Package: oddsapi (via r-universe)

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Type Package

Title R Client for the 'odds-api.net' Sports Odds API

Version 0.1.0

Description Access sports, leagues, bookmakers, events, odds snapshots, line movement history, results and racing data from 'odds-api.net' <https://odds-api.net>. Provides authenticated requests, bounded retries, explicit cursor pagination and data frames for sports odds analysis.

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URL https://odds-api.net, https://github.com/odds-api/odds-api, https://github.com/odds-api/odds-api/tree/main/sdks/r

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`oddsapi-package` *oddsapi: R client for odds-api.net*

Description

Fetch sports betting odds, events, bookmaker catalogs, results and racing data from Odds API. Start with `odds_client()` and `odds_events()`, then convert a sports `odds_snapshot()` with `odds_table()`.

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See Also

https://odds-api.net, https://github.com/odds-api/odds-api, https://api.odds-api.net/v1/reference

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`odds_client` *Create an odds-api.net client*

Description

Connect to the sports odds API at https://odds-api.net. Credentials are sent in a redacted `X-API-Key` header, never in the query string.

Usage

```
odds_client(
  api_key = Sys.getenv("ODDS_API_KEY"),
  base_url = Sys.getenv("ODDS_API_BASE_URL", "https://api.odds-api.net/v1"),
  timeout = 30,
  max_tries = 3L
)
```

Arguments

api_key	API key. Defaults to ODDS_API_KEY. An empty string allows access to public endpoints such as /status.
base_url	API base URL. Defaults to ODDS_API_BASE_URL, or https://api.odds-api.net/v1. HTTPS is required except on loopback hosts.
timeout	Request timeout in seconds; a positive finite number.
max_tries	Maximum total attempts per request, from 1 to 10. Retries apply to HTTP 429, 502, 503 and 504, and connection failures.

Value

An odds_api_client object. Printing it hides the API key.

Examples

```
client <- odds_client(api_key = "")
client
```

---

odds_collect *Collect every page from a cursor endpoint*

Description

Pagination is explicit because each page is a separate API request and may consume credits. A repeated cursor or exhausted page budget raises an error instead of silently returning incomplete results. An empty page with a nonterminal cursor is followed, as required for odds snapshot scans.

Usage

```
odds_collect(client, path, ..., max_pages = 100L)
```

Arguments

client	A client created by odds_client().
path	Cursor endpoint: /events, /racing/events, or a sports event's /events/{event_id}/odds/snapshot path.
...	Named query filters, optionally including a starting cursor.
max_pages	Positive integer limit on requests (default 100).

Value

A list containing items, count, pages and next_cursor = NULL. Use odds_snapshot() for the original snapshot freshness/resume metadata; collected pages do not represent an atomic snapshot.

Examples

```
## Not run:
events <- odds_collect(odds_client(), "/events", league = "NBA", max_pages = 5)

## End(Not run)
```

`odds_endpoints` *Read sports, odds, results and account data*

Description

Thin wrappers around the public odds-api.net API. Responses remain nested lists; use `odds_table()` for a sports odds data frame. Each call requests one page. Use `odds_collect()` when the endpoint supports `next_cursor`. Consult `https://api.odds-api.net/v1/reference` for filters.

Usage

```
odds_sports(client)

odds_leagues(client, ...)

odds_bookmakers(client, ...)

odds_events(client, ...)

odds_event(client, event_id, ...)

odds_event_bookmakers(client, event_id)

odds_snapshot(client, event_id, ...)

odds_history(client, event_id, selection_key, ...)

odds_results(client, event_id)

odds_bets(client, ...)

odds_racing_events(client, ...)

odds_racing_event(client, event_id, ...)

odds_racing_snapshot(client, event_id, ...)

odds_me(client)

odds_usage(client)
```

```
odds_limits(client)

odds_status(client)
```

Arguments

client	A client created by odds_client().
...	Named API query filters, forwarded to odds_get().
event_id	Canonical event identifier, as returned by odds_events() or odds_racing_events().
selection_key	Stable selection identifier returned by an odds snapshot.

Value

Parsed JSON as nested R lists, including any pagination metadata.

Examples

```
## Not run:
client <- odds_client()
odds_sports(client)
odds_bookmakers(client, country_code = c("US", "AU"))
events <- odds_events(client, sport = "basketball", league = "NBA", limit = 10)
if (length(events$items)) {
  id <- events$items[[1]]$event_id
  snapshot <- odds_snapshot(client, id, types = "moneyline")
  odds_table(snapshot)
}

## End(Not run)
```

---

odds_get *Request a public API endpoint*

Description

Returns JSON as nested R lists, preserving pagination and snapshot metadata. Only GET requests are made. See the public API contract at https://api.odds-api.net/v1/reference for filters and response fields.

Usage

```
odds_get(client, path, ...)
```

Arguments

client	A client created by odds_client().
path	API-relative path, for example /events.
...	Named query parameters. Vectors become comma-separated filters, logical values become true/false, and NULL values are omitted.

Value

Parsed JSON, usually a list. HTTP 204 returns `NULL`. Failures raise `odds_api_error` with `status` (or `NA` for transport failures) and `retry_after` fields. Error messages do not echo credentials or server bodies.

Examples

```
## Not run:
client <- odds_client()
odds_get(client, "/events", sport = "basketball", league = "NBA", limit = 10)

## End(Not run)
```

`odds_table` *Convert a sports odds snapshot to a data frame*

Description

Preserves selection identifiers, decimal odds, missing values and line text. No prices are inferred and unavailable selections remain visible. This helper accepts sports odds, not the nested racing bookmaker/runner format.

Usage

```
odds_table(snapshot)
```

Arguments

`snapshot`	A response from `odds_snapshot()` or `odds_collect()` for a sports odds endpoint, containing an `items` list.

Value

A data frame with one row per odds record, stable column types and `NA` for absent values. `as_of_ts_ms` and `ttl_seconds` are attributes copied from a single-page snapshot, when present. Empty responses retain columns.

Examples

```
fixture <- system.file("extdata", "odds-snapshot.json", package = "oddsapi")
# The bundled fixture is synthetic and needs no API key.
snapshot <- httr2::resp_body_json(httr2::response(
  status_code = 200, headers = list(`content-type` = "application/json"),
  body = readBin(fixture, "raw", n = file.info(fixture)$size)))
odds_table(snapshot)
```

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