Package ‘NBAloveR’

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Title Help Basketball Data Analysis
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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.
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franchise data set

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

**Season Matchups**

**Description**
Season Matchups and results of a given team

**Usage**

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

**Arguments**

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

**Value**
This function returns a `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/
getStandings

Examples

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

## End(Not run)
```

getStandings (Standing Data)

Description

Standing data

Usage

```r
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 a data frame including columns:

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

Author(s)

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

See Also

## Description

Stats Leader data

## Usage

```r
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 a 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/
getStatsPerGame

Stats Per Game for a given player

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

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

## End(Not run)
getStatsSummary

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

Author(s)

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

Examples

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

## End(Not run)
```

---

### Career Stats Summary

**Description**

Career stats summary of a given player

**Usage**

```r
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)

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

See Also

https://www.basketball-reference.com
getTeamHistory

Examples

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

## End(Not run)
```

---

**getTeamHistory**  
*Franchise History Data*

**Description**

Franchise’s season data

**Usage**

```r
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
getTeamSalary

Author(s)
Koki Ando <koki.25.ando@gmail.com>

See Also
https://www.basketball-reference.com/teams/

Examples

```r
## 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**

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

## End(Not run)
```
HallOfFame  

**Description**

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

**Usage**

```r
HallOfFame
```

**Format**

A data.frame with 4 columns

- **Year**  
- **Inductee**  
- **Pos**  
- **Achievements**

**Source**

wikipedia

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NBAloveR  

**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>
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
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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