

Data Visualization of the National Basketball Association Statistics

Association     Team     Player

NBA Historical Data Visualization using Tableau

Yves Yang

\*source: kaggle.com, basketball-reference.com.

# Story

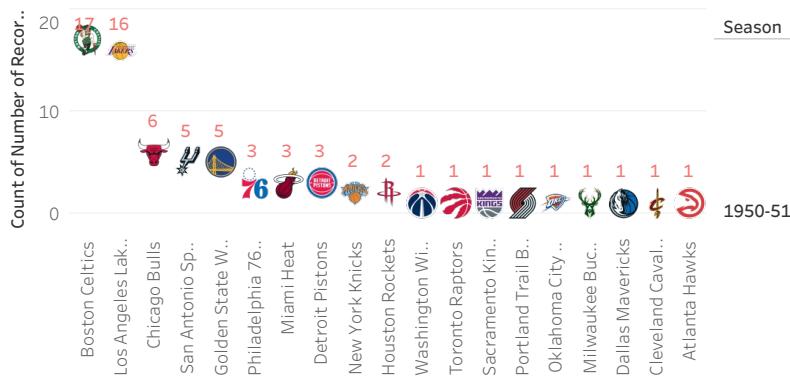
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Click Team Logo in the Map to see Team Information in Wikipedia

## Team Map



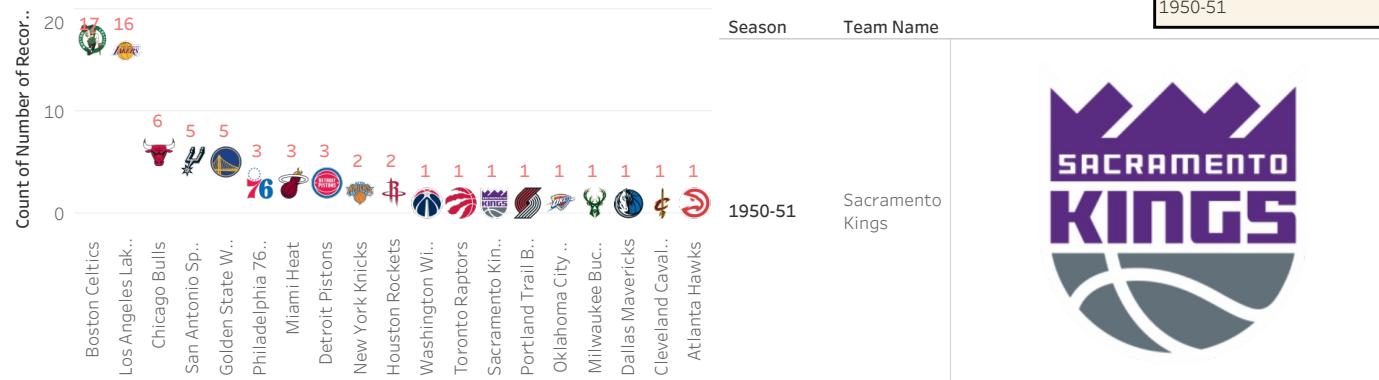
## Number of Championships



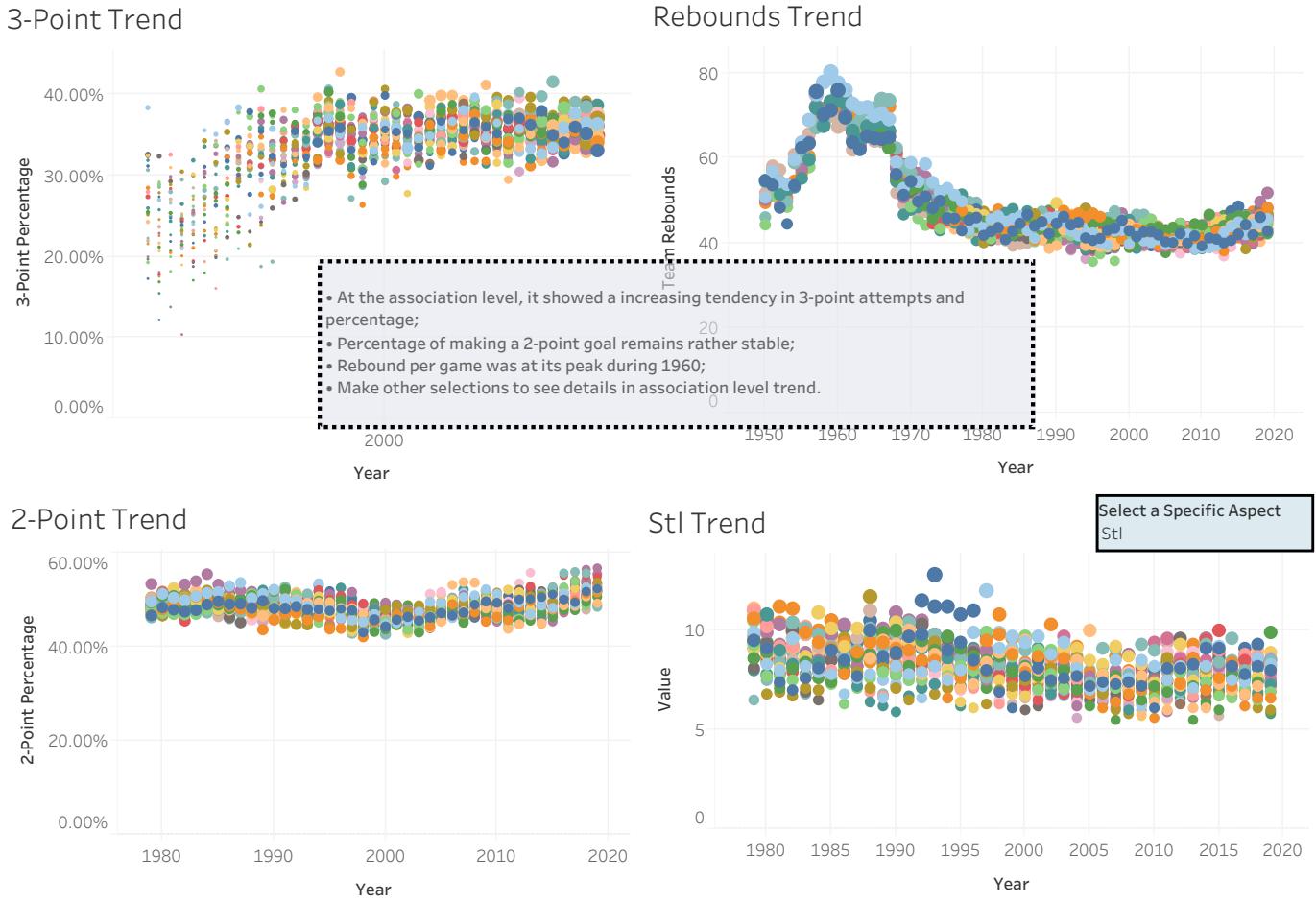
## Champion of Season 1950-51

Season Team Name

1950-51 Sacramento Kings



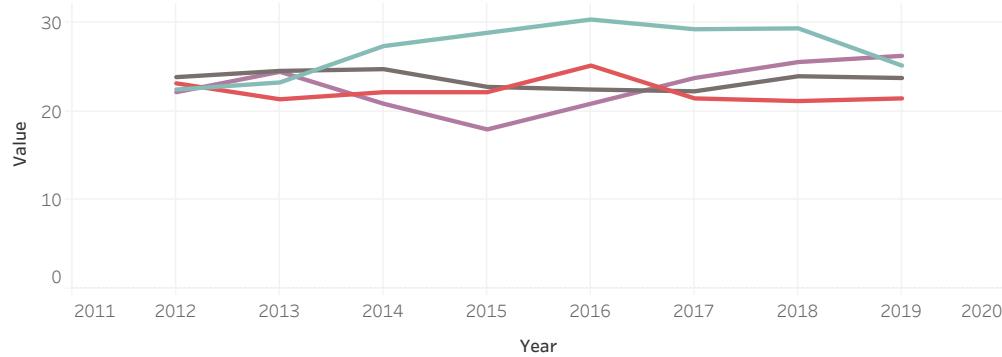
## Story



# Story

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Golden State Warriors, Houston Rockets, Los Angeles Clippers and 1 more's Ast Trend from 2012 to 2019



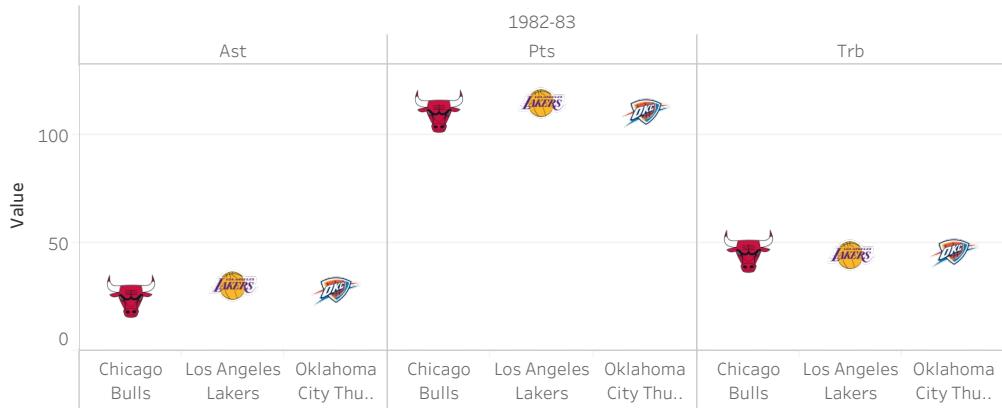
Adjut Period  
2012 to 2019

Select Team to Compare  
Multiple values

Select Type of Statistics  
Ast

Team Name  
Golden State Warriors  
Houston Rockets  
Los Angeles Clippers  
Other Team

Chicago Bulls, Los Angeles Lakers, Oklahoma City Thunder Comparison in 1982-83



Select a Season  
1982-83

Select Team  
Multiple values

Team Name  
Chicago Bulls  
Los Angeles Lakers  
Oklahoma City Thunder

# Story

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## Higher Contract Amount Means A Higher Standing?

Rank of Contract Amount

Portland Trail Blazers	1
Milwaukee Bucks	2
Miami Heat	3
Oklahoma City Thunder	4
Los Angeles Clippers	5
Orlando Magic	6
Minnesota Timberwolves	7
Golden State Warriors	8
Denver Nuggets	9
Washington Wizards	10
Detroit Pistons	11
Cleveland Cavaliers	12
Philadelphia 76ers	13
Houston Rockets	14
Memphis Grizzlies	15
Brooklyn Nets	16
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Charlotte Hornets	18
San Antonio Spurs	19
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Dallas Mavericks	22
Boston Celtics	23
Phoenix Suns	24
Sacramento Kings	25
New Orleans Pelicans	26
Indiana Pacers	27
Chicago Bulls	28
Atlanta Hawks	29
New York Knicks	30

Rank of Standings

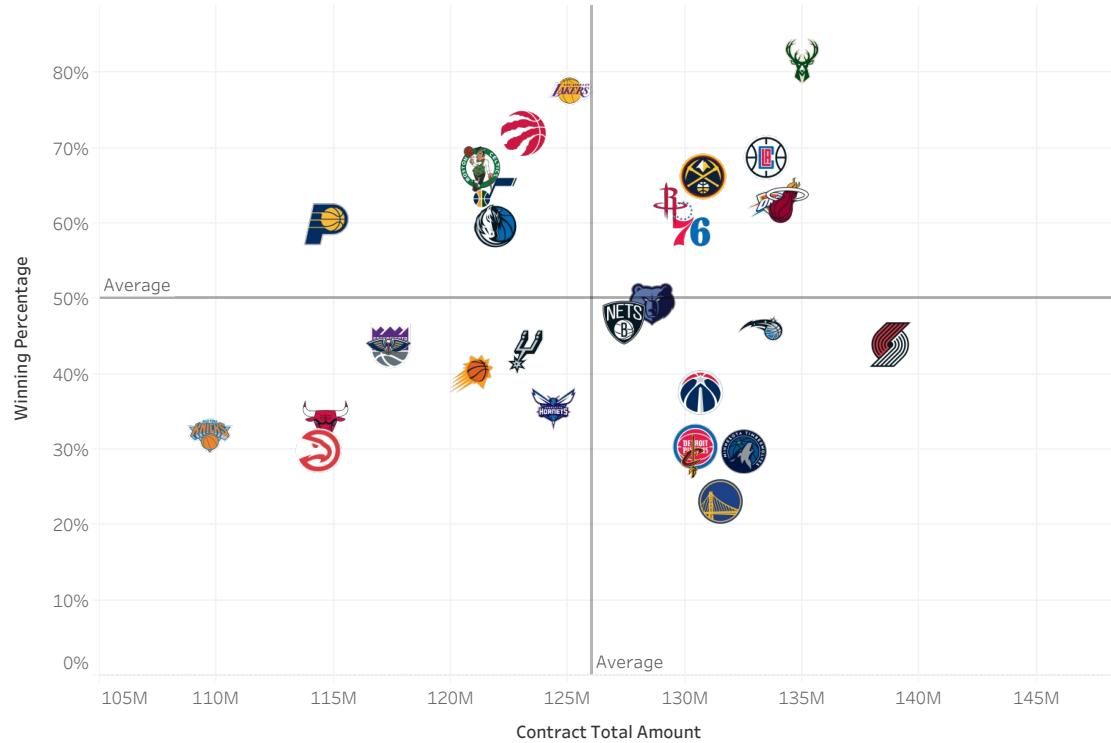
Milwaukee Bucks	1
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Memphis Grizzlies	14
Brooklyn Nets	15
Orlando Magic	16
Portland Trail Blazers	17
New Orleans Pelicans	18
Sacramento Kings	19
San Antonio Spurs	20
Phoenix Suns	21
Washington Wizards	22
Charlotte Hornets	23
Chicago Bulls	24
New York Knicks	25
Detroit Pistons	26
Atlanta Hawks	27
Minnesota Timberwolv..	28
Cleveland Cavaliers	29
Golden State Warriors	30

# Story

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## Higher Contract Amount Means A Higher Standing?

Correlation of 2019-20 Contract and 2019-20 Winning Percentage



# Story

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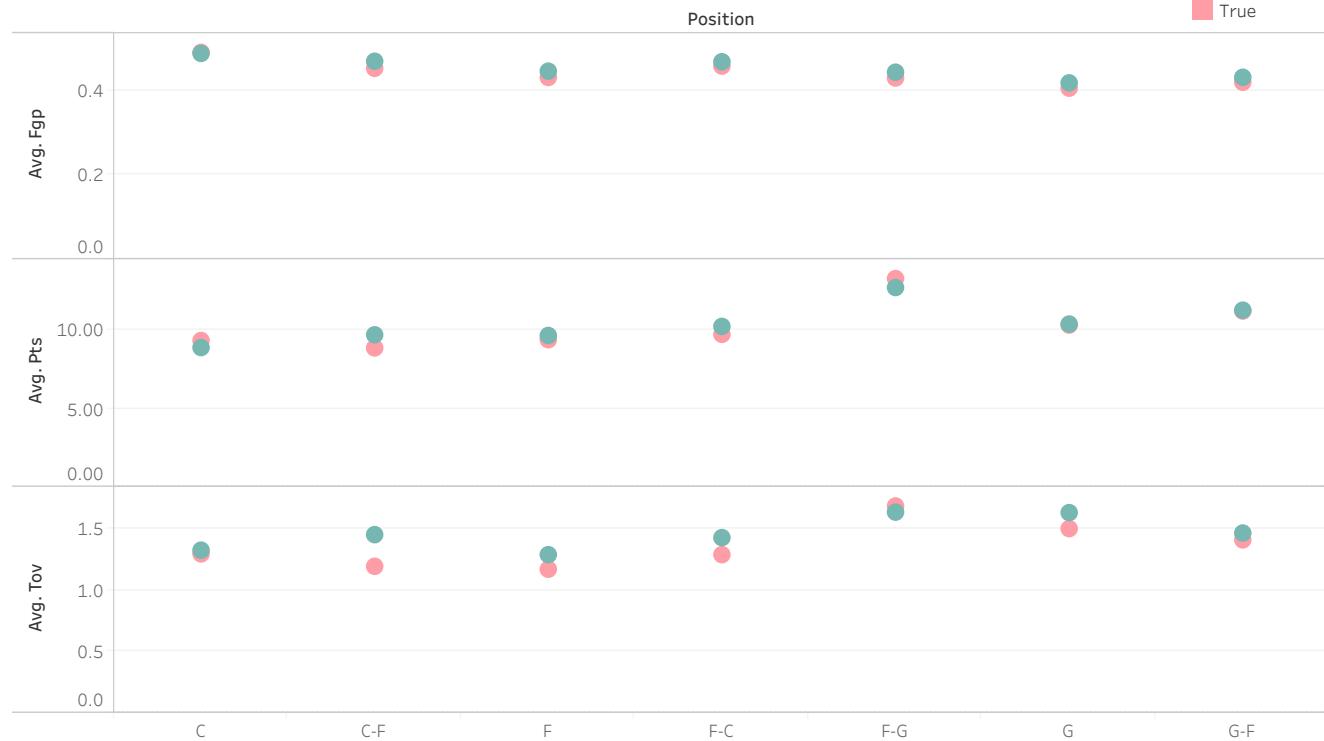
Does Playoff Really Mean Better Defense and Harder Offense?

Average Field Goal Percentage, Points, Turnover by Position

Playoff or Not?

False

True



# Story

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Select a Season
2008-09

2008-09 Top 10 Players in Assists per Game

2008-09 Chris Paul 11.00	2008-09 Steve Nash 9.69	2008-09 Jason Kidd 8.36	2008-09 Baron Davis 7.71		
2008-09 Deron Williams 10.67	2008-09 José Calderón 8.93				
2008-09 Gilbert Arenas 10.00	2008-09 Rajon Rondo 8.47				
2008-09 Dwyane Wade		2008-09 LeBron James 29.45	2008-09 Dirk Nowitzki 25.96		
2008-09 LeBron James					
2008-09 Kobe Bryant 27.58					

2008-09 Top 10 Players in Score per Game

2008-09 Dwyane Wade 30.12	2008-09 Dirk Nowitzki 25.96	2008-09 Kevin Martin 24.59	2008-09 Carmelo Anthony 23.65		
2008-09 LeBron James 29.45	2008-09 Danny Granger 25.79				
2008-09 Kobe Bryant 27.58	2008-09 Kevin Durant 25.28				
2008-09 Al Jefferson		2008-09 Brandon Roy	2008-09 J.R. Smith 2.2474		
2008-09 Al Jefferson					
2008-09 Brandon Roy					

2008-09 Top 10 Players in Rebounds per Game

2008-09 Dwight Howard 14.18	2008-09 Andris Biedriņš 11.18	2008-09 Carlos Boozer 10.74	2008-09 Tim Duncan 10.50		
2008-09 Troy Murphy	2008-09 Marcus Camby 11.13				
2008-09 David Lee	2008-09 Al Jefferson 10.96				
2008-09 Andrew Bogut 10.25		2008-09 Rashard Lewis 2.6408	2008-09 J.R. Smith 2.2474		
2008-09 Emeka Okafor 10.09					
2008-09 Peja Stojaković 2.2500					

2008-09 Top 10 Players in 3-Point Made per Game

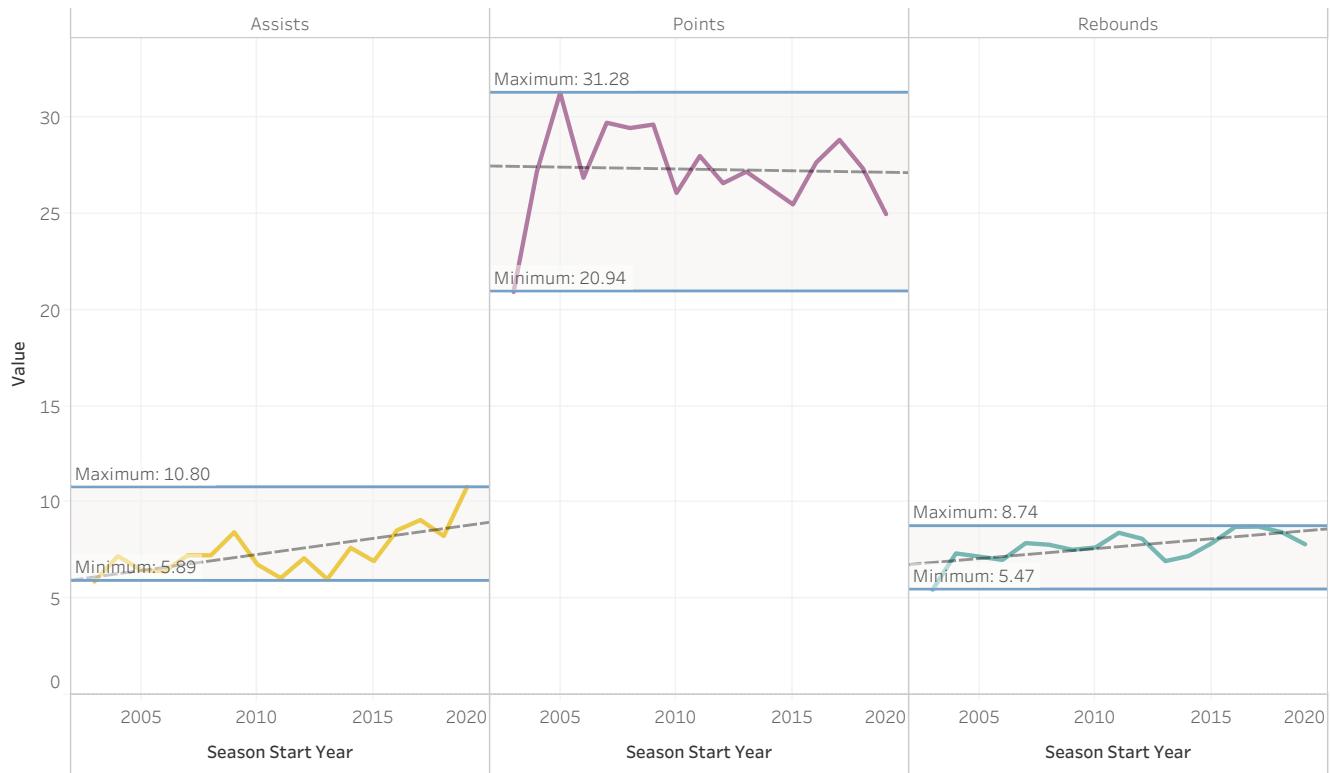
2008-09 Danny Granger 2.7164	2008-09 Ray Allen 2.5161	2008-09 Mo Williams 2.2947	2008-09 J.R. Smith 2.2474
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2008-09 Rashard Lewis 2.6408		2008-09 Troy Murphy 2.2055	
2008-09 Peja Stojaković 2.2500			

# Story

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Input a Player Name
LeBron James

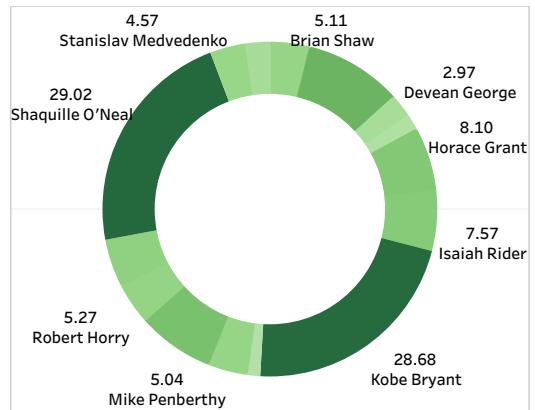
LeBron James's Career Points, Assists and Rebounds



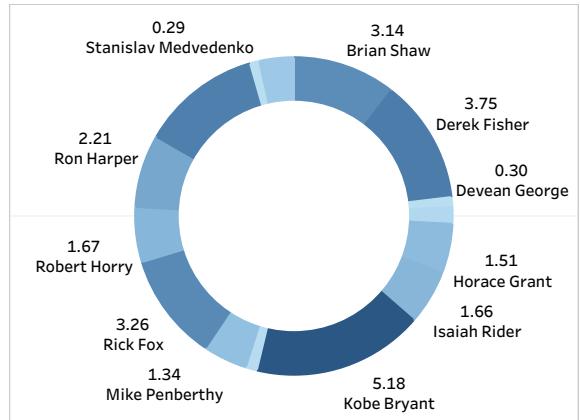
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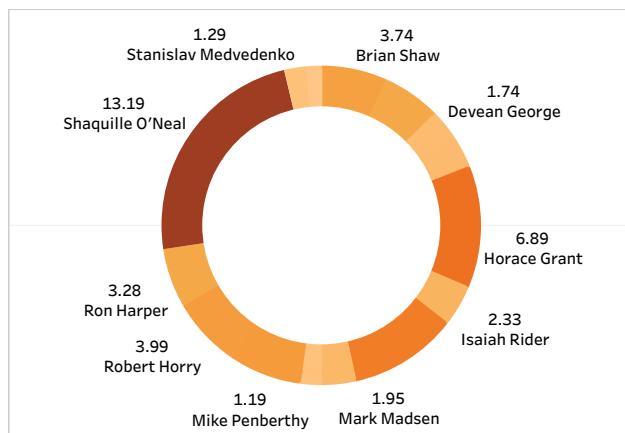
Player's Points in Los Angeles Lakers



