# Package 'BRVM'

# February 21, 2024

Type Package
<b>Title</b> Retrieve Historical Data of Companies Listed on the 'BRVM' Stock Exchange
Version 5.3.0
<b>Description</b> Provide real-time access to data from the Regional Securities Exchange SA( <a href="https://www.brvm.org/en">https://www.brvm.org/en</a> ), commonly known as the 'BRVM' stock exchange. The goal is to facilitate data access for users of the R programming language. The package includes a variety of data that can be accessed by calling functions.
License MIT + file LICENSE
<pre>URL https://rpubs.com/Fredysessie/Readme_BRVM_Stock</pre>
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Author Sessie Koffi Frederic [aut, cre, cph], Diakité Abdoul Oudouss [aut], Steven Sanderson [aut]
Maintainer Sessie Koffi Frederic <koffisessie@gmail.com></koffisessie@gmail.com>
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BRVM.index

BRVM Available Indexes

# Description

It receives no argument and returns BRVM's indexes informations.

# Usage

BRVM.index()

# Value

A character

# Author(s)

Koffi Frederic SESSIE

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#### See Also

```
Other BRVM: BRVM_cap(), BRVM_company_cap(), BRVM_company_rank(), BRVM_company_url(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(), BRVM_ticker_desc(), BRVM_traded_val(), company_cap(), company_country(), company_nbrank(), company_sector(), company_traded_val(), normality_test(), stationarity_test()
```

# **Examples**

BRVM.index()

BRVM\_bySector

BRVM By Sector

## **Description**

This function will take in the name of sector(s) and returns data for companies belonging to that/those sector(s)

# Usage

```
BRVM_bySector(.sectors = NULL)
```

# Arguments

.sectors

A vector of sectors you wish to have returned.

#### **Details**

This function will take in a vector of sectors provided by the end user and return a tibble.

# Value

A tibble

#### Author(s)

Koffi Frederic SESSIE Oudouss Diakité Abdoul Steven P. Sanderson II, MPH

```
Other Data Retrieval: BRVM_cap(), BRVM_company_rank(), BRVM_get1(), BRVM_get(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(), BRVM_ticker_desc(), company_cap(), company_country(), company_nbrank(), company_sector(), company_traded_val()
```

BRVM\_cap

#### **Examples**

BRVM\_cap

**BRVM** Capitalization

# **Description**

It receives no argument and returns informations about BRVM capitalization

# Usage

BRVM\_cap()

# Value

A tibble

# Author(s)

Koffi Frederic SESSIE

#### See Also

```
https://www.brvm.org/en/capitalisations/0
```

```
Other Data Retrieval: BRVM_bySector(), BRVM_company_rank(), BRVM_get1(), BRVM_get(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(), BRVM_ticker_desc(), company_cap(), company_country(), company_nbrank(), company_sector(), company_traded_val()

Other BRVM: BRVM.index(), BRVM_company_cap(), BRVM_company_rank(), BRVM_company_url(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(), BRVM_ticker_desc(), BRVM_traded_val(), company_cap(), company_country(), company_nbrank(),
```

company\_sector(), company\_traded\_val(), normality\_test(), stationarity\_test()

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## **Examples**

BRVM\_cap()

BRVM\_company\_cap

BRVM companies capitalization value - To get the capitalization value data of all companies listed on BRVM stock exchange

# **Description**

This function will get the capitalization value data of all companies listed on the BVRM exchange. The function takes no parameter

# Usage

BRVM\_company\_cap()

# Value

A tibble

# Author(s)

Koffi Frederic SESSIE

# See Also

```
Other BRVM: BRVM.index(), BRVM_cap(), BRVM_company_rank(), BRVM_company_url(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(), BRVM_ticker_desc(), BRVM_traded_val(), company_cap(), company_country(), company_nbrank(), company_sector(), company_traded_val(), normality_test(), stationarity_test()
```

```
BRVM_company_cap()
```

BRVM\_company\_info

BRVM Get info about a ticker beta, RSI, Closing, Valorisation, etc.

# Description

It receives the ticker of a company or index listed on the BRVM stock exchange, Turn to upper case the input by using toupper() and returns informations about the company's RSI, Beta, Closing price, etc. .

