Package 'eudata'

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Type Package

Title Access Data from 'GISCO'

Version 0.1.2

Description Access data related to the European union from 'GISCO' <https://ec.europa.eu/eurostat/web/gisco>, the Geographic Information System of the European Commission, via its rest API at <https://gisco-services.ec.europa.eu>.
This package tries to make it easier to get these data into R.

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Encoding UTF-8

Depends R (>= 4.1.0)

Imports dplyr, fs, httr2, purrr, tibble, cli, rappdirs

Suggests knitr, rmarkdown, ggplot2, sf, glue

RoxygenNote 7.3.2

VignetteBuilder knitr

URL https://github.com/prokaj/eudata

BugReports https://github.com/prokaj/eudata/issues

NeedsCompilation no

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`get_content` *Get content from the API*

Description

This function retrieves the content from the API and saves it to a file if ‘save_to_file‘ is TRUE.

Usage

```
get_content(
  api,
  end_point,
  save_to_file = FALSE,
  dest = if (save_to_file) fs::path_file(end_point) else NULL
)
```

Arguments

`api`	An endpoint to the dataset.
`end_point`	A character vector of the endpoint to retrieve content from.
`save_to_file`	A logical value indicating whether to save the content to a file
`dest`	A character vector specifying the destination file path. If ‘save_to_file‘ is TRUE, this should be a valid file path.

Value

A ‘httr2‘ response object. The content retrieved from the API is either the ‘body‘ of response or the path to the file when ‘save_to_file‘ is TRUE.

Examples

```
api <- get_topic("Postal")
files <- get_latest_files(api)$csv
file_to_download <- grep("_4326", files, value=TRUE)
response <- get_content(
  api,
  file_to_download,
  save_to_file = TRUE,
  dest = fs::file_temp(ext = "csv")
)
response$body
```

get_content_length *Get the content length of a file to download*

Description

This function retrieves the content length of a file to be downloaded from the API.

Usage

```
get_content_length(api, file_to_download)
```

Arguments

api	An endpoint to the dataset variants.
file_to_download	A character vector of file names to download.

Value

An integer vector of content lengths, named by the file names.

Examples

```
api <- get_topic("Postal")
files <- get_latest_files(api)$csv
purrr::map(
  files,
  get_content_length,
  api = api) |>
  tibble::as_tibble()
```

get_datasets *Retrieve available datasets from an endpoint*

Description

This function returns the list of available datasets as a tibble. The columns of the tibble provide information about each dataset.

Usage

```
get_datasets(api)
```

Arguments

api	An endpoint

Value

A tibble of available datasets.

Examples

```
get_topic("Coastal lines") |>
  get_datasets()
```

`get_latest_files` *Retrieve the latest files from the API*

Description

This function retrieves the files belonging to the latest version of the given dataset. When the dataset is not updated the cached version is returned.

Usage

```
get_latest_files(api)
```

Arguments

`api`	An endpoint to the dataset.

Value

A named list of files.

Examples

```
get_latest_files(get_topic("Postal"))$csv
```

`get_topic` *Retrieve Topic Information*

Description

This function fetches the details of a specific topic based on the provided topic name.

Usage

```
get_topic(topic)
```

Arguments

`topic`	A string representing the topic to retrieve.

Value

A request object to the specific endpoint.

Examples

```
get_topic("Coastal lines")
get_topic("Postal")
```

`get_topics` *Retrieve Topics from API*

Description

Retrieves a list of topics from the specified API endpoint 'https://gisco-services.ec.europa.eu/distribution/v2/'.

Usage

```
get_topics()
```

Details

This function sends a request to the given API endpoint and parses the response to extract topic information.

Value

A tibble the topics retrieved from the API.

Examples

```
# Retrieve topics from the default endpoint
topics <- get_topics()
```

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