Package 'hystReet'

November 27, 2022

Type Package

Title Get Pedestrian Frequency Data from the 'Hystreet' Project

Date 2022-11-24

Version 0.0.3

Maintainer Johannes Friedrich <Johannes.Friedrich@posteo.de>

Description An R API wrapper for the 'Hystreet' project <https://hystreet.com>. 'Hystreet' provides pedestrian counts in different cities in Germany.

URL https://github.com/JohannesFriedrich/hystReet

BugReports https://github.com/JohannesFriedrich/hystReet/issues

License GPL-2

Depends R (>= 3.5.0), httr, jsonlite, lubridate

Suggests dplyr, ggplot2, htmltools, knitr, rmarkdown, scales

LazyData true

RoxygenNote 7.2.2

Encoding UTF-8

VignetteBuilder knitr

NeedsCompilation no

Author Johannes Friedrich [aut, cre]

Repository CRAN

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R topics documented:

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hystReet-package   *hystReet*

Description

An R API wrapper for the hystreet project. Download and analyse environmental data provided by
https://hystreet.com/

Details

Package:	hystReet
Type:	Package
Version:	0.0.3
Date:	2022-11-24
License:	GPL-2

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corona_data_all   *Downloaded data for the vignette*

Description

Downloaded data for the vignette

Format

data.frame with all available stations in March 2020

Author(s)

Johannes Friedrich

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data_73_74 *Downloaded data for the vignette*

Description

Downloaded data for the vignette

Format

data.frame with pedestrians counta from January 2019

Author(s)

Johannes Friedrich

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get_hystreet_locations

Get station IDs of the Hystreet project

Description

Get station IDs of the Hystreet project

Usage

```
get_hystreet_locations(API_token = NULL)
```

Arguments

API_token   [character](optional): API key to get access to Hystreet API

Value

data.frame with parsed data from hystreet API

Function version

0.0.2

Author(s)

Johannes Friedrich

Examples

```
## Not run:
 get_hystreet_locations()

## End(Not run)
```

get_hystreet_station_data
Get data from a specific location from the Hystreet Project via Hystreet API

Description

Get data from a specific location from the Hystreet Project via Hystreet API

Usage

```
get_hystreet_station_data(
  hystreetId = NULL,
  query = NULL,
  no_metadata = FALSE,
  API_token = NULL
)
```

Arguments

hystreetId	integer (**required**): ID of the requested station. See get_hystreet_locations() for an overview of available IDs.
query	list (**optional**): A list with queries. Up do date the following queries are supported:

- from: datetime of earliest measurement (default: today 00:00:00:): e.g. "2018-10-01 12:00:00" or "2018-10-01"
- to : datetime of latest measurement (default: today 23:59:59): e.g. "2018-01-12 12:00:00" or "2018-12-01"
- resolution: Resolution for the measurement grouping (default: hour): "day", "hour", "month", "week"

no_metadata	logical (**optional**): If set to TRUE, the result contains no meta data but only a clean data frame with the measurements of the requested station. Defaults to FALSE.
API_token	character (**optional**): API key to get access to Hystreet API

Value

data.frame with parsed data from hystreet API

Function version

0.0.3

Author(s)

Johannes Friedrich, Yannik Buhl

Examples

```
## Not run:
## request data of the current day of station with hystreetId 71
get_hystreet_station_data(71)

## request data of December 2018 with resolution "day"
get_hystreet_station_data(
   hystreetId = 71,
   query = list(from = "2018-12-01", to = "2018-12-31", resolution = "day"))

## End(Not run)
```

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get_hystreet_stats   *Get statistics from the Hystreet Project via Hystreet API*

Description

Get statistics from the Hystreet Project via Hystreet API

Usage

```
get_hystreet_stats(verbose = FALSE, API_token = NULL)
```

Arguments

verbose   logical (**optional**): Show more verbose output?

API_token   character (**optional**): API key to get access to Hystreet API

Value

data.frame with parsed data from hystreet API

Function version

0.0.2

Author(s)

Johannes Friedrich

Examples

```
## Not run:
 get_hystreet_stats(TRUE)

## End(Not run)
```

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locations   *Downloaded data for the vignette*

Description

Downloaded data for the vignette

Format

data.frame with all available locaations (03/27/2020)

Author(s)

Johannes Friedrich

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location_71   *Downloaded data for the vignette*

Description

Downloaded data for the vignette

Format

list with results from location 71 in december 2018

Author(s)

Johannes Friedrich

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ratio   *Downloaded data for the vignette*

Description

Downloaded data for the vignette

Format

data.frame with pedestrians counta/day

Author(s)

Johannes Friedrich

read_hystreet_csv	*Read downloaded data from the hystreet webpage to data.frames*

Description

Read downloaded data from the hystreet webpage to data.frames

Usage

```
read_hystreet_csv(path, ...)
```

Arguments

path	character (**required**): path to the downloaded csv file
...	(**optional**): arguments passed to utils::read.csv2()

Value

data.frame with parsed data from hystreet API

Function version

0.0.1

Author(s)

Johannes Friedrich

Examples

```
## Not run:
## read data from downloaded csv file data
df <- hystReet::read_hystreet_csv("~/Downloads/hystreet.csv")


## End(Not run)
```

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set_hystreet_token   *Set your API token for the Hystreet API*

Description

Set your API token for the Hystreet API

Usage

```
set_hystreet_token(API_token = NULL)
```

Arguments

API_token   [character](#) (**required**): API key to get access to Hystreet API

Value

Set environment variable

Function version

0.0.1

Author(s)

Johannes Friedrich

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