Package 'oddsapiR'

June 22, 2022

Title Access Live Sports Odds from the Odds API

Version 0.0.1

Description A utility to quickly obtain clean and tidy sports odds from The Odds API <https://the-odds-api.com>.

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URL https://oddsapiR.sportsdataverse.org/ (docs), https://github.com/sportsdataverse/oddsapiR (repo)

BugReports https://github.com/sportsdataverse/oddsapiR/issues

SystemRequirements pandoc (>= 1.12.3), pandoc-citeproc

Depends R (>= 4.0.0)

Imports cli (>= 1.1.0), data.table (>= 1.14.0), dplyr, glue, httr (>= 0.5), janitor, jsonlite, magrittr, rlang (>= 0.4.0), rvest (>= 1.0.0), tidyr (>= 1.0.0)

Suggests crayon (>= 1.3.4), curl, DBI, ggplot2, ggrepel, gt, knitr, progressr (>= 0.6.0), purrr (>= 0.3.0), qs (>= 0.25.1), Rcpp (>= 1.0.7), RcppParallel (>= 5.1.4), rmarkdown, RSQLite, stats, stringi, stringr (>= 1.3.0), testthat, tibble (>= 3.0), usethis (>= 1.6.0), xml2 (>= 1.3)

Encoding UTF-8

LazyData true

RoxygenNote 7.2.0

NeedsCompilation no

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Repository CRAN

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R topics documented:

`csv_from_url` **Load .csv / .csv.gz file from a remote connection**

Description

This is a thin wrapper on data.table::fread

Usage

```
csv_from_url(...)
```

Arguments

`...`	passed to data.table::fread

Value

a dataframe as created by `data.table::fread()`

`progressively` **Progressively**

Description

This function helps add progress-reporting to any function - given function `f()` and progressor `p()`, it will return a new function that calls `f()` and then (on-exiting) will call `p()` after every iteration.

Usage

```
progressively(f, p = NULL)
```

Arguments

f	a function to add progressr functionality to.
p	a progressor function as created by progressr::progressor()

Details

This is inspired by purrr's safely, quietly, and possibly function decorators.

Value

a function that does the same as f but it calls p() after iteration.

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rds_from_url — Load .rds file from a remote connection

Description

Load .rds file from a remote connection

Usage

```
rds_from_url(url)
```

Arguments

url	a character url

Value

a dataframe as created by readRDS()

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register_toa — Odds API Key Registration

Description

Save your API Key as a system environment variable ODDS_API_KEY

Usage

```
toa_key()

has_toa_key()

check_toa_key()
```

Details

To get access to an API key, follow the instructions at https://the-odds-api.com

Using the key:
You can save the key for consistent usage by adding ODDS_API_KEY=XXXX-YOUR-API-KEY-HERE-XXXXX to your .Renviron file (easily accessed via usethis::edit_r_environ()).
Run usethis::edit_r_environ(), a new script will pop open named .Renviron, **THEN** paste the following in the new script that pops up (with**out** quotations)

```
ODDS_API_KEY = XXXX-YOUR-API-KEY-HERE-XXXXX
```

Save the script and restart your RStudio session, by clicking Session (in between Plots and Build) and click Restart R
(there also exists the shortcut Ctrl + Shift + F10 to restart your session).

If set correctly, from then on you should be able to use any of the toa_ functions without any other changes.

For less consistent usage:
At the beginning of every session or within an R environment, save your API key as the environment variable ODDS_API_KEY (**with** quotations) using a command like the following.

```
Sys.setenv(ODDS_API_KEY = "XXXX-YOUR-API-KEY-HERE-XXXXX")
```

Value

Called as a side-effect to ensure that a user has an API key stored in their environment before making a call to the Odds API service.

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toa_requests — Find out your usage and remaining calls for your key from The Odds API

Description

Get your usage and remaining calls for your key from The Odds API

```
toa_requests()
```

Usage

```
toa_requests()
```

Value

Returns a tibble of The Odds API key usage with the following columns:

col_name	types
requests_remaining	integer
requests_used	integer

toa_sports — Find sports for which odds are accessible through the Odds API

Description

Get the Sports for which the Odds API provides coverage

```
toa_sports(all_sports=TRUE)
```

Usage

```
toa_sports(all_sports = TRUE)
```

Arguments

all_sports	(*Logical* required): If true, returns all sports and if false, returns only active sports. Defaults to true.

Value

Sports for which The Odds API provides betting information for as a tibble:

col_name	types
key	character
group	character
title	character
description	character
active	logical
has_outrights	logical

Examples

```
try(toa_sports(all_sports = TRUE))
```

toa_sports_keys — Sports for which odds are accessible through the Odds API

Description

A data set mapping Sports Events/League names to keys for end-user ease.

Usage

```
data(toa_sports_keys)
```

Format

A data frame with 5 variables:

- `key`: Sport key
- `group`: Sport group (non-league description)
- `title`: Sport title
- `description`: Sport description
- `has_outrights`: Whether the sport or event has outright victories.

`toa_sports_odds` Find odds for the sports which are accessible through the Odds API

Description

Get the odds for the sports which the Odds API provides coverage

```
try(toa_sports_odds(sport_key = 'baseball_mlb',
                    regions = 'us',
                    markets = 'spreads',
                    odds_format = 'decimal',
                    date_format = 'iso'))
```

Usage

```
toa_sports_odds(
  sport_key,
  regions = "us",
  markets = "spreads",
  odds_format = "decimal",
  date_format = "iso"
)
```

Arguments

`sport_key`	The `sport_key` to look up odds for. See `toa_sports()` for a full lookup of `sport_key` values.
`regions`	The region to pull odds from. Options include: • us • uk • us

- eu
- au Multiple can be specified if comma delimited.

`markets` The type of odds to return. Multiple can be specified if comma delimited. Options include:

- h2h
- spreads
- totals

`odds_format` The format in which to return odds. Options include:

- decimal
- american

`date_format` Date format. Options include:

- iso
- unix

Value

Sports for which The Odds API provides betting information for as a tibble:

col_name	types
id	character
sport_key	character
sport_title	character
commence_time	character
home_team	character
away_team	character
bookmaker_key	character
bookmaker	character
last_update	character
market_key	character
outcomes_name	character
outcomes_price	numeric
outcomes_point	numeric

Examples

```
try(toa_sports_odds(sport_key = 'baseball_mlb',
                    regions = 'us',
                    markets = 'spreads',
                    odds_format = 'decimal',
                    date_format = 'iso'))
```

`toa_sports_scores` **Find scores for the sports which are accessible through the Odds API**

Description

Get the scores for the sports which the Odds API provides coverage

```
try(toa_sports_scores(sport_key = 'baseball_mlb',
                      days_from = NULL,
                      date_format = 'iso'))
```

Usage

```
toa_sports_scores(sport_key, days_from = 1, date_format = "iso")
```

Arguments

`sport_key`	(*string*, required): The `sport_key` to look up odds for. See `toa_sports()` for a full lookup of `sport_key` values.
`days_from`	(*integer*, optional): Integer from 1 to 3. Defaults to 1.
`date_format`	(*string*, optional): Date format. Options include: • iso • unix

Value

Sports scores which The Odds API provides scores information for as a tibble:

col_name	types
id	character
sport_key	character
sport_title	character
commence_time	character
completed	logical
home_team	character
away_team	character
scores	logical
last_update	logical

Examples

```
try(toa_sports_scores(sport_key = 'baseball_mlb',
                      days_from = NULL,
```

```
                                date_format = 'iso'))
```

Index