Player's Assists in Los Angeles Lakers

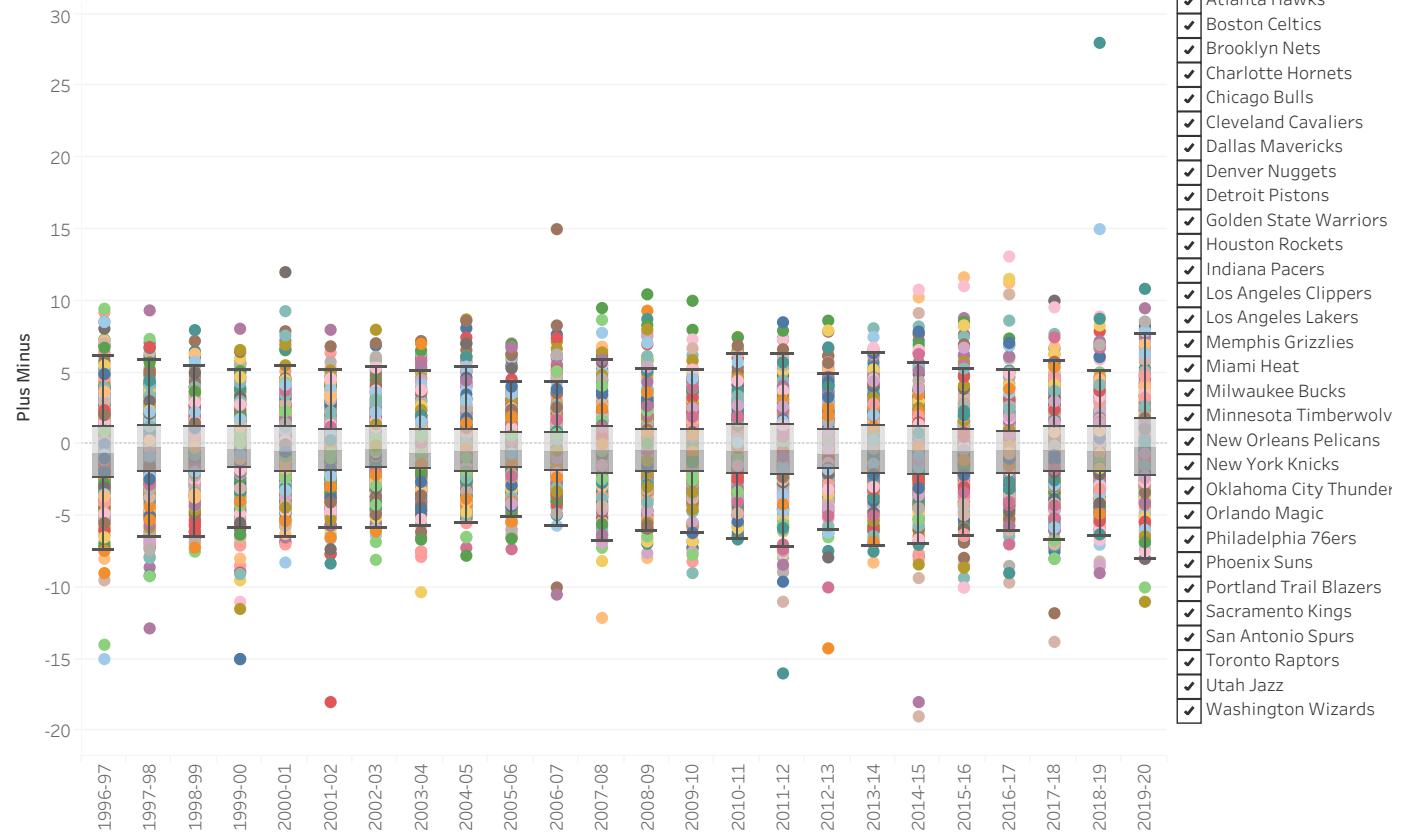


Player's Rebounds in Los Angeles Lakers



# Story

## All's Plus/Minus



Click Team Logo in the Map to see Team Information in Wikipedia

## Team Map

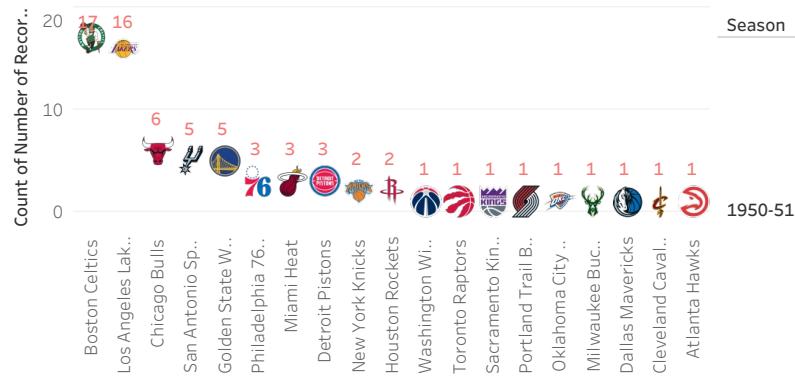


Slide to See Change  
To 2002

Conferences  
 Western  
 Eastern

Divisions  
 Atlantic Division  
 Central Division  
 Pacific Division  
 Southeast Division  
 Southwest Division  
 Northwest Division

## Number of Championships



## Champion of Season 1950-51

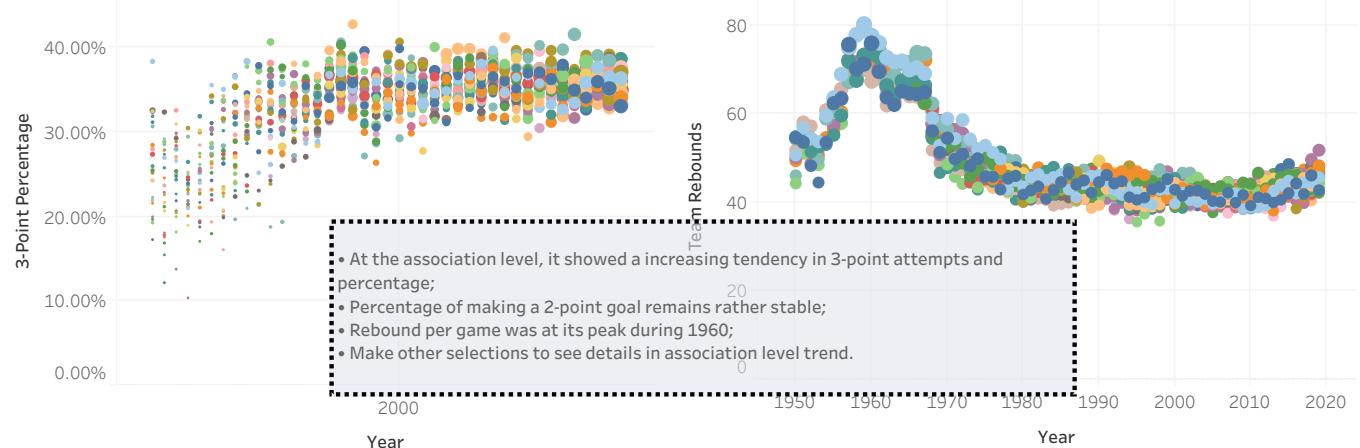
Season      Team Name

Select a Season  
1950-51

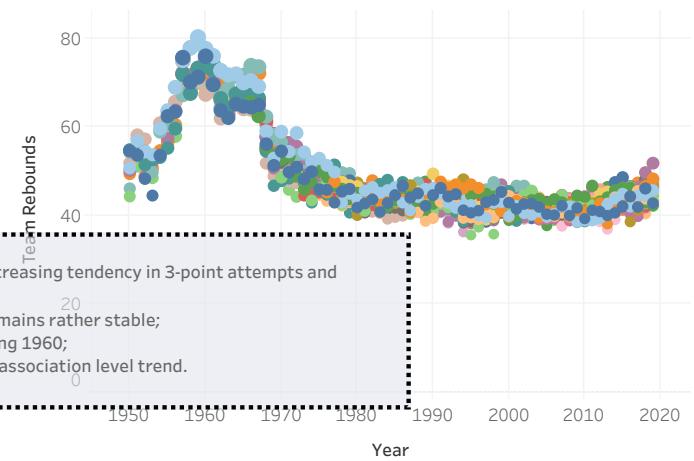
Sacramento  
Kings



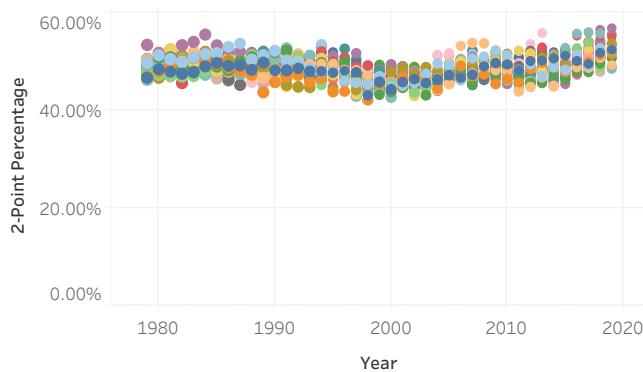
### 3-Point Trend



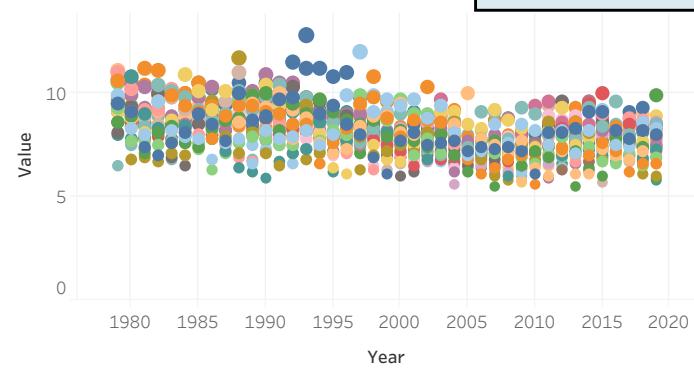
### Rebounds Trend



### 2-Point Trend

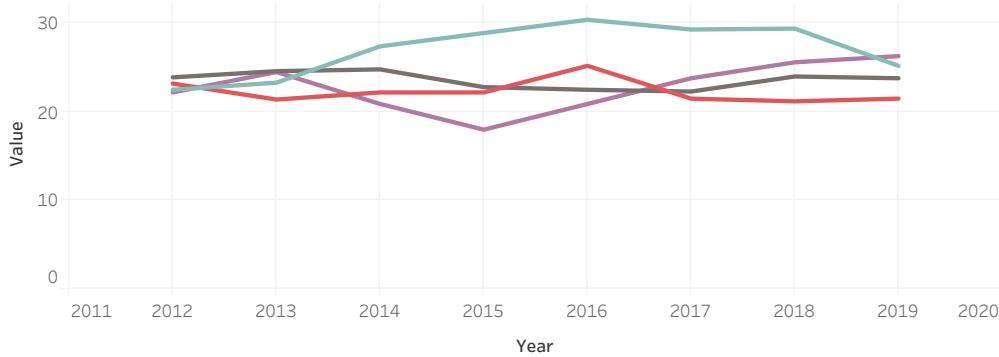


### Stl Trend



Select a Specific Aspect  
Stl

Golden State Warriors, Houston Rockets, Los Angeles Clippers and 1 more's Ast Trend from 2012 to 2019



Chicago Bulls, Los Angeles Lakers, Oklahoma City Thunder Comparison in 1982-83



Adjut Period  
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Select Team to Compare  
Multiple values

Select Type of Statistics  
Ast

Team Name  
Golden State Warriors  
Houston Rockets  
Los Angeles Clippers

Select a Season  
1982-83

Select Team  
Multiple values

Team Name  
Chicago Bulls  
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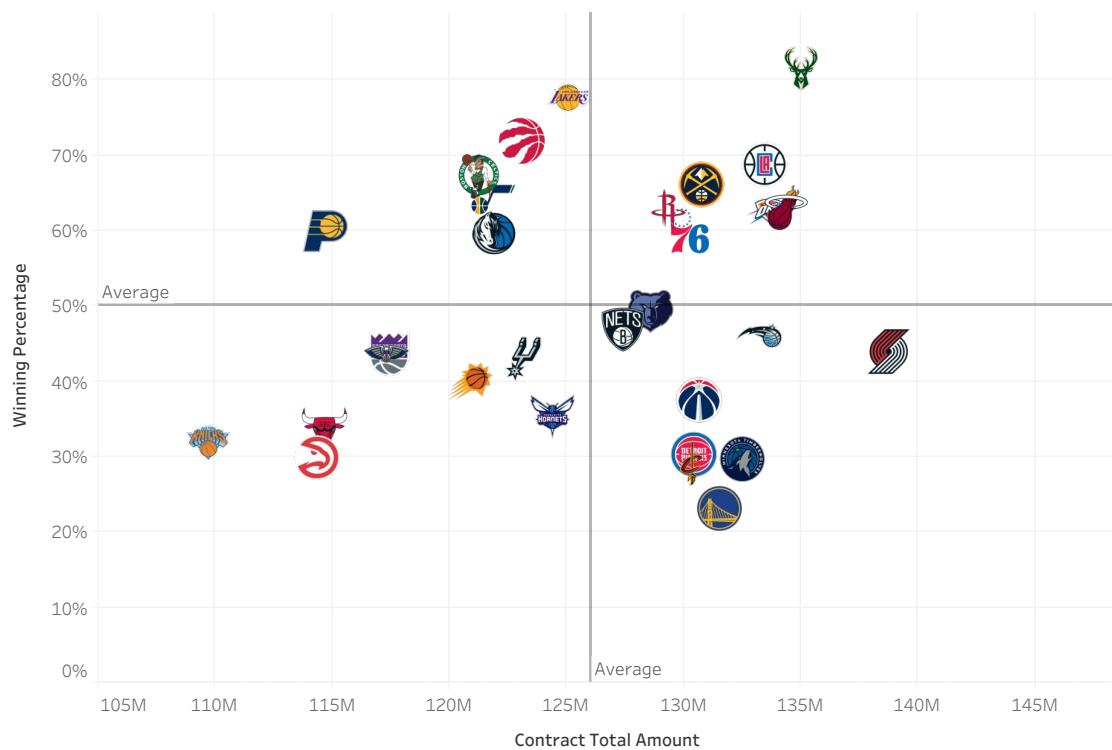
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Atlanta Hawks	27
Minnesota Timberwolv..	28
Cleveland Cavaliers	29
Golden State Warriors	30

The chart illustrates the relationship between the rank of contract amount and the rank of standings for 30 NBA teams. The data shows a complex web of connections where multiple teams can have the same rank in both categories, and some teams have different ranks in each.

## Higher Contract Amount Means A Higher Standing?

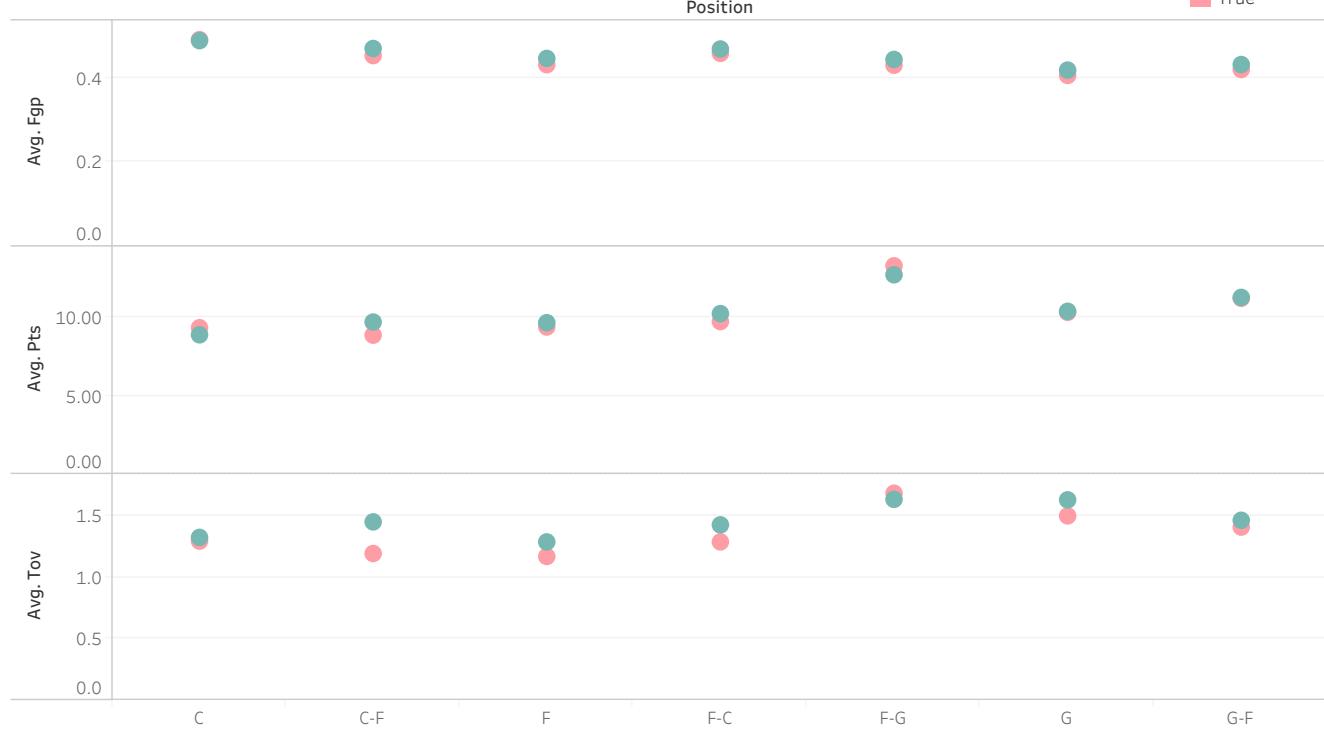
Correlation of 2019-20 Contract and 2019-20 Winning Percentage



Does Playoff Really Mean Better Defense and Harder Offense?

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Select a Season  
2008-09

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### 2008-09 Top 10 Players in Rebounds per Game

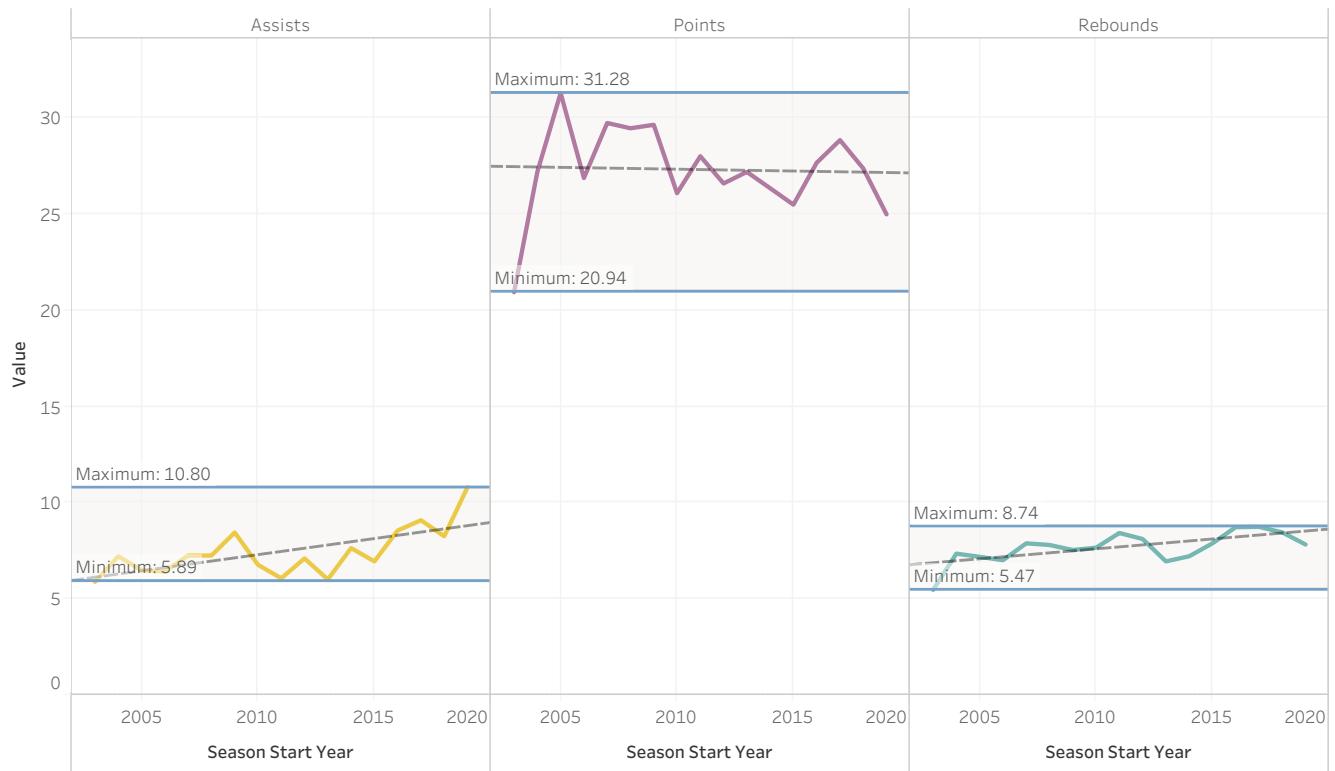
2008-09 Dwight Howard 14.18	2008-09 Andris Biedriņš 11.18	2008-09 Carlos Boozer 10.74	2008-09 Tim Duncan 10.50
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### 2008-09 Top 10 Players in 3-Point Made per Game

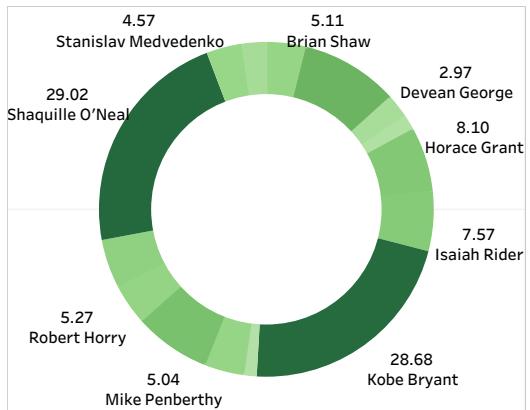
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2008-09 Rashard Lewis 2.6408	2008-09 Al Harrington 2.3425	2008-09 Kevin Martin 2.2549	2008-09 Troy Murphy 2.2055
	2008-09 Peja Stojaković 2.2500	2008-09 Jason Terry 2.2500	

Input a Player Name  
LeBron James

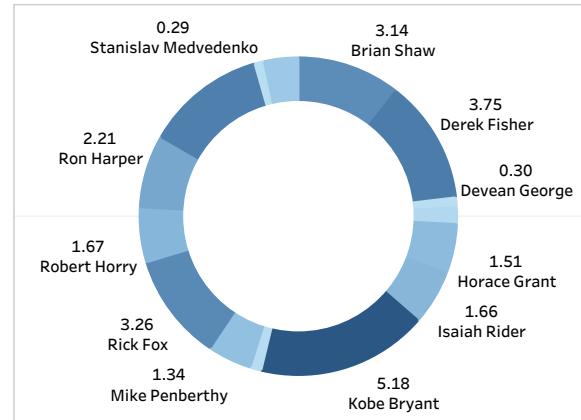
### LeBron James's Career Points, Assists and Rebounds



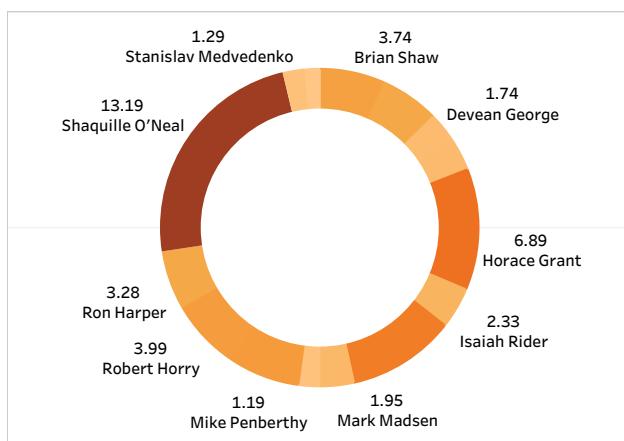
Player's Points in Los Angeles Lakers



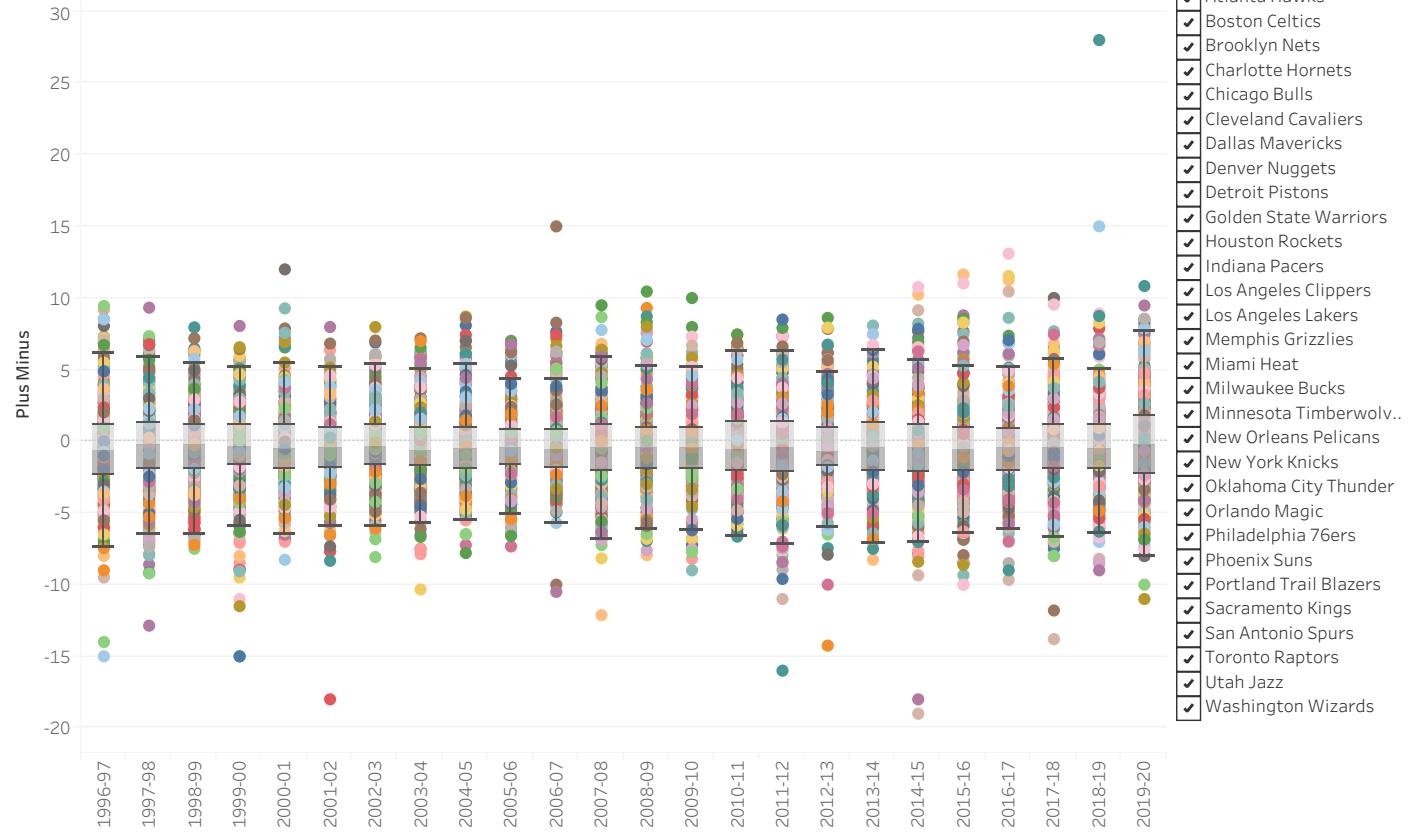
Player's Assists in Los Angeles Lakers



Player's Rebounds in Los Angeles Lakers



## All's Plus/Minus



## Team Map

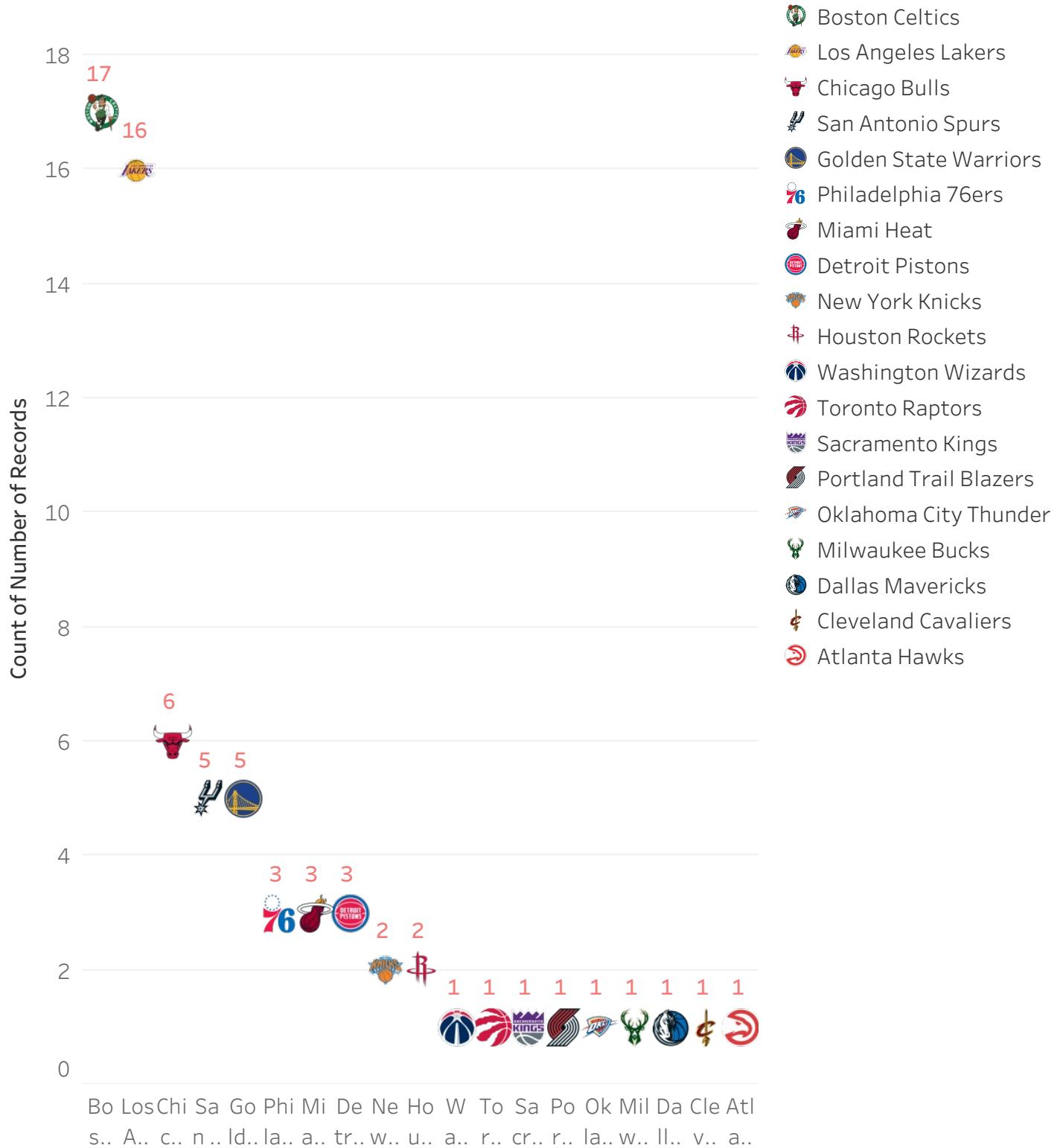


## Champion of Season 1950-51

Season	Team Name	
1950-51	Sacramento Kings	 The logo for the Sacramento Kings basketball team. It features a purple crown at the top with three peaks. Below the crown, the word "SACRAMENTO" is written in a smaller, bold, purple sans-serif font. Underneath that, the word "KINGS" is written in a larger, bold, purple sans-serif font. A stylized basketball is positioned at the base of the crown, with its pattern partially visible.

