Package 'sophisthse'

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Type Package

Title Load Russian Economic Indicators from the Archive of Economic and Social Data

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Author Boris Demeshev

Maintainer Boris Demeshev <boris.demeshev@gmail.com>

Depends R (>= 2.10)

Imports XML, RCurl, zoo, dplyr (>= 0.2), stringr

Description Load Russian economic indicators from the Archive of Economic and Social Data <http://sophist.hse.ru/>.

License GPL-3

LazyData true

RoxygenNote 5.0.1

Suggests knitr, rmarkdown, forecast (>= 7.0)

VignetteBuilder knitr

NeedsCompilation no

Repository CRAN

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R topics documented:

`decyrillic` *Replace cyrillic letters by corresponding latin letters*

Description

Replace cyrillic letters by corresponding latin letters

Usage

```
decyrillic(x)
```

Arguments

`x`	the character vector

Details

Replace cyrillic letters by corresponding latin letters

Value

clean character vector

Examples

```
sophisthse:::decyrillic(intToUtf8(1057))
```

`get_stat_hse_info_vector` *Obtain additional information for specific time series*

Description

Obtain additional information for specific time series from sophist.hse.ru

Usage

```
get_stat_hse_info_vector(series.name = "IP_EA_Q", n.vars = 1,
  info = c("methodology", "source", "comment"), ...)
```

Arguments

series.name	the names of the time series
n.vars	number of variables
info	type of information (methodology/source/comment)
...	further arguments passed into getURL. One may use them to work with proxy.

Details

Internal function. Obtain additional information for specific time series from sophist.hse.ru. Either 'methodology', 'source' or 'comment'.

Value

character vector with info for each variable

Examples

```
info <- sophisthse:::get_stat_hse_info_vector('IP_EA_Q', 1, 'methodology')
```

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hhi_q_i *Quarterly Russian real money income*

Description

A dataset containing real money income index and per capita real income. Source: http://sophist.hse.ru/hse/nindex.shtml. Downloaded on 18.02.2016.

Usage

```
hhi_q_i
```

Format

A zooreg object with 93 rows and 3 variables:

HHI_Q_DIRI Index of real money income. 1992 IV = 100

HHI_Q_DIRI_SA Seasonally adjusted index of real money income. 1992 IV = 100

HHI_Q Real money income per capita

Source

downloaded with sophisthse("HHI_Q_I") command

remove_slash_junk *Remove slash junk*

Description

Remove slash junk

Usage

```
remove_slash_junk(x)
```

Arguments

x	the character vector

Details

Remove slash junk

Value

clean character vector

Examples

```
sophisthse:::remove_slash_junk('xxx \n yyy')
```

rus2num *Convert string with a number in Russian tradition in numeric*

Description

This function is useful for automatic conversion of strings to numeric

Usage

```
rus2num(x)
```

Arguments

x	the string with the number

Details

Russian standards prescribes to use comma as a decimal separator. This function removes spaces and converts string to number.

Value

numeric the number converted from the string

Examples

```
rus2num('34 345,34')
```

`series2tables` *Get table name from time series name*

Description

Get table name from time series name

Usage

```
series2tables(ts_names)
```

Arguments

`ts_names`	character vector of time series or table names

Details

On sophist.hse.ru time series are stored in tables. The package download whole tables and not individual time series. When user requests time series we need to know corresponding table name.

Value

character vector of corresponding table names

Examples

```
series2tables("M2_Y")
```

series_info *Description of time series available at sophist.hse.ru*

Description

A dataset containing description of time series available at http://sophist.hse.ru/hse/nindex.shtml. Downloaded on 15.06.2016.

Usage

```
series_info
```

Format

data.frame with 384 rows and 8 columns:

table name of table that contains time series

tsname short time series name

freq frequency, 1 for yearly, 4 for quarterly, 12 for monthly data

unit measurement unit

fullname full time series name

methodology methodology of calculation

source source of time series

comments further comments for time series

Source

downloaded from http://sophist.hse.ru/hse/nindex.shtml on 15.06.2016

set_variable_labels *Set variable labels of a data.frame*

Description

Set variable labels of a data.frame

Usage

```
set_variable_labels(df, labels)
```

Arguments

df	data.frame
labels	character vector of variable names

Details

Set variable labels of a data.frame. They will be nicely visible with ‘View()‘ in Rstudio.

Value

data.frame with labelled variables

Examples

```
cars2 <- set_variable_labels(cars,
  labels = c("Speed (mph)", "Stopping distance (ft)"))
```

`sophisthse` *Obtain multivariate time series from sophist.hse.ru*

Description

This function obtains multivariate time series from sophist.hse.ru

Usage

```
sophisthse(series.name = "IP_EA_Q", output = c("ts", "zoo", "data.frame"),
  ...)
```

Arguments

`series.name`	the names of the time series, i.e. ’WAG_Y’
`output`	the desired output format, either ’ts’, ’zoo’ or ’data.frame’
`...`	further arguments passed into getURL. One may use them to work with proxy.

Details

The output may be choosen to be ’ts’, ’zoo’ or ’data.frame’. Metadata is saved into the attribute ’metadata’.

Value

data.frame with the corresponding time series

Examples

```
df <- sophisthse('IP_EA_Q')
df <- sophisthse('WAG_Y')
```

sophisthse0 *Obtain time series from sophist.hse.ru*

Description

This function obtains univariate time series from sophist.hse.ru

Usage

```
sophisthse0(series.name = "IP_EA_Q", ...)
```

Arguments

series.name	the names of the time series, i.e. 'WAG_Y'
...	further arguments passed into getURL. One may use them to work with proxy.

Details

The output may be choosen to be 'ts', 'zoo' or 'data.frame'. Metadata is saved into the attribute 'metadata'.

Value

data.frame with the corresponding time series

Examples

```
df <- sophisthse0('IP_EA_Q')
df <- sophisthse0('WAG_Y')
```

sophisthse_metadata *Get metadata from downloaded time series*

Description

Get metadata from downloaded time series

Usage

```
sophisthse_metadata(df)
```

Arguments

df	downloaded multivariate time series or data.frame

Details

Get metadata from downloaded time series

Value

data.frame with information

Examples

```
df <- sophisthse0('WAG_Y')
sophisthse_metadata(df)
```

`sophisthse_tables` *Construct a vector of all the available tables*

Description

Construct a vector of all the available tables

Usage

```
sophisthse_tables(...)
```

Arguments

...	further arguments passed into getURL. One may use them to work with proxy.

Details

Construct a vector of all the available tables. For the moment contains an error. BRDATA is a table of tables :) And also some regional data cannot be parsed.

Value

vector of all the available tables

Examples

```
sophisthse_tables()
```

Index