Package ‘NBAloveR’

April 29, 2019

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.
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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
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 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**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>year</td>
<td>Season number consisting 4 digits</td>
</tr>
<tr>
<td>conf</td>
<td>Conference to fetch information for. Valid values are East, West or All</td>
</tr>
</tbody>
</table>

**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**

getStatsLeader

Examples

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

## End(Not run)
```

getStatsLeader | Stats Leader

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 `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

**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
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)
```

---

**getStatsSummary**  
*Career Stats Summary*

Description
Career stats summary of a given player

Usage
getStatsSummary(player)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>player</td>
<td>Player name</td>
</tr>
</tbody>
</table>
getStatsSummary

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

---

**getTeamSalary**

*Players’ Salary*

**Description**
Players’ salary data for a given team

**Usage**

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

**HallOfFame data set**

**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**

**NBAloveR: Provides data access to basketball data**

**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 &lt;koki.25.ando@gmail.com&gt;
players  

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**

**Visualization of Stats comparison**

**Description**

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

**Usage**

```r
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**

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

## End(Not run)
```
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