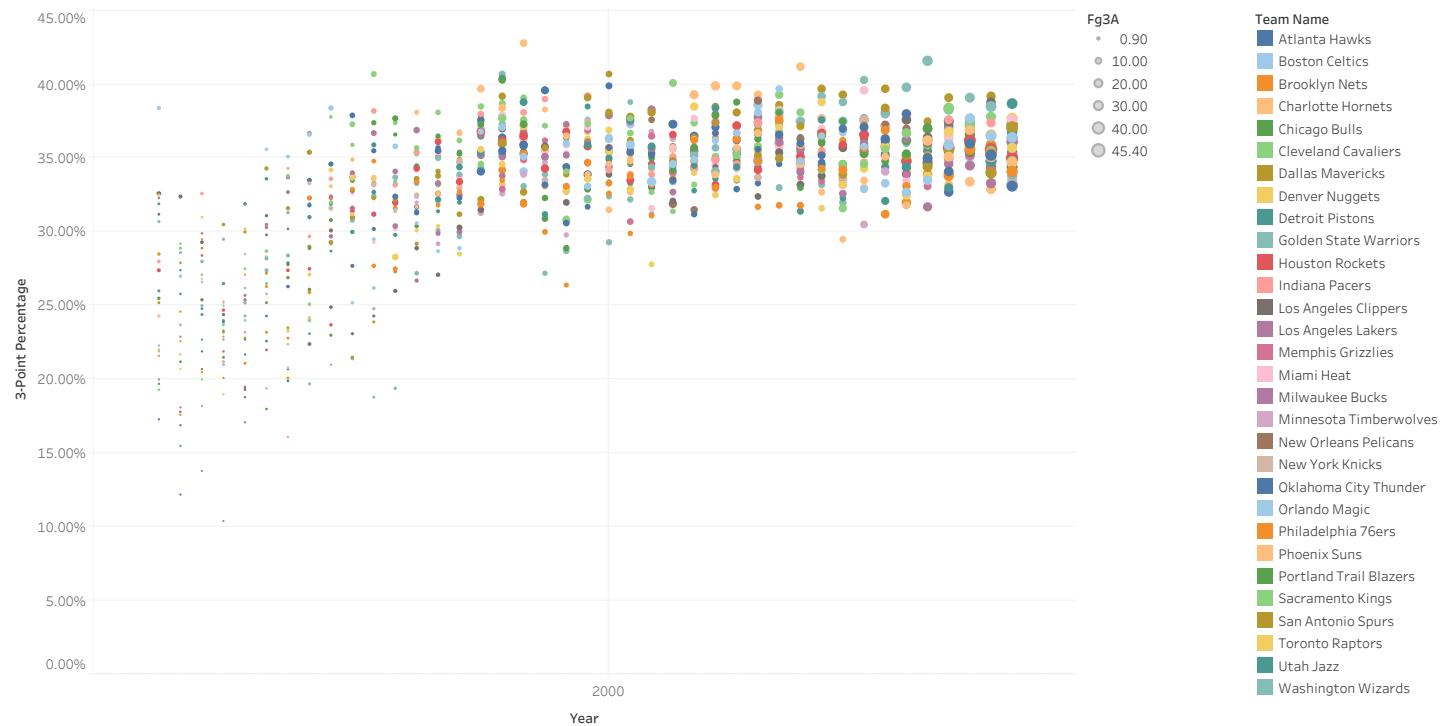
The view is broken down by Season and Team Name (Teams). Shape shows details about Team Name (Teams).  
The view is filtered on Season, which keeps 1950-51.

# Number of Championships



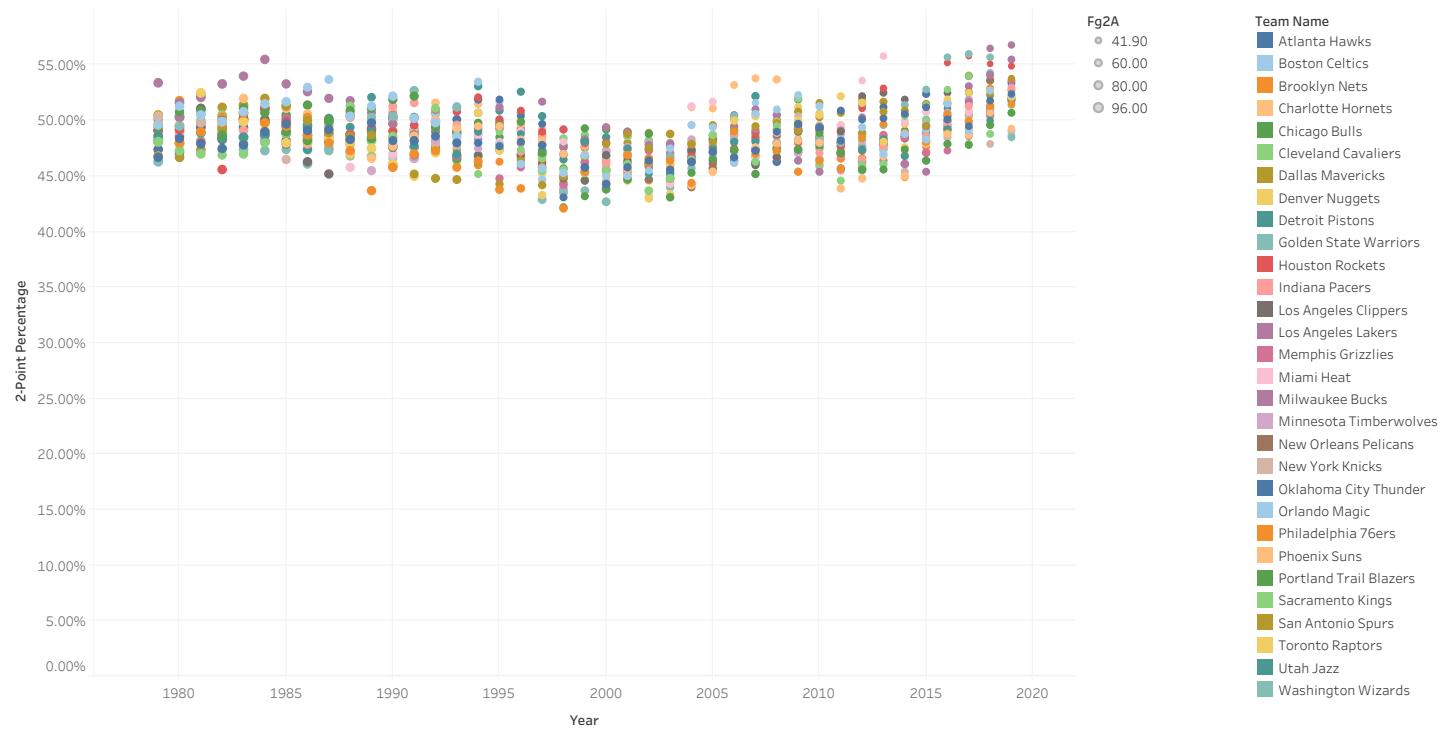
Count of Number of Records (champions) for each Team Name. Shape shows details about Team Name. The marks are labeled by count of Number of Records (champions). The data is filtered on Action (Team City, Team Country, Team Name, Team State), which keeps 30 members. The view is filtered on count of Number of Records (champions), which keeps non-Null values only.

### 3-Point Trend



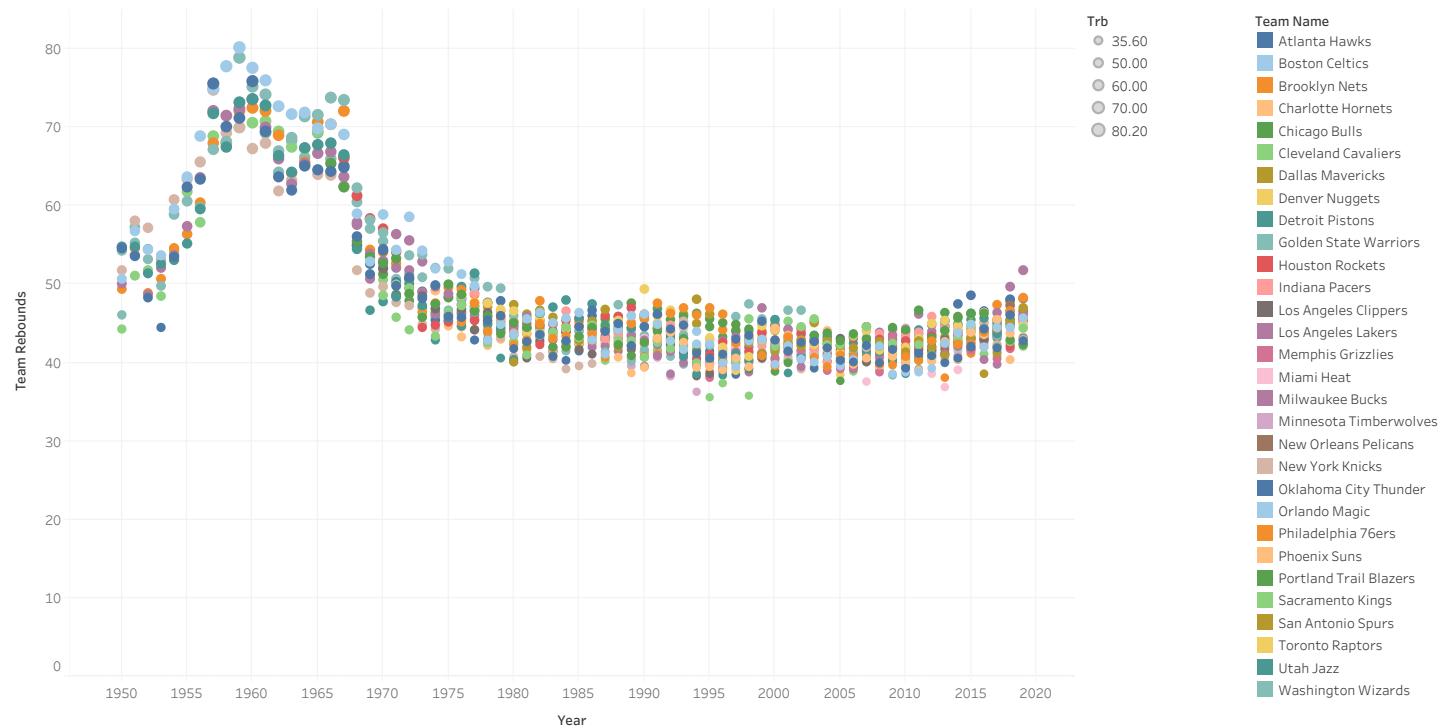
The plot of sum of Fg3 Pct for Season Start Year. Color shows details about Team Name (Teams). Size shows sum of Fg3A. The view is filtered on sum of Fg3 Pct, which keeps non-Null values only.

## 2-Point Trend



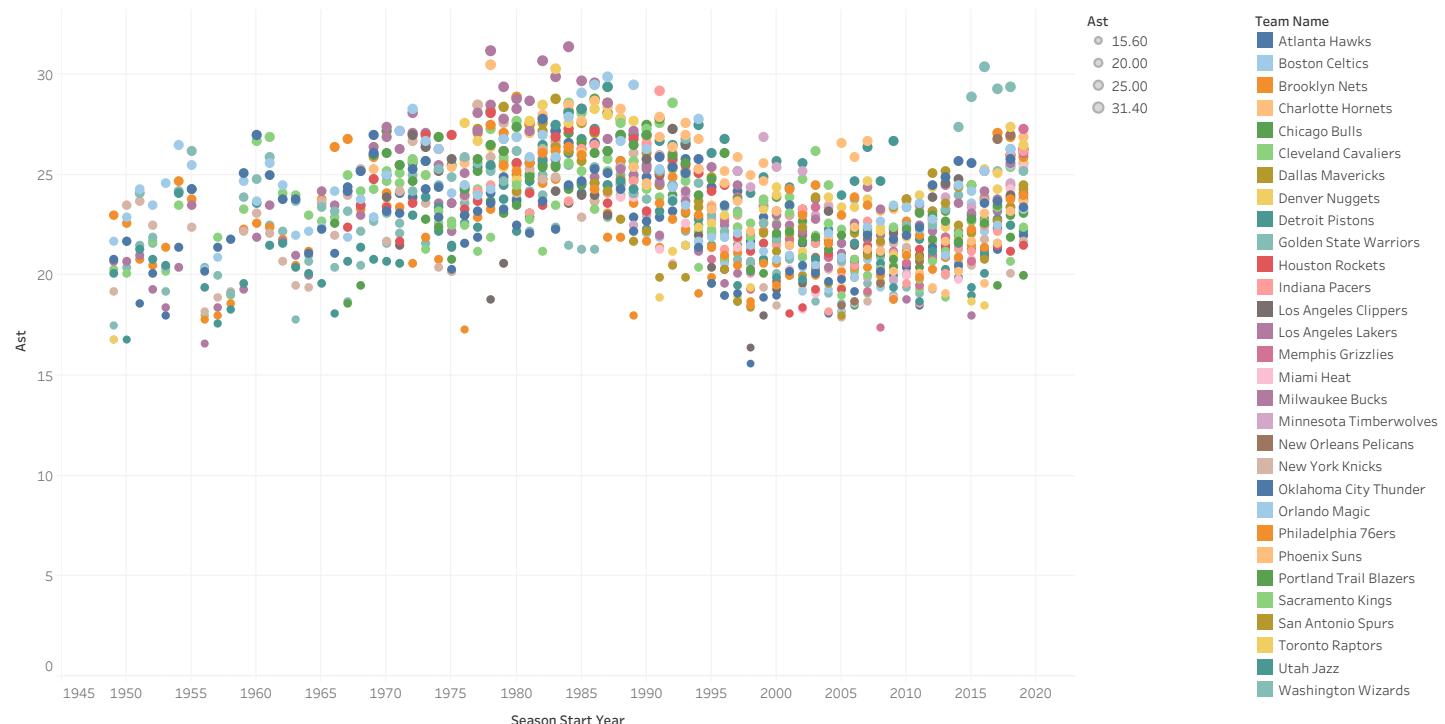
The plot of sum of Fg2 Pct for Season Start Year. Color shows details about Team Name (Teams). Size shows sum of Fg3A. The data is filtered on sum of Fg3 Pct, which keeps non-Null values only.

## Rebounds Trend



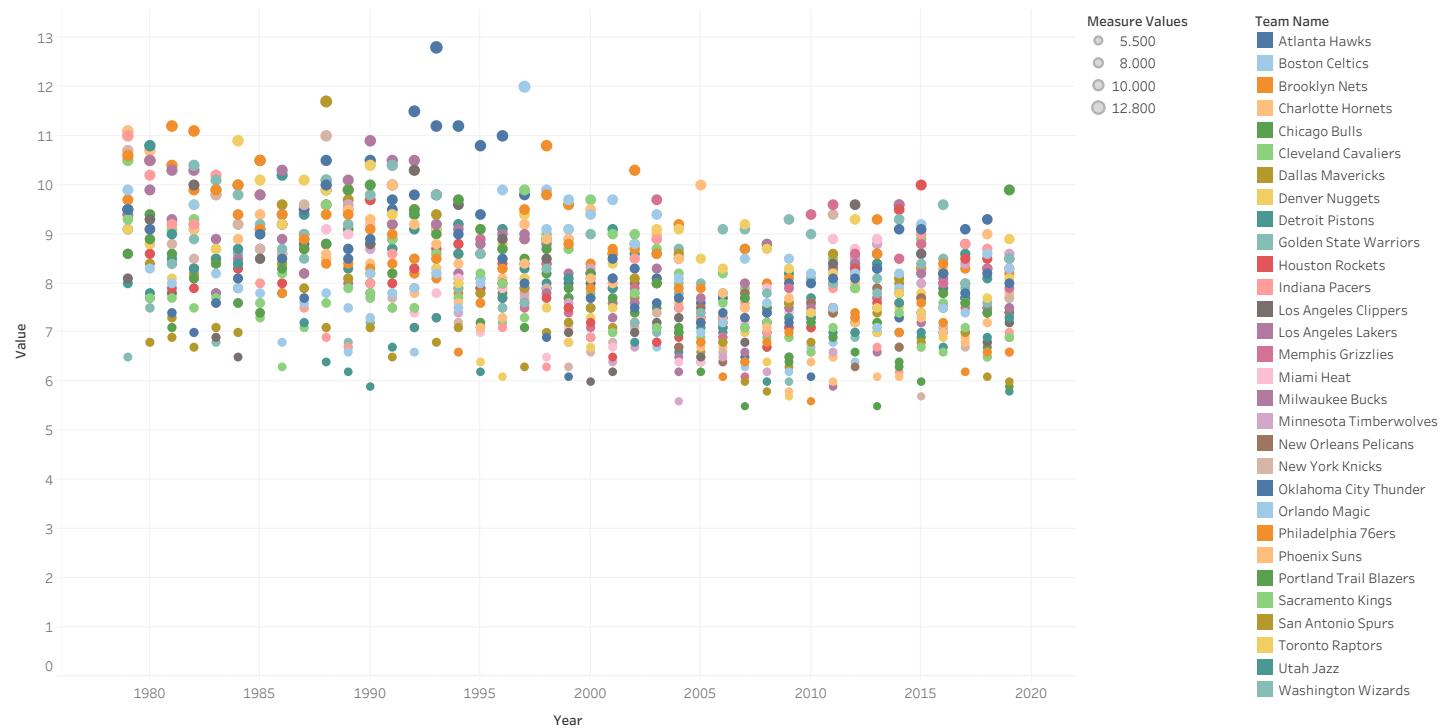
The plot of sum of Trb for Season Start Year. Color shows details about Team Name (Teams). Size shows sum of Trb. The view is filtered on sum of Trb, which keeps non-Null values only.

Ast



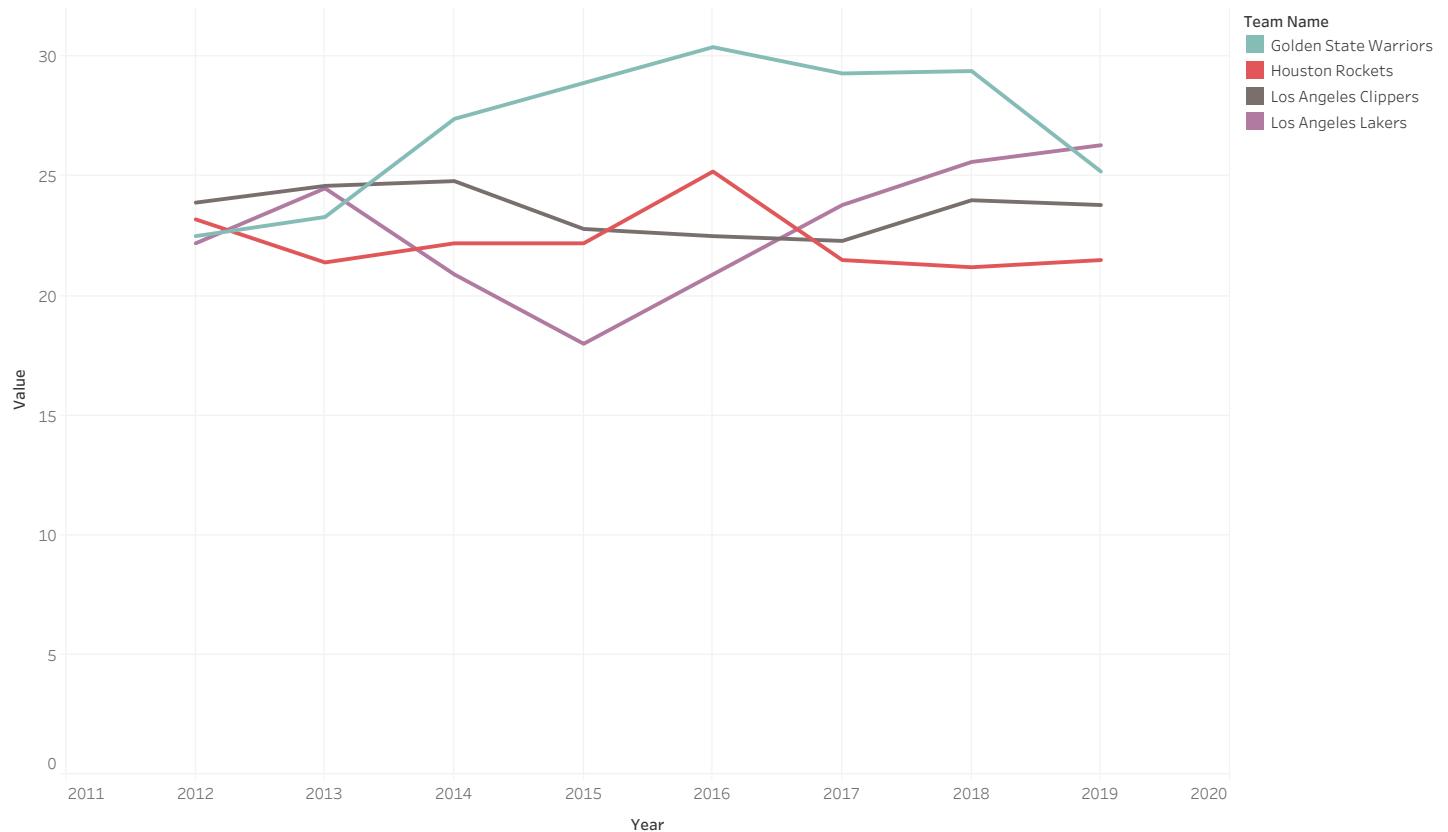
The plot of sum of Ast for Season Start Year. Color shows details about Team Name (Teams). Size shows sum of Ast. The view is filtered on sum of Ast, which keeps non-Null values only.

