Package 'rbcb'

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Description The Brazilian Central Bank API delivers many datasets which regard economic activity, regional economy, international economy, public finances, credit indicators and many more. For more information please see http://dadosabertos.bcb.gov.br/ . These datasets can be accessed through 'rbcb' functions and can be obtained in different data structures common to R ('tibble', 'data.frame', 'xts',).
<pre>URL https://github.com/wilsonfreitas/rbcb</pre>
BugReports https://github.com/wilsonfreitas/rbcb/issues
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get_all_currencies

All currency values

Description

Gets all currency values

Usage

```
get_all_currencies(date)
```

Arguments

date

reference date

Value

A data.frame with all currency values from the given date. The currency rates come quoted in BRL.

```
## Not run:
get_all_currencies("2017-03-10")
## End(Not run)
```

```
get_annual_market_expectations
```

Get annual market expectations of economic indicators

Description

Statistics for the annual expectations of economic indicators. All statistics are computed based on annual expectations provided by many financial institutions in Brazil: banks, funds, risk managers, so on and so forth. These expections and its statistics are used to build the FOCUS Report weekly released by the Brazilian Central Bank.

Usage

```
get_annual_market_expectations(
  indic = NULL,
  start_date = NULL,
  end_date = NULL,
  ...
)
```

Arguments

indic a character vector with economic indicators names. They are case sensitive and don't forget the accents.

start_date series initial date. Accepts ISO character formated date and Date.

end_date series final date. Accepts ISO character formated date and Date.
... additional parameters to be passed to the API

indic argument must be one of indicators listed in Details. Respecting the case,

blank spaces and accents.

The ... is to be used with API's parameters. \$top to specify the maximum number of rows to be returned, this returns the \$top rows, in chronological order. There is also \$skip to ignore the first rows.

Details

There are annual expectations available for the following indicators:

- · Balança Comercial
- Câmbio
- Conta corrente
- Dívida bruta do governo geral
- Dívida líquida do setor público
- IGP-DI
- IGP-M

- INPC
- Investimento direto no país
- IPA-DI
- IPA-M
- IPCA
- IPCA Administrados
- IPCA Alimentação no domicílio
- IPCA Bens industrializados
- IPCA Livres
- IPCA Serviços
- IPCA-15
- IPC-FIPE
- PIB Agropecuária
- PIB Despesa de consumo da administração pública
- PIB despesa de consumo das famílias
- PIB Exportação de bens e serviços
- PIB Formação Bruta de Capital Fixo
- PIB Importação de bens e serviços
- PIB Indústria
- PIB Serviços
- PIB Total
- Produção industrial
- · Resultado nominal
- Resultado primário
- Selic
- Taxa de desocupação

Check https://olinda.bcb.gov.br/olinda/servico/Expectativas/versao/v1/documentacao#ExpectativasMercadoAnuais for more details

Value

A data. frame with the requested data.

```
## Not run:
indic <- c("PIB Total", "Fiscal")
end_date <- "2018-01-31"
x <- get_annual_market_expectations(indic, end_date = end_date, `$top` = 10)
# return all indicators for the specified date range</pre>
```

get_currency 5

```
start_date <- "2021-01-01"
x <- get_annual_market_expectations(start_date = start_date, `$top` = 20)
## End(Not run)</pre>
```

get_currency

Get currency values for a given period

Description

Given a currency symbol and a time interval (in dates) this function returns the bid and ask time series of currency rates.

Usage

```
get_currency(
   symbol,
   start_date,
   end_date,
   as = c("tibble", "xts", "data.frame", "text")
)
```

Arguments

symbol currency symbol
start_date time interval initial date
end_date time interval last date
as the object's returning type

The symbol argument is a three digits character which represents one currency.

The symbols can be obtained with list_currencies.

The time series date range is defined by start_date and end_date.

Value

The time series with the bid and ask currency rates regarding the given symbol quoted in BRL. The default returning is a tibble-fashioned data.frame with the three columns: date, ask and bid. The as argument also accepts data.frame to return old fashioned data frames, xts to return a xts object with two variables (bid and ask) and text which returns the text content download from BCB site.

```
## Not run:
get_currency("USD", "2017-03-01", "2017-03-10")
## End(Not run)
```

```
get_currency_cross_rates
```

Get currency matrix from BCB

Description

The currency matrix has the currency cross rates for all currencies present in the BCB system.

