

Package ‘squashinformr’

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Title Politely Web Scrape Data from SquashInfo

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Author Hayden MacDonald [aut, cre]

Maintainer Hayden MacDonald <hayden.macdonald.8778@gmail.com>

Description Scrape SquashInfo <<http://www.squashinfo.com/>> for data on the Professional Squash Association World Tour and other squash events. 'squashinformr' functions scrape, parse, and clean data associated with players, tournaments, and rankings.

Depends R (>= 4.0)

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lubridate (>= 1.7.4), stringr (>= 1.4.0), tidyr (>= 1.1.2),
rvest (>= 0.3.6), polite (>= 0.1.1), naniar (>= 0.5.0), janitor
(>= 2.1.0), Hmisc (>= 4.4.2), rlang (>= 0.4.10)

Suggests testthat, covr, knitr, rmarkdown

License GPL-3

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URL <https://github.com/HaydenMacDonald/squashinformr>

BugReports <https://github.com/HaydenMacDonald/squashinformr/issues>

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aggregate_profile_tables

Aggregate Profile Tables from Player Profiles

Description

Given two data frames with profile urls, fetch and aggregate summary tables from player profiles.

Usage

```
aggregate_profile_tables(x = NULL, y = NULL, identifier = NULL)
```

Arguments

x, y	data frames containing
identifier	unique string that used to identify the desired table.

Value

Data frame containing aggregated summary tables.

`get_matchup`*Get a player matchup data from SquashInfo*

Description

Given the full names or ranks of players, and the competition category, `get_matchup()` returns recent matchup data for PSA ranked players.

Usage

```
get_matchup(  
  player_1 = NULL,  
  player_2 = NULL,  
  ranks = NULL,  
  category = NULL,  
  tidy = FALSE,  
  match_spread = FALSE  
)
```

Arguments

<code>player_1</code>	character string of the first player's name.
<code>player_2</code>	character string of the second player's name.
<code>ranks</code>	integers indicating the rank of the PSA players to return.
<code>category</code>	character string indicating the competition category. Must be one of "mens" or "womens".
<code>tidy</code>	logical indicating whether to organize results according to tidy principles.
<code>match_spread</code>	logical indicating whether to only return match spread statistics.

Value

Tibble containing each player's rank, name, total matches played, number of matches won, the match results spread (relative to player 1), the average match time, the number of games played, the number of games won, average point advantage in a won game, the average point difference in final scores, the number of tie-break wins, and the percentage of games that go to a tie-breaker.

Note

This function only returns data from players ranked in the most recent PSA rankings table for Men's and Women's singles competitions.

References

<http://www.squashinfo.com/rankings/men>
<http://www.squashinfo.com/rankings/women>

Examples

```
## Get tidy matchup data for Mohamed Elshorbagy vs Karim Abdel Gawad
get_matchup(player_1 = "Mohamed Elshorbagy",
            player_2 = "Karim Abdel Gawad",
            category = "mens",
            tidy = TRUE)

## Get non-tidy matchup data for Nouran Gohar vs Nour El Sherbini
get_matchup("Nouran Gohar", "Nour El Sherbini", category = "womens", tidy = FALSE)

## Get tidy match spread data for Paul Coll and Ali Farag
get_matchup("Paul Coll", "Ali Farag", category = "mens", tidy = TRUE, match_spread = TRUE)
```

get_matchup_profiles *Get profile urls for players in matchup*

Description

Get profile urls for players in matchup

Usage

```
get_matchup_profiles(
  player_1 = NULL,
  player_2 = NULL,
  players = NULL,
  ranks = NULL,
  category = NULL
)
```

Arguments

player_1	character string of the first player's name.
player_2	character string of the second player's name.
players	character string vector of player names.
ranks	integers indicating the rank of the PSA players to return.
category	character string indicating the competition category. Must be one of "mens" or "womens".

Value

Tibble containing player names, rank, and profile url slugs.

get_match_game_data *Given recent match data, return a cleaned list of recent match and recent game data*

Description

Given recent match data, return a cleaned list of recent match and recent game data

Usage

```
get_match_game_data(data = NULL, players = NULL, ranks = NULL)
```

Arguments

data recent match data frame.
 players a vector containing player names as strings.
 ranks a vector of integers representing the player ranks.

Value

list containing recent match and recent games data frames.

get_players *Get PSA Squash Player Data from SquashInfo*

Description

Given the rank(s) and competition category, get_players() returns profile data of ranked players in PSA World Tour competitions.

