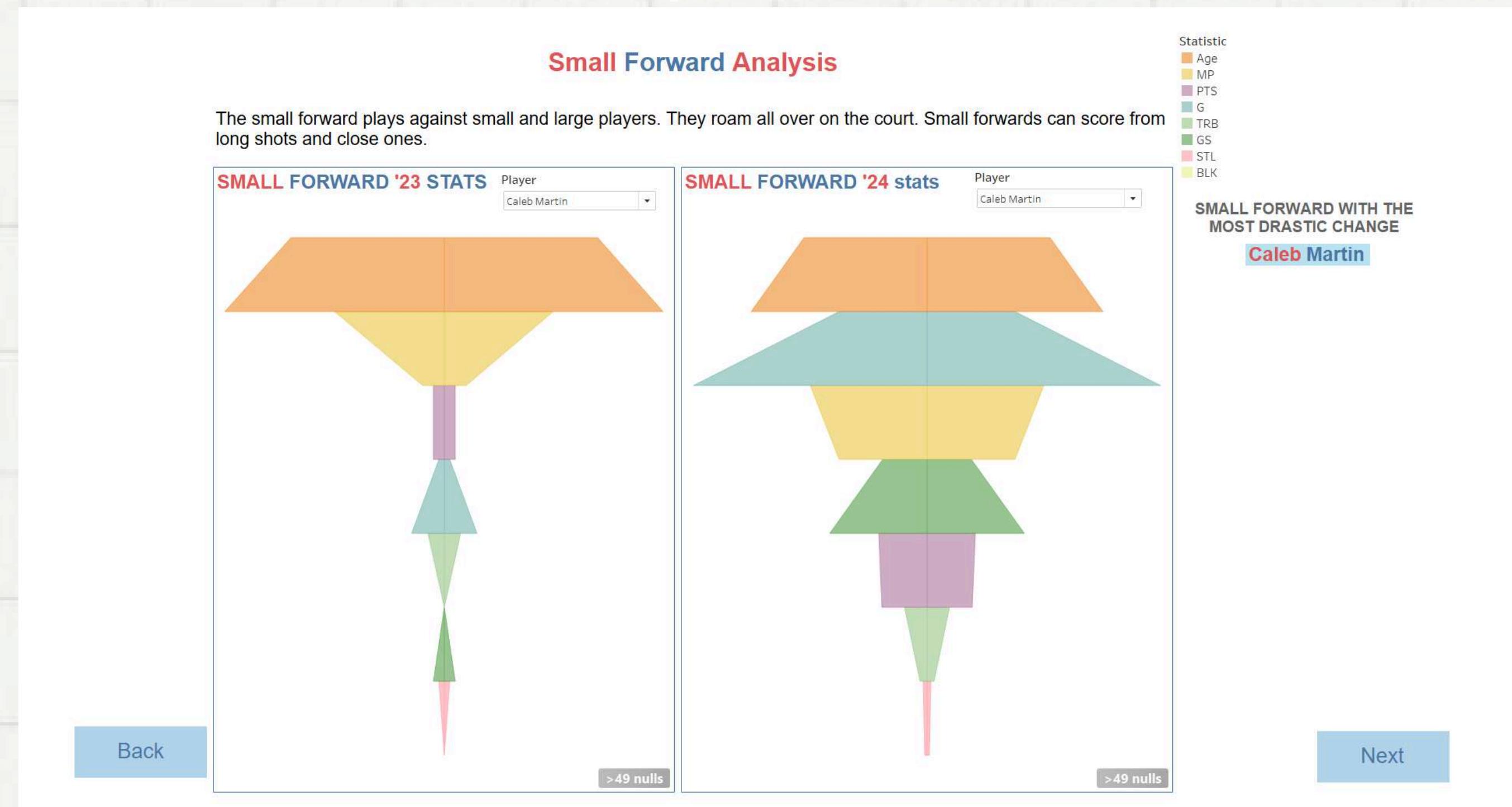
Actions for Shooting Guard Analysis

No significant improvement

Try to improve scoring ability and effectiveness in each game

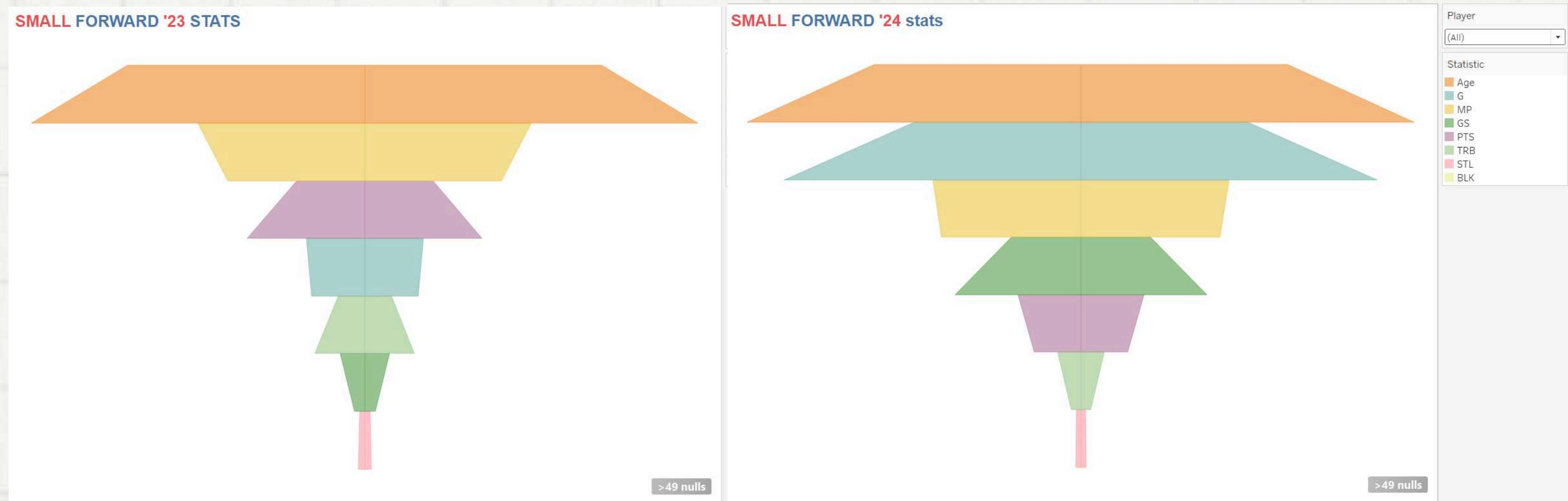


Small Forward Analysis Dashboard Overview



In this dashboard, we provide only 2 separate funnel charts, each representing a different time period from the season, with the aim of observing the most drastic development of players.

Small Forward Overall

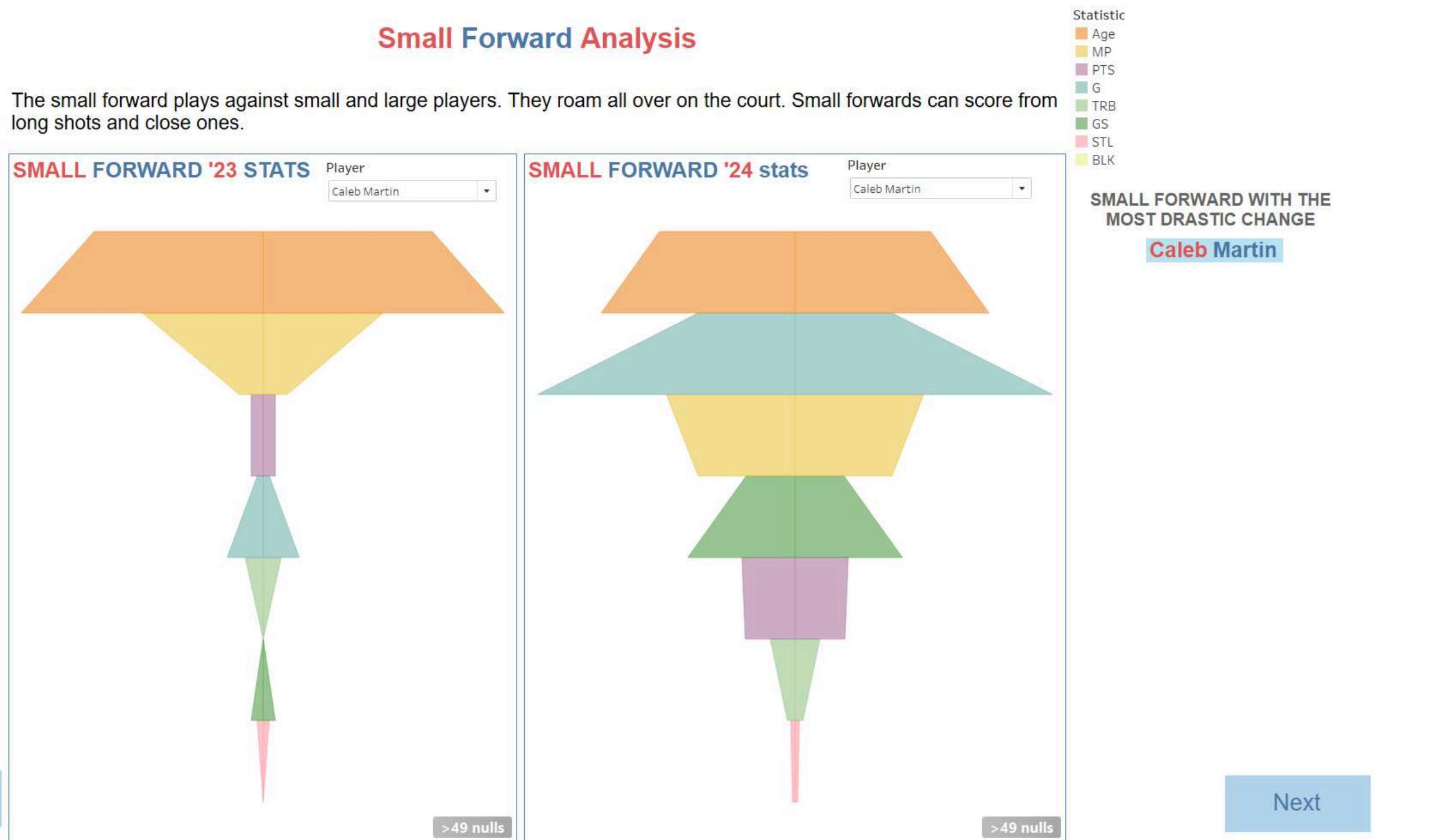


We do research on what areas contribute to the Small Forward position. It is concluded that the most influential stats for a Small Forward are age, minutes per game, points , many matches, total rebounds, position as a core player, steal, and block