## Stl Trend



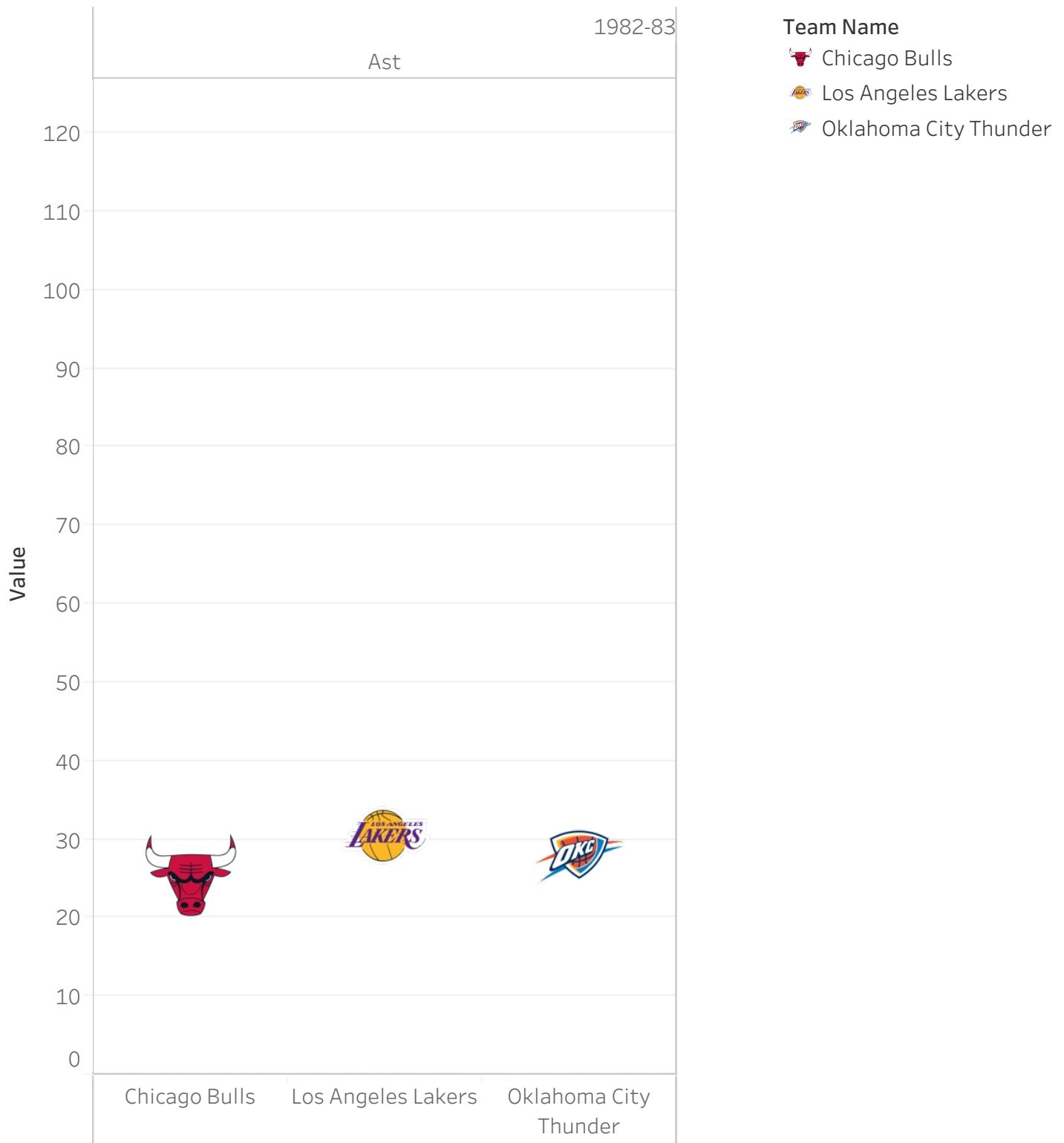
The plot of Stl for Season Start Year. Color shows details about Team Name (Teams). Size shows Stl. Details are shown for Stl. The data is filtered on sum of Number of Records, sum of Ast, sum of Blk, sum of Drb, sum of Fg2, sum of Fg2 Pct, sum of Fg2A, sum of Fg3, sum of Fg3 Pct, sum of Fg3A, sum of Fg, sum of Fg Pct, sum of Fga, sum of Ft, sum of Ft Pct, sum of Fta, sum of G, sum of Mp, sum of Orb and sum of Pf. The sum of Number of Records filter keeps non-Null values only. The sum of Ast filter keeps non-Null values only. The sum of Blk filter keeps non-Null values only. The sum of Drb filter keeps non-Null values only. The sum of Fg2 filter keeps non-Null values only. The sum of Fg2 Pct filter keeps non-Null values only. The sum of Fg2A filter keeps non-Null values only. The sum of Fg3 filter keeps non-Null values only. The sum of Fg3 Pct filter keeps non-Null values only. The sum of Fg3A filter keeps non-Null values only. The sum of Fg filter keeps non-Null values only. The sum of Fg Pct filter keeps non-Null values only. The sum of Fga filter keeps non-Null values only. The sum of Ft filter keeps non-Null values only. The sum of Ft Pct filter keeps non-Null values only. The sum of G filter keeps non-Null values only. The sum of Mp filter keeps non-Null values only. The sum of Orb filter keeps non-Null values only. The sum of Pf filter keeps non-Null values only.

Golden State Warriors, Houston Rockets, Los Angeles Clippers and 1 more's Ast Trend from 2012 to 2019



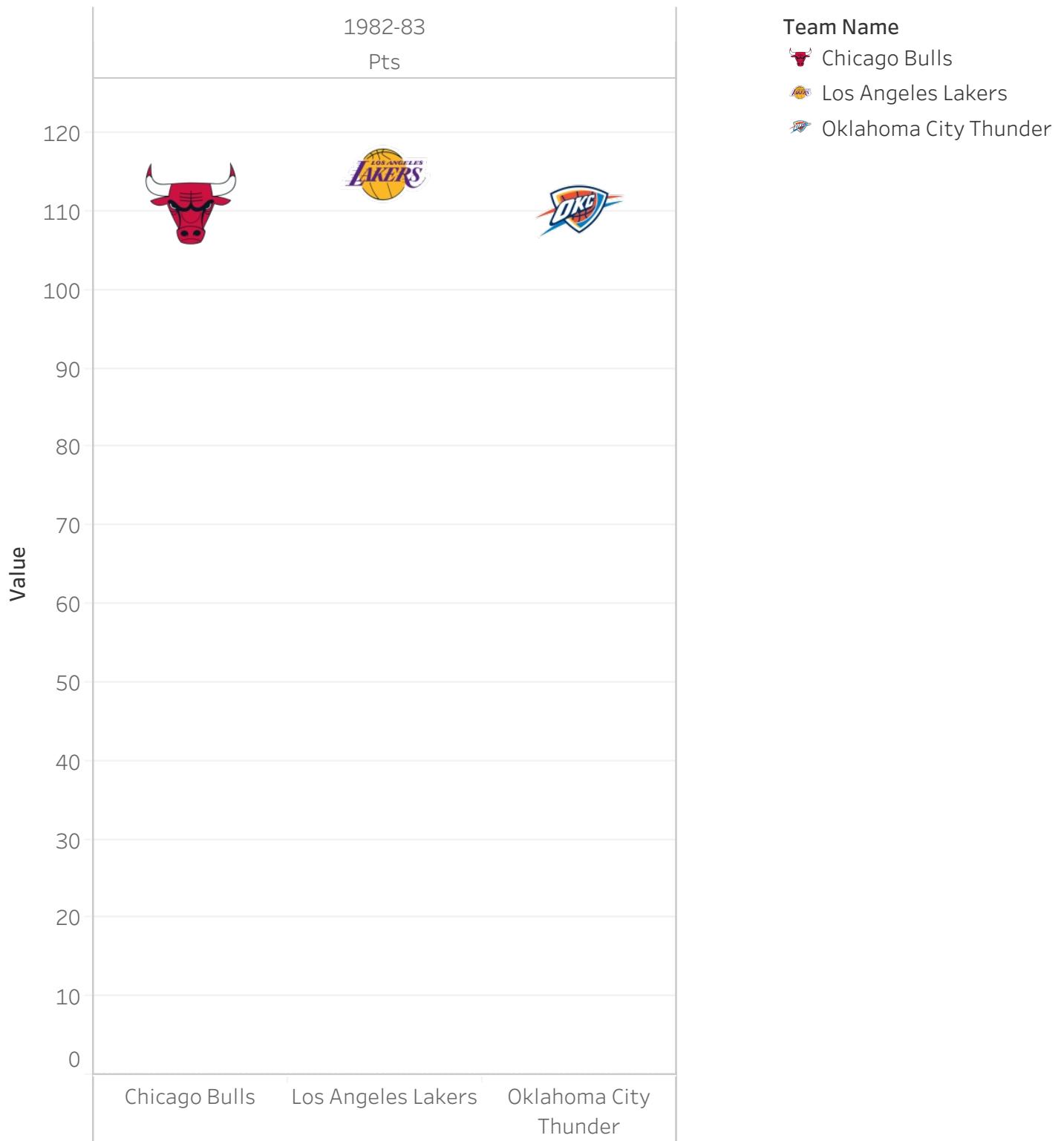
The trend of Ast for Season Start Year. Color shows details about Team Name (Teams). Details are shown for Ast. The view is filtered on Team Name (Teams) and Season Start Year. The Team Name (Teams) filter keeps Golden State Warriors, Houston Rockets, Los Angeles Clippers and Los Angeles Lakers. The Season Start Year filter ranges from 2012 to 2019.

# Chicago Bulls, Los Angeles Lakers, Oklahoma City Thunder Comparison in 1982-83



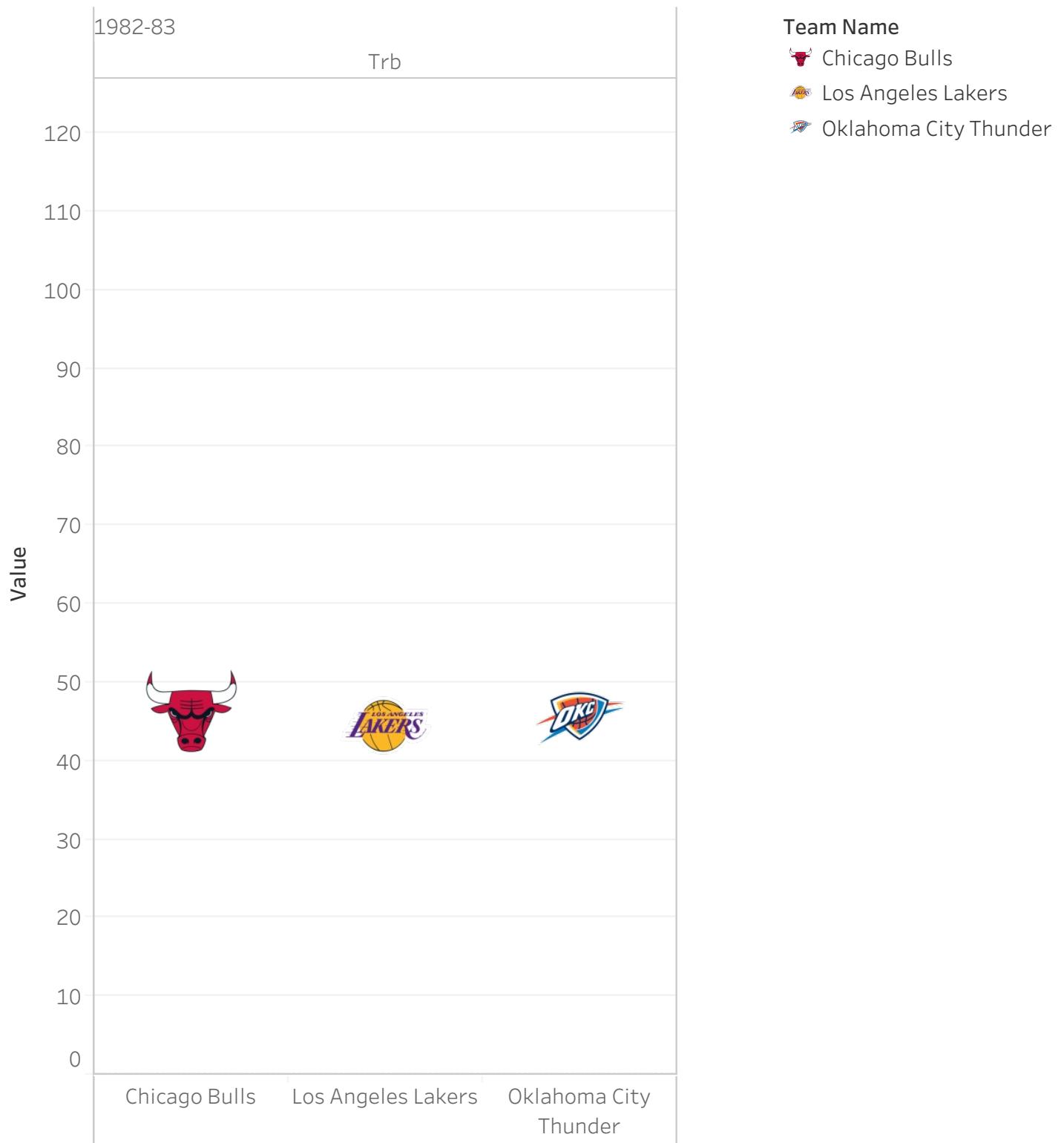
Ast, Pts and Trb for each Team Name (Teams) broken down by Season. Shape shows details about Team Name (Teams). The view is filtered on Team Name (Teams) and Season. The Team Name (Teams) filter keeps Chicago Bulls, Los Angeles Lakers, Minnesota Timberwolves and Oklahoma City Thunder. The Season filter keeps 1982-83.

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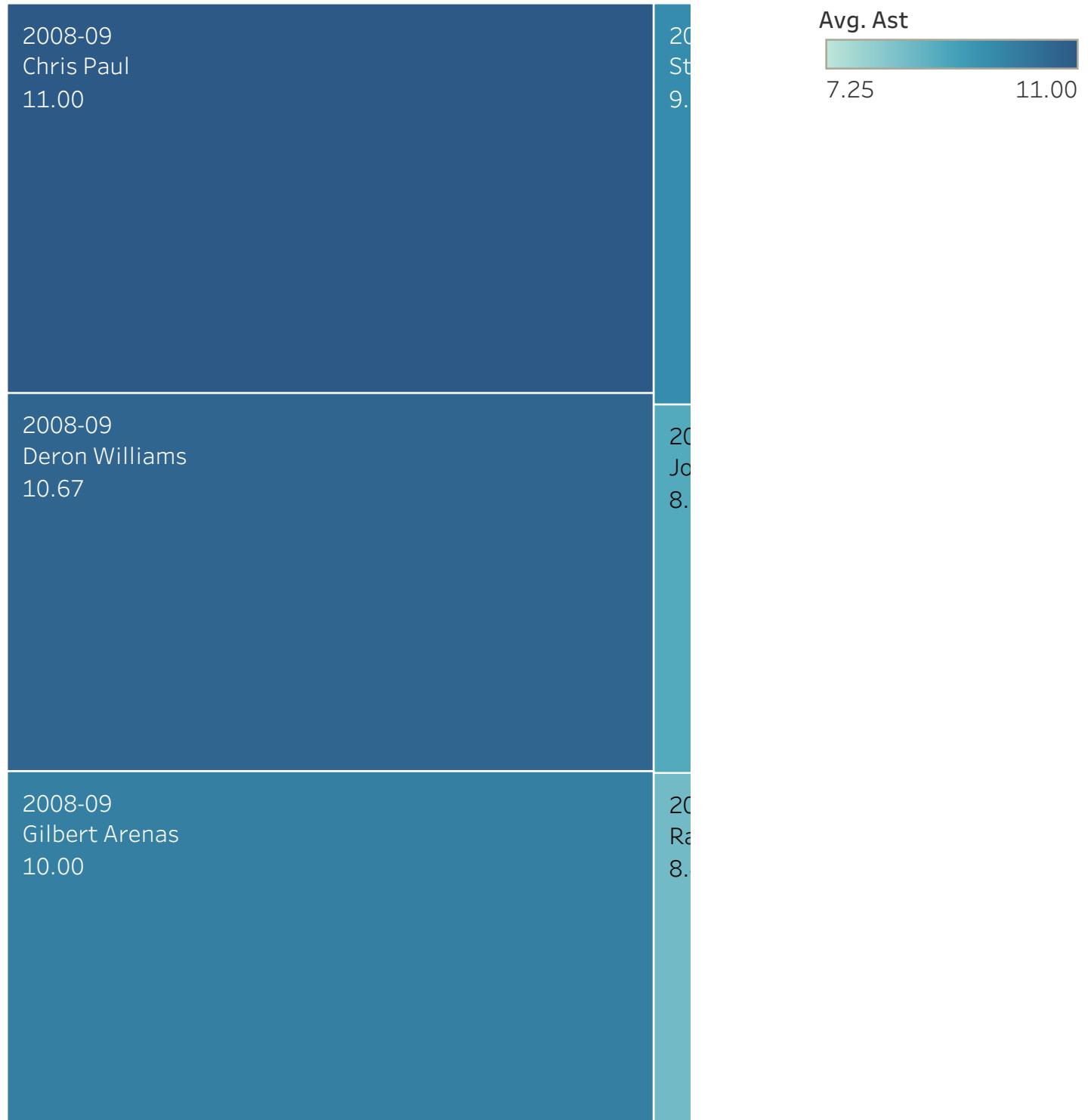
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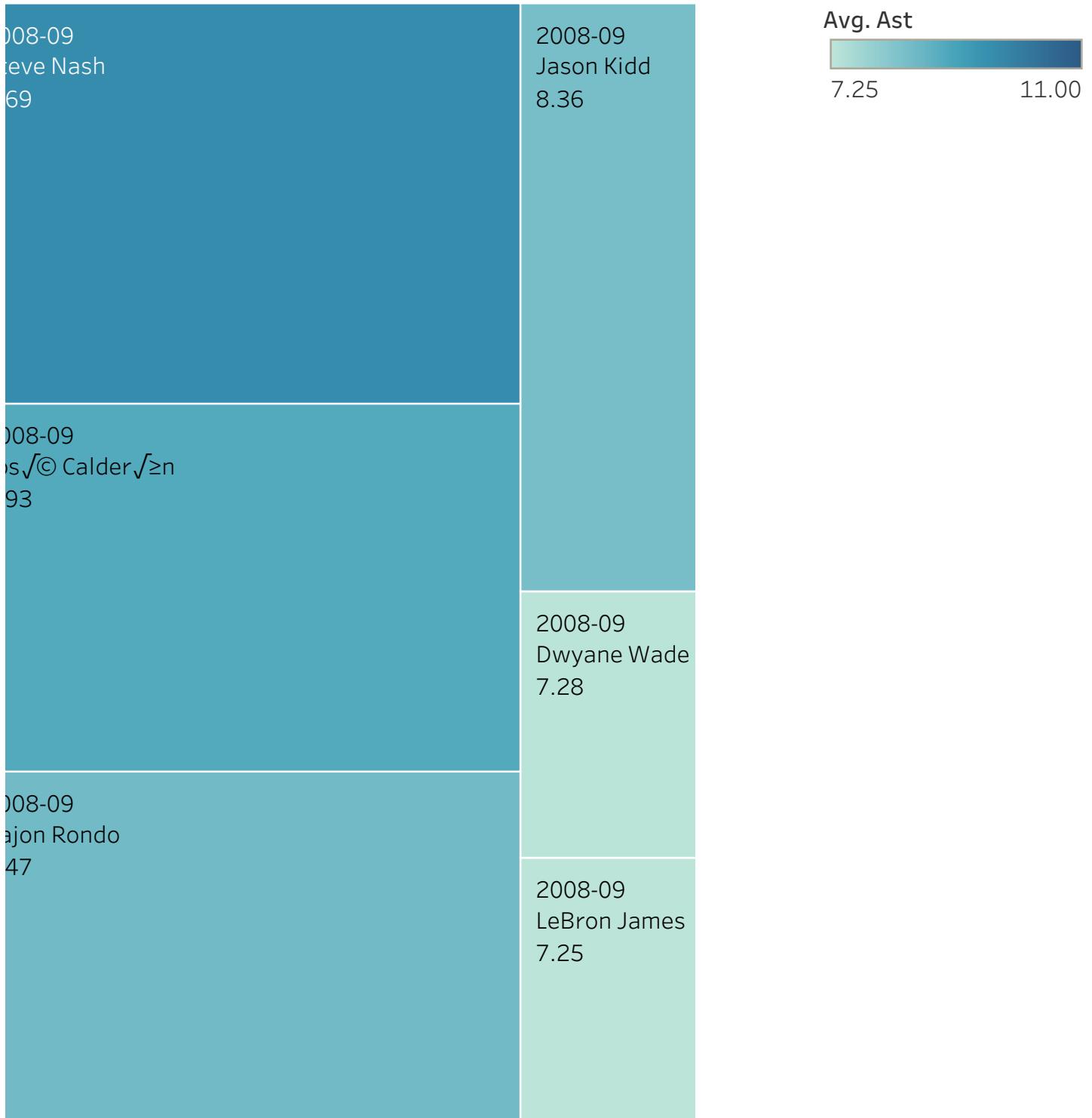
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## 2008-09 Top 10 Players in Assists per Game



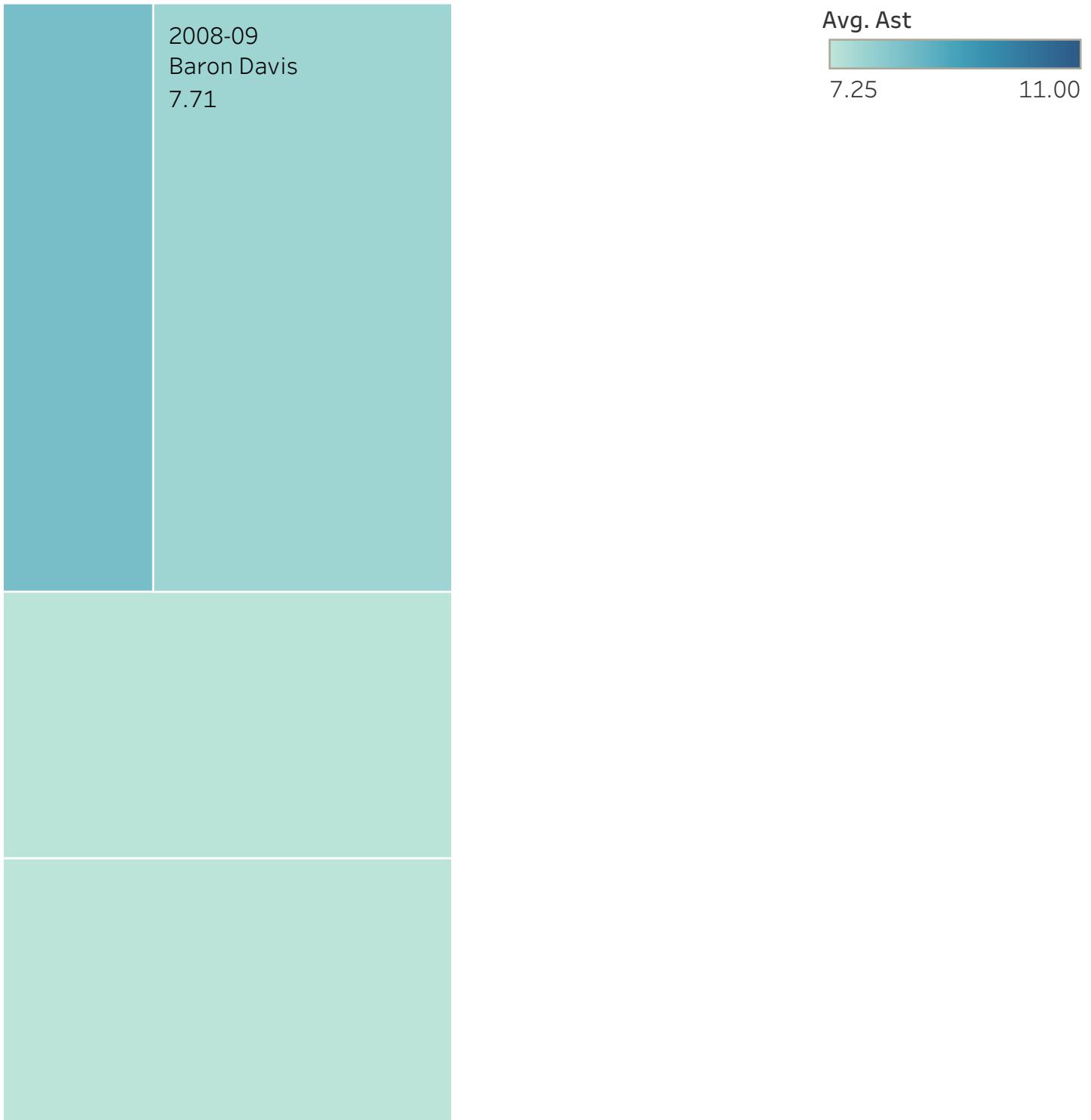
Season, Name (players) and average of Ast. Color shows average of Ast.  
Size shows average of Ast. The marks are labeled by Season, Name  
(players) and average of Ast. The context is filtered on Season, which  
keeps 2008-09. The data is filtered on Player Id, which keeps 10 of 4,252  
members.