Usage

```
get_players(top = NULL, rank = NULL, category = NULL)
```

Arguments

top integer indicating the number of top PSA players by rank to return.
 rank integer indicating the rank of the PSA player(s) to return.
 category character string indicating the competition category. Must be one of "mens", "womens", or "both".

Value

Tibble containing first name, last name, age, gender, birthplace, nationality, residence, height in cm, weight in kg, plays (handedness), racket brand, year of joining PSA, university, and club.

Note

This function only returns players ranked in the most recent PSA rankings table for Men's and Women's singles competitions.

References

<http://www.squashinfo.com/rankings/men>
<http://www.squashinfo.com/rankings/women>

Examples

```
## Return the top 5 ranked players from the Women's PSA rankings
get_players(top = 5, category = "womens")

## Return the 5th ranked player from both Men's and Women's PSA rankings
get_players(rank = 5, category = "both")
```

get_player_profile_table

Get Player Summary Tables from SquashInfo

Description

Given a data frame with player ranks, names, and profile slugs, `get_player_profile_urls()` returns the Event Summary Table of ranked players in PSA World Tour competitions.

Usage

```
get_player_profile_table(data = NULL, identifier = NULL)
```

Arguments

<code>data</code>	data frame with columns for player rank (int), names (chr), and profile slugs (chr).
<code>identifier</code>	unique string that used to identify the desired table.

Value

Data frame containing Event Summary Table(s).

`get_player_profile_urls`*Get Player URLs from SquashInfo*

Description

Given the player name, rank(s), and competition category, `get_player_profile_urls()` returns profile slugs of ranked players in PSA World Tour competitions.

Usage

```
get_player_profile_urls(  
  player = NULL,  
  rank = NULL,  
  category = c("mens", "womens")  
)
```

Arguments

<code>player</code>	character string of player name.
<code>rank</code>	single integer or vector of integers indicating the rank of the PSA player(s) to return.
<code>category</code>	character string indicating the competition category. Must be one of "both", "mens", or "womens".

Value

Data frame containing player ranks, names, and profile slugs.

`get_player_recent_` *Get a player's recent data from SquashInfo*

Description

Given level of detail (e.g. 'results', 'matches', 'games'), the full name or rank of a player, and the competition category, `get_player_recent_()` returns the recent event data for PSA ranked players.

Usage

```
get_player_recent_  
  level = c("results", "matches", "games"),  
  player = NULL,  
  rank = NULL,  
  category = NULL  
)
```

Arguments

level	character string indicating the level of detail of the data to be returned. Must be one of "results", "matches", or "games".
player	character string of player name.
rank	single integer or vector of integers indicating the rank of the PSA player(s) to return.
category	character string indicating the competition category. Must be one of "both", "mens", or "womens".

Value

Tibble containing the player rank, player name, player's seeding, round reached, event name, event date, event location, and event tour.

```
get_player_recent_games
```

Get a player's recent games from SquashInfo

Description

Given the full name or rank of a player and the competition category, `get_player_recent_games()` returns recent game data for PSA ranked players.

Usage

```
get_player_recent_games(player = NULL, rank = NULL, category = NULL)
```

Arguments

player	character string of player name.
rank	single integer or vector of integers indicating the rank of the PSA player(s) to return.
category	character string indicating the competition category. Must be one of "both", "mens", or "womens".

Value

Tibble containing the player rank, name, opponent, points won, points lost, game result, tournament round, event, PSA designation, and event location.

Note

This function only returns data from players ranked in the most recent PSA rankings table for Men's and Women's singles competitions.

References

<http://www.squashinfo.com/rankings/men>
<http://www.squashinfo.com/rankings/women>

Examples

```
## Get Mohamed Elshorbagy's most recent game data
get_player_recent_games(player = "Mohamed Elshorbagy", category = "mens")

## Get Nour El Tayeb's recent game data
get_player_recent_games("El Tayeb", category = "womens")

## Get recent game data from the top two players in both Men's and Women's competitions
get_player_recent_games(rank = 1:2, category = "both")
```

`get_player_recent_matches`

Get a player's recent matches from SquashInfo

Description

Given the full name or rank of a player and the competition category, `get_player_recent_matches()` returns recent match data for PSA ranked players.

Usage

```
get_player_recent_matches(player = NULL, rank = NULL, category = NULL)
```

Arguments

<code>player</code>	character string of player name.
<code>rank</code>	single integer or vector of integers indicating the rank of the PSA player(s) to return.
<code>category</code>	character string indicating the competition category. Must be one of "both", "mens", or "womens".

Value

Tibble containing the player rank, name, opponent, match result, games won, games lost, match time, date, tournament round, event, PSA designation, and event location.