# Usage

```
BRVM_company_info(ticker)
```

# Arguments

ticker

The ticker of a company

# Value

A tibble

# Author(s)

Koffi Frederic SESSIE

# See Also

```
https://www.sikafinance.com
```

```
BRVM_company_info("BOAS")
BRVM_company_info("BoaM")
BRVM_company_info("BRVMAG")
```

#### **Description**

This function returns companies rank from the BRVM Bourse exchange according to their daily change (variation).

#### Usage

```
BRVM_company_rank()
```

#### **Details**

This function will get the rank of the companies listed on the BVRM exchange through the Rich Bourse site. The function takes no parameter

#### Value

```
"tbl_df" "tbl" "data.frame"
```

## Author(s)

Koffi Frederic SESSIE Oudouss Diakité Abdoul Steven P. Sanderson II, MPH

#### See Also

```
https://www.brvm.org/en/cours-actions/0
```

```
Other Data Retrieval: BRVM_bySector(), BRVM_cap(), BRVM_get1(), BRVM_get(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(), BRVM_ticker_desc(), company_cap(), company_country(), company_nbrank(), company_sector(), company_traded_val()

Other BRVM: BRVM. index(), BRVM_cap(), BRVM_company_cap(), BRVM_company_url(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(), BRVM_ticker_desc(), BRVM_traded_val(), company_cap(), company_country(), company_nbrank(), company_sector(), company_traded_val(), normality_test(), stationarity_test()
```

```
library(httr)
#library(dplyr)
library(rvest)
BRVM_company_rank()
comp.rank <- BRVM_company_rank()</pre>
```

BRVM\_company\_url

```
# comp.rank<-comp.rank%>%
# dplyr::arrange(desc(percent_change))
comp.rank #in case the connexion is worse it will return error
```

BRVM\_company\_url

BRVM company url

# **Description**

It receives the ticker name and return an URL

# Usage

```
BRVM_company_url(company)
```

# **Arguments**

company

is the name of the Ticker

# Value

URL

#### Author(s)

Koffi Frederic SESSIE

#### See Also

```
Other BRVM: BRVM.index(), BRVM_cap(), BRVM_company_cap(), BRVM_company_rank(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(), BRVM_ticker_desc(), BRVM_traded_val(), company_cap(), company_country(), company_nbrank(), company_sector(), company_traded_val(), normality_test(), stationarity_test()
```

```
BRVM_company_url("BICC")
```

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BRVM\_direction

**BRVM** Rank

# Description

This function will take in 'Up' or 'Down' and returns respectively n results for the top or flop ranking of the BRVM tickers.

# Usage

```
BRVM_direction(.up_or_down = "Up")
```

# Arguments

.up\_or\_down

This is a character string set to "Up" It can either be 'Up' or 'Down'.

# **Details**

This function will get any n results for the top or flop ranking of the BRVM tickers.

#### Value

A tibble

# Author(s)

Koffi Frederic SESSIE

Oudouss Diakité Abdoul

Steven P. Sanderson II, MPH

```
BRVM_direction("Up")
```

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BRVM Get - Get Ticker Data

#### **Description**

This function will get data from the Rich Bourse exchange.

# Usage

```
BRVM_get(.symbol, .from = Sys.Date() - 365, .to = Sys.Date() - 1)
```

# **Arguments**

.symbol	A vector of symbols, like: c("BICC","XOM","SlbC")
.from	A quoted start date, ie. "2020-01-01" or "2020/01/01". The date must be in ymd format "YYYY-MM-DD" or "YYYY/MM/DD".
.to	A quoted end date, ie. "2022-01-31" or "2022/01/31". The date must be in ymd format "YYYY-MM-DD" or "YYYY/MM/DD"

#### **Details**

This function will get data of the companies listed on the BVRM exchange through the Rich Bourse site. The function takes in a single parameter of .symbol The function will auto-format the tickers you input into all upper case by using toupper() The function will next make sure that the ticker passed is inside of a google spreadsheet of allowed tickers.