## 2008-09 Top 10 Players in Assists per Game



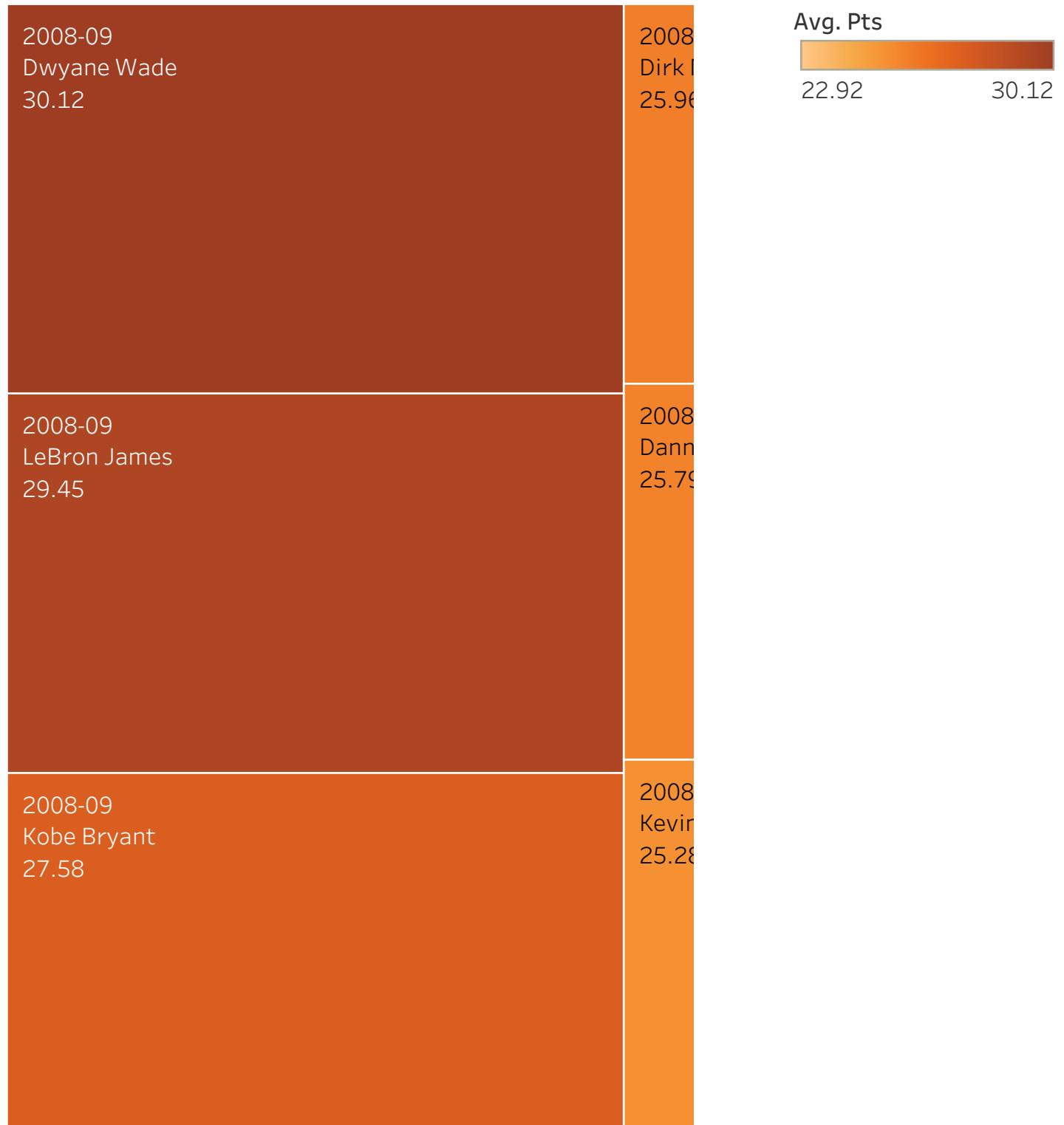
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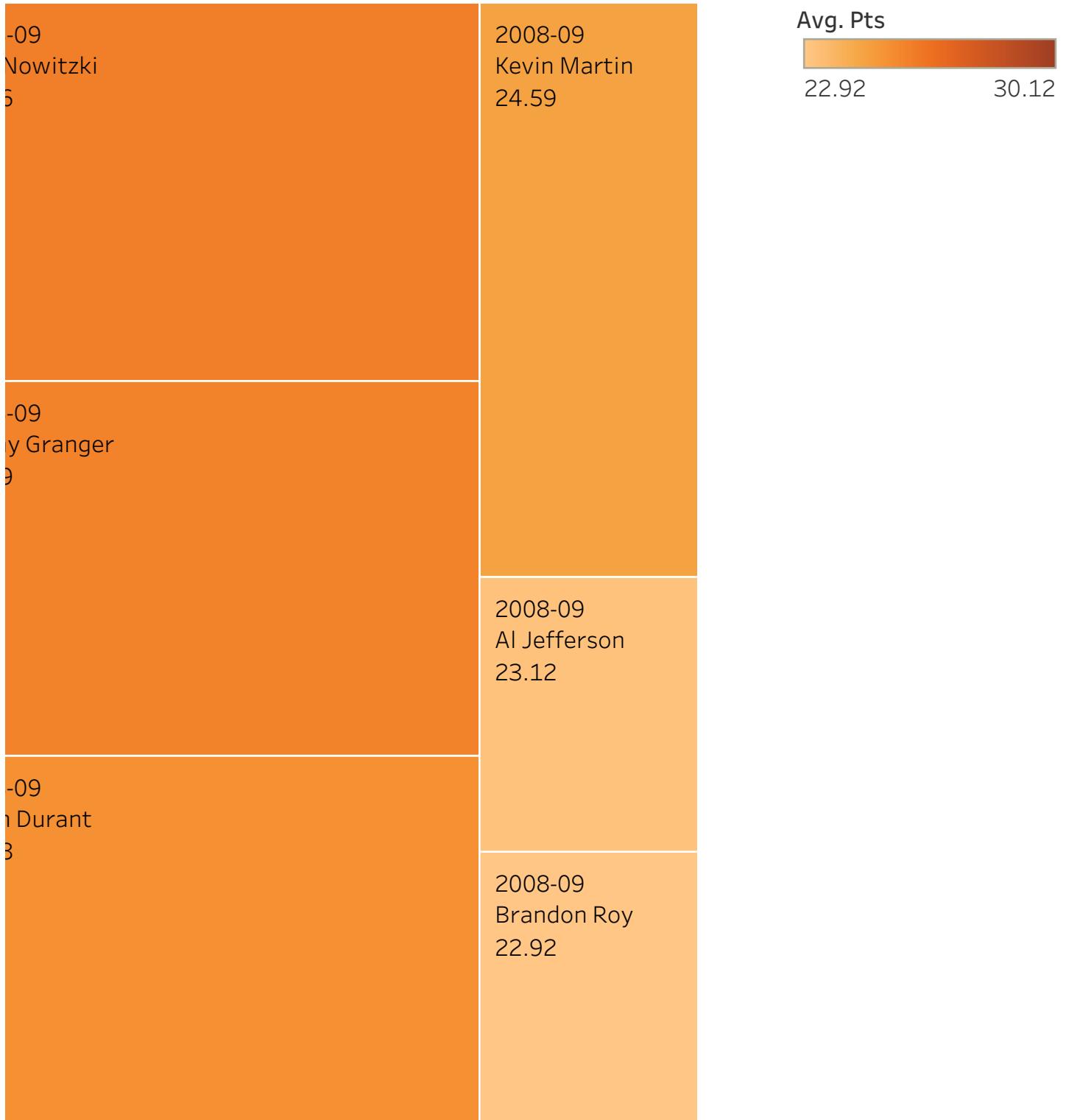
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## 2008-09 Top 10 Players in Score per Game



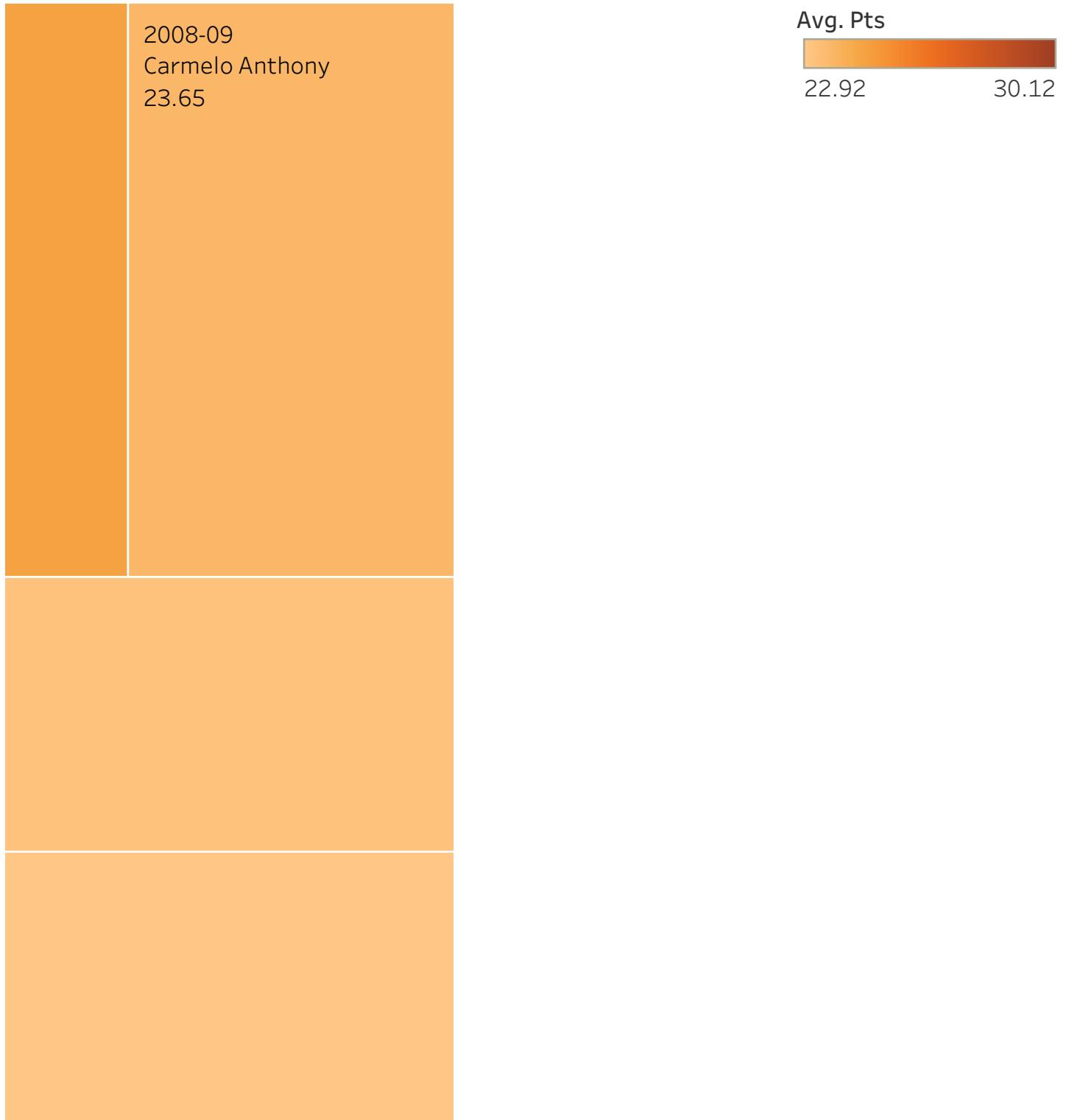
Season, Name (players) and average of Pts. Color shows average of Pts. Size shows average of Pts. The marks are labeled by Season, Name (players) and average of Pts. The context is filtered on Season, which keeps 2008-09. The data is filtered on Player Id, which keeps 10 of 4,252 members.

# 2008-09 Top 10 Players in Score per Game



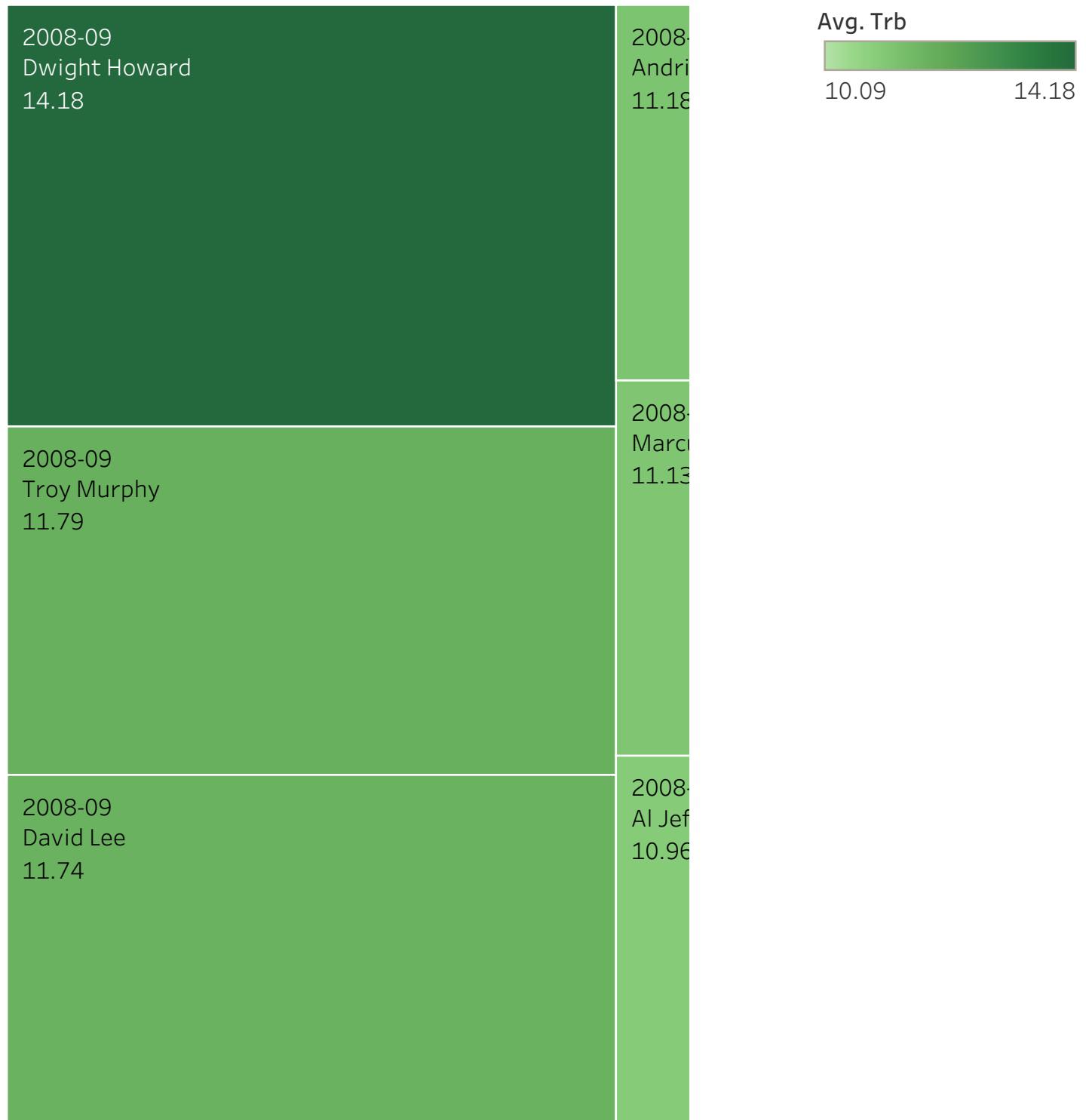
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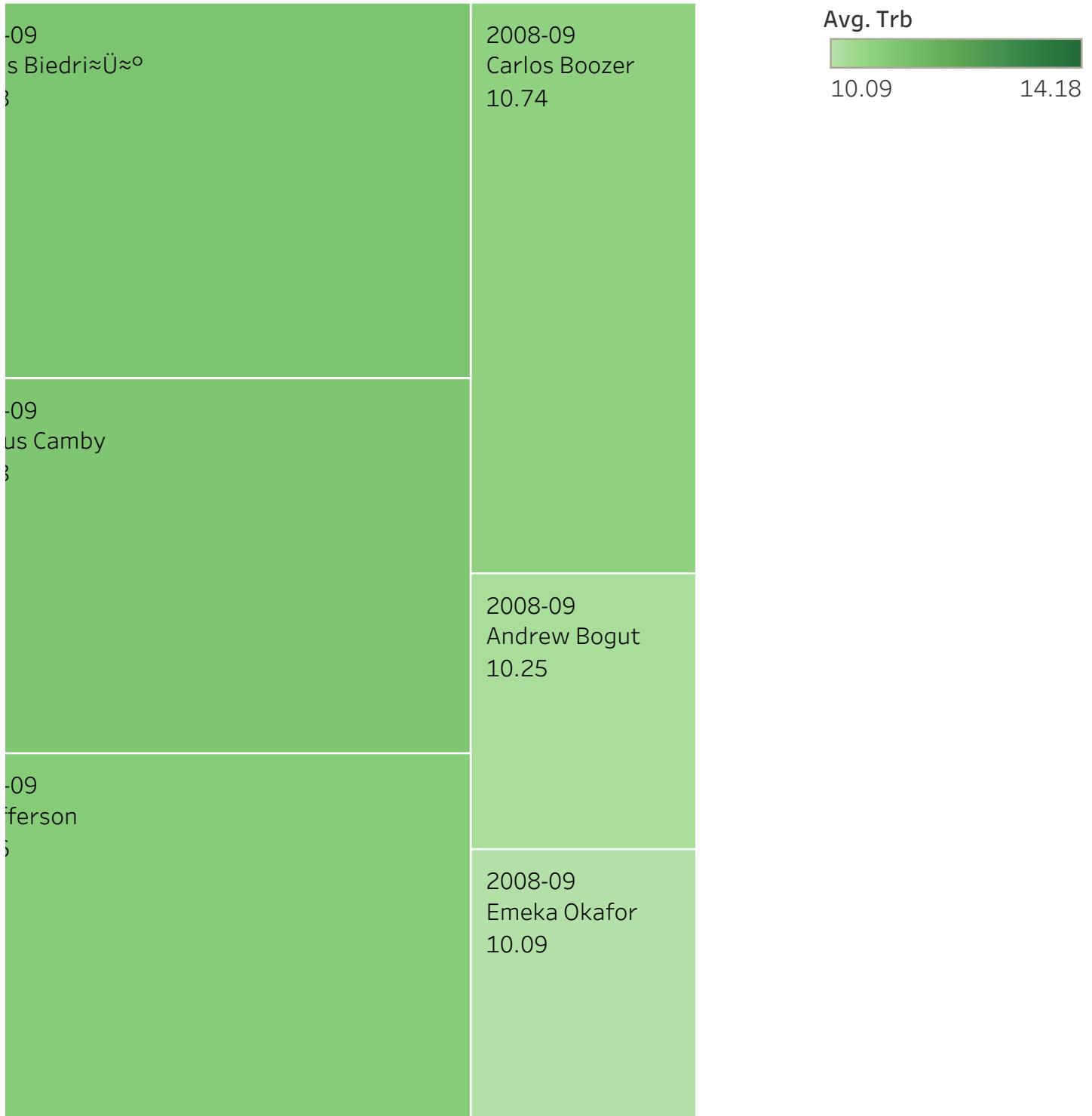
Season, Name (players) and average of Pts. Color shows average of Pts. Size shows average of Pts. The marks are labeled by Season, Name (players) and average of Pts. The context is filtered on Season, which keeps 2008-09. The data is filtered on Player Id, which keeps 10 of 4,252 members.

# 2008-09 Top 10 Players in Rebounds per Game



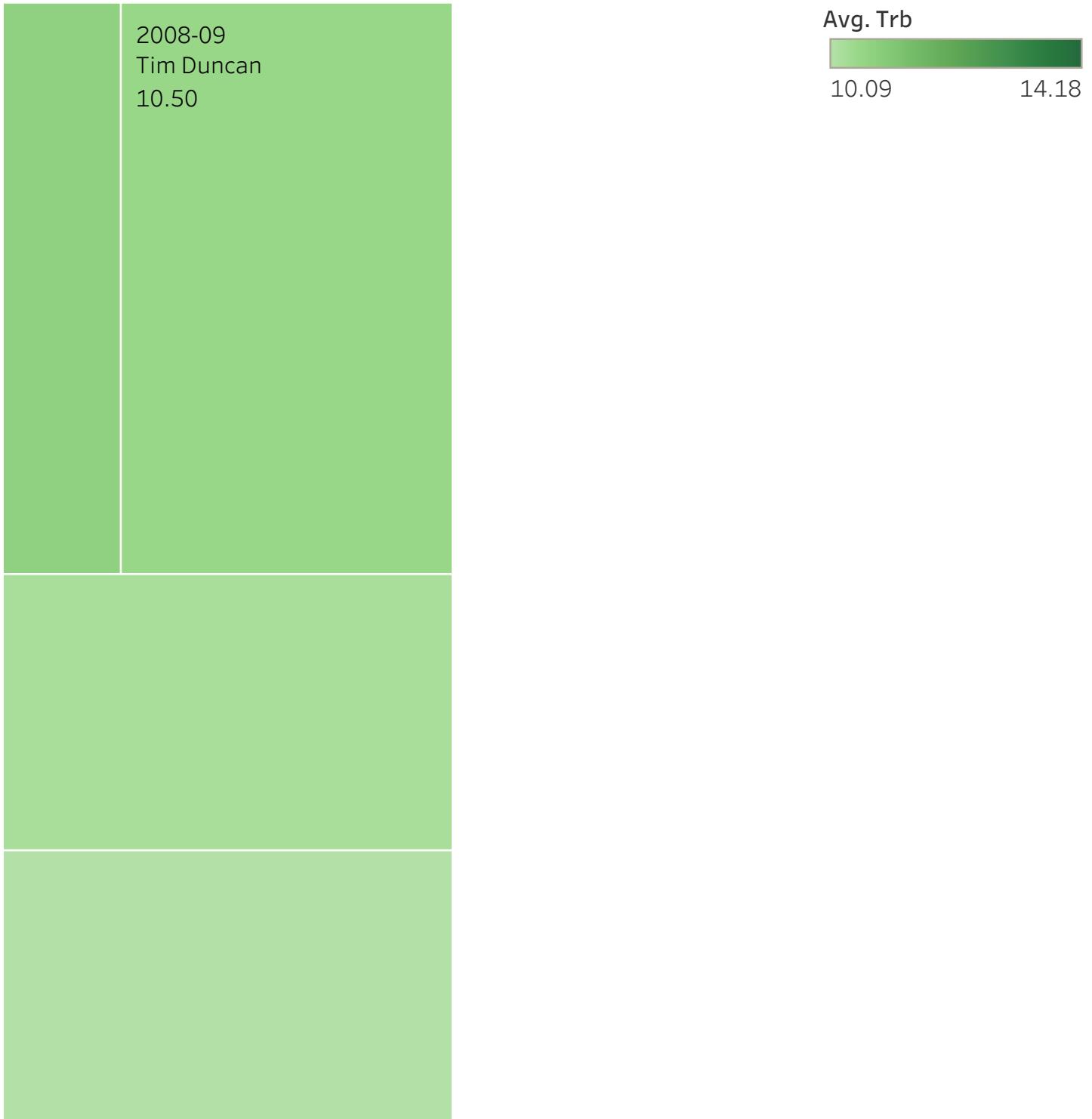
Season, Name (players) and average of Trb. Color shows average of Trb.  
Size shows average of Trb. The marks are labeled by Season, Name  
(players) and average of Trb. The context is filtered on Season, which  
keeps 2008-09. The data is filtered on Player Id, which keeps 10 of 4,252  
members.

# 2008-09 Top 10 Players in Rebounds per Game



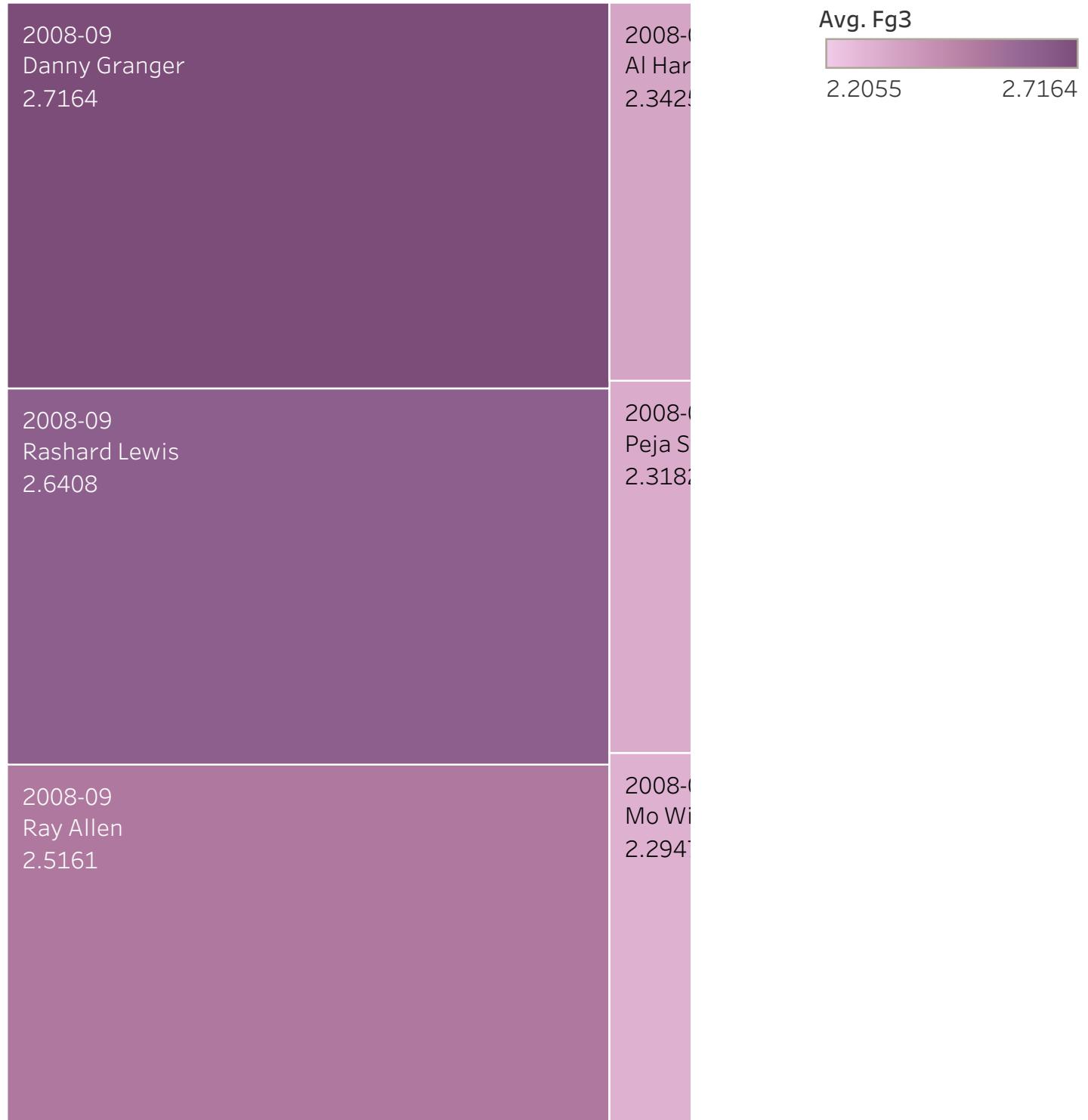
Season, Name (players) and average of Trb. Color shows average of Trb.  
Size shows average of Trb. The marks are labeled by Season, Name  
(players) and average of Trb. The context is filtered on Season, which  
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## 2008-09 Top 10 Players in Rebounds per Game



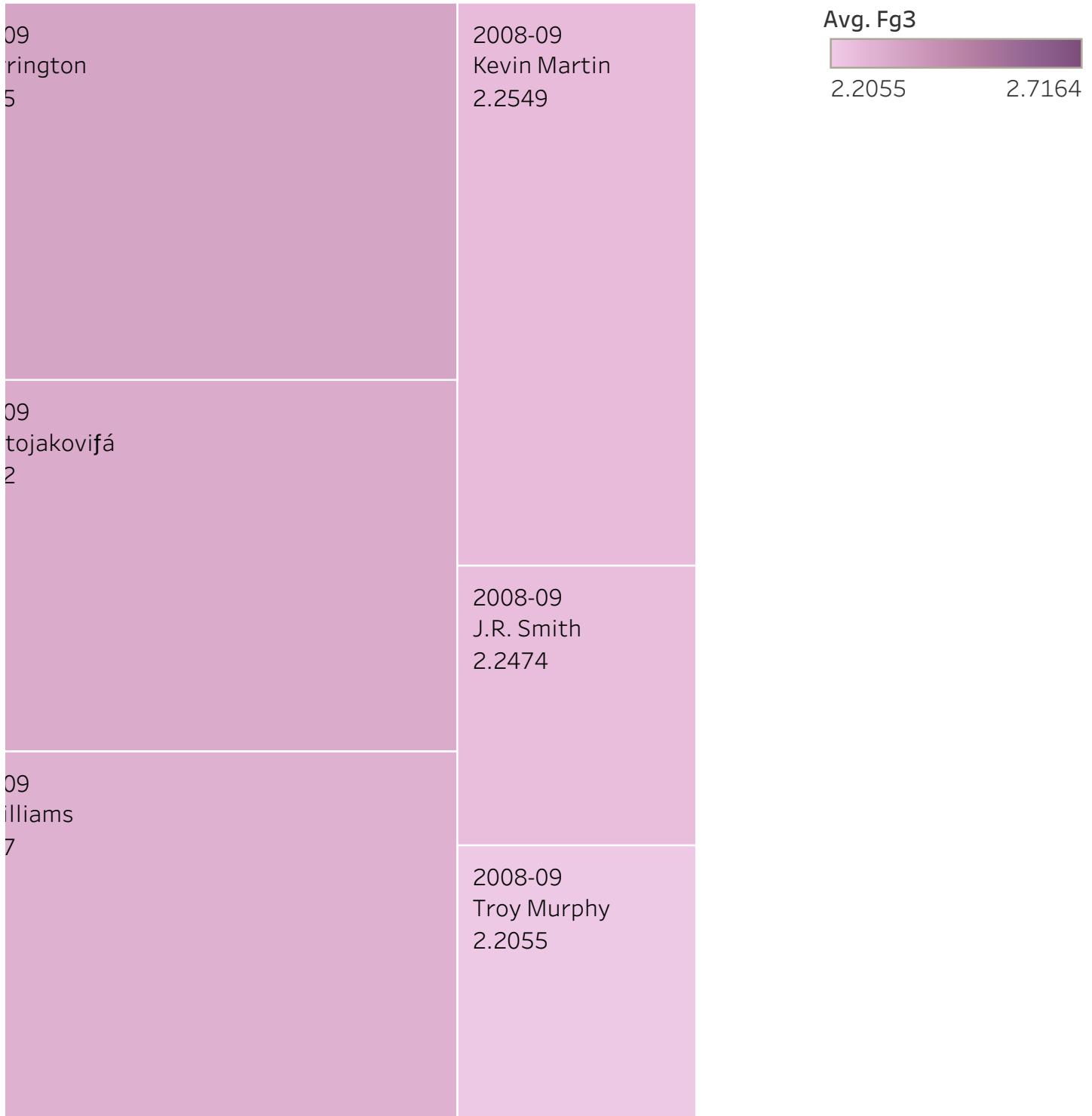
Season, Name (players) and average of Trb. Color shows average of Trb. Size shows average of Trb. The marks are labeled by Season, Name (players) and average of Trb. The context is filtered on Season, which keeps 2008-09. The data is filtered on Player Id, which keeps 10 of 4,252 members.