Usage

```
get_currency_cross_rates(date, ref = c("ask", "bid"))
```

Arguments

date reference date

ref reffers to bid or ask rates (default ask)

date is the reference date by which the currency rates must be downloaded. ref defaults to ask and bid returns all currency cross rates calculated with bid rates.

Value

A square matrix with colnames and rownames filled with currency symbols The cells must be read as ROW in COL, for example, BRL (row) in USD (column) means Brazilian Reals in American Dollars.

Examples

```
## Not run:
x <- get_currency_cross_rates("2017-03-10")
currencies <- c("USD", "BRL", "AUD", "EUR", "CAD")
x[currencies, currencies]
## End(Not run)</pre>
```

```
get_institutions_market_expectations
```

Get market expectations sent by officially recognized Institutions that contribute with expectations

Description

Statistics of market expectations sent by institutions. All statistics are computed based on expectations provided by many financial institutions in Brazil: banks, funds, risk managers, so on and so forth. These expections and its statistics are used to build the FOCUS Report weekly released by the Brazilian Central Bank.

Usage

```
get_institutions_market_expectations(
  indic = NULL,
  start_date = NULL,
  end_date = NULL,
  ...
)
```

Arguments

indic a character vector with economic indicators names. They are case sensitive and

don't forget the accents.

start_date series initial date. Accepts ISO character formated date and Date.

end_date series final date. Accepts ISO character formated date and Date.

... additional parameters to be passed to the API

indic argument must be one of indicators listed in Details. Respecting the case,

blank spaces and accents.

The ... is to be used with API's parameters. \$top to specify the maximum number of rows to be returned, this returns the \$top rows, in chronological

order. There is also \$skip to ignore the first rows.

Details

There are market expectations available for the following indicators:

- · Balança Comercial
- Câmbio
- Conta corrente
- Dívida bruta do governo geral
- Dívida líquida do setor público
- IGP-DI
- IGP-M
- INPC
- Investimento direto no país
- IPA-DI
- IPA-M
- IPCA
- IPCA Administrados
- IPCA Alimentação no domicílio
- IPCA Bens industrializados
- IPCA Livres
- IPCA Serviços

- IPCA-15
- IPC-FIPE
- PIB Agropecuária
- PIB Despesa de consumo da administração pública
- PIB despesa de consumo das famílias
- PIB Exportação de bens e serviços
- PIB Formação Bruta de Capital Fixo
- PIB Importação de bens e serviços
- PIB Indústria
- PIB Serviços
- PIB Total
- Produção industrial
- Resultado nominal
- Resultado primário
- Selic
- Taxa de desocupação

Check https://olinda.bcb.gov.br/olinda/servico/Expectativas/versao/v1/documentacao#ExpectativasMercadoInstituicoes for more details

Value

A data. frame with the requested data.

```
## Not run:
indic <- "IPCA"
x <- get_institutions_market_expectations(indic, `$top` = 10)
x <- get_institutions_market_expectations(`$top` = 20)
## End(Not run)</pre>
```

```
get_market_expectations
```

Get market expectations

Description

General function to get statistics of market expectations. The API provides requests for annual, monthly, and quarterly expectations. Is is also proveided expectations for 12 months ahead, specific requests for the top 5 indicators for annual and monthly expectations and data provided by financial institutions.

Usage

```
get_market_expectations(
  type = c("annual", "quarterly", "monthly", "inflation-12-months", "top5s-monthly",
    "top5s-annual", "institutions", "selic", "top5s-selic"),
    indic = NULL,
    start_date = NULL,
    end_date = NULL,
    keep_names = TRUE,
    ...
)
```

Arguments

type a character with one of the following: annual, quarterly monthly, inflation-12-months, top5s-monthly, top5s-annual, institutions.

indic a character vector with economic indicators names. They are case sensitive and don't forget the accents.

start_date series initial date. Accepts ISO character formated date and Date.

end_date series final date. Accepts ISO character formated date and Date.

keep_names if TRUE keeps the column names returned by the API (in portuguese), if FALSE the columns are renamed to standardized names (in english).

