

# Package ‘NBAloveR’

January 20, 2025

**Title** Help Basketball Data Analysis

**Version** 0.1.3.3

**Description** Provides interface to the online basketball data resources such as Basketball reference API <<https://www.basketball-reference.com/>> and helps R users analyze basketball data.

**Depends** R (>= 3.1)

**License** GPL-2

**Encoding** UTF-8

**LazyData** true

**Suggests** knitr, rmarkdown, ggplot2, plyr, rvest, stringr, xml2

**VignetteBuilder** knitr

**RoxygenNote** 6.1.1

**Imports** magrittr, dplyr, stats, tidyr

**NeedsCompilation** no

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**Repository** CRAN

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|           |                           |
|-----------|---------------------------|
| franchise | <i>franchise data set</i> |
|-----------|---------------------------|

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## Description

Data set of NBA franchises

## Usage

```
franchise
```

## Format

A data.frame with 13 columns

**Franchise** Franchise name

**Lg** League

**From** Year the team established

**To** To year

**Years** Years

**G** Games

**W** Wins

**L** Losses

**Per** Win Percentage

**Playoffs** Playoffs

**Division** Division titles

**Conference** Conference titles

**Champions** Champions

## Source

Basketball Reference

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|             |                        |
|-------------|------------------------|
| getMatchups | <i>Season Matchups</i> |
|-------------|------------------------|

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**Description**

Season Matchups and results of a given team

**Usage**

```
getMatchups(team_code, season)
```

**Arguments**

|           |                                   |
|-----------|-----------------------------------|
| team_code | Team code consisting 3 characters |
| season    | Season number                     |

**Value**

This function returns data . frame including columns:

- G
- Date
- StartTime
- Opponent
- Result
- OT
- Tm
- Opp
- W
- L
- Streak

**Author(s)**

Koki Ando

**See Also**

<https://www.basketball-reference.com/teams/>

**Examples**

```
## Not run:
bos19 <- getMatchups(team_code = "bos", season = 2019)
head(bos19)

## End(Not run)
```

---

getStandings

*Standing Data*

---

**Description**

Standing data

**Usage**

```
getStandings(year, conf = c("East", "West", "All"))
```

**Arguments**

|      |   |
|------|---|
| year | Season number consisting 4 digits                                       |
| conf | Conference to fetch information for. Valid values are East, West or All |

**Value**

This function returns data.frame including columns:

- Team
- W
- L
- Per
- GB
- PW
- PL
- PSG
- PAG

**Author(s)**

Koki Ando <koki.25.ando@gmail.com>

**See Also**

[https://www.basketball-reference.com/leagues/NBA\\_2019\\_standings.html](https://www.basketball-reference.com/leagues/NBA_2019_standings.html)

## Examples

```
## Not run:
Standings06 <- getStandings(year = 2006, conf = "All")
head(Standings06)

## End(Not run)
```

---

|                |                     |
|----------------|---------------------|
| getStatsLeader | <i>Stats Leader</i> |
|----------------|---------------------|

---

## Description

Stats Leader data

## Usage

```
getStatsLeader(stats_type = c("PTS", "G", "MP", "FG", "FT", "TRB", "AST",
  "STL", "BLK", "TOV", "PF", "FG3"), period = c("career", "season",
  "game"))
```

## Arguments

|            |  |
|------------|--|
| stats_type | Stats type. PTS, G, MP, FG, FT, TRB, AST, STL, BLK, TOV, PF or FG3 |
| period     | Period. career, season or game                                     |

## Value

This function returns data.frame including columns:

- Player
- Season
- stats
- value
- period

## Author(s)

Koki Ando <koki.25.ando@gmail.com>

## See Also

<https://www.basketball-reference.com/leaders/>

**Examples**

```
## Not run:
pts_leader = getStatsLeader(stats_type = "PTS", period = "season")
head(pts_leader)

## End(Not run)
```

---

|                 |  |
|-----------------|--|
| getStatsPerGame | <i>Stats Per Game for a given player</i> |
|-----------------|--|

---

**Description**

Function for getting given player's stats per game

**Usage**

```
getStatsPerGame(player, season, span = 1)
```

**Arguments**

|        |                                      |
|--------|--------------------------------------|
| player | Player name to fetch information for |
| season | Season number                        |
| span   | Duration of season(s). Defaults 1.   |

**Value**

This function returns data.frame including columns:

- G
- Date
- Age
- Tm
- Home
- Opp
- GS
- MP
- FG
- FGA
- FGP
- 3PM
- 3PA
- 3PP

- FT
- FTA
- FTP
- ORB
- DRB
- TRB
- AST
- STL
- BLK
- TOV
- PF
- PTS
- GmSc

**Author(s)**

Koki Ando <koki.25.ando@gmail.com>

**Examples**

```
## Not run:  
RayAllen <- getStatsPerGame(player="Ray Allen", season=2008, span=1)  
head(RayAllen)  
  
## End(Not run)
```

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getStatsSummary      *Career Stats Summary*

---

**Description**

Career stats summary of a given player

**Usage**

```
getStatsSummary(player)
```

**Arguments**

player      Player name

**Value**

This function returns data . frame including columns:

- Season
- Age
- Tm
- Lg
- Pos
- G
- GS
- MP
- FG
- FG
- 3P
- 3PA
- 3P
- 2P
- 2PA
- 2P
- eFG
- FT
- FTA
- FT
- ORB
- DRB
- TRB
- AST
- STL
- BLK
- TOV
- PF
- PTS

**Author(s)**

Koki Ando <koki.25.ando@gmail.com>

Koki Ando <koki.25.ando@gmail.com>

**See Also**

<https://www.basketball-reference.com>



### Examples

```
## Not run:  
kobe_summary = getStatsSummary(player = "Kobe Bryant")  
head(kobe_summary)  
  
## End(Not run)
```

---

getTeamHistory      *Franchise History Data*

---

### Description

Franchise's season data

### Usage

```
getTeamHistory(team_code)
```

### Arguments

team\_code      Team code consisting of 3 characters to fetch information for

### Value

This function returns data.frame including columns:

- Season
- Lg
- Team
- W
- L
- W/L
- Finish
- SRS
- Pace
- RelativePage
- ORtg
- RelativeORtg
- DRtg
- RelativeDRtg
- Playoffs
- Coaches
- TopWinShare

**Author(s)**

Koki Ando <koki.25.ando@gmail.com>

**See Also**

<https://www.basketball-reference.com/teams/>

**Examples**

```
## Not run:  
BostonCeltics <- getTeamHistory(team_code = "bos")  
head(BostonCeltics)  
  
## End(Not run)
```

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getTeamSalary

*Players' Salary*

---

**Description**

Players' salary data for a given team

**Usage**

```
getTeamSalary(team_code)
```

**Arguments**

team\_code      Team code consisting of 3 characters to fetch information for

**Author(s)**

Koki Ando <koki.25.ando@gmail.com>

**See Also**

<https://www.basketball-reference.com/contracts/>

**Examples**

```
## Not run:  
salary_phi <- getTeamSalary(team_code = "phi")  
head(salary_phi)  
  
## End(Not run)
```

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|            |                            |
|------------|----------------------------|
| HallOfFame | <i>HallOfFame data set</i> |
|------------|----------------------------|

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**Description**

Data set of players in the Naismith Memorial Basketball Hall of Fame

**Usage**

HallOfFame

**Format**

A data.frame with 4 columns

**Year** Year

**Inductee** Name of inductee

**Pos** Position

**Achievements** Achievements

**Source**

wikipedia

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|          |  |
|----------|--|
| NBAloveR | <i>NBAloveR: Provides data access to basketball data</i> |
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**Description**

R package that provides an interface to online basketball data. This package allows R users to download publicly available data on basketball.

**Author(s)**

Koki Ando <koki.25.ando@gmail.com>

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players

*players data set*

---

**Description**

Data set of all NBA players

**Usage**

players

**Format**

A data.frame with 13 columns

**Player** Name of Player

**POS** Position of given player

**HT** Height

**WT** Weight

**Age** Age

**Teams** Team(s) the given player belongs to

**GP** Games played

**YOS** Year of seasons

**PreDraftTeam** Pre-draft team

**Draft.Status** Draft status

**Nationality** Nationality

**Year** Year

**RookieYear** Rookie year

**Source**

Basketball Real GM

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|              |  |
|--------------|--|
| statsCompare | <i>Visualization of Stats comparison</i> |
|--------------|--|

---

**Description**

Easy stats comparison function, which includes simple line and point plots

**Usage**

```
statsCompare(player_list = c(), age = FALSE)
```

**Arguments**

|             |                                     |
|-------------|-------------------------------------|
| player_list | List of players                     |
| age         | Age. valid values are TRUE or FALSE |

**Value**

This function returns a point and line plot showing transitions of PPG stats of given players.

**Author(s)**

Koki Ando <koki.25.ando@gmail.com>

**Examples**

```
## Not run:  
statsCompare(player_list = c("Ray Allen", "Klay Thompson", "Stephen Curry"), Age=TRUE)  
  
## End(Not run)
```

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