Small Forward Drastic Change

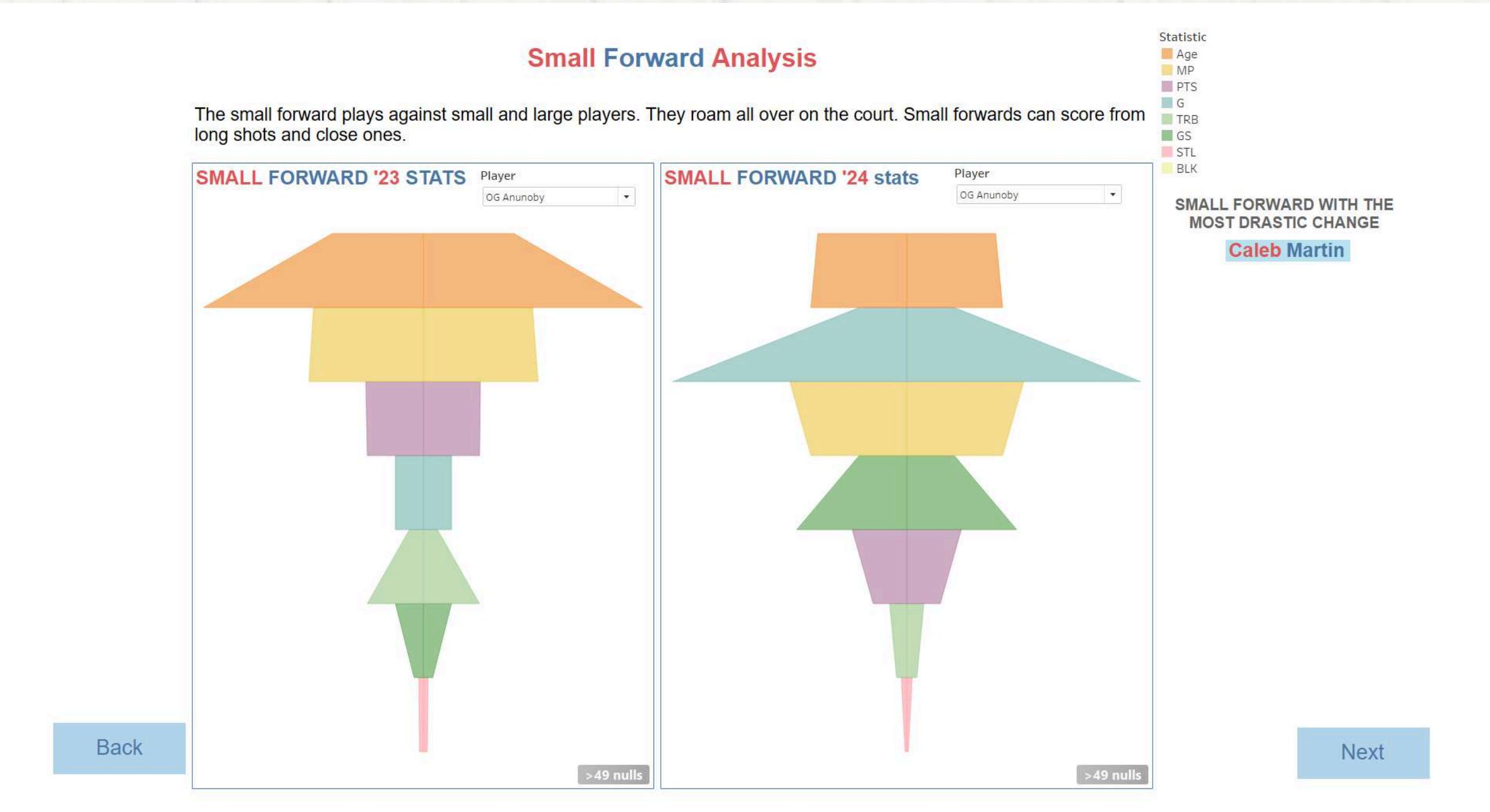
Small Forward Analysis

The small forward plays against small and large players. They roam all over on the court. Small forwards can score from long shots and close ones.



As you can see in this statistics for Caleb Martin we can see that the width of the funnel for minute played, and points broaden up heavily, meaning Caleb has been an effective scorer for the past few games.

Small Forward No Significant Improvement



In respective of Caleb, we can see that OG Anunoby have less improvement from the past season, shown from the similar widths of each funnel (points, minute played, etc.)

Overall Player

Maximise game impact,
contribute more to point scoring

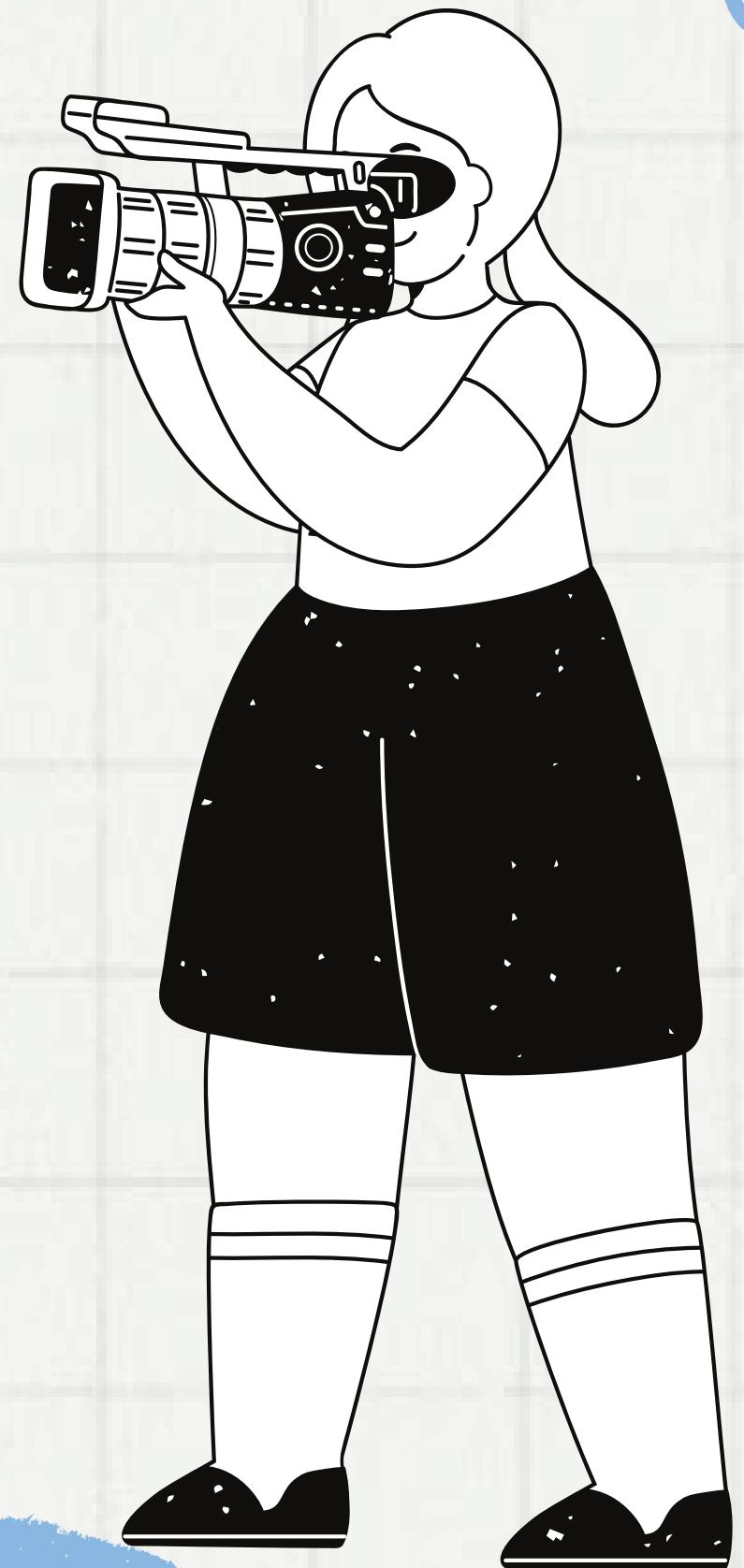
Drastic Change

Keep improving on core strength, assists, and try to score as well

Actions for Small Forward Analysis

No significant improvement

Maintain scoring consistency, and contribute more in game build-up.



