

Package ‘fedz1’

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Title An Easier Access to Financial Accounts of the United States(Z.1)

Version 0.1.0

Description Flow of funds are financial accounts that are provided by Federal Reserve quarterly. The package contains all datasets <<https://www.federalreserve.gov/datadownload/Choose.aspx?rel=z1>>, tables <<https://www.federalreserve.gov/apps/fof/FOFTables.aspx>> and descriptions <https://www.federalreserve.gov/apps/fof/Guide/z1_tables_description.pdf> with functions to understand series <<https://www.federalreserve.gov/apps/fof/SeriesStructure.aspx>> and explore them.

URL <https://github.com/shaf1430/fedz1>

BugReports <https://github.com/shaf1430/fedz1/issues>

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Encoding UTF-8

Depends R (>= 2.10)

LazyData true

RoxygenNote 6.1.1

Suggests testthat

NeedsCompilation no

Author Hamid Shafiezadeh [aut, cre]

Maintainer Hamid Shafiezadeh <shafiezadehhamid@gmail.com>

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all_tables_title	<i>Title of tables</i>
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Description

all_tables_title() returns title of all tables. It is helpful to get familiar with available tables. Each table contains a number of data set.

Usage

```
all_tables_title()
```

Value

A tibble of title of all tables

See Also

<https://www.federalreserve.gov/apps/fof/FOFTables.aspx>

Examples

```
all_tables_title()
```

get_series	<i>Data</i>
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Description

The function returns data series or tables. Due to CRAN package size requirements, the data is stored on github.

Usage

```
get_series(choice = c("series", "tables"))
```

Arguments

choice can be "series" or "tables"

Details

`get_series()` load entire series or tables. For example: `get_series(choice="series")` `series_data` contains all series available in flow of funds and `tables_data` contains all tables and series

Value

series or tables

series_data

- `date` - Time-period
- `value` - Observed-Value
- `SERIES_NAME` - name of a series. There are more than twenty thousands series exist
- `CURRENCY` - USD or NA. NA means series is percent or index
- `SERIES_PREFIX` - Each prefix letters indicate the series type. see `fedz1:::meaning_of_prefix()`
- `UNIT` - Currency, percent or index
- `UNIT_MULT` - 1,1,000 or 1,000,000
- `short description` _ description of the series
- `FREQ` - A:annually data; Q:quarterly data

tables_data

- `tname` - name of a table
- `SERIES_NAME` - name of a series. There are more than twenty thousands series exist
- `Description` - Long Description of series
- `date` - Time-period
- `value` - Observed-Value
- `UNIT` - Currency, percent or index

See Also

<https://www.federalreserve.gov/datadownload/Choose.aspx?rel=z1>

<https://www.federalreserve.gov/apps/fof/FOFTables.aspx>

meaning_of_prefix	<i>Definition of series prefix</i>
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Description

meaning_of_prefix() returns definition of series. Each series start with two letters. Each prefix letters indicate the series type.

Usage

```
meaning_of_prefix(prefix)
```

Arguments

prefix	is SERIES_PREFIX. Value could be FA, FC, FG, FI, FL, FR, FS, FU, FV, LA, LM, PC.
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Value

character for definition of series

See Also

<https://www.federalreserve.gov/apps/fof/SeriesStructure.aspx>

Examples

```
meaning_of_prefix("FL")
```

mprefix	<i>Meaning of prefix</i>
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Description

Each prefix letters indicate the series type

Usage

```
mprefix
```

Format

```
mprefix
```

A data frame with 12 rows and 2 columns:

SERIES_PREFIX prefix of series

meaning meaning of a prefix

Source

<https://www.federalreserve.gov/apps/fof/SeriesStructure.aspx>

prds	<i>Title of series with a short description</i>
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Description

Data is obtained from a web scraping from flow of funds website

Usage

prds

Format

prds

A data frame with 11,291 rows and 2 columns:

title1 series name

short description description of the series

Source

<https://www.federalreserve.gov/datadownload/Choose.aspx?rel=z1>

search_series	<i>search series</i>
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Description

search_series() return all series with the search. For example: search_series("Real estate investment trusts")

Usage

search_series(series)

Arguments

series is SERIES name

Value

A tibble of series

search_tables	<i>search tables</i>
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Description

search_tables() return series associated with a table

Usage

```
search_tables(tables)
```

Arguments

tables is table name

Value

A tibble of series in a table

Examples

```
search_tables("Nonfinancial Corporate Business")
```

table_descr	<i>Description of a table</i>
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Description

table_descr() return the definition of a table. Each table contains a number of data set.

Usage

```
table_descr(table_title)
```

Arguments

table_title is name of a single table or vector of multiple tables. You can obtain title of tables by all_tables_title()

Value

character for definition of a table(s)

See Also

https://www.federalreserve.gov/apps/fof/Guide/z1_tables_description.pdf

Examples

```
table_descr('Credit Unions')
table_descr(c('Net Capital Transfers', "Closed-End Funds"))
```

table_detail	<i>Title of tables</i>
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Description

Data is obtained from a web scraping from Financial Accounts Guide

Usage

```
table_detail
```

Format

```
table_detail
```

A data frame with 198 rows and 3 columns:

summary title as shows on the source website

name title of the table

code code of each table as shows on the source website

Source

<https://www.federalreserve.gov/apps/fof/FOFTables.aspx>

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