

# Package ‘siebanxicor’

October 30, 2018

**Type** Package

**Title** Query Data Series from Bank of Mexico

**Version** 1.0.0

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**Description** Allows to retrieve time series of all indicators available in the Bank of Mexico's Economic Information System (<<http://www.banxico.org.mx/SieInternet/>>).

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 6.1.0

**Imports** httr, jsonlite

**Suggests** knitr, rmarkdown

**NeedsCompilation** no

**Repository** CRAN

**Date/Publication** 2018-10-30 16:40:02 UTC

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getSerieDataFrame      *Get a data.frame from an series Vector*

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### Description

This is an utility function, it allows to obtain a data.frame from the vector returned by [getSeriesData](#).

### Usage

```
getSerieDataFrame(series, idSerie)
```

### Arguments

`series`              A vector containing data series. This is the vector returned by [getSeriesData](#).  
`idSerie`             A string identifying the series required, it can only be one.

### Value

A data.frame containing the required data series.

### Examples

```
## Not run:  
## You need a valid token to run the example  
setToken("token")  
  
series <- getSeriesMetadata(c("SF43718", "SF46410", "SF46407"))  
  
serie <- getSerieDataFrame(series, "SF43718")  
  
## End(Not run)
```

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getSeriesCurrentValue      *Time series current value*

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### Description

Recovers last value of the indicated time series (up to 100) from [SIE](#).

### Usage

```
getSeriesCurrentValue(series)
```

**Arguments**

series            A vector containing idSeries

**Details**

This function queries the last value of each series requested. This value corresponds to the last one published by Banco de México.

The data series are queried through the [SIE API](#). This API requires that every request is identified by a token. The token can be requested [here](#). Once the query token has been obtained and prior to use any function from this Package, the token must be set in the current query session, using the function `setToken`.

**Value**

A data.frame containing the data series requested.

**Examples**

```
## Not run:
## You need a valid token to run the example
setToken(token)
idSeries <- c("SF43718", "SF46410", "SF46407")
seriesDataFrame <- getSeriesCurrentValue(idSeries)

serieDataFrame <- getSeriesCurrentValue("SF43718")

## End(Not run)
```

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getSeriesData	<i>Query time series</i>
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**Description**

Recovers data of the indicated time series (up to 100) from [SIE](#).

**Usage**

```
getSeriesData(series, startDate = NULL, endDate = NULL)
```

**Arguments**

series            A vector containing idSeries

startDate        A string with "yyyy-MM-dd" format. Defines the date on which the period of obtained data starts.

endDate         A string with "yyyy-MM-dd" format. Defines the date on which the period of obtained data concludes.

## Details

The data series are queried through the [SIE API](#). This API requires that every request is identified by a token. The token can be requested [here](#). Once the query token has been obtained and prior to use any function from this Package, the token must be set in the current query session, using the function `setToken`.

To get a data.frame representing one data series use `getSerieDataFrame`.

## Value

A vector containing the data series requested.

## Examples

```
## Not run:
## You need a valid token to run the example
setToken("token")
idSeries <- c("SF43718", "SF46410", "SF46407")
series <- getSeriesData(idSeries, '2016-01-01', '2018-07-12')

serie <- getSeriesData("SF43718")

## End(Not run)
```

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getSeriesMetadata	<i>Query time series metadata</i>
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## Description

Recovers metadata of the indicated time series (up to 100) from [SIE](#).

## Usage

```
getSeriesMetadata(series, locale = "en")
```

## Arguments

series	A vector containing idSeries.
locale	A string defining the language of the metadata. It can be obtained either in English ("en") or Spanish ("es").

## Details

The series metadata are queried through the [SIE API](#). This API requires that every request is identified by a token. The token can be requested [here](#). Once the query token has been obtained and prior to use any function from this Package, the token must be set in the current query session, using the function [setToken](#).

The information can be obtained either in English ("en") or Spanish ("es"), defining the parameter locale. By default the metadata are retrieved in English.

## Value

A data.frame containing the required metadata.

## Examples

```
## Not run:  
## You need a valid token to run the example  
setToken(token)  
series <- getSeriesMetadata(c("SF43718", "SF46410", "SF46407"))  
  
serie <- getSeriesMetadata("SF43718")  
  
## End(Not run)
```

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setToken	<i>Set the query token</i>
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## Description

Set the token required to query series from [SIE](#).

## Usage

```
setToken(token)
```

## Arguments

token            A string that corresponds to the query token obtained.

## Details

This configuration is required prior to any function call pertaining to this package. The [API](#) used by siebanxicor requires that every request made, be identified by a token. Otherwise the query will be rejected. In order to work properly with this package is necessary to get a token [here](#).

Before any request can be made with other functions, the obtained token must be set.

## Examples

```
# an own token must be obtained
token <- "d4b584b43a1413f56e5abdcc0f9e74db112ce9bb2f1580c80cb252f5a18b30a21"
setToken(token)
```

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siebanxicor

*Economic information of Banco de México*

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## Description

This package is aimed at querying data series from Banco de México.

## Details

siebanxicor allows to retrieve the time series of all indicators available in [SIE](#). This tool aims at developers and analysts who seek to make automatic the retrieval of the economic information published by Banco de México.

This package uses the [SIE API](#) to obtain the data series published. This API requires that every request be identified by a token. This query token can be obtained [here](#). The query token can be used in multiple requests, as long as the query limits are respected ([more information](#)).

To start using the functions included in this package, is mandatory first to set the token using [setToken](#):

```
token <- "d4b584b43a1413f56e5abdcc0f9e74db112ce9bb2f1580c80cb252f5a18b30a21"
setToken(token)
```

The string token is only an example, an own token must be generated in the aforementioned link.

Once the token has been set, the data series can be retrieved using [getSeriesData](#):

```
idSeries <- c("SF43718", "SF46410", "SF46407")
series <- getSeriesData(idSeries)
```

The time period retrieved can be limited using the parameters `startDate` and `endDate`. These parameters are strings that represent a date in the format "yyyy-MM-dd". If one of these dates is omitted the entire data are returned.

```
idSeries <- c("SF43718", "SF46410", "SF46407")
series <- getSeriesData(idSeries, startDate='2016-01-01', endDate='2018-07-12')
```

It is also possible to query only the current value of certain time series. The function [getSeriesCurrentValue](#) accomplishes this task:

```
idSeries <- c("SF43718", "SF46410", "SF46407")
seriesDataFrame <- getSeriesCurrentValue(idSeries)

serieDataFrame <- getSeriesCurrentValue("SF43718")
```

The value returned is the last one published in SIE.

The series metadata can be queried with the function [getSeriesMetadata](#):

```
series <- getSeriesMetadata(c("SF43718", "SF46410", "SF46407"))
```

The idSeries required to use this package can be found in [SIE](#) and in the ["Series catalogue"](#)

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