Power Forward Analysis Dashboard Overview

Power Forward Analysis

The power forward does many of the things a center does, playing near the basket while rebounding and defending taller players. But power forwards also take longer shots than centers.

Power Forward '23 Stats



Power Forward '24 Stats



Power Forward with the most drastic change

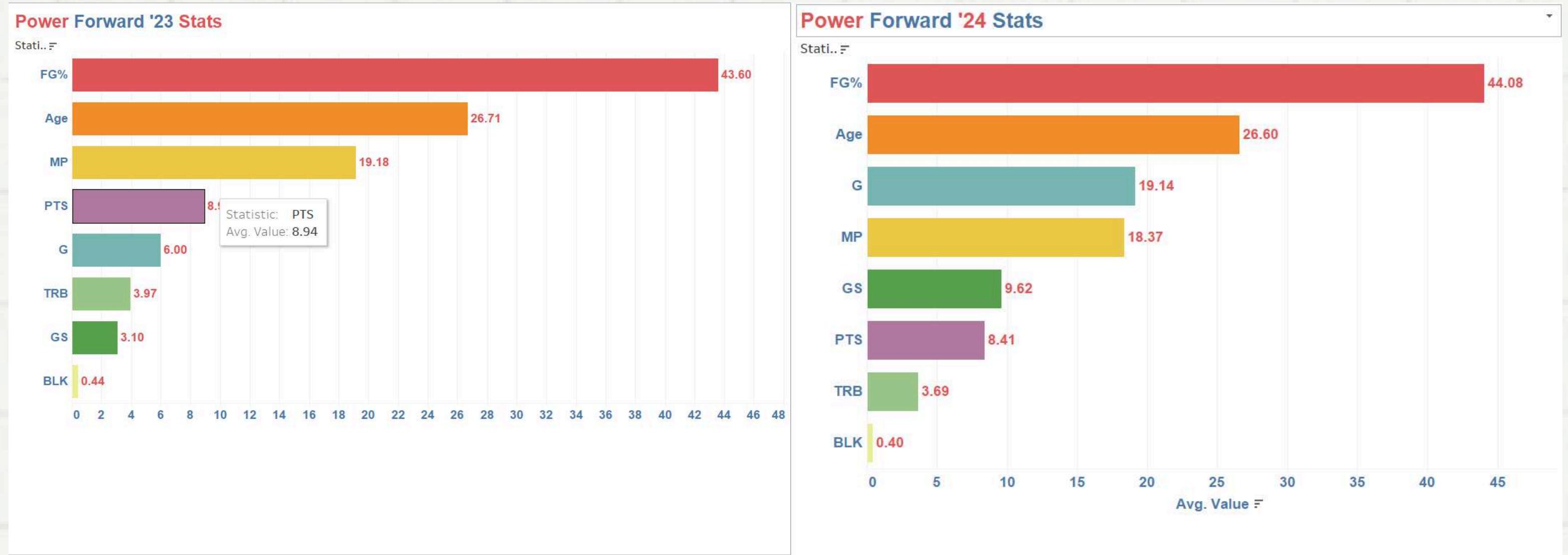
TAYLOR HENDRICKS

Back

Next

In this dashboard, we provide only 2 separate bar charts, each representing a different time period from the season, with the aim of observing the most drastic development of players.

Power Forward Overall



We do research on what areas contribute to the Power Forward position. It is concluded that the most influential stats for a Power Forward are percentage of shot success, age, minutes per game, points, many matches, total rebounds, position as a core player, and block

Power Forward Drastic Change

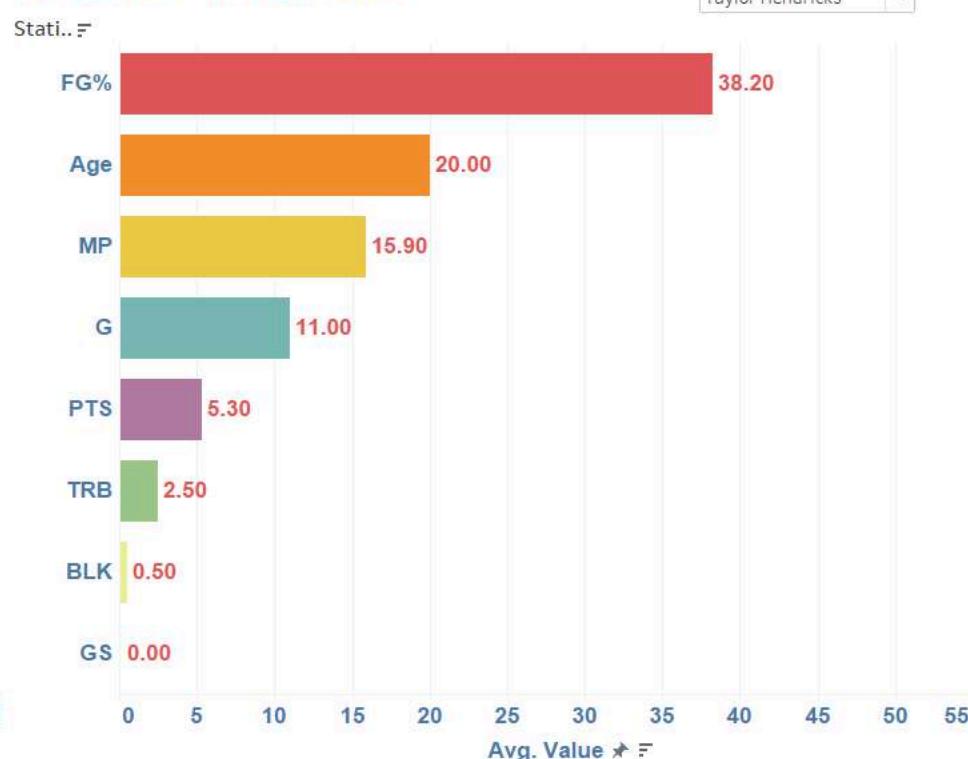
Power Forward Analysis

The power forward does many of the things a center does, playing near the basket while rebounding and defending taller players. But power forwards also take longer shots than centers.

Power Forward '23 Stats



Power Forward '24 Stats



Power Forward with the most drastic change

TAYLOR HENDRICKS

Back

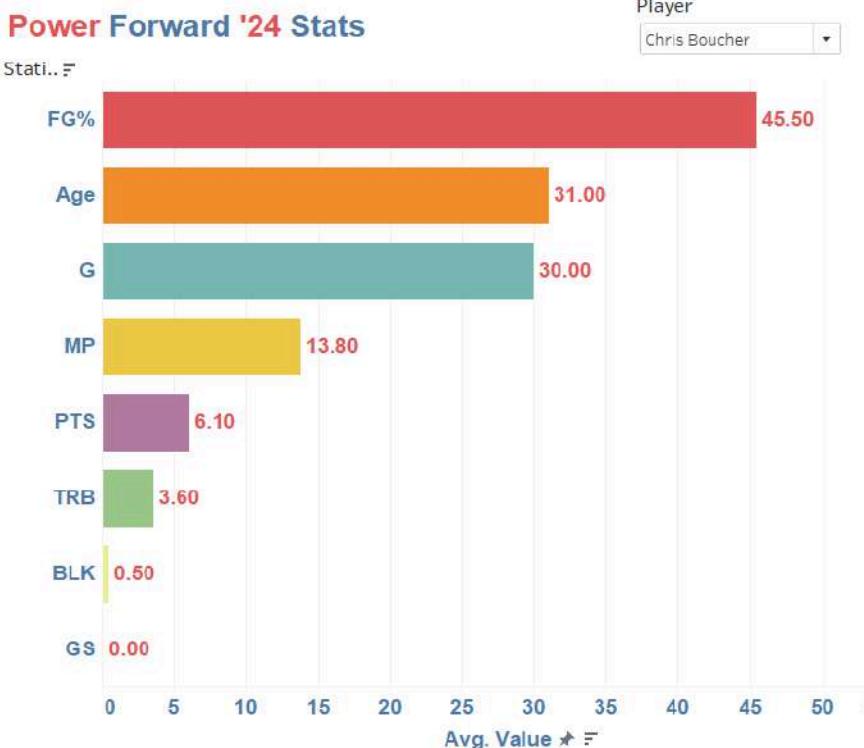
Next

As you can see in this statistics for Taylor Hendricks we can see that the numbers of each statistic increase dramatically, from FG%, minute played, and number of game played.

Power Forward No Significant Improvement

Power Forward Analysis

The power forward does many of the things a center does, playing near the basket while rebounding and defending taller players. But power forwards also take longer shots than centers.



Power Forward with the most drastic change
TAYLOR HENDRICKS

As you can see in this statistics for Chris Boucher we can see that the numbers doesn't show any significant changes, only a slight drop or a slight lift.

