Package 'oddsapiR'

July 22, 2025

Title Access Live Sports Odds from the Odds API

Version 0.0.3

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 (>= 3.4.1), data.table (>= 1.14.0), dplyr (>= 1.0.10), glue, httr (>= 0.5), janitor, jsonlite, magrittr, rlang (>= 1.0.4), rvest (>= 1.0.0), tidyr (>= 1.0.0)

Suggests crayon (>= 1.3.4), curl, DBI, ggplot2, ggrepel, gt, knitr, progressr (>= 0.6.0), qs (>= 0.25.1), Rcpp (>= 1.0.7), RcppParallel (>= 5.1.4), rmarkdown, RSQLite, stats, stringi, stringr (>= 1.5.0), testthat, tibble (>= 3.0), tidyselect (>= 1.2.0), usethis (>= 1.6.0), xml2 (>= 1.3)

Encoding UTF-8

LazyData true

RoxygenNote 7.2.3

NeedsCompilation no

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Repository CRAN

Date/Publication 2023-03-19 18:50:02 UTC

progressively

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```
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()

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)

rds_from_url

Arguments

f	a function to add progressr functionality to.
р	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.

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()

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 (without 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.

<pre>toa_event_odds</pre>	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

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toa_event_odds

Usage

```
toa_event_odds(
   sport_key,
   event_id,
   regions = "us",
   markets = "spreads",
   odds_format = "decimal",
   date_format = "iso",
   bookmakers = NULL
)
```

Arguments

sport_key	The sport_key to look up odds for. See toa_sports() for a full lookup of sport_key values.
event_id	The event_id to look up odds for. See toa_sports_odds() for a full lookup of event_id 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
	• outrights
	• h2h_lay
	• outrights_lay
	alternate_spreads
	alternate_totals
	• btts
	• draw_no_bet
	• h2h_3_way
	NFL Player Props:
	• player_pass_tds
	• player_pass_yds
	 player_pass_completions
	• player_pass_attempts
	• player_pass_interceptions
	 player_pass_longest_completion

- player_rush_yds
- player_rush_attempts
- player_rush_longest
- player_receptions
- player_reception_yds
- player_reception_longest

NBA + NCAAB Player Props:

- player_points
- player_rebounds
- player_assists
- player_threes
- player_double_double
- player_blocks
- player_steals
- player_turnovers
- player_points_rebounds_assists
- player_points_rebounds
- player_points_assists
- player_rebounds_assists

NHL Player Props:

- player_points
- player_power_play_points
- player_assists
- player_blocked_shots
- player_shots_on_goal

Player Props Documentation

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

- decimal
- american
- date_format Date format. Options include:
 - iso
 - unix
- bookmakers Comma-separated list of bookmakers to be returned. If both bookmakers and regions are specified, bookmakers takes precendence. Bookmakers can be from any region. Every group of 10 bookmakers counts as 1 request. For example for a single market, specifying up to 10 bookmakers counts as 1 request. Specifying between 11 and 20 bookmakers counts as 2 requests

toa_requests

Details

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

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 activ	e
	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. Op- tions 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

```
markets = 'spreads',
odds_format = 'decimal',
date_format = 'iso'))
```

toa_sports_odds_history

Find odds history for the sports which are accessible through the Odds API

Description

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

Usage

```
toa_sports_odds_history(
   sport_key,
   event_ids,
   date,
   regions = "us",
   markets = "spreads",
   odds_format = "decimal",
   date_format = "iso",
   bookmakers = NULL
)
```

Arguments

sport_key	The sport_key to look up odds for. See toa_sports() for a full lookup of sport_key values.
event_ids	The event_id's to look up odds for. See toa_sports_odds() for a full lookup of event_id values.
date	The timestamp of the data snapshot to be returned, specified in ISO8601 format. The historical odds API will return the closest snapshot equal to or earlier than the provided date parameter Example : 2022-10-10T12:15:00Z
regions	The region to pull odds from. Options include:
	• us
	• uk

	 us eu au Multiple can be specified if comme delimited
markets	• au Multiple can be specified if comma delimited. The type of odds to return. Multiple can be specified if comma delimited. Op- tions include:
	 h2h spreads totals
odds_format	The format in which to return odds. Options include:decimalamerican
date_format	Date format. Options include: • iso • unix
bookmakers	Comma-separated list of bookmakers to be returned. If both bookmakers and regions are specified, bookmakers takes precendence. Bookmakers can be from any region. Every group of 10 bookmakers counts as 1 request. For example for a single market, specifying up to 10 bookmakers counts as 1 request. Specifying between 11 and 20 bookmakers counts as 2 requests

Details

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

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

Usage

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

Arguments

sport_key	(<i>string</i> , 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:

	4
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

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