Package 'SNBdata'

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Type Package
Title Download Data from the Swiss National Bank (SNB)
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Description Download data (tables and datasets) from the Swiss National Bank (SNB; ">https://w
Suggests jsonlite, zoo
License GPL-3
<pre>URL http://enricoschumann.net/R/packages/SNBdata/,</pre>
https://git.sr.ht/~enricoschumann/SNBdata
LazyLoad yes
NeedsCompilation no
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SNBdata

Download Data from the Swiss National Bank (SNB)

Description

Download data ('tables' and 'datasets') from the Swiss National Bank (SNB) and convert to data-frames.

Usage

```
fetch_data(id,
           type = "table", dest.dir = NULL,
           return.class = NULL, verbose = TRUE,
           language = "en",
           name.sep = " :: ",
           method,
           na.drop = TRUE,
           time.series = FALSE, ...)
fetch_last_update(id,
                  type = "table", dest.dir = NULL,
                  verbose = TRUE, language = "en", ...)
fetch_info(id,
           type = "table", dest.dir = NULL,
           verbose = TRUE,
           language = "en",
           name.sep = " :: ",
           method, ...)
```

time.series is TRUE.

Arguments

dest.dir file path: where to store the downloaded files? See Details. string: identifier of the table/dataset id string: 'table' or 'dataset' type method see download.file verbose logical: print messages, e.g. about download progress? NULL or character: not yet implemented (but in future versions, zoo will be return.class supported) language string: en, fr or de passed on to read. table . . . string used when pasting description hierarchies name.sep time.series logical. If TRUE, data are transformed into time-series. logical. If TRUE, rows with no finite values at all are dropped. Only used if na.drop

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Details

The Swiss National Bank (SNB) provides data as either so-called tables or datasets. fetch_table can handle both, but the type argument must be specified.

fetch_table downloads data, which typically are in CSV format, from the SNB's website and stores them, with a date prefix, in directory dest.dir. If the latter is NULL, a temporary directory is used (through tempdir); but much better is to use a more-persistent storage location. If a file with today's date exists in dest.dir, that file is read, and nothing is downloaded.

For downloading, function download.file is used. See download.file for options; in particular, see the hints about timeout when downloading large files.

When argument time.series is TRUE, fetch_table will rearrange the data into time-series. This requires columns named "Date" and "Value" in the particular dataset/table. If the "Date" column has a YYYY-MM-DD pattern, it will will be transformed with as.Date.

Value

typically a data. frame, potentially with attributes additional attributes:

info information about identifiers used by the SNB

columns if time.series is TRUE, the names of the columns used for grouping the rows

Should the download fail, the function returns NULL invisibly.

Author(s)

Enrico Schumann

References

```
https://data.snb.ch/en
for help on the API, seehttps://data.snb.ch/en/help#data_api
```

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