... additional parameters to be passed to the API type defines the API used to fetch data.

- annual: refers to the API *Expectativas de Mercado Anuais* for annual market expectations
- quarterly: refers to the API *Expectativas de Mercado Trimestrais* for quarterly market expectations
- monthly: refers to the API *Expectativas de Mercado Mensais* for monthly market expectations
- inflation-12-months: refers to the API *Expectativas de mercado para inflação nos próximos 12 meses* for market expectations of inflation indexes for the next 12 months.

- top5s-monthly: refers to the API *Expectativas de mercado mensais para os indicadores do Top 5* for monthly market expectations of top 5 indicators
- top5s-annual: refers to the API *Expectativas de mercado anuais para os indicadores do Top 5* for annual market expectations of top 5 indicators
- institutions: refers to the API *Expectativas de mercado informadas pelas instituições credenciadas* for market expectations sent by institutions

indic argument must be one of indicators listed in Details. Respecting the case, blank spaces and accents.

The ... is to be used with API's parameters. \$top to specify the maximum number of rows to be returned, this returns the \$top rows, in chronological order. \$skip can be used to ignore the first rows. If provided \$filter applies filters according to https://olinda.bcb.gov.br/olinda/servico/ajuda.

Details

All statistics are computed based on expectations provided by many financial institutions in Brazil: banks, funds, risk managers, so on and so forth. These expections and its statistics are used to build the FOCUS Report weekly released by the Brazilian Central Bank.

There are market expectations available for the following indicators:

- · Balança Comercial
- Câmbio
- · Conta corrente
- Dívida bruta do governo geral
- Dívida líquida do setor público
- IGP-DI
- IGP-M
- INPC
- Investimento direto no país
- IPA-DI
- IPA-M
- IPCA
- · IPCA Administrados
- IPCA Alimentação no domicílio
- · IPCA Bens industrializados
- IPCA Livres
- IPCA Serviços
- IPCA-15
- IPC-FIPE
- PIB Agropecuária
- PIB Despesa de consumo da administração pública

get_market_expectations

- PIB despesa de consumo das famílias
- PIB Exportação de bens e serviços
- PIB Formação Bruta de Capital Fixo
- PIB Importação de bens e serviços
- PIB Indústria
- PIB Serviços
- PIB Total
- Produção industrial
- · Resultado nominal
- · Resultado primário
- Selic
- Taxa de desocupação

Check https://olinda.bcb.gov.br/olinda/servico/Expectativas/versao/v1/documentacao for more details

Value

A data. frame with the requested data.

```
## Not run:
indic <- c("IPCA", "Câmbio")</pre>
x <- get_market_expectations("annual", indic, `$top` = 10)</pre>
x <- get_market_expectations("monthly", "Selic", `$top` = 20)</pre>
# get monthly expectations for top 5 indicators since 2021
x <- get_market_expectations("top5s-monthly", start_date = "2021-01-01")</pre>
# get annual expectations for top 5 indicators since 2021
x \leftarrow get_market_expectations("top5s-annual", `$top` = 20)
# get all inflation expectations for 12 months ahead starting on 2021-01
x <- get_market_expectations("inflation-12-months", start_date = "2021-01-01")
# get all IPCA expectations informed by financial institutions since 2020
x <- get_market_expectations("institutions", "IPCA", start_date = "2020-01-01")
# get all SELIC expectations informed by financial institutions since 2022
x <- get_market_expectations("selic", start_date = "2022-01-01")</pre>
# get TOP5 SELIC expectations starting on 2022
x <- get_market_expectations("top5s-selic", start_date = "2022-01-01")</pre>
## End(Not run)
```

```
get_monthly_market_expectations
```

Get monthly market expectations of economic indicators

Description

Statistics for the monthly expectations of economic indicators. All statistics are computed based on monthly expectations provided by many financial institutions in Brazil: banks, funds, risk managers, so on and so forth. These expections and its statistics are used to build the FOCUS Report weekly released by the Brazilian Central Bank.