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Overall Player

Strengthen ball handling and increase block, rebound frequency

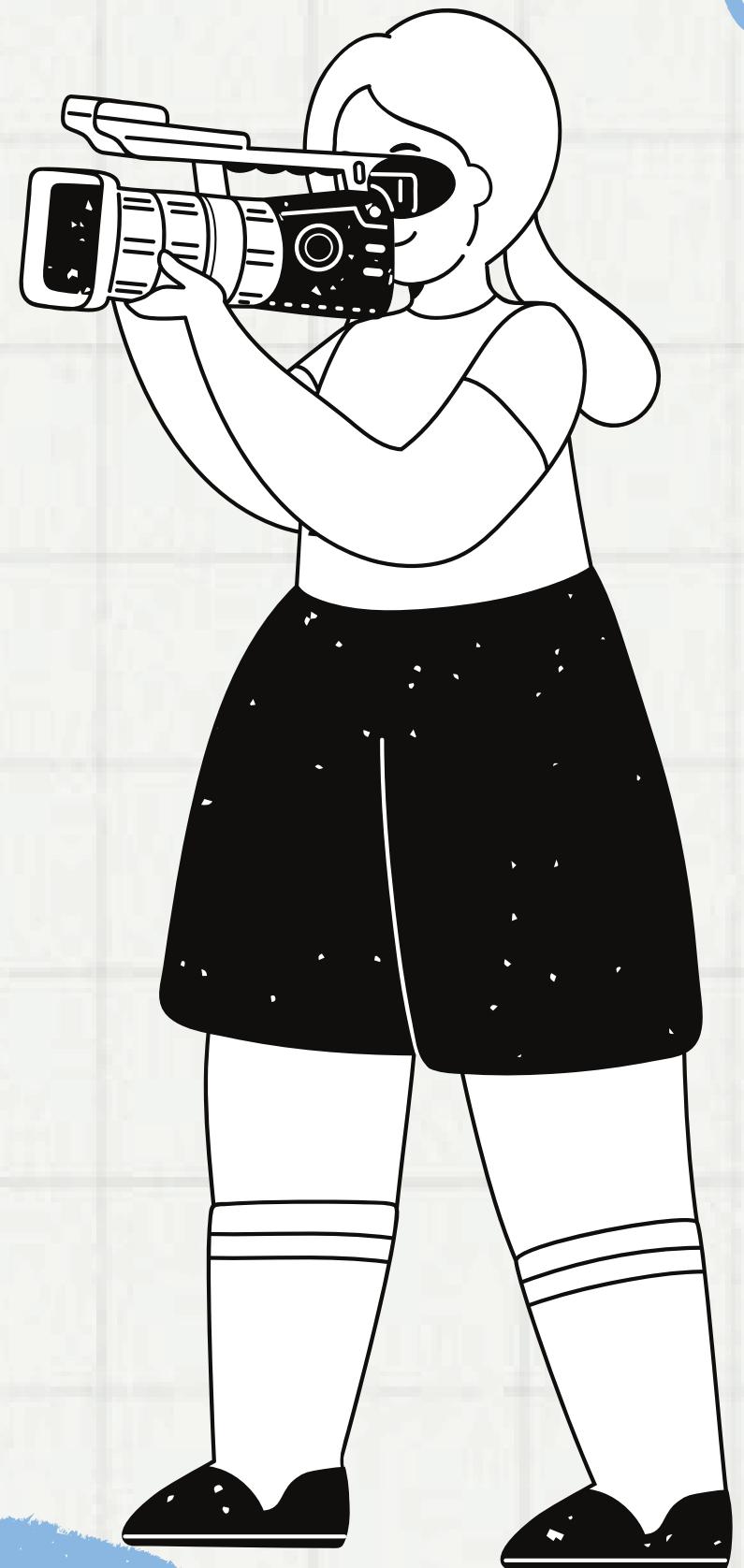
Drastic Change

Improve defence side, blocks and rebound might play an important role

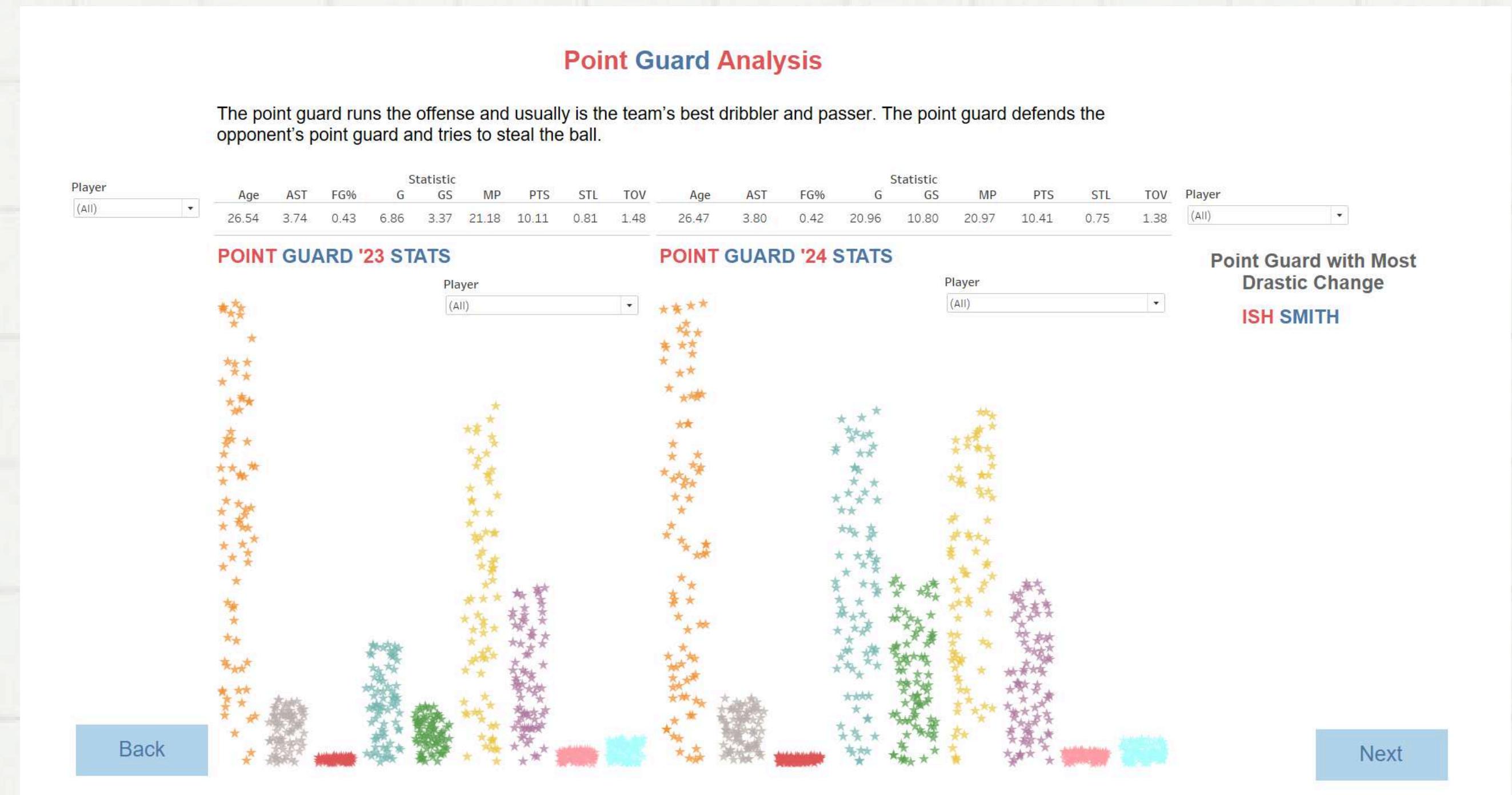
Actions for Power Forward Analysis

No significant improvement

Maintain good stats so the defence strength is consistent

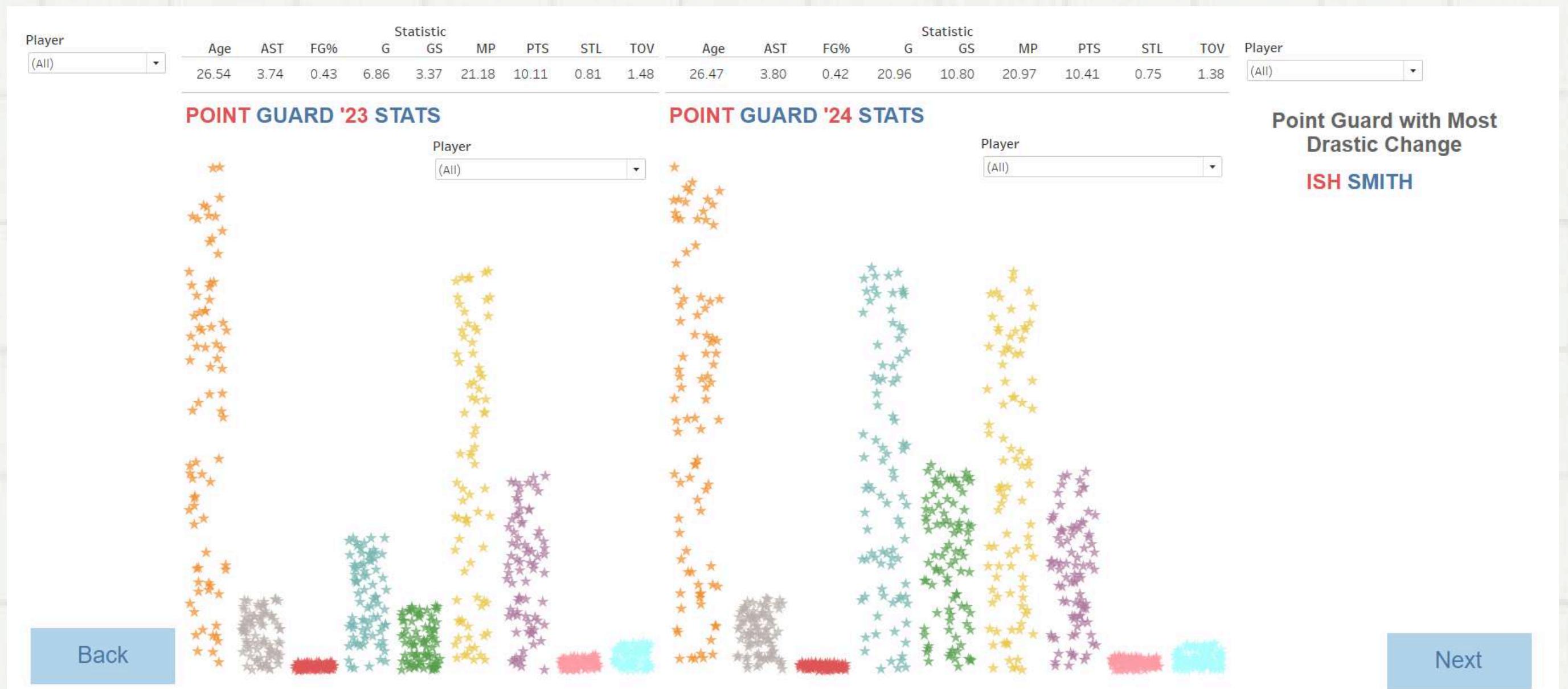


Point Guard Analysis Dashboard Overview



In this dashboard, we provide only 2 separate bar charts, each representing a different time period from the season, with the aim of observing the most drastic development of players.