#### Value

A tibble

#### Author(s)

```
Koffi Frederic SESSIE
Oudouss Diakité Abdoul
Steven P. Sanderson II, MPH
```

```
https://www.richbourse.com
BRVM_ticker_desc(), BRVM_tickers()
Other Data Retrieval: BRVM_bySector(), BRVM_cap(), BRVM_company_rank(), BRVM_get1(),
BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(),
BRVM_ticker_desc(), company_cap(), company_country(), company_nbrank(), company_sector(),
company_traded_val()
Other Richbourse: BRVM_ticker_desc()
```

BRVM\_get1

# **Examples**

```
library(lubridate)
library(rlang)
library(httr2)
library(dplyr)
library(stringr)

symbols <- c("BiCc","XOM","SlbC")
data_tbl <- BRVM_get(.symbol = symbols)
data_tbl</pre>
```

BRVM\_get1

BRVM Get - Get BRVM stock exchange Ticker Data

# Description

This function will get data from the Sikafinance exchange.

# Usage

```
BRVM_get1(ticker = "BICC", Period = 0, from = Sys.Date() - 89, to = Sys.Date())
```

# Arguments

ticker	A vector of ticker, like: c("BICC", "XOM", "SlbC", "BRvm10")
Period	Numeric number indicating time period. Valid entries are 0, 1, 5, 30, 91, and 365 representing respectively 'daily', 'one year', 'weekly', 'monthly', 'quarterly' and 'yearly'.
from	A quoted start date, ie. "2020-01-01" or "2020/01/01". The date must be in ymd format "YYYY-MM-DD" or "YYYY/MM/DD".
to	A quoted end date, ie. "2022-01-31" or "2022/01/31". The date must be in ymd format "YYYY-MM-DD" or "YYYY/MM/DD"

#### **Details**

This function will get data of the companies listed on the BVRM exchange through the sikafinance site. The function takes in a single parameter of ticker The function will auto-format the tickers you input into all upper case by using toupper()

#### Value

A tibble

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#### Author(s)

Koffi Frederic SESSIE

#### See Also

```
https://www.sikafinance.com/
BRVM_ticker_desc(), BRVM_tickers(), BRVM_get(), BRVM_index_stock()
Other Data Retrieval: BRVM_bySector(), BRVM_cap(), BRVM_company_rank(), BRVM_get(), BRVM_index_stock(),
BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(), BRVM_ticker_desc(),
company_cap(), company_country(), company_nbrank(), company_sector(), company_traded_val()
```

```
library(lubridate)
library(rlang)
library(httr2)
library(dplyr)
library(stringr)
symbols <- c("BiCc","XOM","SlbC")</pre>
data_tbl <- BRVM_get1(ticker = symbols)</pre>
data_tbl
#From three year ago to the present
BRVM_get1("ALL INDEXES", from = Sys.Date() - 252*3, to = Sys.Date())
BRVM_get1(ticker = "BRVMAG", from = "2010-01-04", to = "2022-01-04")
BRVM\_get1("ALL", Period = 0, from = "2010-01-04", to = "2022-01-04") #To get daily data
BRVM_get1("BrvmAS", Period = 1 ) # To get daily data for a whole year
BRVM_get1(c("BRVMPR", "BRVMAG"), Period = 5) # To get weekly data
BRVM_get1("BRVMAG", Period = 30 ) # To get monthly data
BRVM_get1("BRVMPR", Period = 91 ) # To get quaterly data
BRVM_get1(c("brvmtr", "BiCc", "BOAS"), Period = 365 ) # To get yearly data
```

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#### **Description**

This function will get data from <a href="https://www.brvm.org/">https://www.brvm.org/</a>.

#### Usage

```
BRVM_index()
```

#### **Details**

This function will get index data from https://www.brvm.org/

#### Value

A tibble

# Author(s)

Koffi Frederic SESSIE

Oudouss Diakité Abdoul

Steven P. Sanderson II, MPH

#### See Also

```
https://www.brvm.org/en/indices/status/200
```

```
Other Data Retrieval: BRVM_bySector(), BRVM_cap(), BRVM_company_rank(), BRVM_get1(), BRVM_get(), BRVM_index_stock(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(), BRVM_ticker_desc(), company_cap(), company_country(), company_nbrank(), company_sector(), company_traded_val()
```

```
Other\ BRVM: Index(), BRVM\_cap(), BRVM\_company\_cap(), BRVM\_company\_rank(), BRVM\_company\_url(), BRVM\_index\_stock(), BRVM\_market\_activity(), BRVM\_plot(), BRVM\_stock\_market(), BRVM\_ticker\_desc(), BRVM\_traded\_val(), company\_cap(), company\_country(), company\_nbrank(), company\_sector(), company\_traded\_val(), normality\_test(), stationarity\_test()
```

```
BRVM_index()
```

