

Package: NBAloveR (via r-universe)

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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/>](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 7.1.1

Imports magrittr, dplyr, stats, tidyr

Repository <https://koki25ando.r-universe.dev>

RemoteUrl <https://github.com/koki25ando/nbalover>

RemoteRef HEAD

RemoteSha b2a0c47fdf49bb2f1341fc5ff86cb073a7d53c36

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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

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" - Games
- "Date" - Date
- "StartTime" - Time-zone ET
- "Opponent" - Opponent Team
- "Result" - Game Result
- "OT" - Over Time
- "Tm" - Points
- "Opp" - Opponent Points
- "W" - Wins
- "L" - Losses
- "Streak" - Streaks

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" - Team
- "W" - Wins
- "L" - Losses
- "Per" - Win-Loss Percentage
- "GB" - Games Behind
- "PW" - Pythagorean Wins, expected wins based on points scored and allowed
- "PL" - Pythagorean Losses, expected losses based on points scored and allowed
- "PSG" - Points Per Game
- "PAG" - Opponent Points Per Game

Author(s)

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

See Also

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>
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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" - Player Name
- "Season" - Season number
- "stats" - Stats Type
- "value" - Value of record
- "period" - Period. career, season or game.

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>
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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)
```

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)
```

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)
```

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

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>

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

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