Point Guard Overall



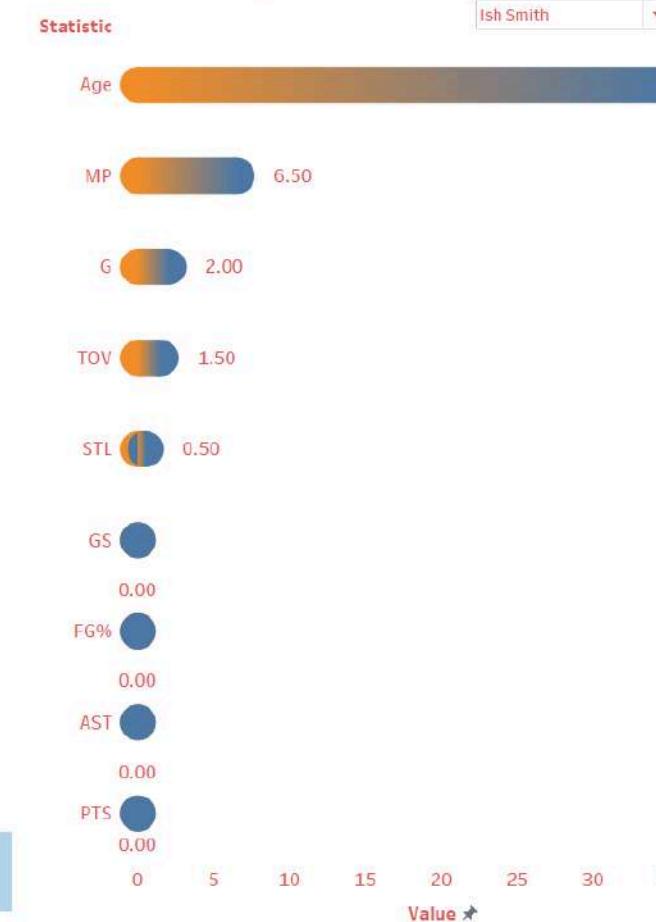
We do research on what areas contribute to the Point Guard position. It is concluded that the most influential stats for a Point Guard are age, assist, percentage of shot success, many matches, position as a core player, minutes per game, points, steal and turnover

Point Guard Overall Drastic Change

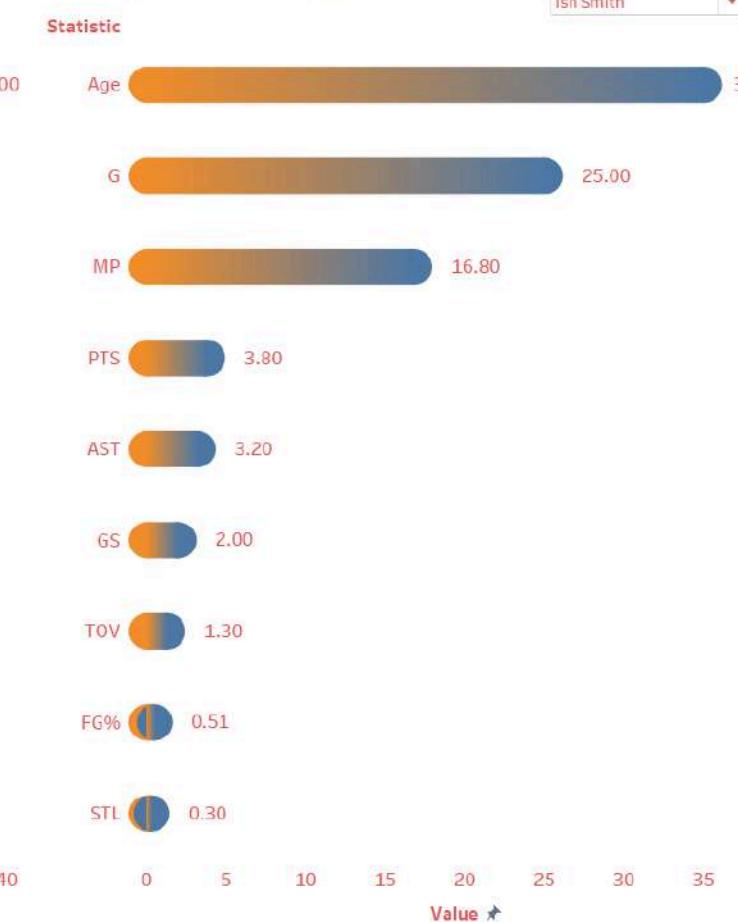
Point Guard Analysis

The point guard runs the offense and usually is the team's best dribbler and passer. The point guard defends the opponent's point guard and tries to steal the ball.

Rounded PG Chart 23



Rounded PG Chart 24



Point Guard with Most
Drastic Change
ISH SMITH

As you can see in this statistics for Ish Smith we can see that his overall stats go up quite drastically, even more so in terms of the percentage of points and assist

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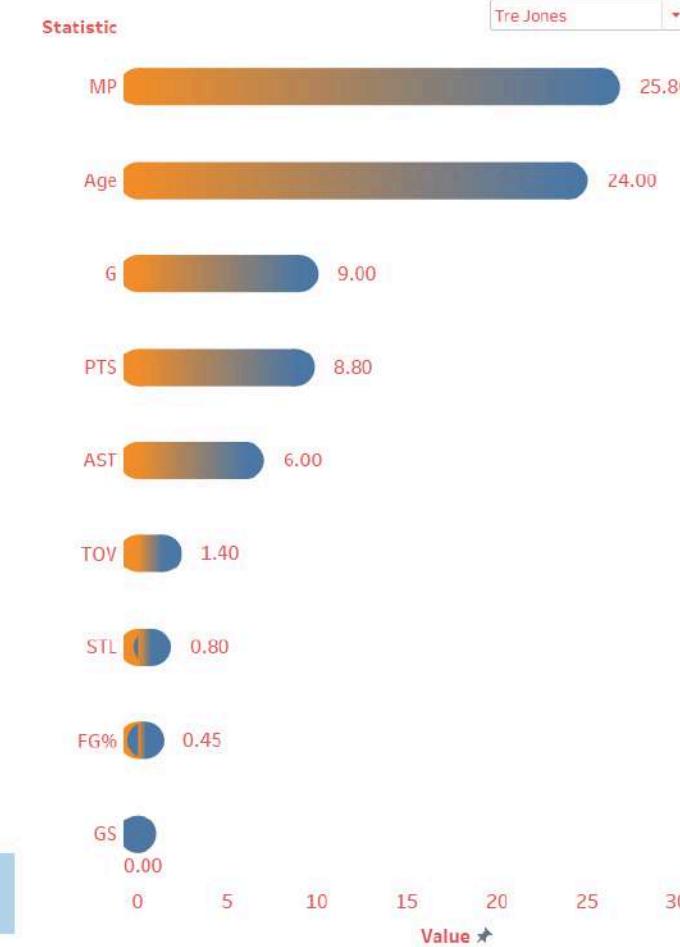
Next