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 ${\tt BRVM\_index\_stock}$ 

BRVM index stock - Given a set of indexes, return their stock data

#### **Description**

Give a set of indexes and get it/their stock data. Use BRVM.index() function to know all available indexes

#### Usage

```
BRVM_index_stock(
   .ticker = "BRVM10",
   Period = 0,
   from = Sys.Date() - 89,
   to = Sys.Date()
```

# **Arguments**

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.ticker	Must be at least one index between co	"BRVM10", BRVMAG"	,"BRVMC","	BKVMAS",	"BKVMDI",	"BK

"BRVMIN", "BRVMSP", "BRVMTR")

Period Numeric number indicating time period. Valid entries are 0, 1, 5, 30, 91, and 365

representing respectively 'daily', 'one year', 'weekly', 'monthly', 'quarterly'

and 'yearly'.

from A quoted start date, ie. "2020-01-01" or "2020/01/01". The date must be in ymd

format "YYYY-MM-DD" or "YYYY/MM/DD".

to A quoted end date, ie. "2022-05-20" or "2022/05/20". The date must be in ymd

format "YYYY-MM-DD" or "YYYY/MM/DD"

#### Value

"data.frame"

#### Author(s)

Koffi Frederic SESSIE

```
BRVM_get(), BRVM_get1()
Other Data Retrieval: BRVM_bySector(), BRVM_cap(), BRVM_company_rank(), BRVM_get1(),
BRVM_get(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(),
BRVM_ticker_desc(), company_cap(), company_country(), company_nbrank(), company_sector(),
company_traded_val()
Other BRVM: BRVM.index(), BRVM_cap(), BRVM_company_cap(), BRVM_company_rank(), BRVM_company_url(),
BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(), BRVM_ticker_desc(),
```

```
BRVM_traded_val(), company_cap(), company_country(), company_nbrank(), company_sector(),
company_traded_val(), normality_test(), stationarity_test()
```

#### **Examples**

```
BRVM_index_stock(.ticker = "BRVMAG", from = "2018-01-04", to = "2022-01-04")
BRVM_index_stock("BRVM10", Period = 0, from = "2021-01-04", to = "2022-01-04") #To get daily data
BRVM_index_stock("BrvmAS", Period = 1) # To get daily data for a whole year
BRVM_index_stock("BRVM10", Period = 5, from = "2021-01-04", to = "2022-01-04") # To get weekly data
BRVM_index_stock("BRVMAG", Period = 30) # To get monthly data
BRVM_index_stock("BRVM10", Period = 91) # To get quaterly data
BRVM_index_stock("brvmtr", Period = 365) # To get yearly data
```

BRVM\_market\_activity BRVM MARKET ACTIVITIES

#### **Description**

It receives no argument and returns informations about BRVM market activities

#### Usage

```
BRVM_market_activity()
```

## Value

A tibble

#### Author(s)

Koffi Frederic SESSIE

```
https://www.brvm.org/en/summary
```

```
Other Data Retrieval: BRVM_bySector(), BRVM_cap(), BRVM_company_rank(), BRVM_get1(), BRVM_get(), BRVM_index_stock(), BRVM_index(), BRVM_plot(), BRVM_stock_market(), BRVM_ticker_desc(), company_cap(), company_country(), company_nbrank(), company_sector(), company_traded_val()

Other BRVM: BRVM.index(), BRVM_cap(), BRVM_company_cap(), BRVM_company_rank(), BRVM_company_url(), BRVM_index_stock(), BRVM_index(), BRVM_plot(), BRVM_stock_market(), BRVM_ticker_desc(), BRVM_traded_val(), company_cap(), company_country(), company_nbrank(), company_sector(), company_traded_val(), normality_test(), stationarity_test()
```

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# **Examples**

```
BRVM_market_activity()
```

 ${\tt BRVM\_plot}$ 

**BRVM PLOT** 

# Description

This function will get Ticker(s) data and then plot it.