## 2008-09 Top 10 Players in 3-Point Made per Game



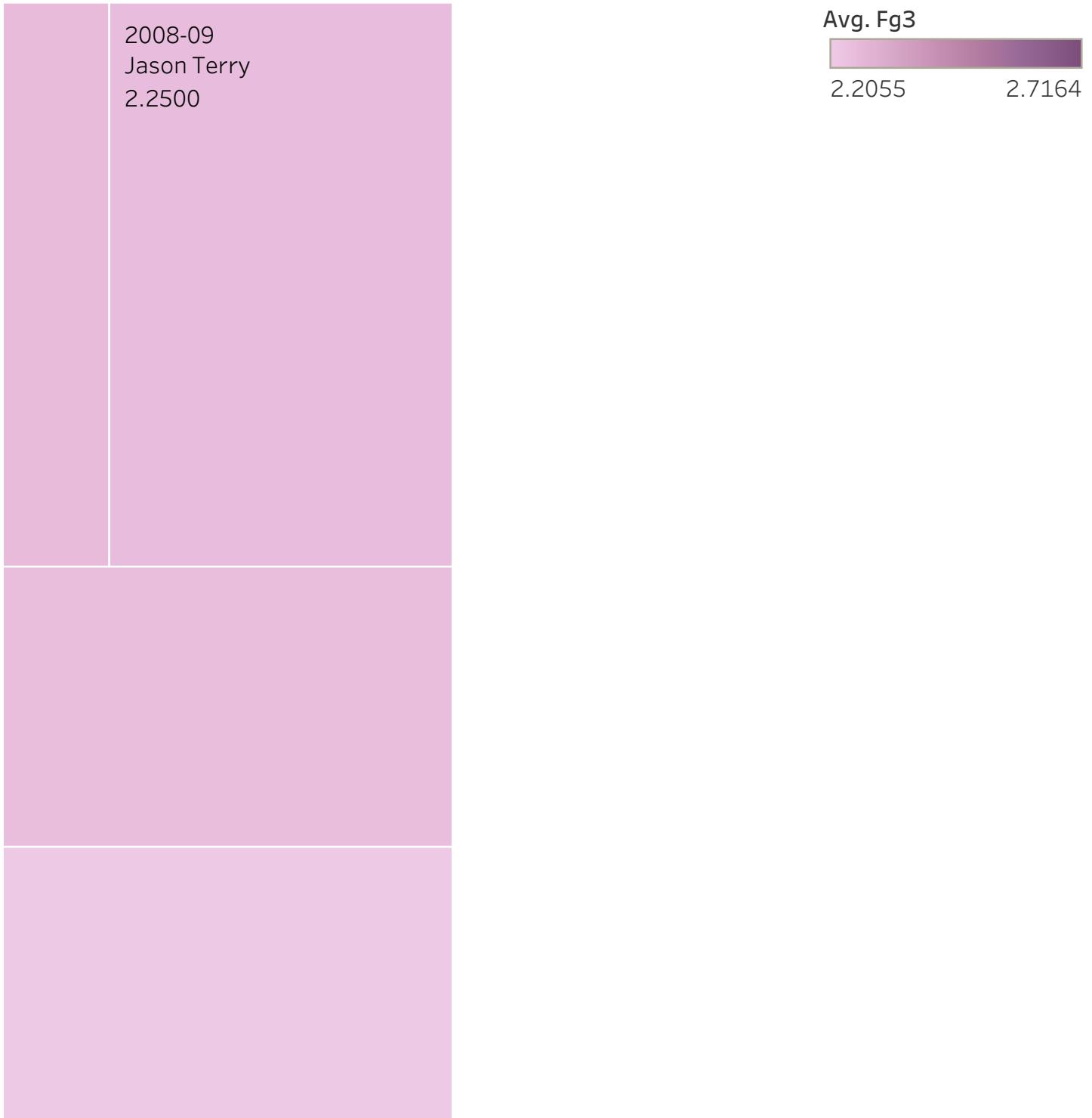
Season, Name (players) and average of Fg3. Color shows average of Fg3.  
Size shows average of Fg3. The marks are labeled by Season, Name  
(players) and average of Fg3. The context is filtered on Season, which  
keeps 2008-09. The data is filtered on Player Id, which keeps 10 of 4,252  
members.

# 2008-09 Top 10 Players in 3-Point Made per Game



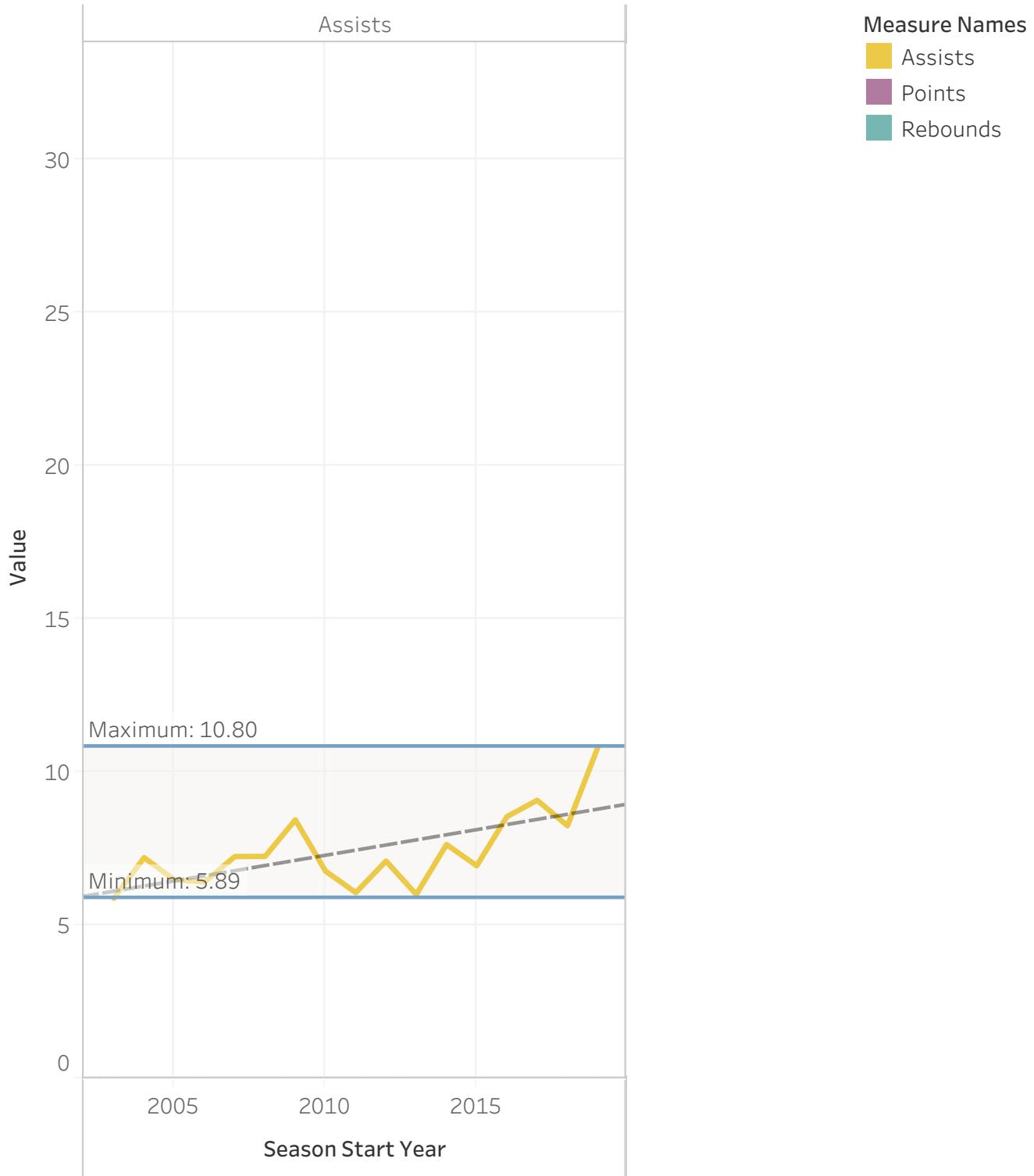
Season, Name (players) and average of Fg3. Color shows average of Fg3.  
Size shows average of Fg3. The marks are labeled by Season, Name  
(players) and average of Fg3. The context is filtered on Season, which  
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## 2008-09 Top 10 Players in 3-Point Made per Game



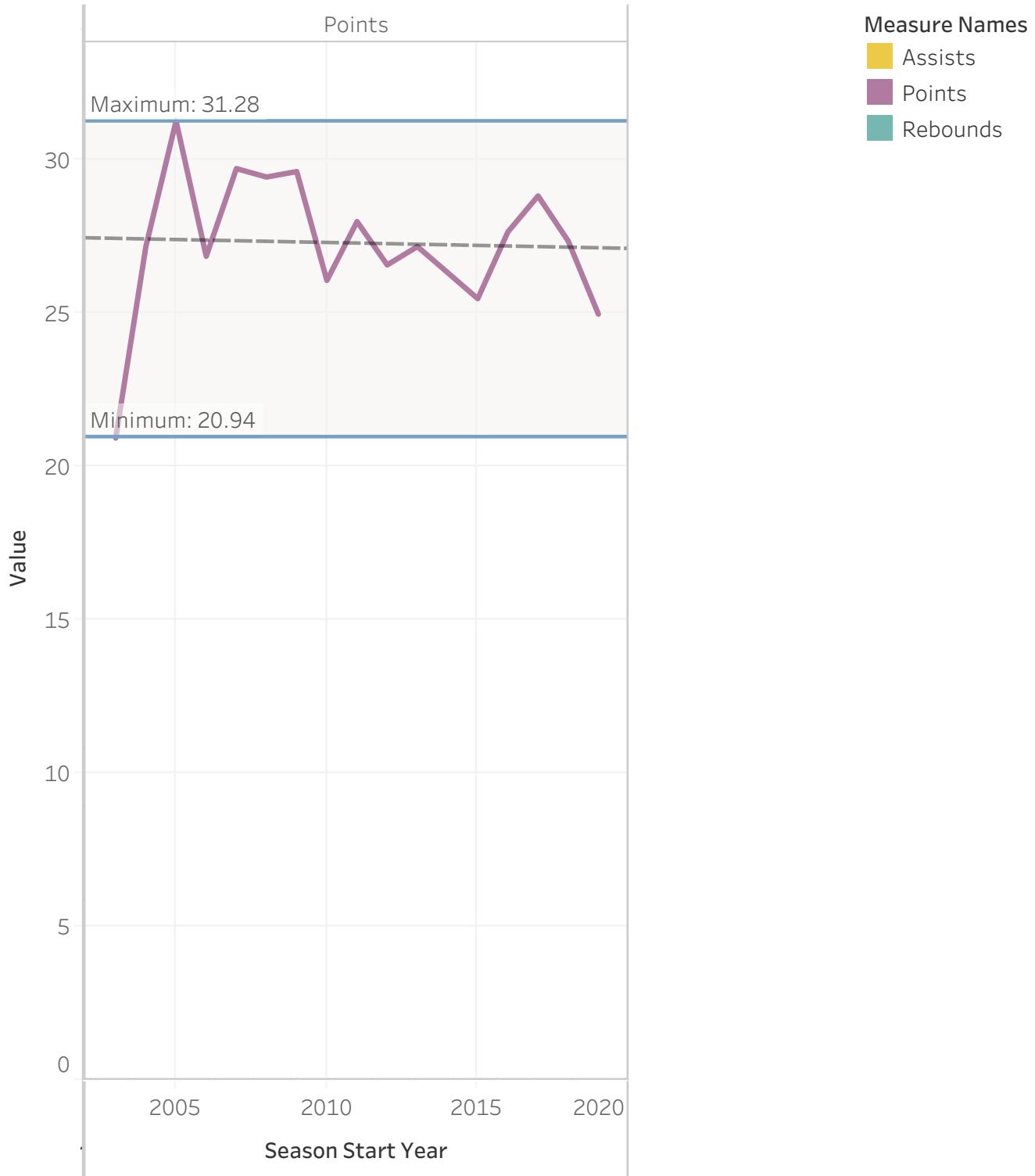
Season, Name (players) and average of Fg3. Color shows average of Fg3.  
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(players) and average of Fg3. The context is filtered on Season, which  
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members.

# LeBron James's Career Points, Assists and Rebounds



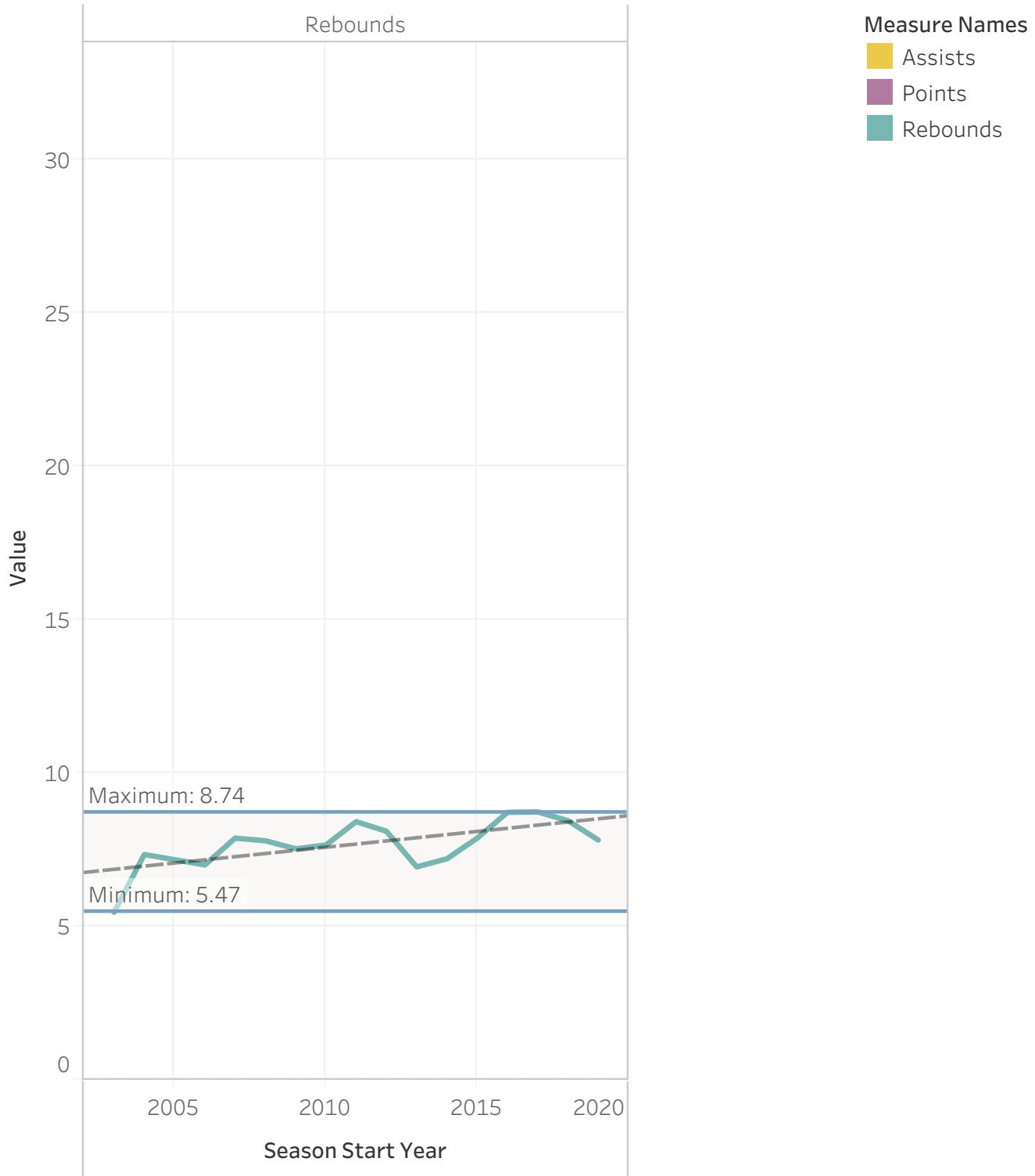
The trends of Assists, Points and Rebounds for Season Start Year (team\_per\_game\_stats). Color shows details about Assists, Points and Rebounds. The data is filtered on Name (players), which keeps LeBron James. The view is filtered on average of Ast, average of Pts and average of Trb. The average of Ast filter keeps non-Null values only. The average of Pts filter keeps non-Null values only. The average of Trb filter keeps non-Null values only.

# LeBron James's Career Points, Assists and Rebounds



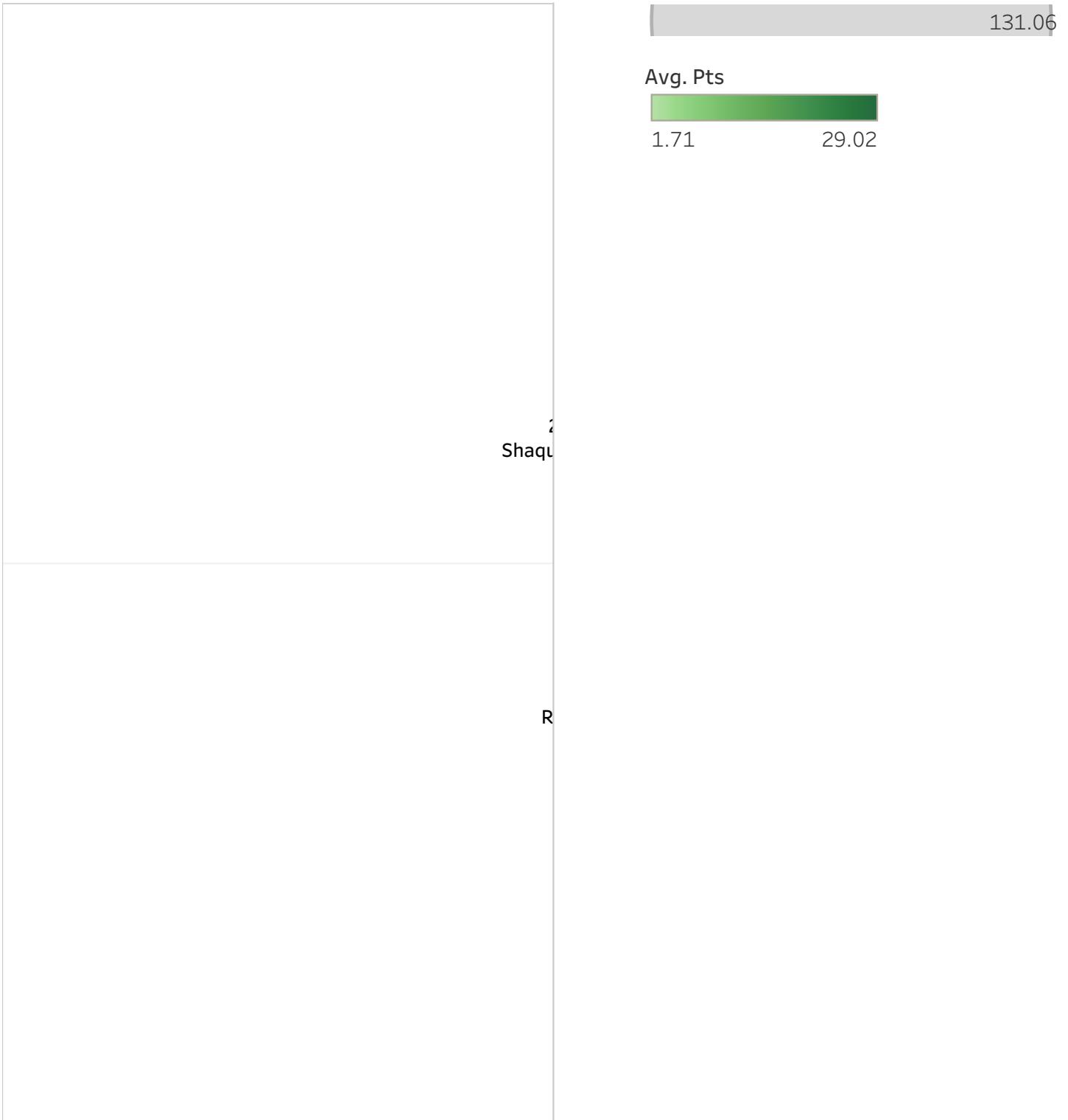
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# LeBron James's Career Points, Assists and Rebounds



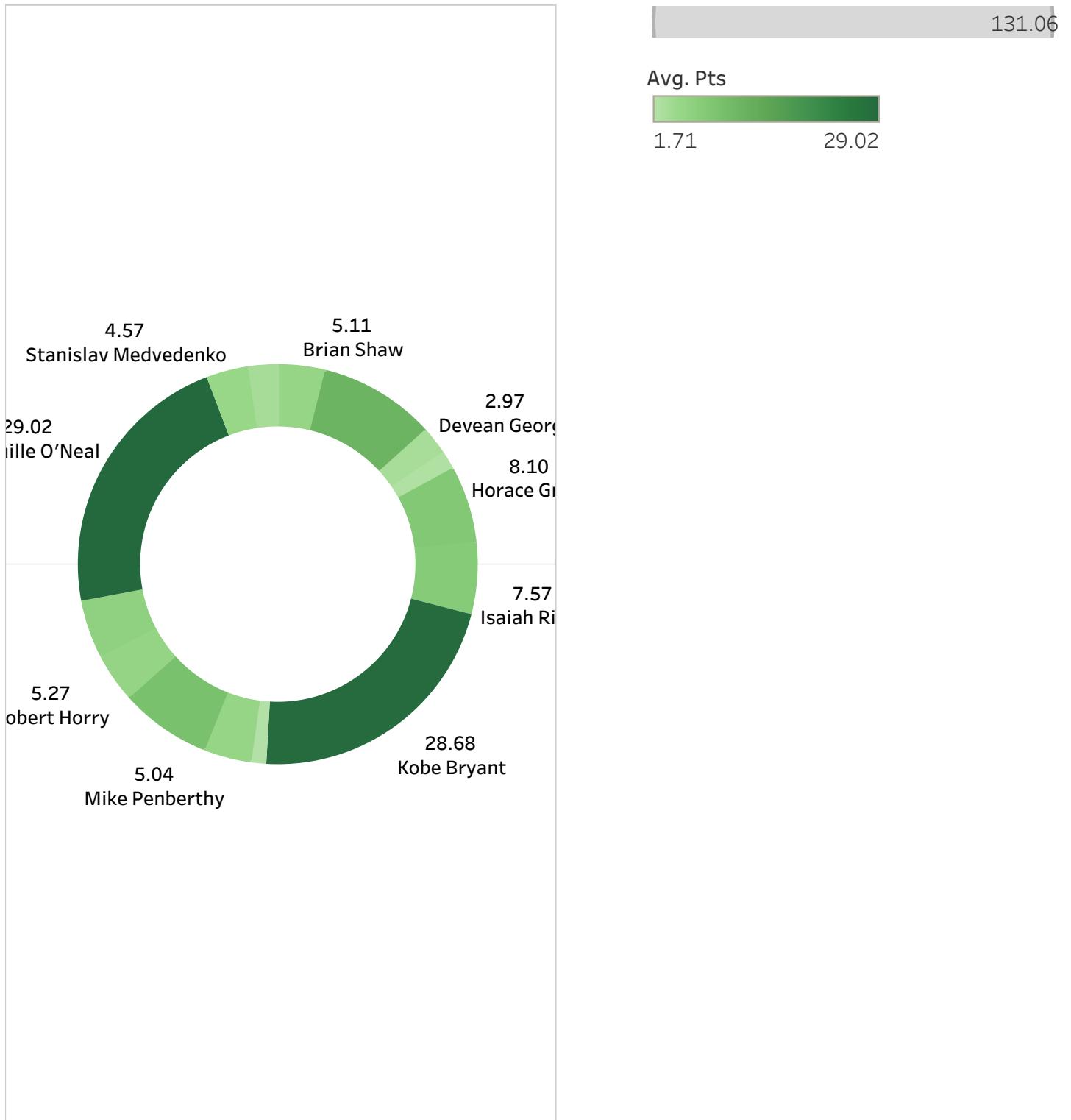
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# Player's Points in Los Angeles Lakers



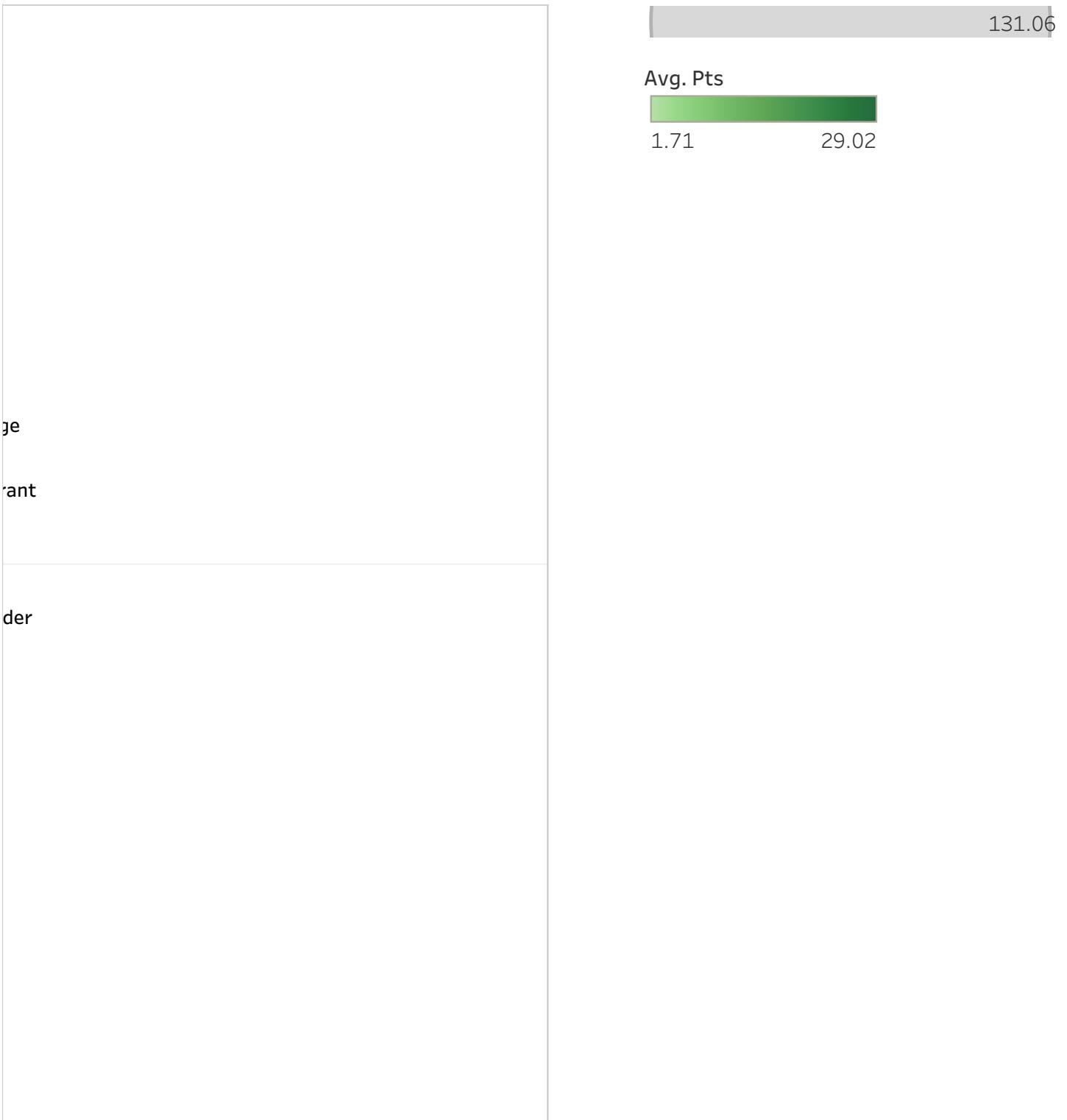
Number of Records (players) as an attribute and Number of Records (players) as an attribute. For pane Number of Records (players) as an attribute: Color shows average of Pts. Size shows average of Pts. The marks are labeled by Name (players) and average of Pts. The data is filtered on Season and Team Name (Teams). The Season filter keeps 2000-01. The Team Name (Teams) filter keeps Los Angeles Lakers.