Usage

```
get_monthly_market_expectations(
  indic = NULL,
  start_date = NULL,
  end_date = NULL,
  ...
)
```

Arguments

indic a character vector with economic indicators names. They are case sensitive and

don't forget the accents.

start_date series initial date. Accepts ISO character formated date and Date.

additional parameters to be passed to the API

end_date series final date. Accepts ISO character formated date and Date.

indic argument must be one of indicators listed in Details. Respecting the case,

blank spaces and accents.

The ... is to be used with API's parameters. \$top to specify the maximum number of rows to be returned, this returns the \$top rows, in chronological

order. There is also \$skip to ignore the first rows.

Details

There are monthly expectations available for the following indicators:

- Câmbio
- IGP-DI
- IGP-M
- INPC
- IPA-DI
- IPA-M
- IPCA

- IPCA Administrados
- IPCA Alimentação no domicílio
- · IPCA Bens industrializados
- IPCA Livres
- IPCA Serviços
- IPCA-15
- IPC-Fipe
- Produção industrial
- Selic
- Taxa de desocupação

Check https://olinda.bcb.gov.br/olinda/servico/Expectativas/versao/v1/documentacao#ExpectativaMercadoMensais for more details

Value

A data. frame with the requested data.

Examples

```
## Not run:
indic <- c("IPCA", "IPC-Fipe")
end_date <- "2018-01-31"
x <- get_monthly_market_expectations(indic, end_date = end_date, `$top` = 10)
# return all indicators for the specified date range
start_date <- "2021-01-01"
x <- get_monthly_market_expectations(start_date = start_date, `$top` = 20)
## End(Not run)</pre>
```

```
get_quarterly_market_expectations
```

Get quarterly market expectations of economic indicators

Description

Statistics for the quarterly expectations of economic indicators. All statistics are computed based on quarterly expectations provided by many financial institutions in Brazil: banks, funds, risk managers, so on and so forth. These expections and its statistics are used to build the FOCUS Report weekly released by the Brazilian Central Bank.

Usage

```
get_quarterly_market_expectations(
  indic = NULL,
  start_date = NULL,
  end_date = NULL,
  ...
)
```

Arguments

indic a character vector with economic indicators names. They are case sensitive and

don't forget the accents.

start_date series initial date. Accepts ISO character formated date and Date. end_date series final date. Accepts ISO character formated date and Date.

... additional parameters to be passed to the API

indic argument must be one of indicators listed in Details. Respecting the case,

blank spaces and accents.

The ... is to be used with API's parameters. \$top to specify the maximum number of rows to be returned, this returns the \$top rows, in chronological

order. There is also \$skip to ignore the first rows.

Details

There are quarterly expectations available for the following indicators:

- Câmbio
- IPCA
- IPCA Administrados
- IPCA Alimentação no domicílio
- IPCA Bens industrializados
- IPCA Livres
- IPCA Serviços
- PIB Agropecuária
- PIB Indústria
- PIB Serviços
- PIB Total
- Taxa de desocupação

Check https://olinda.bcb.gov.br/olinda/servico/Expectativas/versao/v1/documentacao#ExpectativasMercadoTrimestrais for more details

Value

A data. frame with the requested data.

Examples

```
## Not run:
indic <- c("PIB Industrial", "PIB Total")
end_date <- "2018-01-31"
x <- get_quarterly_market_expectations(indic, end_date = end_date, `$top` = 10)
# return all indicators for the specified date range
start_date <- "2021-01-01"
x <- get_quarterly_market_expectations(start_date = start_date, `$top` = 20)
## End(Not run)</pre>
```

```
get_selic_market_expectations
```

Get Selic market expectations

Description

Statistics of Selic market expectations. All statistics are computed based on expectations provided by many financial institutions in Brazil: banks, funds, risk managers, so on and so forth. These expections and its statistics are used to build the FOCUS Report weekly released by the Brazilian Central Bank.

Usage

```
get_selic_market_expectations(start_date = NULL, end_date = NULL, ...)
```

Arguments

start_date series initial date. Accepts ISO character formated date and Date.
end_date series final date. Accepts ISO character formated date and Date.
... additional parameters to be passed to the API

The ... is to be used with API's parameters. \$top to specify the maximum number of rows to be returned, this returns the \$top rows, in chronological

order. There is also \$skip to ignore the first rows.