Point Guard No Significant Improvement

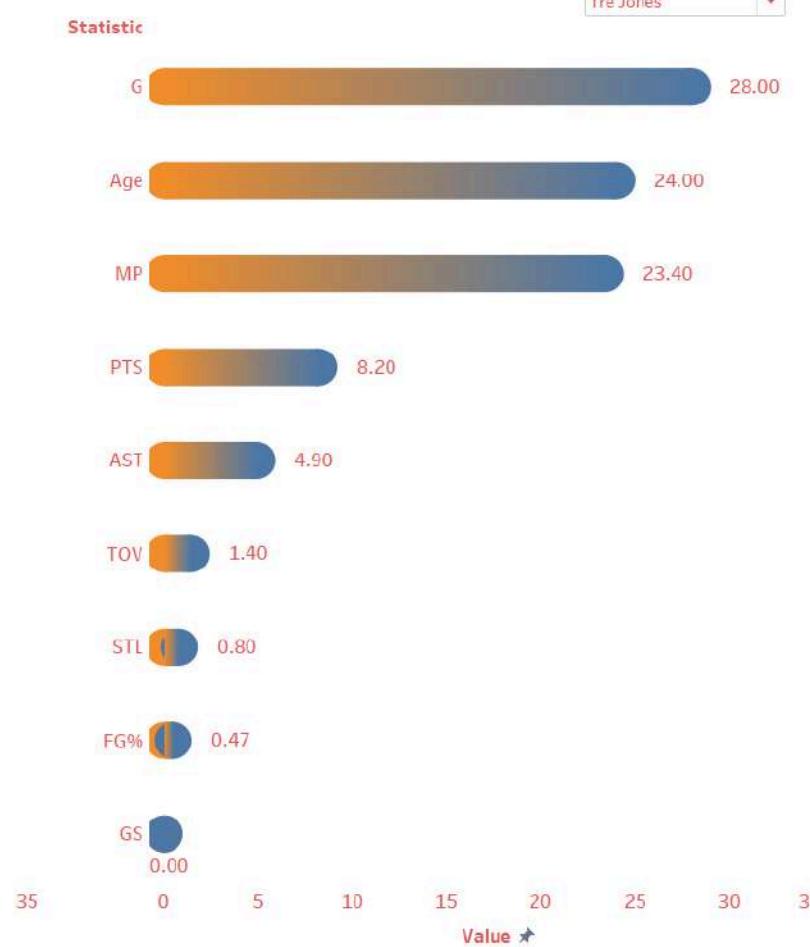
Point Guard Analysis

The point guard runs the offense and usually is the team's best dribbler and passer. The point guard defends the opponent's point guard and tries to steal the ball.

Rounded PG Chart 23



Rounded PG Chart 24



Point Guard with Most
Drastic Change
ISH SMITH

Back

Next

As you can see in this statistics for Tre Jones we can see that there is no significant growth, it does look that the games played are increasing, but some other stats are seen decreasing

Overall Player

Focus on improving key points such as assists, steals, and keep looking for opportunities to earn points

Drastic Change

Keep improving main points such as assists, steals, and look for opportunities to score points

Actions for Point Guard Analysis

No significant improvement

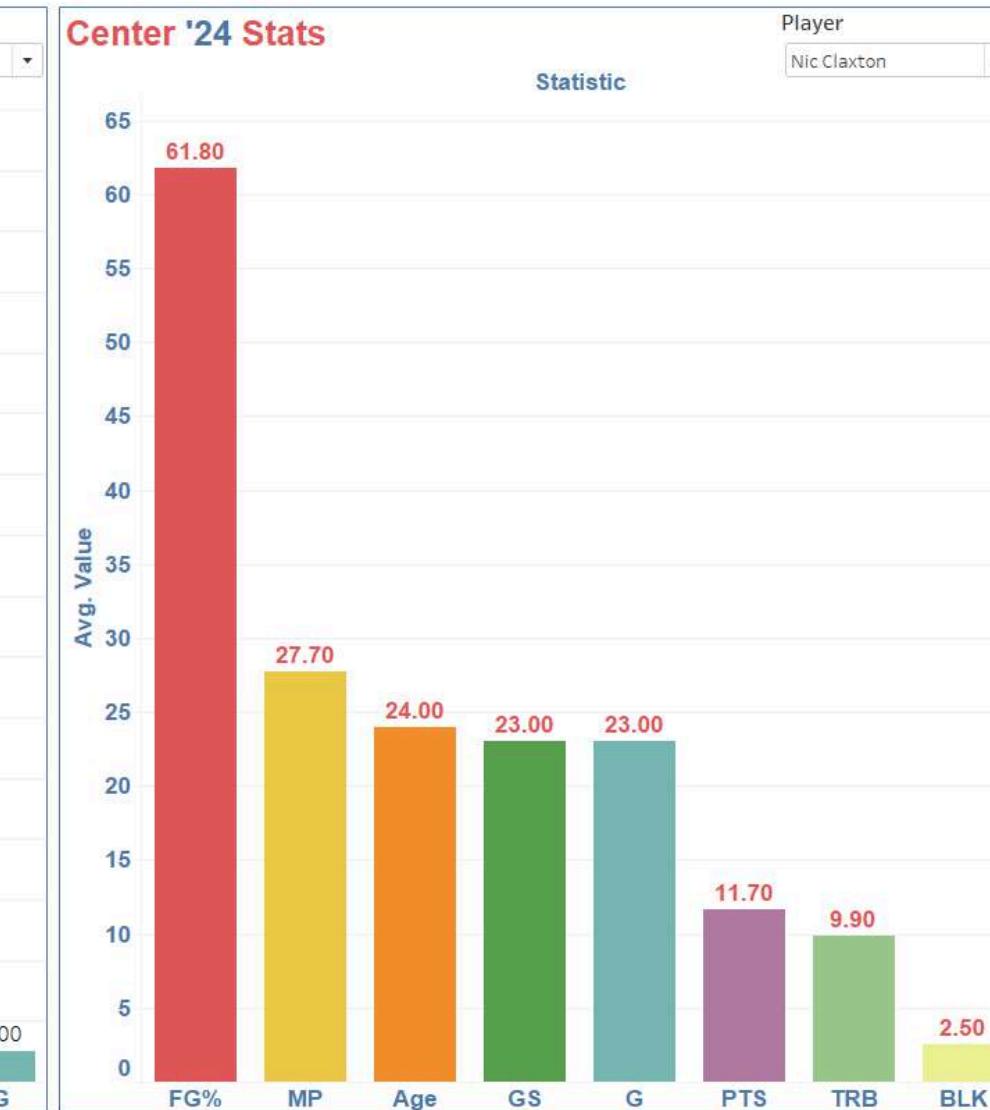
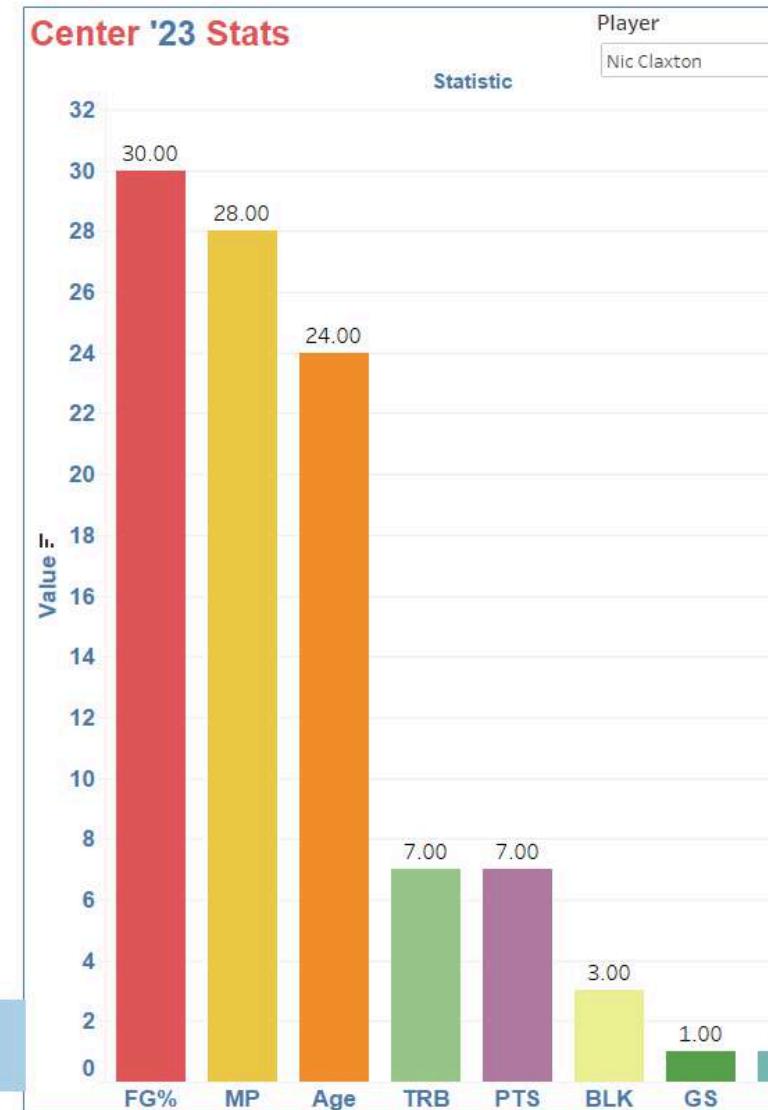
Although key points such as assists remain relatively high, the decline is still anticipated



Center Analysis Dashboard Overview

Centre Analysis

The center is the tallest player on each team, playing near the basket. On offense, the center tries to score on close shots and rebound. But on defense, the center tries to block opponents' shots and rebound their misses.



