

Package ‘nysOpenData’

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Type Package

Title Convenient Access to NYS Open Data API Endpoints

Version 0.1.1

Description Provides helper functions to access datasets from the NYS Open Data platform <<https://data.ny.gov/>>. Functions return results as tidy tibbles and support optional filtering, sorting, and row limits via the Socrata API.

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Encoding UTF-8

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Imports dplyr, tibble, stringr, jsonlite, httr, janitor, rlang

Suggests curl, covr, knitr, testthat (>= 3.0.0), vcr, withr, webmockr, ggplot2

URL <https://martinezc1.github.io/nysOpenData/>,
<https://github.com/martinezc1/nysOpenData>

BugReports <https://github.com/martinezc1/nysOpenData/issues>

VignetteBuilder knitr

Config/testthat/edition 3

Depends R (>= 4.1.0)

NeedsCompilation no

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nys_any_dataset	<i>Load Any NYS Open Data Dataset</i>
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Description

Downloads any NYS Open Data dataset given its Socrata JSON endpoint.

Usage

```
nys_any_dataset(  
  json_link,  
  limit = 10000,  
  timeout_sec = 30,  
  clean_names = TRUE,  
  coerce_types = TRUE  
)
```

Arguments

json_link	A Socrata dataset JSON endpoint URL (e.g., "https://data.ny.gov/resource/28gk-bu58.json").
limit	Number of rows to retrieve (default = 10,000).
timeout_sec	Request timeout in seconds (default = 30).
clean_names	Logical; if TRUE, convert column names to snake_case (default = TRUE).
coerce_types	Logical; if TRUE, attempt light type coercion (default = TRUE).

Value

A tibble containing the requested dataset.

Examples

```
# Examples that hit the live nys Open Data API are guarded so CRAN checks  
# do not fail when the network is unavailable or slow.  
if (interactive() && curl::has_internet()) {  
  endpoint <- "https://data.ny.gov/resource/28gk-bu58.json"  
  out <- try(nys_any_dataset(endpoint, limit = 3), silent = TRUE)  
  if (!inherits(out, "try-error")) {  
    head(out)  
  }  
}
```

nys_list_datasets	<i>List datasets available in nysOpenData</i>
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Description

Retrieves the current Open NY catalog and returns datasets available for use with `'nys_pull_dataset()'`.

Usage

```
nys_list_datasets()
```

Details

Keys are generated from dataset titles using `'janitor::make_clean_names()'`.

Value

A tibble of available datasets, including generated `'key'`, dataset `'uid'`, and dataset `'title'`.

Examples

```
if (interactive() && curl::has_internet()) {  
  nys_list_datasets()  
}
```

nys_pull_dataset	<i>Pull a NYS Open Data dataset from the NYS Open Data catalog</i>
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Description

Uses a dataset `'key'` or `'uid'` from `'nys_list_datasets()'` to pull data from NYS Open Data.

Usage

```
nys_pull_dataset(  
  dataset,  
  limit = 10000,  
  filters = list(),  
  date = NULL,  
  from = NULL,  
  to = NULL,  
  date_field = NULL,  
  where = NULL,  
  order = NULL,  
  timeout_sec = 30,  
  clean_names = TRUE,  
  coerce_types = TRUE  
)
```

Arguments

dataset	A dataset key or UID from <code>'nys_list_datasets()'</code> .
limit	Number of rows to retrieve (default = 10,000).
filters	Optional named list of filters. Supports vectors (translated to <code>IN()</code>).
date	Optional single date (matches all times that day) using <code>'date_field'</code> .
from	Optional start date (inclusive) using <code>'date_field'</code> .
to	Optional end date (exclusive) using <code>'date_field'</code> .
date_field	Optional date/datetime column to use with <code>'date'</code> , <code>'from'</code> , or <code>'to'</code> . Must be supplied when <code>'date'</code> , <code>'from'</code> , or <code>'to'</code> are used.
where	Optional raw SoQL WHERE clause. If <code>'date'</code> , <code>'from'</code> , or <code>'to'</code> are provided, their conditions are AND-ed with this.
order	Optional SoQL ORDER BY clause.
timeout_sec	Request timeout in seconds (default = 30).
clean_names	Logical; if TRUE, convert column names to snake_case (default = TRUE).
coerce_types	Logical; if TRUE, attempt light type coercion (default = TRUE).

Details

Dataset keys are generated from dataset titles using `'janitor::make_clean_names()'`. Because keys are derived from live catalog metadata, dataset UIDs are the more stable option.

Value

A tibble.

Examples

```
if (interactive() && curl::has_internet()) {
  # Pull by key
  nys_pull_dataset("311_service_requests", limit = 3)

  # Pull by UID
  nys_pull_dataset("28gk-bu58", limit = 3)

  # Filters
  nys_pull_dataset("28gk-bu58", limit = 3, filters = list(award_name = "MBA"))
}
```

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