# Usage

```
BRVM_plot(
   .company,
  from = Sys.Date() - 365,
  to = Sys.Date() - 1,
  up.col = "darkgreen",
  down.col = "red"
)
```

# Arguments

. company is the Ticker(s) name(s)  $A \ \text{quoted start date, ie. } "2020-01-01" \ \text{or } "2020/01/01". \ \text{The date must be in ymd}$ 

format "YYYY-MM-DD" or "YYYY/MM/DD".

to A quoted end date, ie. "2022-01-31" or "2022/01/31". The date must be in ymd

format "YYYY-MM-DD" or "YYYY/MM/DD"

up.col is the up color down.col is down color

## Value

An interactive chart

# Author(s)

Koffi Frederic SESSIE

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#### See Also

```
BRVM_ticker_desc()
BRVM_tickers()
Other Data Retrieval: BRVM_bySector(), BRVM_cap(), BRVM_company_rank(), BRVM_get1(),
BRVM_get(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_stock_market(),
BRVM_ticker_desc(), company_cap(), company_country(), company_nbrank(), company_sector(),
company_traded_val()
Other BRVM: BRVM.index(), BRVM_cap(), BRVM_company_cap(), BRVM_company_rank(), BRVM_company_url(),
BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_stock_market(), BRVM_ticker_desc(),
BRVM_traded_val(), company_cap(), company_country(), company_nbrank(), company_sector(),
company_traded_val(), normality_test(), stationarity_test()
```

# **Examples**

```
library(highcharter)
library(lubridate)
library(rlang)
library(httr2)
library(dplyr)
library(stringr)
library(xts)

BRVM_plot("BICC")

# You can change the up and down colors as follow
BRVM_plot("BICC", up.col = "blue", down.col = "pink")

# Plot the closing price of a group of 3 tickers
BRVM_plot(c("BICC", "ETIT", "SNTS"))
```

BRVM\_rank

BRVM\_rank - Get top or flop data of BRVM stock exchange

#### **Description**

It receives "top" or "flop" and a number 'n' and returns table of companies classification

## Usage

```
BRVM_rank(top_or_flop, n = 10)
```

# Arguments

```
top_or_flop Choose between "top" or "flop"

n is the number of companies in the classification
```

# Value

```
"tbl_df" "tbl" "data.frame"
```

# Author(s)

Koffi Frederic SESSIE

Oudouss Diakité Abdoul

Steven P. Sanderson II, MPH

# **Examples**

```
BRVM_rank("top", 15)
BRVM_rank("flop", 5)
```

BRVM\_stock\_market

BRVM Official Quotation reviews

# Description

This function receives as input a day of the week (working day) and returns the official quotation revews of that day.

# Usage

```
BRVM_stock_market(.weekday)
```

# Arguments

.weekday

A quoted date, ie. "2022-01-31" or "2022/01/31". The date must be in ymd format "YYYY-MM-DD" or "YYYY/MM/DD". Must not be a weekend or a holiday

#### Value

A formatabble table

# Author(s)

Koffi Frederic SESSIE

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#### See Also

```
Other Data Retrieval: BRVM_bySector(), BRVM_cap(), BRVM_company_rank(), BRVM_get1(), BRVM_get(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_ticker_desc(), company_cap(), company_country(), company_nbrank(), company_sector(), company_traded_val()

Other BRVM: BRVM.index(), BRVM_cap(), BRVM_company_cap(), BRVM_company_rank(), BRVM_company_url(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_ticker_desc(), BRVM_traded_val(), company_cap(), company_country(), company_nbrank(), company_sector(), company_traded_val(), normality_test(), stationarity_test()
```

#### **Examples**

```
library(httr)
library(lubridate)
library(rvest)
library(timeDate)
library(formattable)
library(stringr)

BRVM_stock_market("2022-04-25")
BRVM_stock_market("2021-03-25")
```

BRVM\_tickers

BRVM Tickers - Information about listed companies on BRVM Stock exchange

# Description

It receives no argument and returns two informations about BRVM exchange companies (ticker and company name).