Details

Check https://olinda.bcb.gov.br/olinda/servico/Expectativas/versao/v1/documentacao#ExpectativasMercadoSelic for more details

Value

A data. frame with the requested data.

get_series

Examples

```
## Not run:
# return all indicators for the specified date range
start_date <- "2022-01-01"
x <- get_selic_market_expectations(start_date = start_date, `$top` = 20)
## End(Not run)</pre>
```

get_series

Get the series from BCB

Description

Get the series from BCB

Usage

```
get_series(
  code,
  start_date = NULL,
  end_date = NULL,
  last = 0,
  as = c("tibble", "xts", "ts", "data.frame", "text")
)
```

Arguments

code series code

start_date series initial date. Accepts ISO character formated date and Date. end_date series final date. Accepts ISO character formated date and Date.

last items of the series

as the returning type: data objects (tibble, xts, data. frame, ts) or text for raw

JSON

code argument can be obtained in the SGS system site. In this site searches can be executed in order to find out the desired series and use the series code in the code argument.

The arguments start_date, end_date and last are optional. If none of these arguments are set, then the entire time series is downloaded. Define start_date and end_date to download a period of data and to download the last N registers define the last argument to N a positive integer. Once last is provided it over-

rides the arguments start_date and end_date.

Value

tibble is the default returning class, but the argument as can be set to xts, data.frame, ts, or text to return these other types. text returns the JSON data provided by the remote API.

Examples

```
# download the entire series
## Not run: get_series(1)
# download a period of dates
## Not run: get_series(1, start_date = '2016-12-01')
## Not run: x <- get_series(1, start_date = '2016-12-01', end_date = '2016-12-31')
# download the last register
## Not run: x <- get_series(1, last = 1)</pre>
```

```
get_top5s_annual_market_expectations
```

Get annual market expectations from top 5 providers

Description

Statistics of annual expectations for top 5 indicators. All statistics are computed based on expectations provided by many financial institutions in Brazil: banks, funds, risk managers, so on and so forth. These expections and its statistics are used to build the FOCUS Report weekly released by the Brazilian Central Bank.

Usage

```
get_top5s_annual_market_expectations(
  indic = NULL,
  start_date = NULL,
  end_date = NULL,
  ...
)
```

Arguments

indic a character vector with economic indicators names. They are case sensitive and

don't forget the accents.

start_date series initial date. Accepts ISO character formated date and Date.

end_date series final date. Accepts ISO character formated date and Date.

... additional parameters to be passed to the API

indic argument must be one of indicators listed in Details. Respecting the case,

blank spaces and accents.

The ... is to be used with API's parameters. \$top to specify the maximum number of rows to be returned, this returns the \$top rows, in chronological

order. There is also \$skip to ignore the first rows.

Details

There are inflation's expectations available for the following indicators:

- Câmbio
- IGP-DI
- IGP-M
- IPCA
- Selic

Check https://olinda.bcb.gov.br/olinda/servico/Expectativas/versao/v1/documentacao#ExpectativasMercadoTop5Anuais for more details

Value

A data. frame with the requested data.

Examples

```
## Not run:
indic <- "IPCA"
end_date <- "2018-06-22"
x <- get_top5s_annual_market_expectations(indic, end_date = end_date, `$top` = 10)
# return all indicators for the specified date range
start_date <- "2021-01-01"
x <- get_top5s_annual_market_expectations(start_date = start_date, `$top` = 20)
## End(Not run)</pre>
```

```
get_top5s_monthly_market_expectations
```

Get monthly market expectations from top 5 providers

Description

Statistics of monthly expectations for top 5 indicators. All statistics are computed based on expectations provided by many financial institutions in Brazil: banks, funds, risk managers, so on and so forth. These expections and its statistics are used to build the FOCUS Report weekly released by the Brazilian Central Bank.

Usage

```
get_top5s_monthly_market_expectations(
  indic = NULL,
  start_date = NULL,
  end_date = NULL,
  ...
)
```

Arguments

indic a character vector with economic indicators names. They are case sensitive and

don't forget the accents.

start_date series initial date. Accepts ISO character formated date and Date.

end_date series final date. Accepts ISO character formated date and Date.

