Package 'HockeyScrapR'

January 16, 2017

Type Package

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flattenTables Scrape & compile a player's info Read each table on hockey-

reference.com and flatten to single useful tables. Avoids tables such as last5, awards, etc. Melts all NHL (regular season and playoff) and non-NHL, recording league and playoff status

Description

Scrape & compile a player's info Read each table on hockey-reference.com and flatten to single useful tables. Avoids tables such as last5, awards, etc. Melts all NHL (regular season and playoff) and non-NHL, recording league and playoff status

Usage

flattenTables(tables)

Arguments

tables Tables output from XML::readHTMLTables of the player's page

Value

single combined stats Table as data.frame

getCurrentRosters Get Current estimated rosters

Description

Get Current estimated rosters

Usage

```
getCurrentRosters(sleep = 30, teamUrlList = teamURLList)
```

Arguments

sleep The amount of time to sleep between requests

teamUrlList A list of team roster page urls on dailyfaceoff.com. Defaults to correct team

URLs.

Value

a long data frame with three columns:

Team The team

Player The name of the Forward, Defence or Goalie playing

updateDate The date the Team's page was updated

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getPlayerList	Get a list of Players Download the full list of active and past players
	from Hockey-Reference.com

Description

Get a list of Players Download the full list of active and past players from Hockey-Reference.com

Usage

```
getPlayerList(sleep = 30, letters = letters)
```

Arguments

sleep The sleep time between scrape requests

letters The letters to scrape player names from. Default: letters

Value

a data.frame containing:

Complete The complete line that data was scraped from

BlnNHL Whether the player played any time in the NHL

URL Player page URL
Name Player Name

Active Whether the player is currently active

getPlayerStats	Get stats for a list of players A function to get all player stats from a
	list of players (in the form provided by getPlayerList)

Description

Get stats for a list of players A function to get all player stats from a list of players (in the form provided by getPlayerList)

Usage

```
getPlayerStats(player_list, sleep = 30)
```

Arguments

player_list A player list (data.frame) from getPlayerList

sleep Time to sleep between player scrapings

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Value

a list of three data.frames, containing

PlayerStats Combined player statistics
GoalieStats Combined goalie statistics

PlayerMeta Meta statistics for all (goalies and players)

processPlayerData Clean Player Da

Clean Player Data This function will process player data, returning

clean data frames as a list

Description

Clean Player Data This function will process player data, returning clean data frames as a list

Usage

```
processPlayerData(player_data, drop_awards = TRUE, ...)
```

Arguments

```
player_data The player_data to clean up
drop_awards Whether to drop awards column.
... Additional parameters to pass
```

Value

a list of three cleaned data.frames, containing

PlayerStats Combined player statistics
GoalieStats Combined goalie statistics

PlayerMeta Meta statistics for all (goalies and players)

scrapePlayers Scrape and clean all player data

Description

This is a one-command function to scrape and clean all player data available from Hockey-Reference.com. This takes many hours. Also saves results to a dated .RDS file.

Usage

```
scrapePlayers(data_dir = "./data/players/", ...)
```

Arguments

```
data_dir Directory to store data
... Additional parameters to pass
```

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Value

a list of three cleaned data.frames, containing

PlayerStats Combined player statistics
GoalieStats Combined goalie statistics

PlayerMeta Meta statistics for all (goalies and players)

Examples

```
## Not run: scrapePlayers()
## Not run: scrapePlayers(sleep=15, long_sleep=180)
```

scrapeRosters

Scrape all roster data

Description

This is a one-command function to scrape all roster data available from DailyFaceoff.com. Also saves results to a dated .RDS file.

Usage

```
scrapeRosters(data_dir = "./data/rosters/", ...)
```

Arguments

data_dir Directory to store data in
... Additional parameters to pass

Value

roster information data.frame

Examples

```
## Not run:
scrapeRosters()
## End(Not run)
```

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Description

This is a one-command function to scrape and clean all score data available from Hockey-Reference.com. Also saves results to a dated .RDS file.

Usage

```
scrapeScores(data_dir = "./data/scores/", ...)
```

Arguments

```
data_dir Directory to store data in.
... Additional parameters to pass
```

Value

scores information data.frame

Examples

```
## Not run:
scrapeScores()
## End(Not run)
```

updatePlayers

Update player information (don't rescrape old players).

Description

Update player information (don't rescrape old players).

Usage

```
updatePlayers(player_data, data_dir = "./data/players/", years_back = 1,
    player_list = NULL, ...)
```

Arguments

player_data	The player_data data.frame to update
data_dir	The data dir of stored player information
years_back	The number of years to go back (will scrape all players currently active + past years_back years)
player_list	Optional player list to scrape from (default NULL -> get updated player list)
	Additional parameters to pass

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Value

a list of three updated cleaned data.frames, containing

PlayerStats Combined player statistics
GoalieStats Combined goalie statistics

PlayerMeta Meta statistics for all (goalies and players)

Examples

```
## Not run: updatePlayers()
## Not run: updatePlayers(data_dir = './data/', years_back=2
```

updateScores

Update scores information (don't rescrape old scores).

Description

Update scores information (don't rescrape old scores).

Usage

```
updateScores(score_data, data_dir = "./data/scores/", ...)
```

Arguments

score_data The player_data data.frame to update
data_dir The data dir of stored player information

... Additional parameters to pass

Value

updated scores information data.frame

Examples

```
## Not run: updateScores()
## Not run: updatePlayers(score_data, data_dir = './data/'
```

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