#### Usage

```
BRVM_tickers()
```

#### Value

A tibble

#### Author(s)

Koffi Frederic SESSIE Oudouss Diakité Abdoul Steven P. Sanderson II, MPH 20 BRVM\_ticker\_desc

#### See Also

```
BRVM_ticker_desc()
```

# **Examples**

```
BRVM_tickers()
ticks <- BRVM_tickers()
dput(ticks$Ticker) ## Returns the name of all tickers</pre>
```

BRVM\_ticker\_desc

BRVM ticker description - BRVM ticker information

# **Description**

It receives no argument and returns informations about BRVM exchange companies.

#### Usage

```
BRVM_ticker_desc()
```

#### **Details**

This function gives many informations about each ticker, his full name, sector and his country

#### Value

A tibble

# Author(s)

Koffi Frederic SESSIE Oudouss Diakité Abdoul Steven P. Sanderson II, MPH

```
https://www.brvm.org/en/cours-actions/0

BRVM_tickers()

Other Data Retrieval: BRVM_bySector(), BRVM_cap(), BRVM_company_rank(), BRVM_get1(),

BRVM_get(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(),

BRVM_stock_market(), company_cap(), company_country(), company_nbrank(), company_sector(),

company_traded_val()

Other Richbourse: BRVM_get()
```

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```
Other BRVM: BRVM.index(), BRVM_cap(), BRVM_company_cap(), BRVM_company_rank(), BRVM_company_url(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(), BRVM_traded_val(), company_cap(), company_country(), company_nbrank(), company_sector(), company_traded_val(), normality_test(), stationarity_test()
```

#### **Examples**

```
BRVM_ticker_desc()
```

BRVM\_traded\_val

BRVM traded value - To get the traded volume value data of all companies listed on BRVM stock exchange

# Description

This function will get the traded volume value data of all companies listed on the BVRM exchange. The function takes no parameter

#### Usage

```
BRVM_traded_val()
```

## Value

A tibble

#### Author(s)

Koffi Frederic SESSIE

#### See Also

```
Other BRVM: BRVM.index(), BRVM_cap(), BRVM_company_cap(), BRVM_company_rank(), BRVM_company_url(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(), BRVM_ticker_desc(), company_cap(), company_country(), company_nbrank(), company_sector(), company_traded_val(), normality_test(), stationarity_test()
```

```
BRVM_traded_val()
```

22 company\_cap

company_cap	Company capitalization - To know the capitalization of a given company

#### **Description**

It receives one company listed on the BRVM stock exchange, Turn to upper case your input by using toupper() and returns informations about the company's capitalization

# Usage

```
company_cap(company)
```

#### **Arguments**

company

The name of company listed on the BRVM stock exchange

#### Value

"character"

#### Author(s)

Koffi Frederic SESSIE

#### See Also

```
Other Data Retrieval: BRVM_bySector(), BRVM_cap(), BRVM_company_rank(), BRVM_get1(), BRVM_get(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(), BRVM_ticker_desc(), company_country(), company_nbrank(), company_sector(), company_traded_val()

Other BRVM: BRVM.index(), BRVM_cap(), BRVM_company_cap(), BRVM_company_rank(), BRVM_company_url(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(), BRVM_ticker_desc(), BRVM_traded_val(), company_country(), company_nbrank(), company_sector(), company_traded_val(), normality_test(), stationarity_test()
```

```
library(rvest)
company_cap("BICC")
company_cap("ontbf")
```

company\_country 23

company\_country

Company's country - To know the country of a given company

# **Description**

It receives one company listed on the BRVM stock exchange, Turn to upper case your input by using toupper() and returns informations about the company's country.

#### Usage

```
company_country(company)
```

#### **Arguments**

company

The name of company listed on the BRVM stock exchange

#### Value

"character"

# Author(s)

Koffi Frederic SESSIE

#### See Also

```
Other Data Retrieval: BRVM_bySector(), BRVM_cap(), BRVM_company_rank(), BRVM_get1(), BRVM_get(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(), BRVM_ticker_desc(), company_cap(), company_nbrank(), company_sector(), company_traded_val()