... additional parameters to be passed to the API

indic argument must be one of indicators listed in Details. Respecting the case,

blank spaces and accents.

The ... is to be used with API's parameters. \$top to specify the maximum number of rows to be returned, this returns the \$top rows, in chronological

order. There is also \$skip to ignore the first rows.

Details

There are inflation's expectations available for the following indicators:

- Câmbio
- IGP-DI
- IGP-M
- IPCA
- Selic

Check https://olinda.bcb.gov.br/olinda/servico/Expectativas/versao/v1/documentacao#ExpectativasMercadoTop5Mensais for more details

Value

A data. frame with the requested data.

```
## Not run:
indic <- "IPCA"
end_date <- "2018-06-22"
x <- get_top5s_monthly_market_expectations(indic, end_date = end_date, `$top` = 10)
# return all indicators for the specified date range
start_date <- "2021-01-01"
x <- get_top5s_monthly_market_expectations(start_date = start_date, `$top` = 20)
## End(Not run)</pre>
```

```
get_top5s_selic_market_expectations
                         Get Selic market expectations from top 5 providers
```

Description

Statistics of Selic expectations for top 5 indicators. All statistics are computed based on expectations provided by many financial institutions in Brazil: banks, funds, risk managers, so on and so forth. These expections and its statistics are used to build the FOCUS Report weekly released by the Brazilian Central Bank.

Usage

```
get_top5s_selic_market_expectations(start_date = NULL, end_date = NULL, ...)
```

Arguments

start_date series initial date. Accepts ISO character formated date and Date. end_date series final date. Accepts ISO character formated date and Date. additional parameters to be passed to the API . . . The ... is to be used with API's parameters. \$top to specify the maximum

number of rows to be returned, this returns the \$top rows, in chronological

order. There is also \$skip to ignore the first rows.

Details

Check https://olinda.bcb.gov.br/olinda/servico/Expectativas/versao/v1/documentacao#ExpectativasMercadoTop5Selic for more details

Value

A data. frame with the requested data.

```
## Not run:
# return all indicators for the specified date range
start_date <- "2022-01-01"
x <- get_top5s_selic_market_expectations(start_date = start_date, `$top` = 20)</pre>
## End(Not run)
```

```
get_twelve_months_inflation_expectations
```

Get inflation's market expectations for the next 12 months

Description

Statistics of inflation's market expectations for the next 12 months. All statistics are computed based on expectations provided by many financial institutions in Brazil: banks, funds, risk managers, so on and so forth. These expections and its statistics are used to build the FOCUS Report weekly released by the Brazilian Central Bank.

Usage

```
get_twelve_months_inflation_expectations(
  indic = NULL,
  start_date = NULL,
  end_date = NULL,
  ...
)
```

Arguments

indic a character vector with economic indicators names. They are case sensitive and

don't forget the accents.

start_date series initial date. Accepts ISO character formated date and Date.

end_date series final date. Accepts ISO character formated date and Date.

.. additional parameters to be passed to the API

indic argument must be one of indicators listed in Details. Respecting the case,

blank spaces and accents.

The ... is to be used with API's parameters. \$top to specify the maximum number of rows to be returned, this returns the \$top rows, in chronological order. There is also \$skip to ignore the first rows.

Details

There are inflation's expectations available for the following indicators:

- IGP-DI
- IGP-M
- INPC
- IPA-DI
- IPA-M
- IPCA
- IPCA Administrados

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- IPCA Alimentação no domicílio
- · IPCA Bens industrializados
- IPCA Livres
- IPCA Serviços
- IPCA-15
- IPC-FIPE

Check https://olinda.bcb.gov.br/olinda/servico/Expectativas/versao/v1/documentacao#ExpectativasMercadoInflacao12Mesformore details

Value

A data. frame with the requested data.

