

Package: banxicoR (via r-universe)

October 15, 2026

Type Package

Title Download Data from the Bank of Mexico

Version 0.9.0.9000

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Description Accesses observations and metadata from the Bank of Mexico
SIE REST API with authenticated requests, typed long-format
results, and compatibility adapters for legacy callers.

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Encoding UTF-8

Imports htr2 (>= 1.1.1), jsonlite, stringr

LazyData TRUE

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.3

Suggests testthat (>= 3.2.0), withr

Config/testthat/edition 3

Config/pak/sysreqs libicu-dev libssl-dev

Repository https://eflores89.r-universe.dev

Date/Publication 2026-10-15 19:12:21 UTC

RemoteUrl https://github.com/eflores89/banxicor

RemoteRef HEAD

RemoteSha 2f2a0c6f6c2e3a2b29f274503cfdd1a51323c198

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banxico_data	<i>Retrieve Banxico observations and metadata</i>
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Description

Uses the authenticated SIE REST API. Obtain a token from Banxico and configure BANXICO_TOKEN or use `banxico_set_token()`. Metadata retrieval is explicit.

Usage

```
banxico_data(  
  series,  
  start_date = NULL,  
  end_date = NULL,  
  token = banxico_get_token(),  
  language = "es"  
)  
  
banxico_latest(series, token = banxico_get_token(), language = "es")  
  
banxico_metadata(series, token = banxico_get_token(), language = "es")
```

Arguments

- series Character vector of alphanumeric series identifiers.
- start_date, end_date Inclusive date bounds as scalar Dates or ISO YYYY-MM-DD strings. Two bounds use the range endpoint; a single bound filters full history locally.
- token API token, defaulting to `banxico_get_token()`.
- language API locale: "es" (default) or "en".

Value

`banxico_data()` and `banxico_latest()` return a data.frame with provider, series_id, title, period, date (Date), value (double), and value_raw columns. Raw API periods and unavailable observations are retained. Rows follow requested series order and ascending dates within each series. `banxico_metadata()` returns provider, series_id, title and available raw API metadata fields; unavailable titles are NA. Empty data is typed.

Examples

```
## Not run:
# First configure BANXICO_TOKEN locally with your registered token.
x <- banxico_data(c("SF43718", "SF110168"),
  start_date = "2025-01-01", end_date = "2025-12-31")
banxico_latest("SF43718")
banxico_metadata("SF43718")

## End(Not run)
```

banxico_get_token	<i>Retrieve the configured Banxico token</i>
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Description

Uses the session token configured by `banxico_set_token()`, falling back to the `BANXICO_TOKEN` environment variable. Treat the returned value as secret.

Usage

```
banxico_get_token()
```

Value

A validated scalar character token.

banxico_set_token	<i>Configure a Banxico token for this R session</i>
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Description

Configure a Banxico token for this R session

Usage

```
banxico_set_token(token)
```

Arguments

token	A nonempty character token without whitespace or control characters.
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Value

Invisibly returns NULL. The token is stored only in the session environment.

BanxicoCatalog	<i>Catalog of some ID's</i>
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Description

A dataset containing the id's for some Banxico series.

Usage

```
BanxicoCatalog
```

Format

A data frame with 133 rows and 9 variables:

PARENT Parent or theme of data series

LEVEL_1 Level one category

LEVEL_2 Level two category

LEVEL_3 Level three category

LEVEL_4 Level four category

LEVEL_5 Level five category

LEVEL_6 Level six category

FREQUENCY Frequency of data (i.e. monthly)

ID ID to pass to banxico series

compact_banxico_series	<i>Compact legacy observations and metadata</i>
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Description

Uses `banxico_series()` with metadata requested explicitly. Configure `BANXICO_TOKEN` or use `banxico_set_token()` before calling without a token.

Usage

```
compact_banxico_series(
  series,
  token = banxico_get_token(),
  start_date = NULL,
  end_date = NULL,
  language = "es"
)
```

Arguments

series	A single character series identifier.
token	API token, defaulting to <code>banxico_get_token()</code> .
start_date, end_date	Inclusive scalar Date or ISO YYYY-MM-DD bounds.
language	API locale, either "es" or "en".

Value

A data.frame with Dates, an ID-named numeric value column, and IndicatorName, IndicatorId, Units, DataType, Period and Frequency repeated per observation. Unavailable metadata is NA; empty data has zero rows.

Author(s)

Eduardo Flores

helpers	<i>Helper functions for banxico series</i>
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Description

Retained helpers for historical quarterly labels and IQY metadata text. These helpers do not contact the API.

Usage

```
banxico_parsetrim(string, trim_begin = TRUE)

banxico_parsemeta(slist, lookfor, exclude = FALSE)
```

Arguments

string	A single quarterly label such as "Jan-Mar 2015".
trim_begin	Logical; select the quarter's first month when TRUE.
slist	Character vector of legacy metadata lines.
lookfor	Regular expression selecting metadata lines.
exclude	Logical; exclude matching lines when TRUE.

Details

With `trim_begin = FALSE`, the quarterly helper returns the first day of the quarter's final month, not the quarter's last calendar day. Unrecognized labels warn and return their nonnumeric text.

Value

`banxico_parsetrim()` returns a Date for recognized labels, otherwise character text. `banxico_parsemeta()` returns lowercase character values with the text preceding the first colon removed.

Examples

```
# trimester
string <- "Jan-Mar 2015"
trim <- banxico_parsetrim(string)
```

series

Returns data series from Banxico using the SIE REST API

Description

Legacy adapters retain their original column names and argument positions. API access now requires a token: set `BANXICO_TOKEN` or call `banxico_set_token()`. For multiple series and raw values use `banxico_data()`.

Usage

```
banxico_series(
  series,
  metadata = FALSE,
  verbose = FALSE,
  mask = FALSE,
  token = banxico_get_token(),
  start_date = NULL,
  end_date = NULL,
  language = "es"
)

banxico_series2(
  series,
  token = banxico_get_token(),
  metadata = FALSE,
  mask = FALSE,
  start_date = NULL,
  end_date = NULL,
  language = "es"
)
```

Arguments

<code>series</code>	A single character series identifier.
<code>metadata</code>	Logical; include legacy metadata (or Name in <code>banxico_series2</code>).
<code>verbose</code>	Logical; print a safe observation count after retrieval.

mask	Logical; use Values or Value instead of an ID-named value column.
token	API token, defaulting to <code>banxico_get_token()</code> .
start_date, end_date	Inclusive scalar Date or ISO YYYY-MM-DD bounds.
language	API locale, either "es" or "en".

Value

`banxico_series` returns Dates and an ID-named numeric column (Values when masked), or a list with `MetaData` and `Data`. `MetaData` contains `IndicatorName`, `IndicatorId`, `Units`, `DataType`, `Period` and `Frequency`; fields unavailable from the API are NA. `banxico_series2` returns Date and an ID-named numeric column (Value when masked), plus `Name` if requested. Missing observations remain rows with NA values.

Author(s)

Eduardo Flores

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