

Package ‘BFS’

September 7, 2022

Type Package

Title Get Data from the Swiss Statistical Office

Version 0.4.3

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Description Search and download data from the Swiss Federal Statistical Office (BFS) <<https://www.bfs.admin.ch/>>.

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Depends R (>= 3.0.1)

Imports pxweb, jsonlite, xml2, rvest, tibble, magrittr, janitor,
lifecycle, tidyRSS

Encoding UTF-8

RoxygenNote 7.1.2

URL <https://felixluginbuhl.com/BFS/>, <https://github.com/lgnbhl/BFS/>

BugReports <https://github.com/lgnbhl/BFS/issues>

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

NeedsCompilation no

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Repository CRAN

Date/Publication 2022-09-07 07:50:21 UTC

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bfs_get_catalog	<i>Get the BFS data catalog</i>
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Description

This function scraps a given RSS Feed of the Swiss Federal Statistical Office.

Usage

```
bfs_get_catalog(language = "de", type = "data")
```

Arguments

language	character	The language of a BFS catalog.
type	character	A BFS catalog

Value

A data frame

See Also

[bfs_get_data](#)

Examples

```
bfs_get_catalog(language = "de", type = "data")
```

bfs_get_catalog_data	<i>Get the BFS data catalog</i>
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Description

This function scraps the RSS Feed of the Swiss Federal Statistical Office data catalog.

Usage

```
bfs_get_catalog_data(language = "de")
```

Arguments

language	character	The language of a BFS catalog.
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Value

A data frame

A `tbl_df` (a type of data frame; see `tibble` or `dplyr` packages).

title A character column with the title of the BFS dataset

language A character column with the language of the BFS dataset

published A character column with a number for the text from each Wikisource page downloaded

url_bfs A character column with the URL of the related BFS webpage

url_px A character column with the URL of the PX file

See Also

[bfs_get_data](#)

Examples

```
bfs_get_catalog_data(language = "de")
```

```
bfs_get_catalog_tables
```

Get the BFS tables catalog

Description

This function scrapes the RSS Feed of the Swiss Federal Statistical Office tables catalog. The tables are mostly datasets that are accessible as Excel files.

Usage

```
bfs_get_catalog_tables(language = "de")
```

Arguments

`language` character The language of a BFS catalog.

Value

A data frame

A `tbl_df` (a type of data frame; see `tibble` or `dplyr` packages).

title A character column with the title of the BFS dataset

language A character column with the language of the BFS dataset

published A character column with a number for the text from each Wikisource page downloaded

url_bfs A character column with the URL of the related BFS webpage

url_table A character column with the URL of the file

Examples

```
bfs_get_catalog_tables(language = "de")
```

bfs_get_data

Download BFS data in a given language

Description

Download a dataset using the BFS official API v1. You should choose either the bfs number of the bfs official url of a given dataset. You can query particular variables using the 'query' argument.

Usage

```
bfs_get_data(
  url_bfs = NULL,
  language = "de",
  number_bfs = NULL,
  query = "all",
  column_name_type = "text",
  variable_value_type = "text",
  clean_names = FALSE
)
```

Arguments

url_bfs	The URL page of a dataset.
language	Language of the dataset to be translated if exists.
number_bfs	The BFS number of a dataset.
query	a list with named values, a json query file or json query string using <code>pxweb::pxweb_query()</code> .
column_name_type	column name type as "text" or as "code".
variable_value_type	variable value type as "text" or as "code".
clean_names	Clean column names using <code>janitor::clean_names()</code> .

Value

A `tbl_df` (a type of data frame; see `tibble` or `dplyr` packages).

See Also

[bfs_get_data_comments](#)

bfs_get_dataset	<i>Download a BFS dataset in a given language</i>
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Description

Download a dataset using the BFS official API v1. You should choose either the bfs number of the bfs official url of a given dataset. You can query particular variables using the 'query' argument.

Usage

```
bfs_get_dataset(  
  url_bfs = NULL,  
  language = "de",  
  number_bfs = NULL,  
  query = "all",  
  column_name_type = "text",  
  variable_value_type = "text",  
  clean_names = FALSE  
)
```

Arguments

url_bfs	The URL page of a dataset.
language	Language of the dataset to be translated if exists.
number_bfs	The BFS number of a dataset.
query	a list with named values, a json query file or json query string using <code>pxweb::pxweb_query()</code> .
column_name_type	column name type as "text" or as "code".
variable_value_type	variable value type as "text" or as "code".
clean_names	Clean column names using <code>janitor::clean_names()</code> .

Value

A `tbl_df` (a type of data frame; see `tibble` or `dplyr` packages).

See Also

[bfs_get_catalog](#)

bfs_get_data_comments *Get the comments/footnotes of a BFS dataset in a given language*

Description

Get the comments/footnotes of a BFS dataset in a given language

Usage

```
bfs_get_data_comments(  
  url_bfs = NULL,  
  language = "de",  
  number_bfs = NULL,  
  query = "all",  
  clean_names = FALSE  
)
```

Arguments

url_bfs	The URL page of a dataset.
language	Language of the dataset to be translated if exists.
number_bfs	The BFS number of a dataset.
query	a list with named values, a json query file or json query string using <code>pxweb::pxweb_query()</code> .
clean_names	Clean column names using <code>janiitor::clean_names()</code>

Value

A `tbl_df` (a type of data frame; see `tibble` or `dplyr` packages).

See Also

[bfs_get_data](#)

bfs_get_metadata *Download BFS metadata in a given language*

Description

Returns a tibble containing the titles, publication dates, observation periods, data source, metadata webpage urls and download link urls in a given language of the current public BFS datasets available.

Usage

```
bfs_get_metadata(language = "de")
```

Arguments

language character The language of the metadata.

Value

A tibble

See Also

[bfs_get_dataset](#)

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