# Player's Points in Los Angeles Lakers



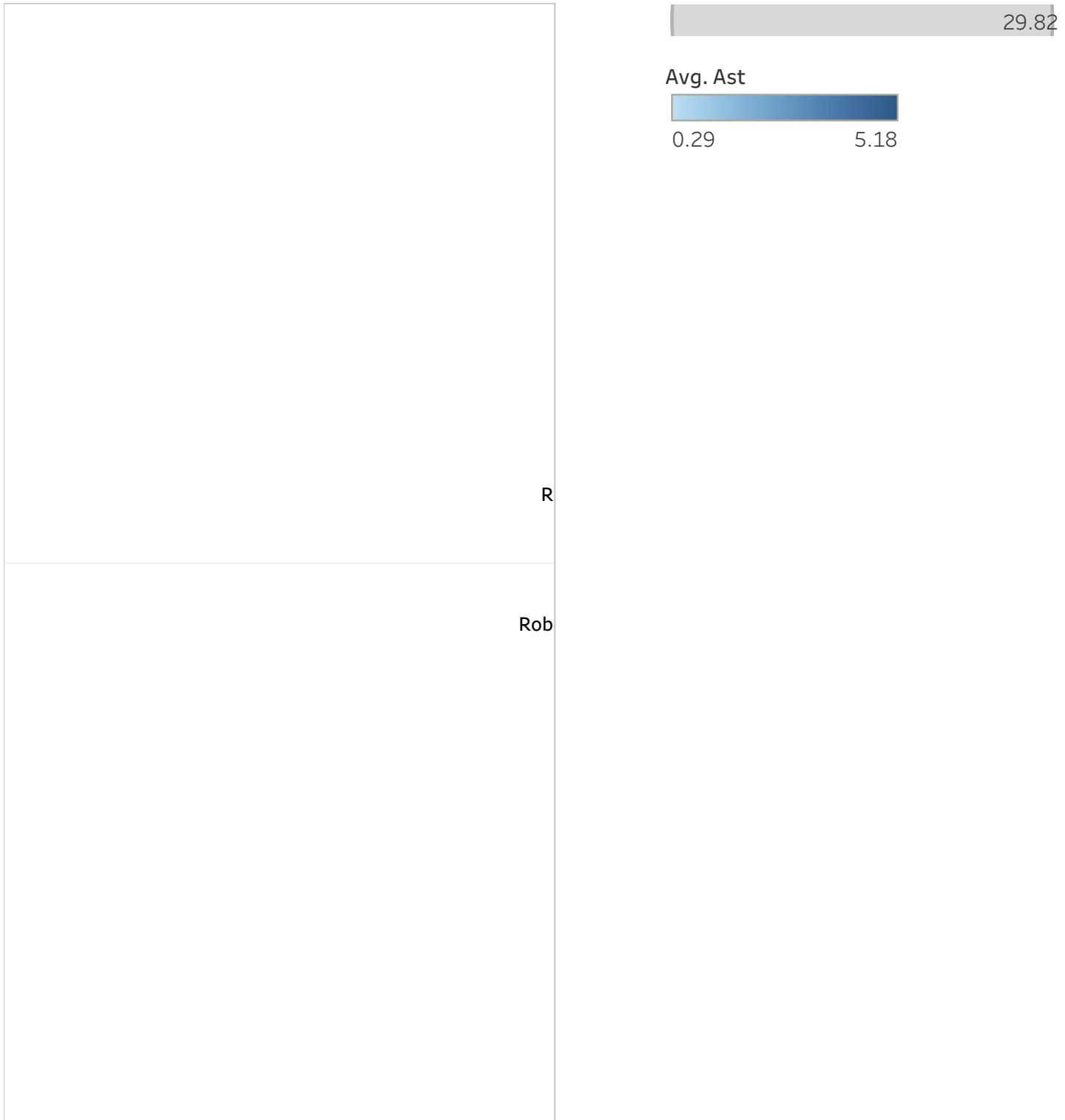
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# Player's Points in Los Angeles Lakers



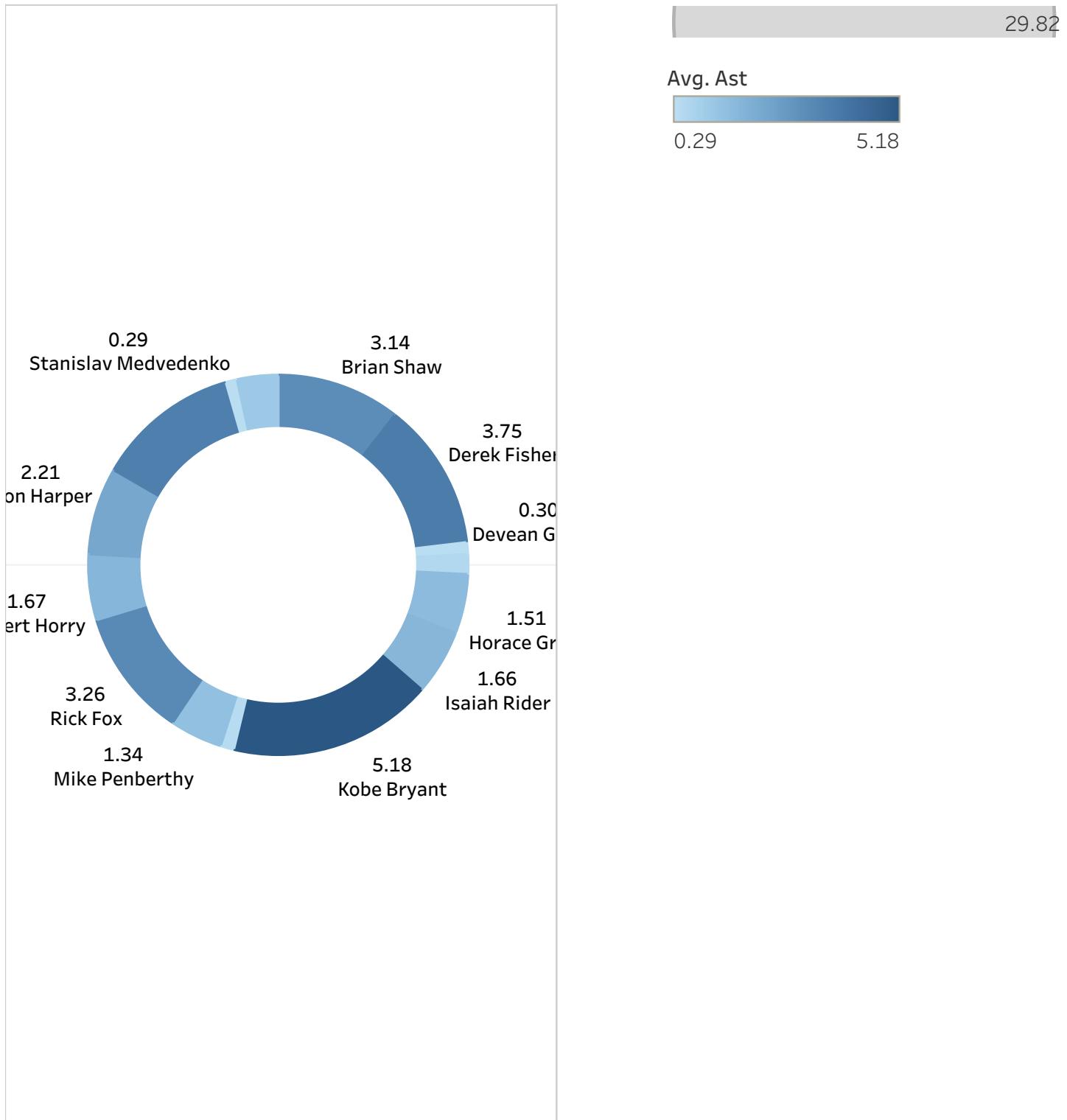
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# Player's Assists in Los Angeles Lakers



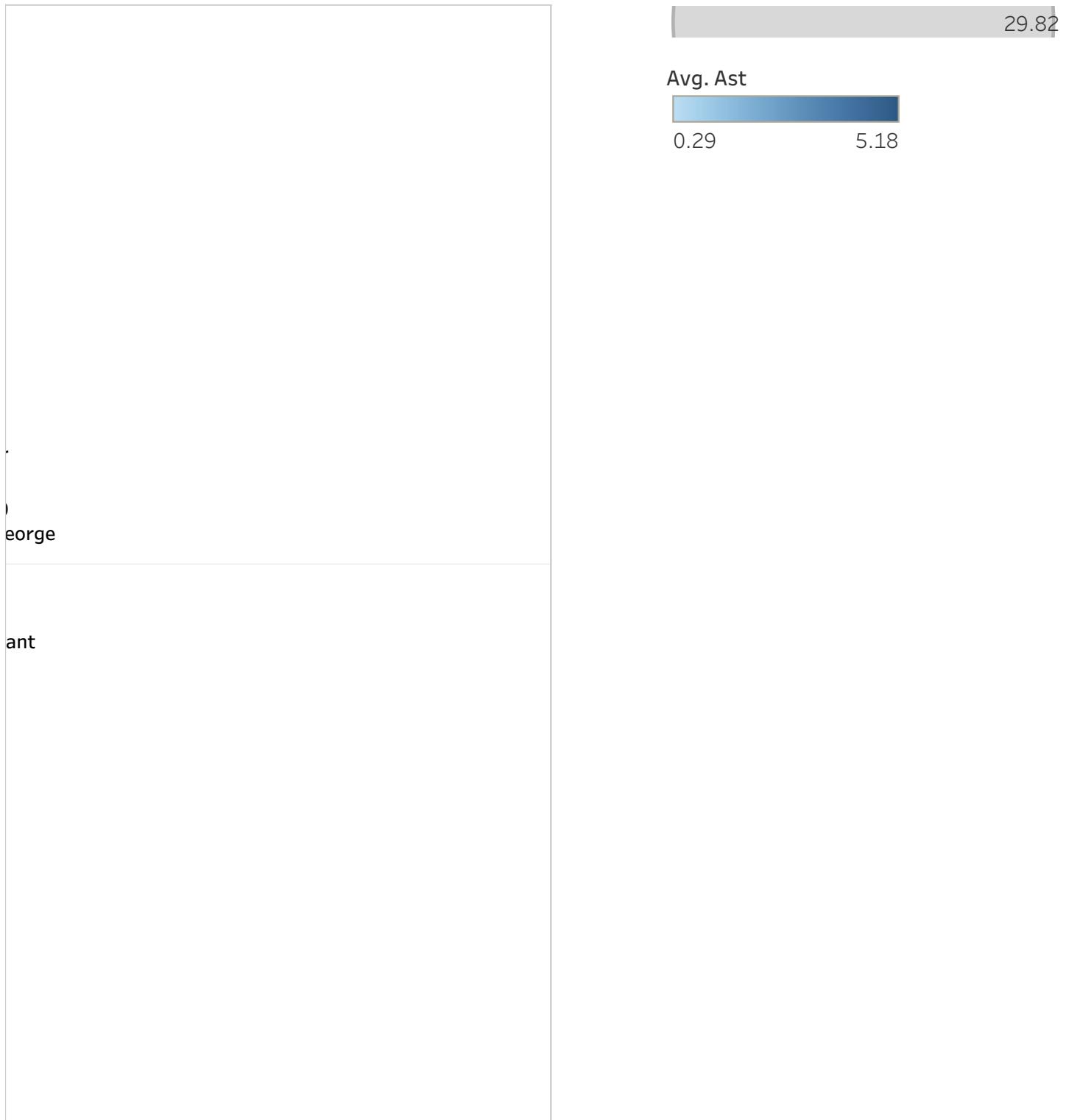
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# Player's Assists in Los Angeles Lakers



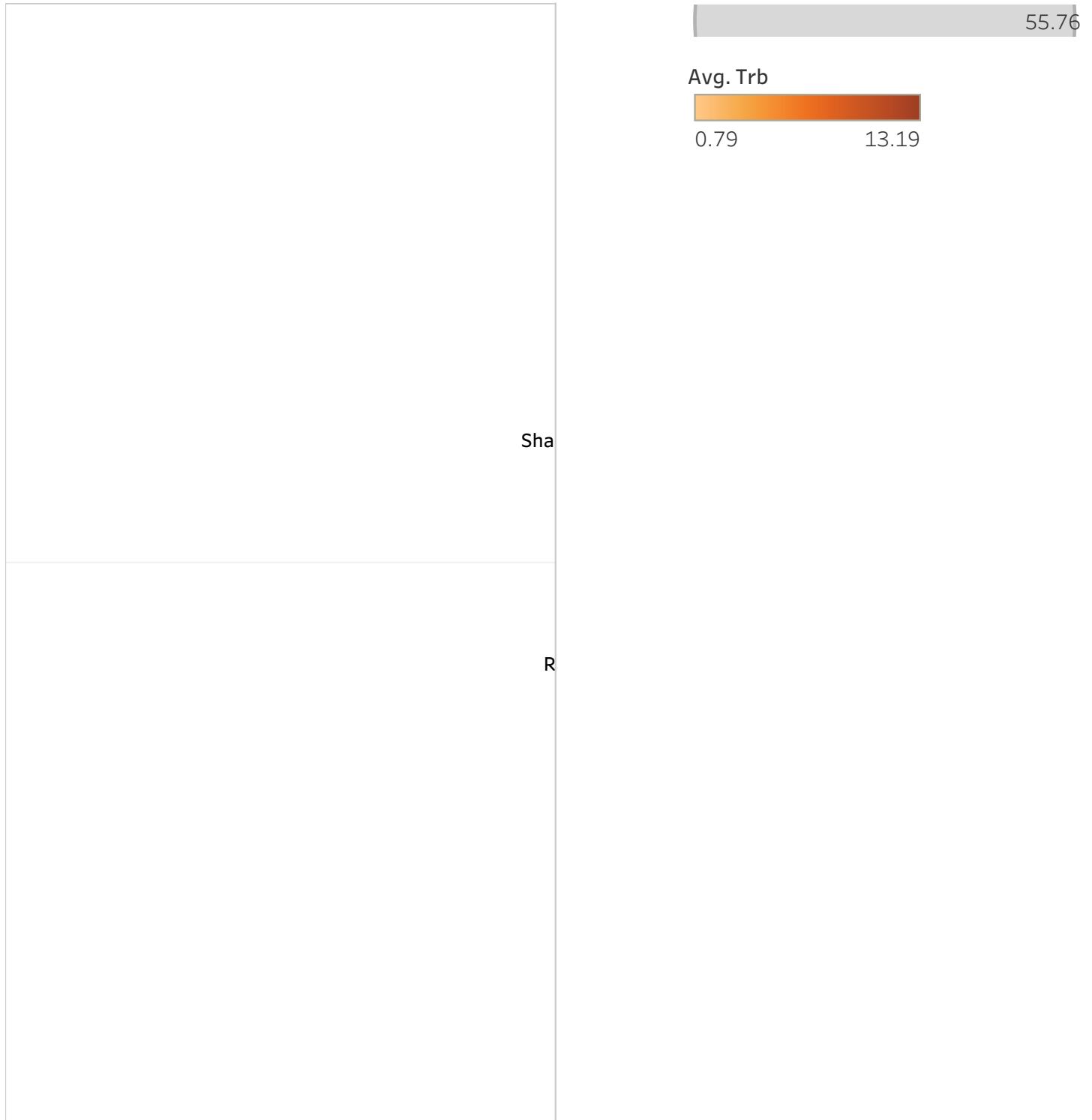
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# Player's Assists in Los Angeles Lakers



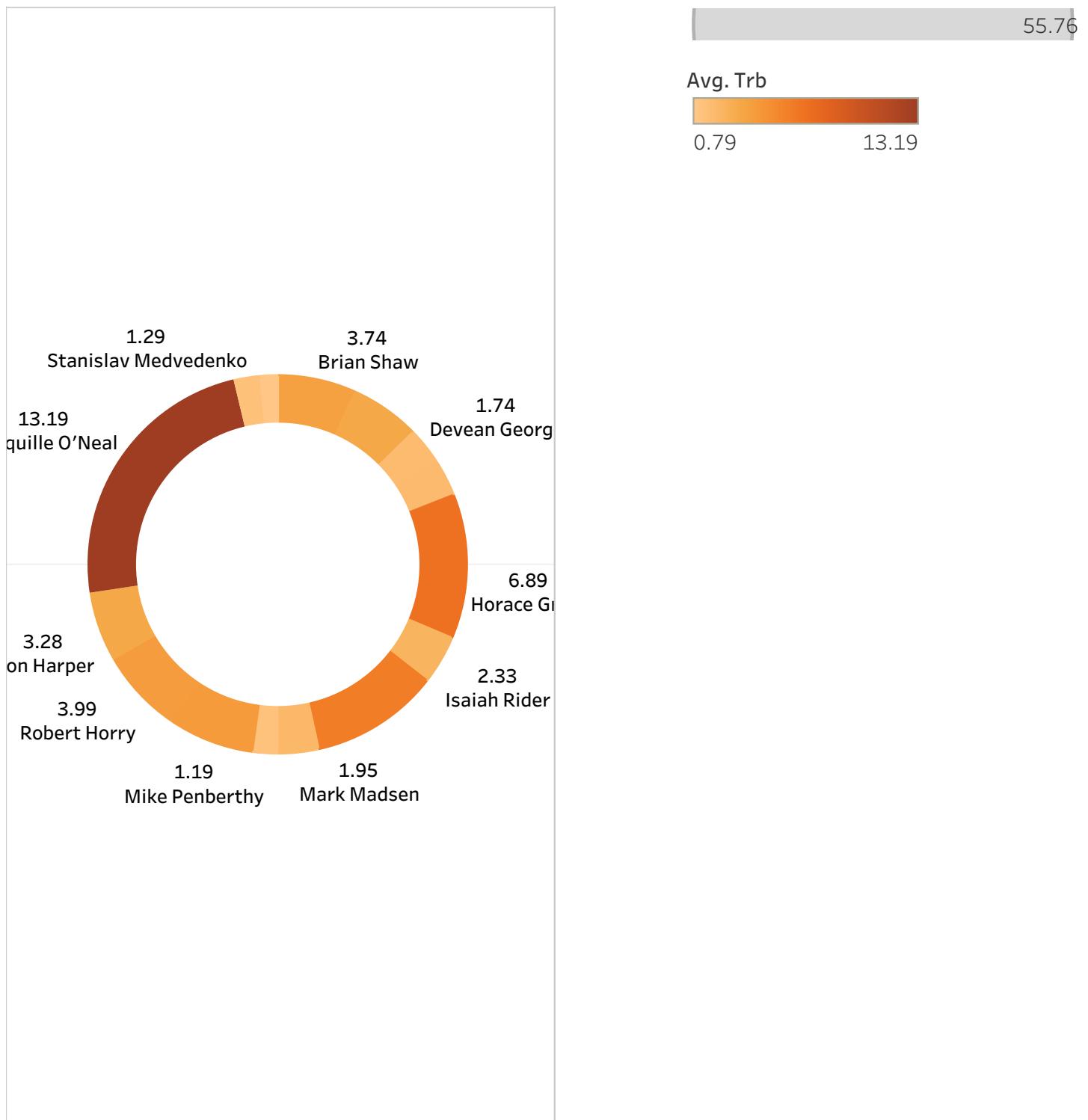
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# Player's Rebounds in Los Angeles Lakers



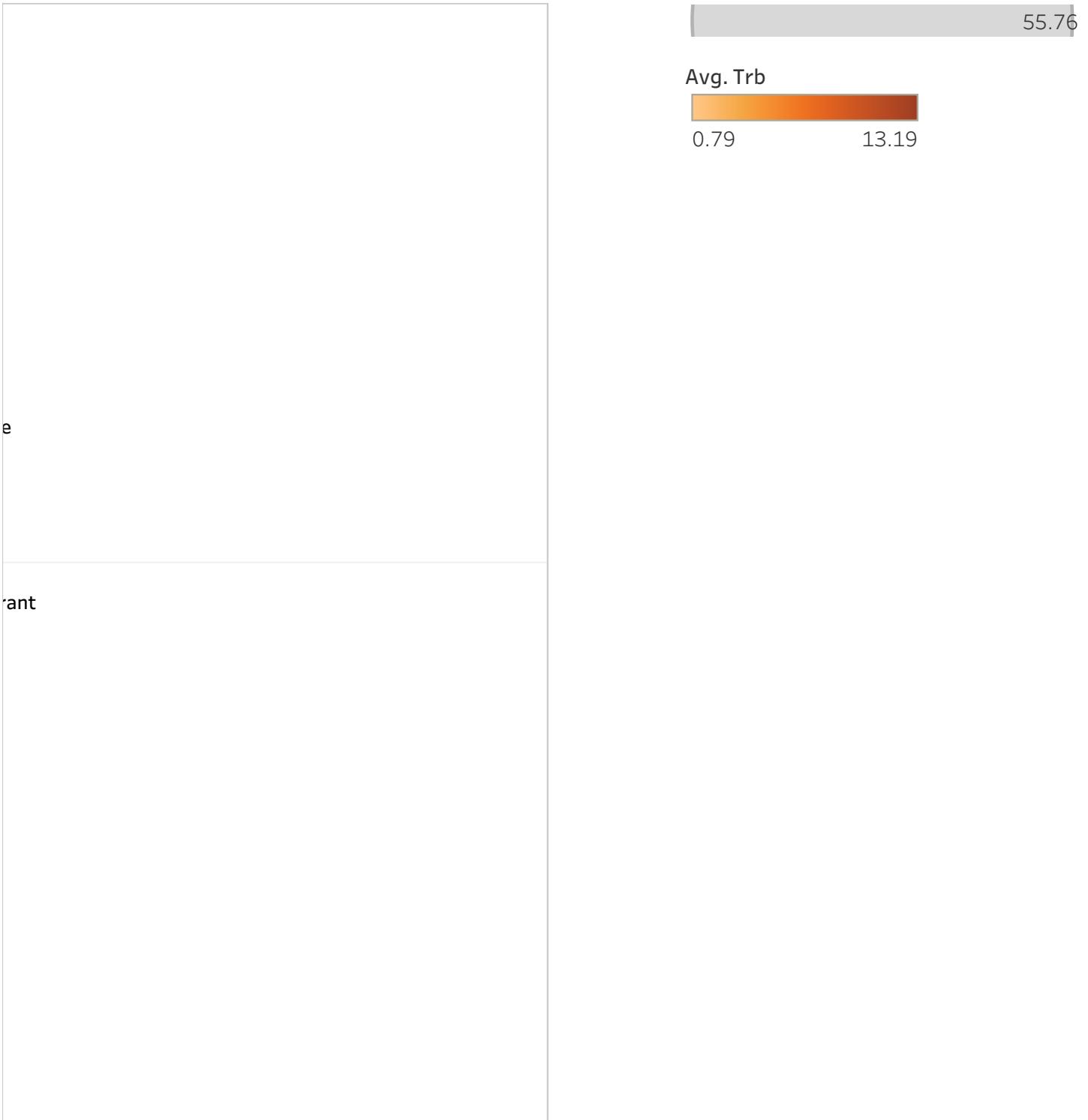
Number of Records (players) as an attribute and Number of Records (players) as an attribute. For pane Number of Records (players) as an attribute: Color shows average of Trb. Size shows average of Trb. The marks are labeled by Name (players) and average of Trb. The data is filtered on Season and Team Name (Teams). The Season filter keeps 2000-01. The Team Name (Teams) filter keeps Los Angeles Lakers.