CENTER WITH THE MOST
DRASTIC CHANGE

NIC CLAXTON

Back

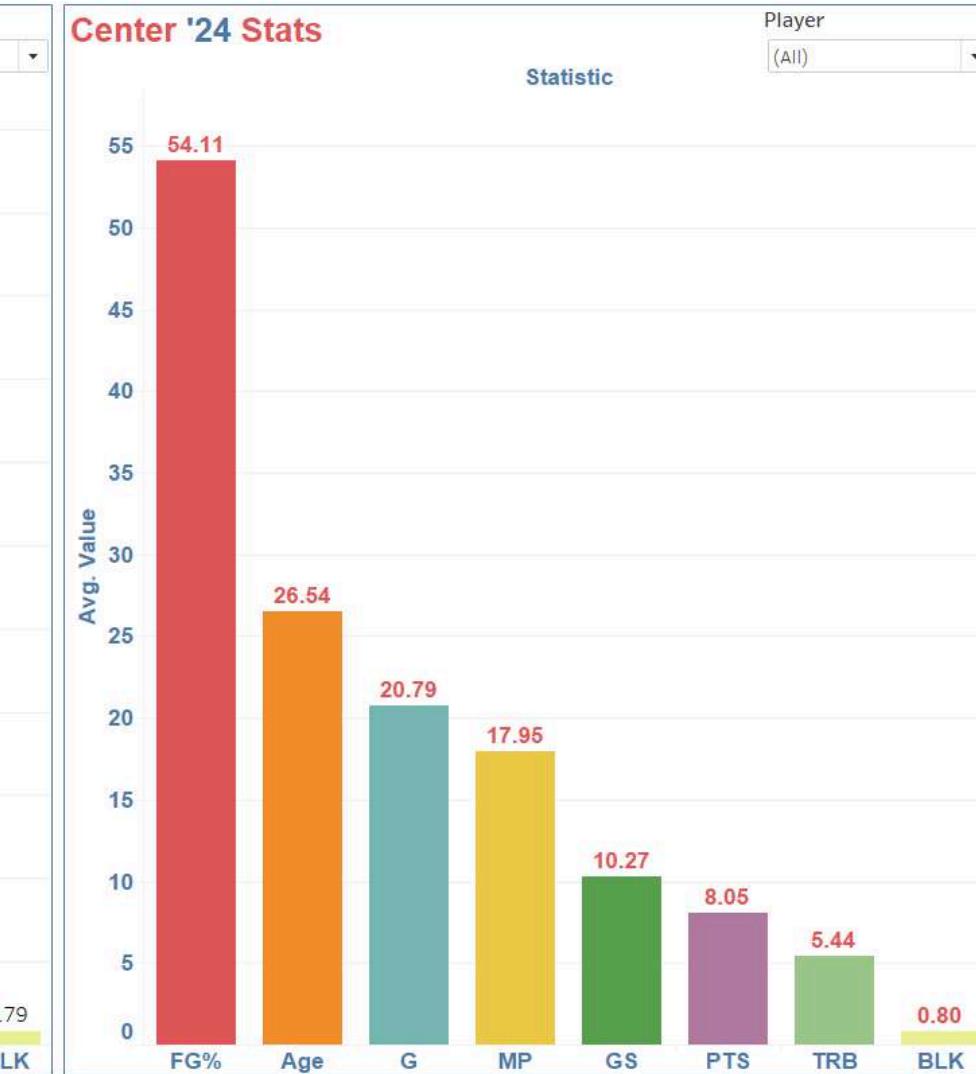
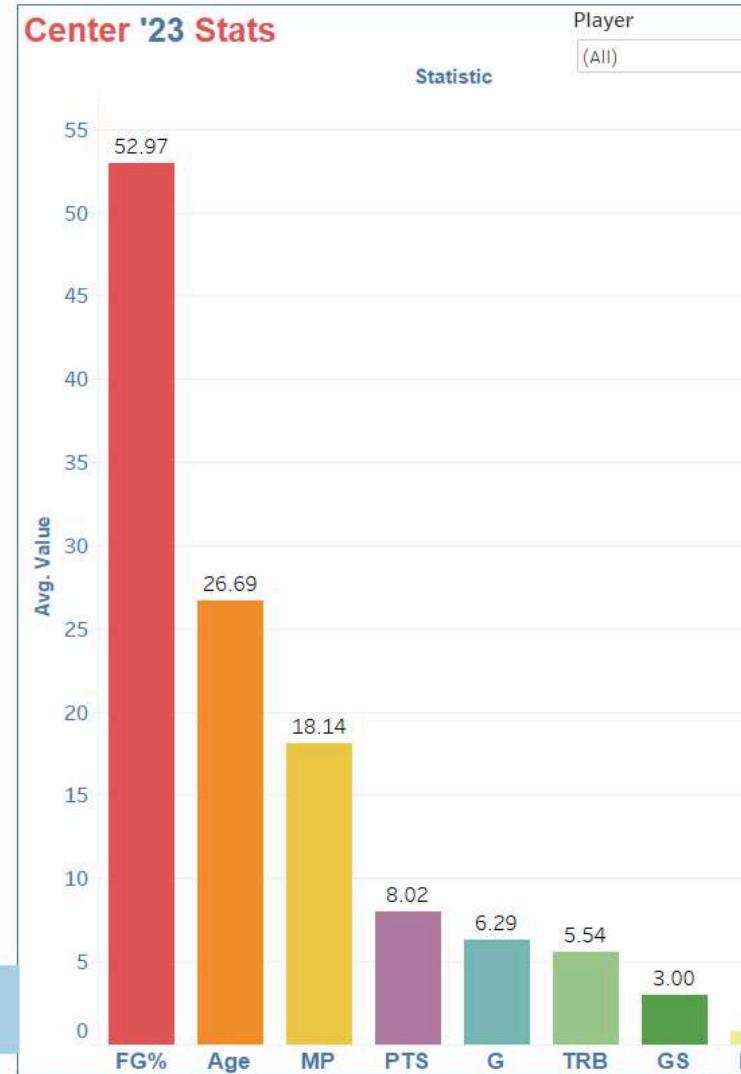
Next

In this dashboard, we provide only 2 separate bar charts, each representing a different time period from the season, with the aim of observing the most drastic development of players.

Center Overall

Centre Analysis

The center is the tallest player on each team, playing near the basket. On offense, the center tries to score on close shots and rebound. But on defense, the center tries to block opponents' shots and rebound their misses.



CENTER WITH THE MOST
DRASTIC CHANGE

NIC CLAXTON

We do research on what areas contribute to the Center position. It is concluded that the most influential stats for a Center are percentage of shot success, age, minutes per game, points, many matches, total rebounds, position as a core player, and block

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Point Guard Overall Drastic Change

Centre Analysis

The center is the tallest player on each team, playing near the basket. On offense, the center tries to score on close shots and rebound. But on defense, the center tries to block opponents' shots and rebound their misses.



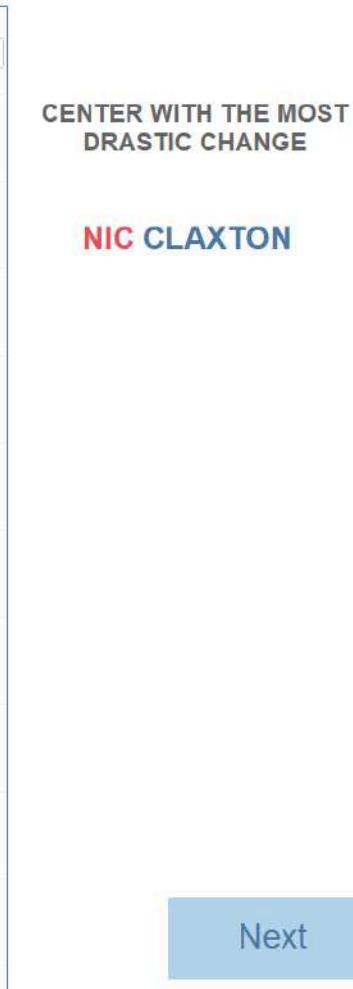
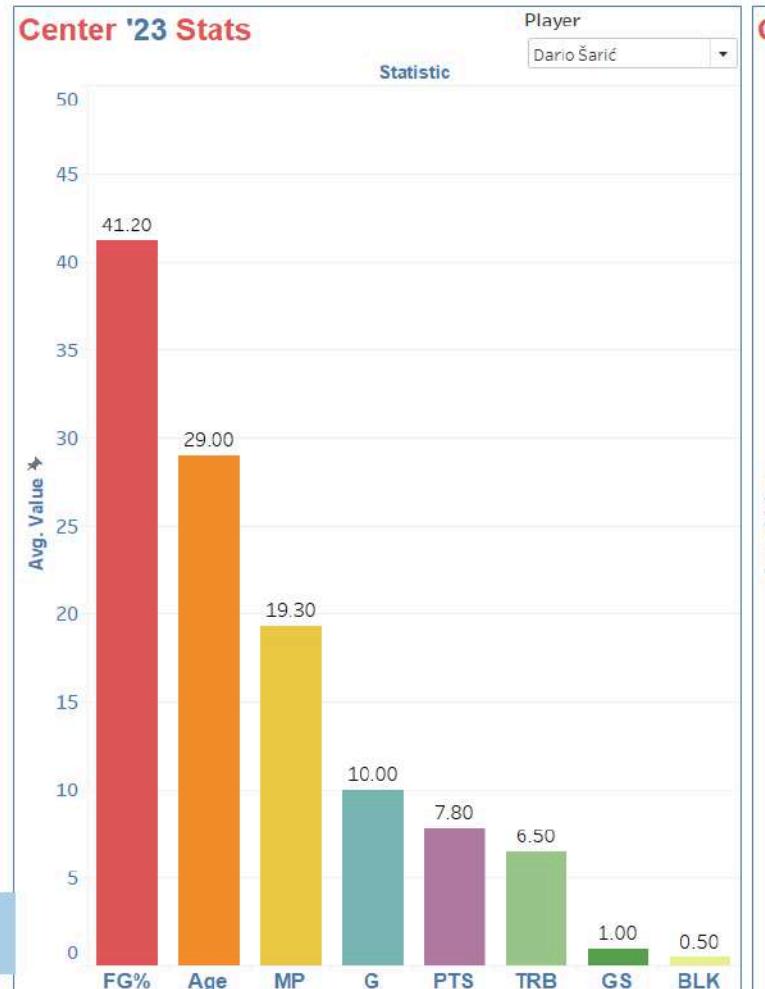
As you can see in this statistic for Nic Claxton, we can see that his overall stats go up quite drastically, even more so in terms of the percentage of successful throws

Next

Point Guard No Significant Improvement

Centre Analysis

The center is the tallest player on each team, playing near the basket. On offense, the center tries to score on close shots and rebound. But on defense, the center tries to block opponents' shots and rebound their misses.