Note

This function only returns data from players ranked in the most recent PSA rankings table for Men's and Women's singles competitions.

References

<http://www.squashinfo.com/rankings/men>
<http://www.squashinfo.com/rankings/women>

Examples

```
## Get Mohamed Elshorbagy's most recent match data
get_player_recent_matches(player = "Mohamed Elshorbagy", category = "mens")

## Get Nour El Tayeb's recent match data
get_player_recent_matches("El Tayeb", category = "womens")

## Get recent match data from the top two players in both Men's and Women's competitions
get_player_recent_matches(rank = 1:2, category = "both")
```

```
get_player_recent_results
```

Get a player's recent event results from SquashInfo

Description

Given the full name or rank of a player and the competition category, `get_player_recent_results()` returns the recent event results table for PSA ranked players.

Usage

```
get_player_recent_results(player = NULL, rank = NULL, category = NULL)
```

Arguments

<code>player</code>	character string of player name.
<code>rank</code>	single integer or vector of integers indicating the rank of the PSA player(s) to return.
<code>category</code>	character string indicating the competition category. Must be one of "both", "mens", or "womens".

Value

Tibble containing the player rank, player name, player's seeding, round reached, event name, event date, event location, and event tour.

Note

This function only returns results data from players ranked in the most recent PSA rankings table for Men's and Women's singles competitions. Recent results are limited to events that occurred within the current and previous calendar years.

References

<http://www.squashinfo.com/>

Examples

```
## Get Mohamed Elshorbagy's most recent results data
get_player_recent_results(player = "Mohamed Elshorbagy", category = "mens")

## Get Nour El Tayeb's recent results data
get_player_recent_results("El Tayeb", category = "womens")

## Get recent results data from the top two players in both Men's and Women's competitions
get_player_recent_results(rank = 1:2, category = "both")
```

get_rankings

Get the most recent PSA rankings from SquashInfo

Description

Given a competition category, `get_rankings()` returns the most recent PSA rankings table.

Usage

```
get_rankings(top = NULL, category = NULL)
```

Arguments

top	integer indicating the number of top PSA players by rank to return.
category	character string indicating the competition category. Must be one of "both", "mens", or "womens".

Value

Tibble containing the player rank, previous month's rank, name, highest ranking achieved, date of highest ranking, nationality, and competition category.

Note

This function only returns the most recent PSA rankings table for Men's and Women's singles competitions.

References

<http://www.squashinfo.com/rankings/men>
<http://www.squashinfo.com/rankings/women>

Examples

```
## Get the top 10 ranked men's singles players
get_rankings(top = 10, category = "mens")

## Get the top 10 ranked women's singles players
get_rankings(top = 20, category = "womens")

## Get the top 20 players in both men's and women's singles competitions
get_rankings(top = 20, category = "both")
```

get_rankings_table *Get the PSA rankings tables from SquashInfo*

Description

Given a competition category, get_rankings_table() returns the most recent PSA rankings table.

Usage

```
get_rankings_table(top = NULL, category = NULL)
```

Arguments

top	integer indicating the number of top PSA players by rank to return.
category	character string indicating the competition category. Must be one of "mens", or "womens".

Value

Tibble containing the player rank, previous month's rank, name, highest ranking achieved, date of highest ranking, nationality, and competition category.

get_recent_matches *Get a player's recent matches*

Description

Get a player's recent matches

Usage

```
get_recent_matches(profile_urls)
```

Arguments

profile_urls a data frame containing a list of player names, ranks, and profile slugs.

Value

Tibble containing the player's recent matches.

get_tournaments	<i>Get tournaments from SquashInfo</i>
-----------------	----------------------------------------

Description

Given a year, `get_tournaments()` returns data for PSA World Tour tournaments and other events.

Usage

```
get_tournaments(year = 2021, world_tour = TRUE)
```

Arguments

year integer indicating the tournament year. Must be one of 2020 or 2021.
world_tour logical indicating whether to only return PSA World Tour tournaments.

Value

Tibble containing the league, competition category, name, date, city, and country.

Note

This function only returns tournaments from 2020 and 2021, as any other data are not available to non-premium members on SquashInfo.

References

<http://www.squashinfo.com/results>

Examples

```
## Get data on 2021 PSA World Tour tournaments  
get_tournaments()  
  
## Get data on 2020 non-PSA World Tour tournaments  
get_tournaments(2020, world_tour = FALSE)
```

get_tournament_ *Scrape tournament metadata*

Description

Scrape tournament metadata

Usage

```
get_tournament_(tournament = NULL, year = NULL, world_tour = NULL)
```

Arguments

tournament	the name of the tournament.
year	the year the tournament was held.
world_tour	logical indicating whether the tournament was a part of the PSA World Tour.