# Player's Rebounds in Los Angeles Lakers



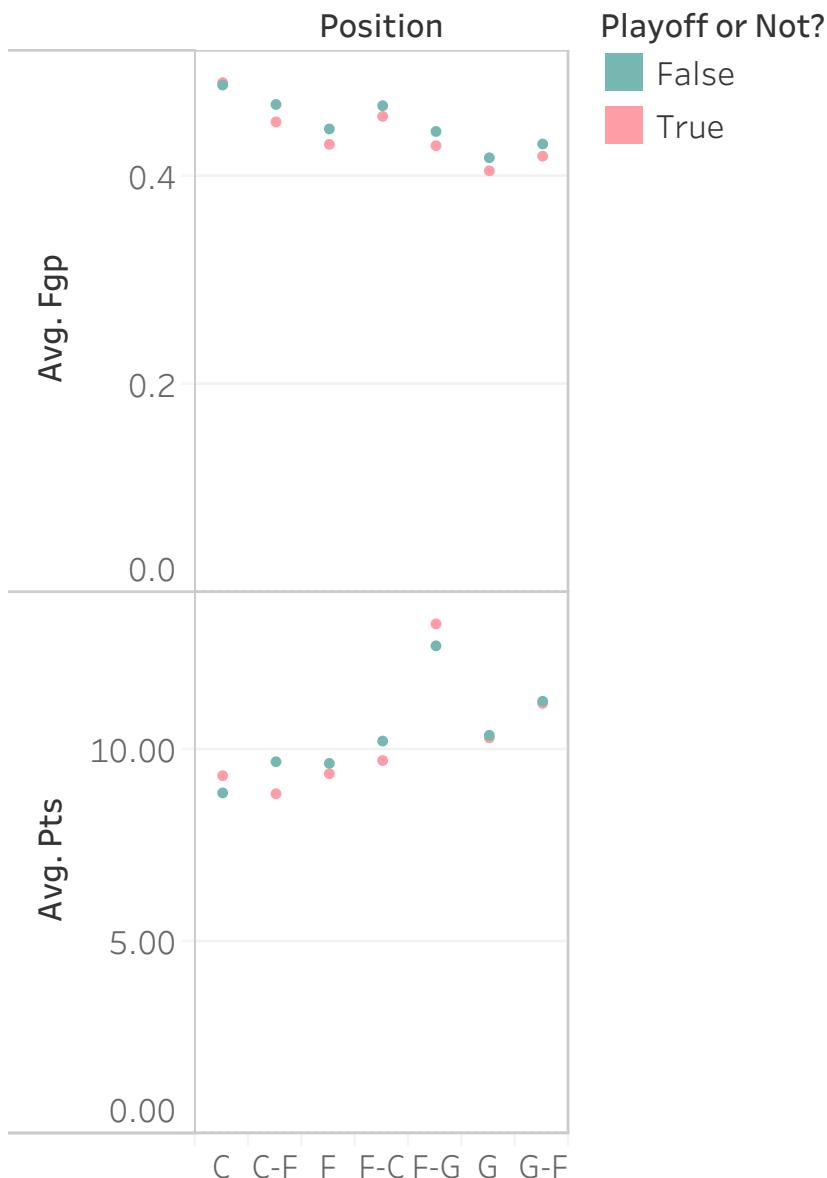
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# Player's Rebounds in Los Angeles Lakers



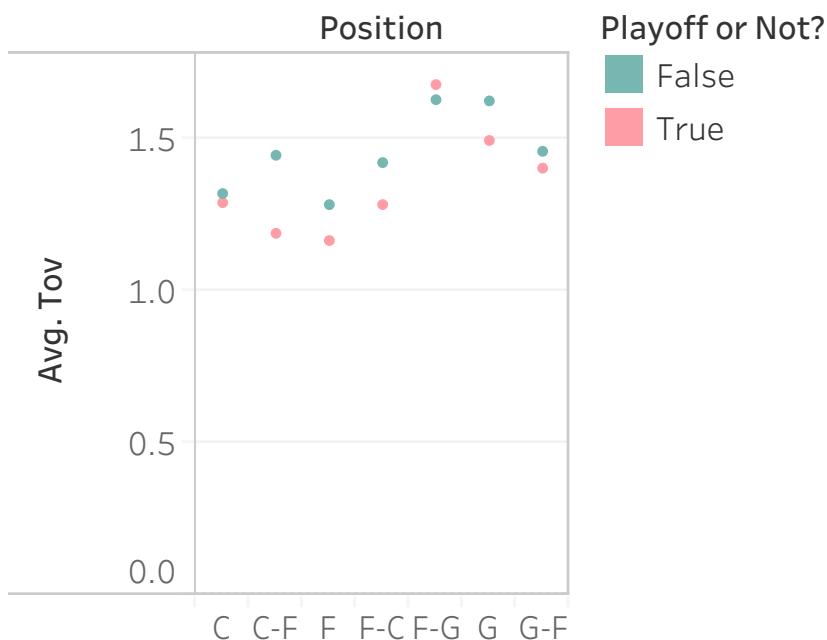
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# Average Field Goal Percentage, Points, Turnover by Position



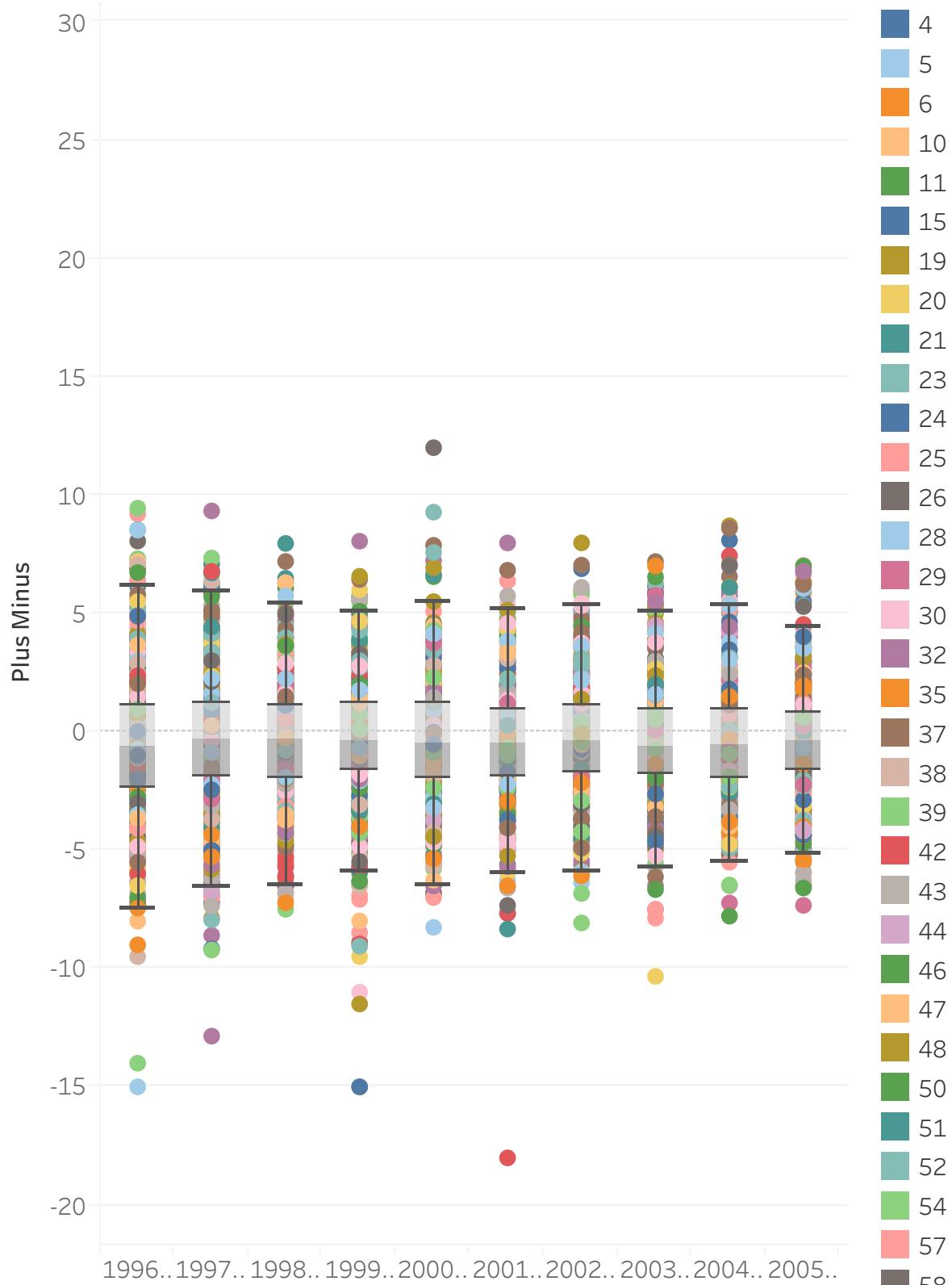
Average of Fgp, average of Pts and  
average of Tov for each Position  
(players). Color shows details about  
Playoff.

# Average Field Goal Percentage, Points, Turnover by Position



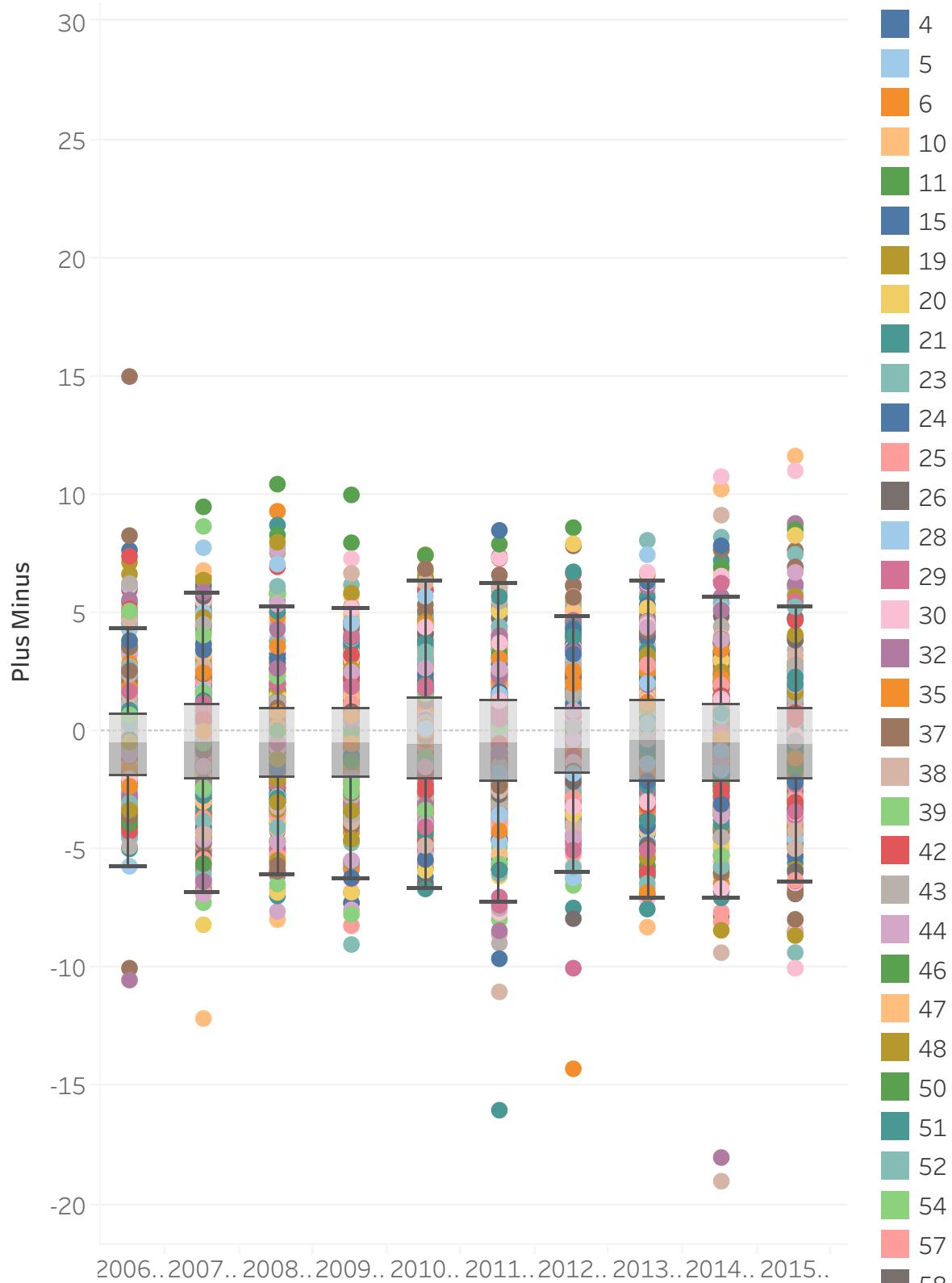
Average of Fgp, average of Pts and  
average of Tov for each Position  
(players). Color shows details about  
Playoff.

# All's Plus/Minus



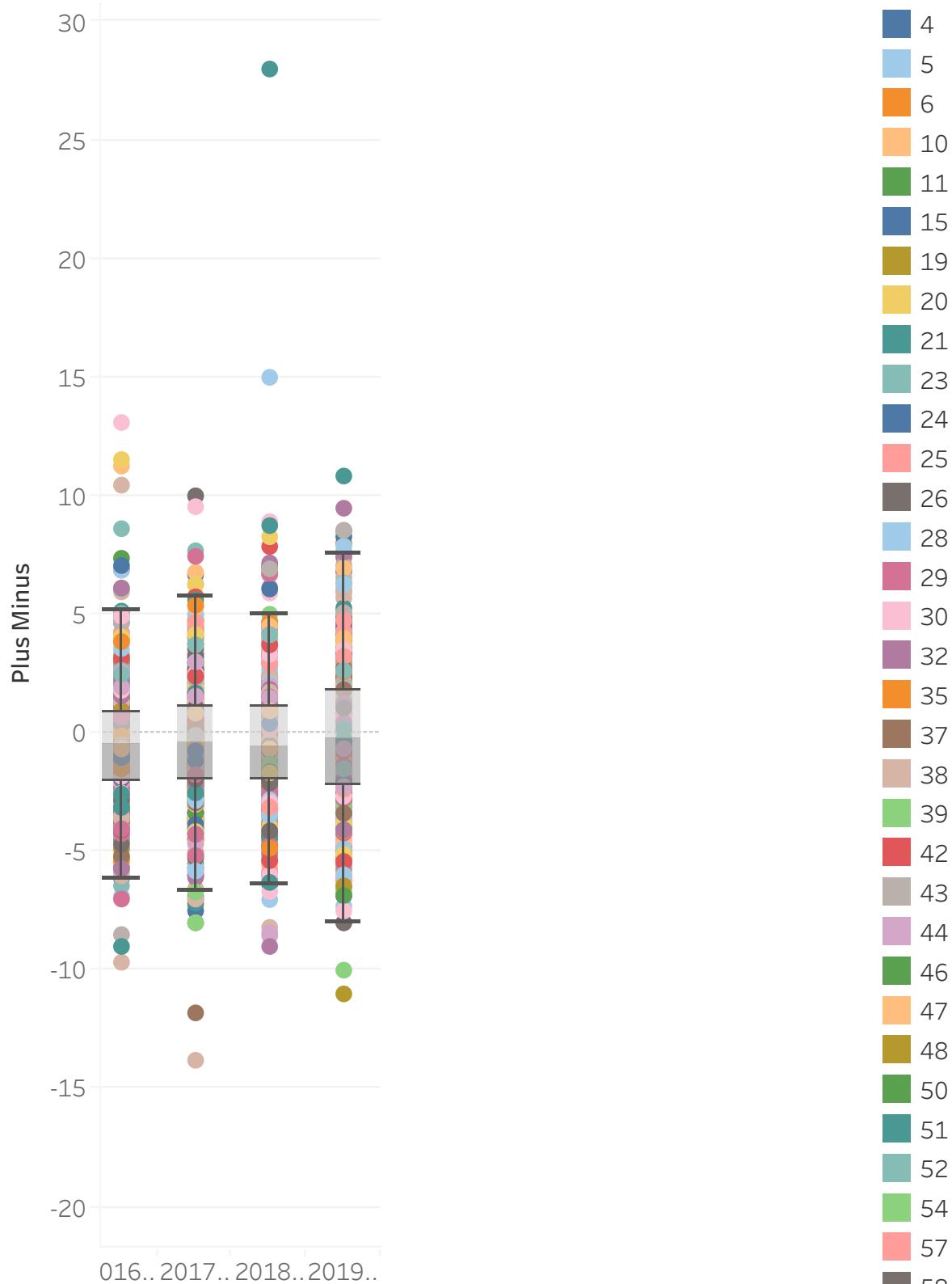
Average of Plus Minus for each Season. Color shows details about Player Id (players). Details are shown for Name (players). The data is filtered on Team Name (Teams), which keeps 30 of 30 members. The view is filtered on average of Plus Minus and Season. The average of Plus Minus filter keeps non-Null values only. The Season filter keeps 71 of 71 members.

# All's Plus/Minus



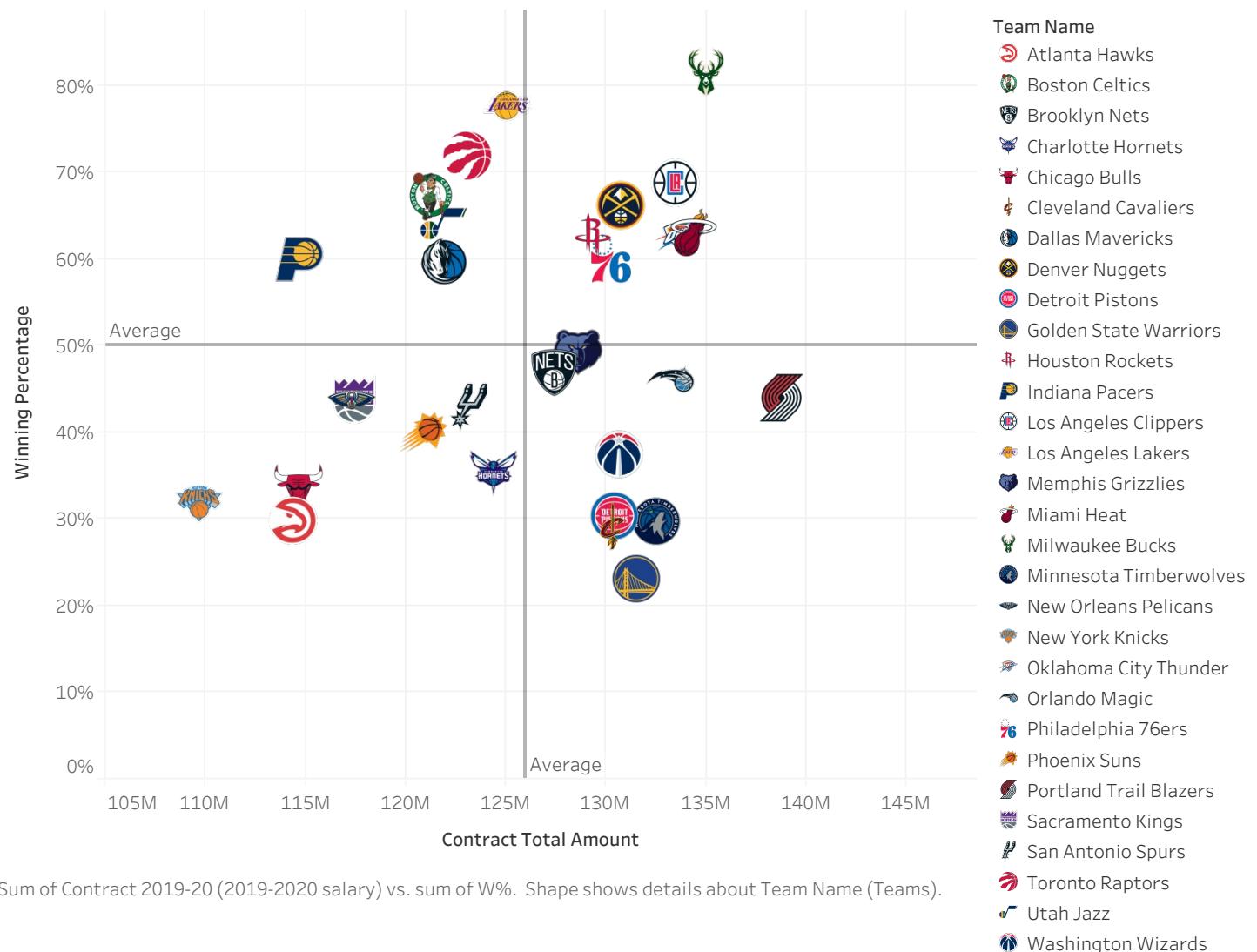
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# All's Plus/Minus

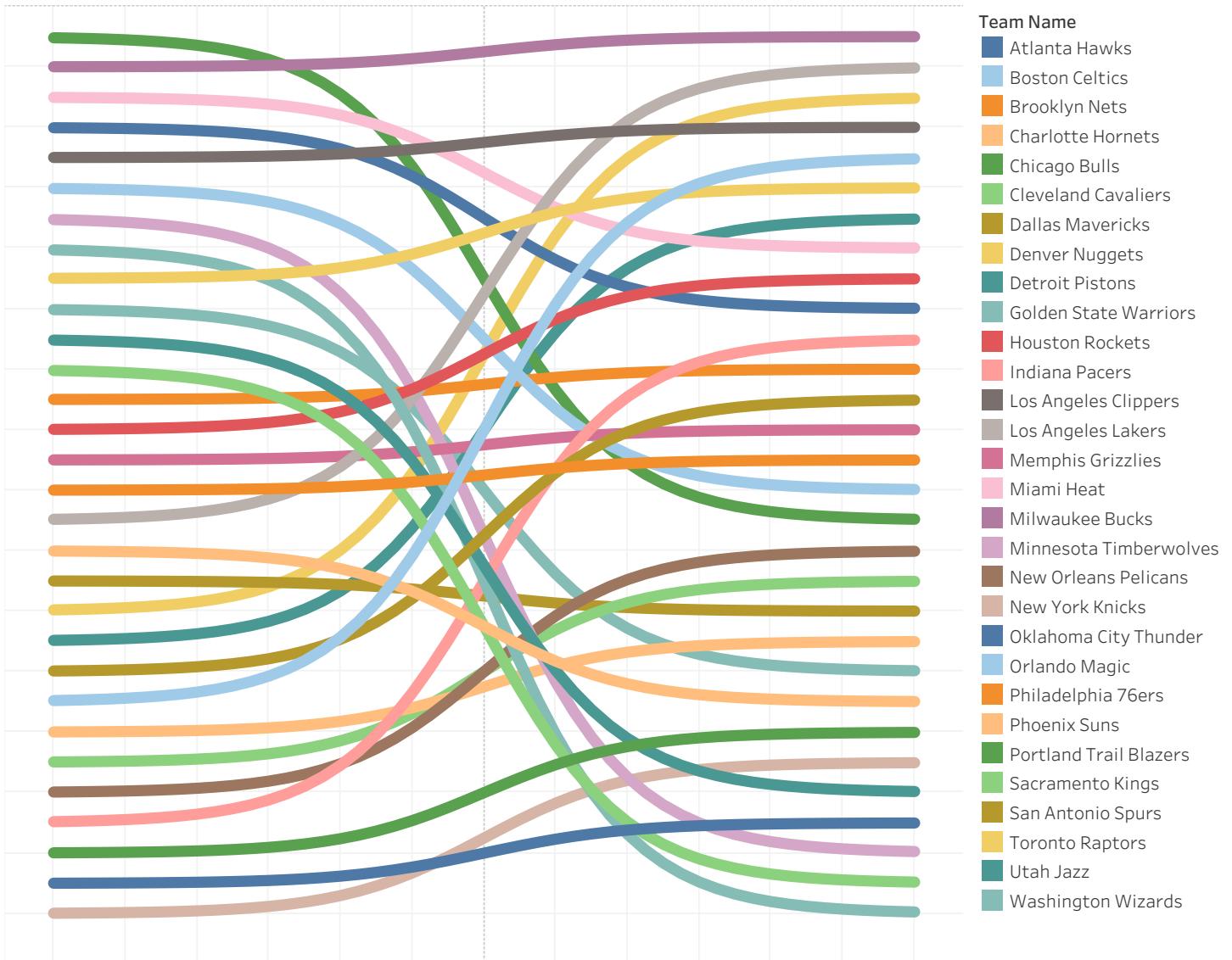


Average of Plus Minus for each Season. Color shows details about Player Id (players). Details are shown for Name (players). The data is filtered on Team Name (Teams), which keeps 30 of 30 members. The view is filtered on average of Plus Minus and Season. The average of Plus Minus filter keeps non-Null values only. The Season filter keeps 71 of 71 members.

## Correlation of 2019-20 Contract and 2019-20 Winning Percentage



# Sankie



T vs. F(t). Color shows details about Team Name. Details are shown for PATH.

# Sankie L

Portland Trail Blazers	1
Milwaukee Bucks	2
Miami Heat	3
Oklahoma City Thunder	4
Los Angeles Clippers	5
Orlando Magic	6
Minnesota Timberwolves	7
Golden State Warriors	8
Denver Nuggets	9
Washington Wizards	10
Detroit Pistons	11
Cleveland Cavaliers	12
Philadelphia 76ers	13
Houston Rockets	14
Memphis Grizzlies	15
Brooklyn Nets	16
Los Angeles Lakers	17
Charlotte Hornets	18
San Antonio Spurs	19
Toronto Raptors	20
Utah Jazz	21
Dallas Mavericks	22
Boston Celtics	23
Phoenix Suns	24
Sacramento Kings	25
New Orleans Pelicans	26
Indiana Pacers	27
Chicago Bulls	28
Atlanta Hawks	29
New York Knicks	30

Average of rank\_contract broken down by Team Name.

# Sankie R

Milwaukee Bucks	1
Los Angeles Lakers	2
Toronto Raptors	3
Los Angeles Clippers	4
Boston Celtics	5
Denver Nuggets	6
Utah Jazz	7
Miami Heat	8
Houston Rockets	9
Oklahoma City Thunder	10
Indiana Pacers	11
Philadelphia 76ers	12
Dallas Mavericks	13
Memphis Grizzlies	14
Brooklyn Nets	15
Orlando Magic	16
Portland Trail Blazers	17
New Orleans Pelicans	18
Sacramento Kings	19
San Antonio Spurs	20
Phoenix Suns	21
Washington Wizards	22
Charlotte Hornets	23
Chicago Bulls	24
New York Knicks	25
Detroit Pistons	26
Atlanta Hawks	27
Minnesota Timberwolv..	28
Cleveland Cavaliers	29
Golden State Warriors	30

Average of Rank W% broken down by Team Name.