Examples

```
## Not run:
indic <- c("IPCA", "IGP-M")
end_date <- "2018-06-22"
x <- get_twelve_months_inflation_expectations(indic, end_date = end_date, `$top` = 10)

# return all indicators for the specified date range
start_date <- "2021-01-01"
x <- get_twelve_months_inflation_expectations(start_date = start_date, `$top` = 20)

## End(Not run)</pre>
```

helpers

Helpers to access time series columns

Description

Extraxt bid and ask data from time series objects.

Usage

```
Bid(x, ...)
## S3 method for class 'data.frame'
Bid(x, ...)
## S3 method for class 'xts'
Bid(x, ...)
## S3 method for class 'olinda_df'
Bid(x, ...)
```

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```
Ask(x, ...)
## S3 method for class 'data.frame'
Ask(x, ...)
## S3 method for class 'xts'
Ask(x, ...)
## S3 method for class 'olinda_df'
Ask(x, ...)
```

Arguments

x time series objects containing data to be extracted

.. additional arguments

Value

tibble with time series

Examples

```
## Not run:
x <- get_currency("EUR", "2018-06-22", "2018-06-28")
Bid(x)
Ask(x)
## End(Not run)</pre>
```

list_currencies

List all currencies

Description

Lists all currencies and presents their name, symbol, numeric code, country name and county numeric code

Usage

```
list_currencies()
```

Value

A data. frame with information of all currencies

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Examples

```
## Not run:
list_currencies()
## End(Not run)
```

olinda_get_currency

Get currency values for a given period

Description

Given a currency symbol and a time interval (in dates) this function returns the bid and ask time series of currency rates.

Usage

```
olinda_get_currency(
   symbol,
   start_date,
   end_date = NULL,
   as = c("tibble", "xts", "data.frame", "text"),
   parity = FALSE
)
```

Arguments

symbol currency symbol
start_date time interval initial date
end_date time interval last date
as the object's returning type

parity TRUE returns the parity quotation (default FALSE currency quoted in BRL)

The symbol argument is a three digits character which represents one currency.

The symbols can be obtained with list_currencies.

The time series date range is defined by start_date and end_date. If end_date

is not passed, it is set equals to start_date.

The parity argument defaults to FALSE, which means that the returned data is quoted in BRL. If it is TRUE the returned data is quoted in USD, for type A currencies and for type B currencies it is quoted as 1 USD in CURRENCY. For

example, AUD, which is type B, returns 1 USD in AUD.

Value

The time series with the bid and ask currency rates regarding the given symbol quoted in BRL. The default returning is a tibble-fashioned data.frame with the three columns: date, ask and bid. The as argument also accepts data.frame to return old fashioned data frames, xts to return a xts object with two variables (bid and ask) and text which returns the text content download from BCB site.

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Examples

```
## Not run: olinda_get_currency("USD", "2017-03-01", "2017-03-10")
```

olinda_list_currencies

List all currencies

Description

Lists all currencies and presents their name, symbol, numeric code, country name and county numeric code

Usage

```
olinda_list_currencies()
```

Value

A data. frame with information of all currencies.

The currency_type refers to the currency's parity quotation. Parity quotations relates currency values with USD.

Examples

```
## Not run: list_currencies()
```

rbcb

R interface to Brazilian Central Bank RESTful API

Description

The Brazilian Central Bank API delivers many datasets which regard economic activity, regional economy, international economy, public finances, credit indicators and many more. These datasets can be accessed through rbcb functions and can be obtained in different data structures common to R (tibble, data.frame, xts, ...).

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rbcb_dataset

rbcb dataset

Description

'rbcb_dataset(name)' opens an [RStudio gadget](https://shiny.rstudio.com/articles/gadgets.html) and [addin](http://rstudio.github.io/rstudioaddins/) that allows you to view a few attributes that help to explain the desired data.

Usage

```
rbcb_dataset(name)
```

Arguments

name

dataset name

Value

Addin has no return

rbcb_search

rbcb Search

Description

'rbcb_search(text)' opens an [RStudio gadget](https://shiny.rstudio.com/articles/gadgets.html) and [addin](http://rstudio.github.io/rstudioaddins/) that allows you to query for specific terms and see a suitable rbcb command to fetch the desired data.

Usage

```
rbcb_search(text = "")
```

Arguments

text

text to search

Value

Addin has no return

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