Value

a data frame containing a specified tournament and its slug.

get_tournament_games *Get a tournament's games from SquashInfo*

Description

Given a tournament name or a year, get_tournament_games() returns match data for PSA World Tour tournaments and other events.

Usage

```
get_tournament_games(tournament = NULL, year = NULL, world_tour = NULL)
```

Arguments

tournament	character string of name of the tournament. Partial tournament names are matched via regular expressions.
year	integer indicating year of competition. Must be 2020, 2021, or NULL if querying results for both years.
world_tour	logical indicating whether to only return PSA World Tour tournaments.

Value

Tibble containing the tournament name, competition category, tournament date, round, match number, game number, player 1, player 2, the game winner, player 1's score, player 2's score, player 1's seed, player 2's seed, player 1's nationality, player 2's nationality.

Note

This function only returns game data from tournaments in 2020 and 2021, as any other data are not available to non-premium members on SquashInfo. Additionally, events that do not use a single elimination format are not included in the results (e.g. Karakal Premier League).

References

<http://www.squashinfo.com/results>

Examples

```
## Return game data for 2020's Black Ball Open.
get_tournament_games("Black Ball Open", year = 2020, world_tour = TRUE)

## Return game data for all PSA World Tour tournaments in 2020
get_tournament_games(year = 2020, world_tour = TRUE)
```

get_tournament_matches

Get a tournament's matches from SquashInfo

Description

Given a tournament name or a year, `get_tournament_matches()` returns match data for PSA World Tour tournaments and other events.

Usage

```
get_tournament_matches(tournament = NULL, year = NULL, world_tour = NULL)
```

Arguments

tournament	character string of name of the tournament. Partial tournament names are matched via regular expressions.
year	integer indicating year of competition. Must be 2020, 2021, or NULL if querying results for both years.
world_tour	logical indicating whether to only return PSA World Tour tournaments.

Value

Tibble containing the tournament name, competition category, tournament date, round, player 1, player 2, the match winner, games won (by player 1), games lost (by player 1), the match time, player 1's seed, player 2's seed, player 1's nationality, player 2's nationality.

Note

This function only returns match data from tournaments in 2020 and 2021, as any other data are not available to non-premium members on SquashInfo. Additionally, events that do not use a single elimination format are not included in the results (e.g. Karakal Premier League).

References

<http://www.squashinfo.com/results>

Examples

```
## Return match data for 2020's Black Ball Open.  
get_tournament_matches("Black Ball Open", year = 2020, world_tour = TRUE)  
  
## Return match data for all PSA World Tour tournaments in 2020  
get_tournament_matches(year = 2020, world_tour = TRUE)
```

get_tournament_objects

Get players, matches, or games from a given tournament

Description

Get players, matches, or games from a given tournament

Usage

```
get_tournament_objects(tournaments = NULL, level = NULL)
```

Arguments

tournaments a data frame containing a set of tournaments
level the level of object to return. Must be one of "players", "matches", or "games".

Value

a tibble containing the tournament objects.

`get_tournament_players`*Get a tournament's players from SquashInfo*

Description

Given a tournament name or a year, `get_tournament_players()` returns player registrants for PSA World Tour tournaments and other events.

Usage

```
get_tournament_players(tournament = NULL, year = 2021, world_tour = TRUE)
```

Arguments

<code>tournament</code>	character string of name of the tournament. Partial tournament names are matched via regular expressions.
<code>year</code>	integer indicating year of competition. Must be 2020, 2021, or NULL if querying results for both years.
<code>world_tour</code>	logical indicating whether to only return PSA World Tour tournaments.

Value

Tibble containing the tournament name, competition category, tournament date, player, seed, nationality, round_reached.

Note

This function only returns player registrant data from tournaments in 2020 and 2021, as any other data are not available to non-premium members on SquashInfo. Additionally, events that do not use a single elimination format are not included in the results (e.g. Karakal Premier League).

References

<http://www.squashinfo.com/results>

Examples

```
## Who played in the Black Ball Open in 2020?  
get_tournament_players(tournament = "Black Ball Open", year = 2020)  
  
## Return player registrant data for all PSA World Tour tournaments in 2020  
get_tournament_players(year = 2020, world_tour = TRUE)
```

`squashinformr``squashinformr package`

Description

The `squashinformr` package allows sports enthusiasts to easily access data related to the Professional Squash Association's World Tour and other squash tournaments from SquashInfo. The functions within this package scrape, parse, and clean data associated with players, tournaments, and rankings data.

Details

See the README on [GitHub](#)

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