

Package ‘horsey’

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Title Access to the 'Lichess' API

Version 1.0.1

Description Package that accesses the 'Lichess' API (<<https://lichess.org/api>>). Supports both authenticated and unauthenticated requests. Basic functionality for game and player analysis.

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URL <https://github.com/kylehamilton/horsey>

BugReports <https://github.com/kylehamilton/horsey/issues>

Encoding UTF-8

RoxygenNote 7.3.3

Depends R (>= 4.1.0)

Imports httr2, jsonlite, tibble, dplyr, stringr, cli, rlang

Suggests spelling, testthat (>= 3.0.0)

Config/testthat/edition 3

Language en-US

NeedsCompilation no

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client	<i>Create a Lichess API client for analysis/export workflows</i>
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Description

horsey is designed for read-only access and data export. Provide a token for endpoints that require authentication. If token is NULL, `client()` will use `Sys.getenv("LICHESS_TOKEN")`.

Usage

```
client(token = NULL, base_url = "https://lichess.org", quiet = FALSE)
```

Arguments

token	Bearer token (personal API token or OAuth access token). If NULL, uses <code>Sys.getenv("LICHESS_TOKEN")</code> .
base_url	API base URL. Defaults to <code>https://lichess.org</code> .
quiet	Suppress informational messages.

Value

An object of class `horsey_client`.

export_games	<i>Export games for a player</i>
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Description

Downloads games from `/api/games/user/{username}` and requests NDJSON. Returns a tibble of commonly-used analysis fields, plus a raw list-column containing each full game object as returned by the API.

Usage

```
export_games(
  cl,
  username,
  max = 100,
  since = NULL,
  until = NULL,
  perfType = NULL,
  rated = NULL,
  opening = TRUE
)
```

Arguments

cl	A horsey_client.
username	Lichess username.
max	Maximum number of games to request (default 100).
since	Optional epoch milliseconds (inclusive).
until	Optional epoch milliseconds (exclusive).
perfType	Optional perf filter (e.g., "blitz", "rapid").
rated	Optional logical filter.
opening	If TRUE, ask Lichess to include opening info when available.

Value

A tibble with selected metadata columns and a raw list-column.

opening_summary	<i>Summarize openings from exported games</i>
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Description

Counts openings from `export_games()` output. To include opening information, `opening = TRUE` in `export_games()`.

Usage

```
opening_summary(games, top_n = 20)
```

Arguments

games	Tibble returned by <code>export_games()</code> .
top_n	Number of top openings to return.

Details

Two columns are produced by `export_games()` when `opening = TRUE`:

opening_name An opening name provided by Lichess (for example, "Sicilian Defense" or "Queen's Gambit Declined").

opening_eco The ECO code associated with the opening (for example, "B20" or "D30"). ECO (Encyclopaedia of Chess Openings) codes are a standardized classification system for chess openings.

Value

A tibble of the most common openings with columns for the ECO code, opening name, and count of games.

rating_history	<i>Get a user's rating history</i>
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Description

Returns rating history for each game type (e.g., blitz, rapid).

Usage

```
rating_history(cl, username)
```

Arguments

<code>cl</code>	A <code>horse_client</code> .
<code>username</code>	A Lichess username.

Value

A tibble with columns `perf`, `rating`, `date`.

result_summary	<i>Summarize results (W/L/D) for a player</i>
----------------	---

Description

Produces win/loss/draw counts for a specified player

Usage

```
result_summary(games, player)
```

Arguments

games	Tibble returned by <code>export_games()</code> .
player	Username (required for accurate W/L/D).

Value

A tibble with one row containing the player name plus totals for games, wins, losses, and draws.

user	<i>Get a user's public profile</i>
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Description

Retrieves a public user profile from the Lichess API.

Usage

```
user(cl, username, tz = "UTC")
```

Arguments

cl	A <code>horsey_client</code> .
username	Lichess username.
tz	Time zone for the returned datetime fields. Defaults to "UTC".

Value

A tibble with selected fields, plus a raw list-column.

user_activity	<i>Get a user's activity feed</i>
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Description

Retrieves the activity feed for a user. This wrapper intentionally returns a minimal summary and includes the raw activity objects in a list-column.

Usage

```
user_activity(cl, username)
```

Arguments

cl	A horsey_client.
username	Lichess username.

Value

A tibble with one row per activity entry and a raw column.

winrate	<i>Compute win rate from exported games</i>
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Description

Computes a win rate from the tibble returned by [export_games\(\)](#).

Usage

```
winrate(games, player = NULL)
```

Arguments

games	Tibble returned by export_games() .
player	Optional username to compute perspective-correct results. If NULL, uses winner only and treats non-win as non-win.

Value

Win rate.

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