CENTER WITH THE MOST
DRASTIC CHANGE
NIC CLAXTON

As you can see in these stats for Dario Saric, we can see that there is no significant growth, it does look that the games played and points are increasing, but some other stats are seen decreasing like rebound and block

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Overall Player

Focus on improving key points such as blocks, rebounds, and keep looking for opportunities to earn points

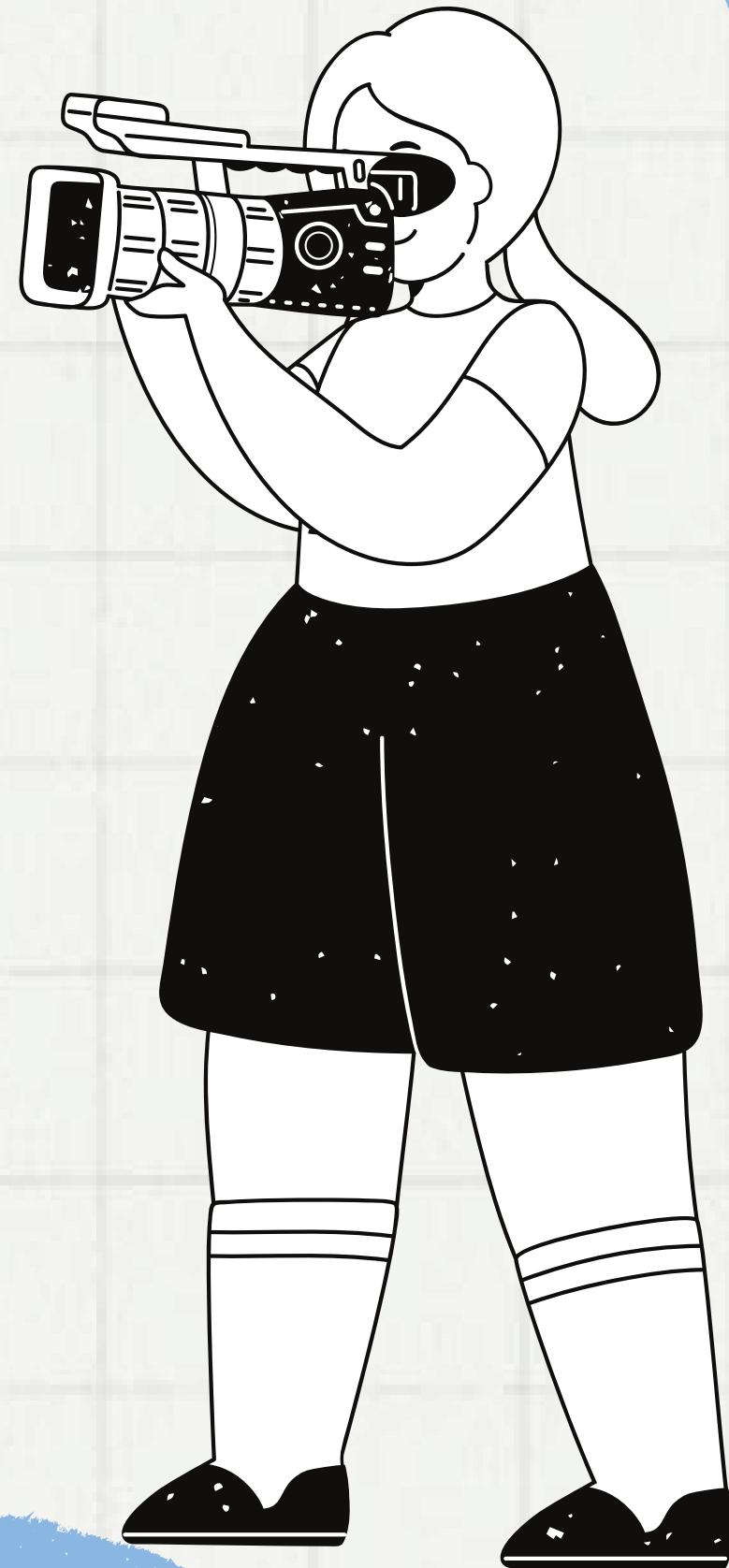
Drastic Change

With the points increasing drastically and the overall stats also increasing, it is still necessary to maintain the existing momentum so that the performance does not decline

Actions for Center Analysis

No significant improvement

Keep practicing to improve key points such as declining blocks and rebounds, and also keep looking for ways to make more scores



Scrapped Visualization



Reason: This data is used to determine what stats affect a particular position, and we also match it with the internet. We decided not to use this visualization because it is very dense, and the insights gained from it are not very compelling.

Scrapped Analyzation



Actually, we also conduct an analysis on clusters, where the players are ranked and their stats are displayed in a radar chart, as shown in the image above. This analysis aims to show that if a new player joins, they can be categorized into cluster 1, 2, or 3. These clusters are created separately, with 3 clusters for the 5 different positions.

Reason why we scrapped that: The goal that we wanted to convey became unclear or vague and deviated too much from the original objective. The goal became very broad and unspecific.

Final Summary & Conclusion Dashboard

Final Summary of the Dream Team

This is the number one player of every position according to the NBA source

Player	Pos	2P	2P%	2PA	3P	3P%	3PA	AST	Age	BLK	DRB
Damian Lillard	Point Guard	4.20	0.50	8.40	3.20	0.37	8.70	6.80	33.00	0.20	3.90
DeMar DeRozan	Small Forward	6.80	0.48	14.40	0.90	0.35	2.60	5.40	34.00	0.80	3.20
Domantas Sabonis	Center (basketball)	7.20	0.62	11.70	0.40	0.35	1.20	7.50	27.00	0.60	9.10
Donovan Mitchell	Shooting Guard	6.70	0.54	12.50	3.10	0.35	8.90	5.70	27.00	0.50	4.60
Jayson Tatum	Power Forward	6.30	0.58	10.90	3.00	0.35	8.70	4.40	25.00	0.50	7.50

Based on our analysis, it is evident that at least the NBA players we evaluated consistently ranked within the top 8. Interestingly, however, no player from a specific position managed to secure the first rank in our analysis. It's shows how vote plays its crucial roles to determine the..

Our Result Analysis

TOP PG

Play..	F	Age
Luka Don..	0.2632	
Trae You..	0.3158	
Shai Gilg..	0.3158	
Damian L..	0.7368	

TOP SF

Play..	F	Age	BLK
Kawhi Le..	0.7647	0.63	
DeMar D..	0.8824	0.72	
Shai Gilg..	0.4706	0.54	
—	—	—	—

TOP CENTER

Play..	F	Age	BLK
Anthony ..	0.6111	0.8	
Joel Emb..	0.5556	0.6	
Rudy Go..	0.6667	0.6	
Nikola Jo..	0.5000	0.2	
Brook Lo..	0.8889	1.0	
Domanta..	0.4444	0.1	
—	—	—	—

TOP SG

Play..	F	3P%	Age
Giannis ..	0.5000	0.3	
LeBron J..	1.0000	0.2	
Scottie B..	0.3850	0.3	
Kevin Du..	0.8000	0.3	
Julius Ra..	0.5000	0.0	
Victor W..	0.0500	1.0	
Kentavio..	0.4150	0.6	
Donovan ..	0.3470	0.4	
—	—	—	—

TOP PF

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—	—	—	—

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Team Giannis Stat Sheet

Discuss

Player	FGA	FGM	3PA	3PM	PTS
J. Tatum	22	31	10	18	55
G. Antetokounmpo	1	1	0	0	2
L. Markkanen	6	13	1	6	13
D. Mitchell	15	25	8	17	40
J. Morant	3	4	0	0	6
B. Adebayo	2	2	0	0	4
D. DeRozan	4	6	0	0	8
D. Lillard	9	21	8	20	26

A	B	C	D	E
Position	Player	AVG_2023	AVG_2024	AVG_difference
Point_Guard	Ish Smith	0.090257235	0.342418051	0.252160816
Shooting_Guard	Garrison Mathews	0.087066273	0.352113258	0.265046985
Small_Forward	Caleb Martin	0.239546036	0.47987382	0.240327784
Power_Forward	Taylor Hendricks	0.025122556	0.212727873	0.187605317
Center	Nic Claxton	0.397061524	0.619525839	0.222464315

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Kentavio..	0.4150	0.6	
Donovan ..	0.3470	0.4	
—	—	—	—

TOP PF

Play..	F	Age	BL
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

From the results, it can be concluded that the NBA's dream team and the team we formed based on positions are actually different. However, the difference between our dream team and the NBA's dream team is at most 7 ranks. The largest difference is Jayson Tatum in the Power Forward position, where in our results, Jayson is ranked 7th, while in the NBA's dream team, he is ranked 1st. The smallest difference is DeMar DeRozan, where in our analysis, DeMar is ranked 2nd, while in the NBA's dream team, he is ranked 1st. This shows that voting also plays a significant role in choosing the NBA's dream team, not just the stats.



Thank you !

See you at NBA Next Season !

