

Package ‘BFS’

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Type Package

Title Get Data from the Swiss Statistical Office

Version 0.4.8

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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, httr2, xml2, rvest, tibble, magrittr, janitor, tidyRSS, purrr

Encoding UTF-8

RoxygenNote 7.2.3

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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bfs_get_catalog *Get the BFS data catalog*

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 *Get the BFS data catalog*

Description

Get the list of the data available in the official **RSS Feed** of the Swiss Federal Statistical Office data catalog.

Usage

```
bfs_get_catalog_data(  
  language = "de",  
  title = NULL,  
  spatial_division = NULL,  
  prodima = NULL,  
  inquiry = NULL,  
  institution = NULL,  
)
```

```

    publishing_year_start = NULL,
    publishing_year_end = NULL,
    order_nr = NULL,
    skip_limit = TRUE
  )

```

Arguments

language	character	The language of a BFS catalog, i.e. "de", "fr", "it" or "en".
title	character	String to search in title, subtitle and supertitle
spatial_division		BFS datasets by spatial division, choose between "Switzerland", "Cantons", "Districts", "Communes", "Other spatial divisions" or "International"
prodima	numeric	Get only specific BFS themes using one or multiple prodima numbers
inquiry	character	BFS datasets for an inquiry
institution	character	BFS datasets for an institution
publishing_year_start	character	BFS datasets for a publishing year start
publishing_year_end	character	BFS datasets for a publishing year end
order_nr	character	Filter by BFS Number (FSO number)
skip_limit	boolean	skip limit, TRUE or FALSE

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

publication_date The published date of the BFS dataset in the data catalog

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

guid Globally Unique Identifier from the item from the RSS document

catalog_date The released date of the current BFS data catalog

See Also

[bfs_get_data](#)

Examples

```
bfs_get_catalog_data(language = "en", title = "students", prodima = c(900212))
```

bfs_get_catalog_tables

Get the BFS tables catalog

Description

Get the list of the tables available in the official **RSS Feed** of the Swiss Federal Statistical Office tables catalog.

Usage

```
bfs_get_catalog_tables(
  language = "de",
  title = NULL,
  spatial_division = NULL,
  prodima = NULL,
  inquiry = NULL,
  institution = NULL,
  publishing_year_start = NULL,
  publishing_year_end = NULL,
  order_nr = NULL,
  skip_limit = TRUE
)
```

Arguments

language	character	The language of a BFS catalog, i.e. "de", "fr", "it" or "en".
title	character	String to search in title, subtitle and supertitle
spatial_division		BFS datasets by spatial division, choose between "Switzerland", "Cantons", "Districts", "Communes", "Other spatial divisions" or "International"
prodima	numeric	Get only specific BFS themes using one or multiple prodima numbers
inquiry	character	BFS datasets for an inquiry
institution	character	BFS datasets for an institution
publishing_year_start	character	BFS datasets for a publishing year start
publishing_year_end	character	BFS datasets for a publishing year end
order_nr	character	Filter by BFS Number (FSO number)
skip_limit	boolean	skip limit, TRUE or FALSE

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

publication_date The published date of the BFS dataset in the tables catalog

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

url_table A character column with the URL of the PX file

guid Globally Unique Identifier from the item from the RSS document

catalog_date The released date of the current BFS tables catalog

See Also

[bfs_get_data](#)

Examples

```
bfs_get_catalog_tables(language = "en", title = "students", prodima = c(900212))
```

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

Arguments

number_bfs	The BFS number of a dataset.
language	Language of the dataset to be translated if exists, i.e. "de", "fr", "it" or "en".
url_bfs	The URL page 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_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(
  number_bfs = NULL,
  language = "de",
  url_bfs = NULL,
  query = NULL,
  clean_names = FALSE
)
```

Arguments

number_bfs	The BFS number of a dataset.
language	Language of the dataset to be translated if exists, i.e. "de", "fr", "it" or "en".
url_bfs	The URL page 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>janitor::clean_names()</code>

Value

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

See Also

[bfs_get_data](#)

<code>bfs_get_metadata</code>	<i>Get metadata of a BFS data in a given language</i>
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Description

Get the metadata of a BFS dataset using the BFS official API v1. You should choose either the `bfs` number of the bfs official url of a given dataset.

Usage

```
bfs_get_metadata(url_bfs = NULL, language = "de", number_bfs = NULL)
```

Arguments

<code>url_bfs</code>	The URL page of a dataset.
<code>language</code>	Language of the dataset to be translated if exists.
<code>number_bfs</code>	The BFS number of a dataset.

Value

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

Examples

```
bfs_get_metadata(number_bfs = "px-x-2105000000_501", language = "fr")
```

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