Other BRVM: BRVM.index(), BRVM_cap(), BRVM_company_cap(), BRVM_company_rank(), BRVM_company_url(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(), BRVM_ticker_desc(), BRVM_traded_val(), company_cap(), company_nbrank(), company_sector(), company_traded_val(), normality_test(), stationarity_test()
```

```
company_country("BICC")
company_country("SNTS")
```

24 company\_nbrank

company\_nbrank

BRVM get company rank - Get a ticker rank according to brvm quote

#### **Description**

This function returns the given company rank from the BRVM stock exchange according to their daily change (variation). It uses BRVM\_company\_rank() to show all copanies rank before filtering the company we give as input

#### **Usage**

```
company_nbrank(.company)
```

# **Arguments**

.company

The company name

#### **Details**

This function will get the rank of one companies listed on the BVRM exchange through the Rich Bourse site. The function takes as parameter the name of company listed on BRVM

#### Value

"character"

#### Author(s)

Koffi Frederic SESSIE Oudouss Diakité Abdoul Steven P. Sanderson II, MPH

```
https://www.brvm.org/en/cours-actions/0
BRVM_company_rank()
Other Data Retrieval: BRVM_bySector(), BRVM_cap(), BRVM_company_rank(), BRVM_get1(),
BRVM_get(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(),
BRVM_stock_market(), BRVM_ticker_desc(), company_cap(), company_country(), company_sector(),
company_traded_val()
Other BRVM: BRVM.index(), BRVM_cap(), BRVM_company_cap(), BRVM_company_rank(), BRVM_company_url(),
BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(),
BRVM_ticker_desc(), BRVM_traded_val(), company_cap(), company_country(), company_sector(),
company_traded_val(), normality_test(), stationarity_test()
```

company\_sector 25

## **Examples**

```
library(dplyr)
company_nbrank("BICC")
company_nbrank("SNTS")
```

company\_sector

Company's sector - To know the sector of a given company

## **Description**

It receives one company listed on the BRVM stock exchange, Turn to upper case your input by using toupper() and returns informations about the company's sector.

## Usage

```
company_sector(company)
```

#### **Arguments**

company

The name of company listed on the BRVM stock exchange

#### Value

"character"

#### Author(s)

Koffi Frederic SESSIE

# See Also

```
Other Data Retrieval: BRVM_bySector(), BRVM_cap(), BRVM_company_rank(), BRVM_get1(), BRVM_get(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(), BRVM_ticker_desc(), company_cap(), company_country(), company_nbrank(), company_traded_val()

Other BRVM: BRVM.index(), BRVM_cap(), BRVM_company_cap(), BRVM_company_rank(), BRVM_company_url(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(), BRVM_ticker_desc(), BRVM_traded_val(), company_cap(), company_country(), company_nbrank(), company_traded_val(), normality_test(), stationarity_test()
```

```
company_sector("BICC")
company_sector("SNTS")
```

26 company\_traded\_val

company\_traded\_val

Brvm Company traded volume value - To know the traded volume value of each company

# **Description**

It receives one company listed on the BRVM stock exchange, Turn to upper case the input by using toupper() and returns informations about the company's traded value

# Usage

```
company_traded_val(company)
```

## **Arguments**

company

The name of company listed on the BRVM stock exchange

#### Value

"character"

#### Author(s)

Koffi Frederic SESSIE

#### See Also

```
Other Data Retrieval: BRVM_bySector(), BRVM_cap(), BRVM_company_rank(), BRVM_get1(), BRVM_get(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(), BRVM_ticker_desc(), company_cap(), company_country(), company_nbrank(), company_sector()

Other BRVM: BRVM.index(), BRVM_cap(), BRVM_company_cap(), BRVM_company_rank(), BRVM_company_url(), BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(), BRVM_ticker_desc(), BRVM_traded_val(), company_cap(), company_country(), company_nbrank(), company_sector(), normality_test(), stationarity_test()
```

```
company_traded_val("ETIT")
company_traded_val("ontbf")
```

normality\_test 27

normality\_test

Normality test with univariate data

#### **Description**

Performs different types of normality test.

#### Usage

```
normality_test(x, type.test)
```

#### **Arguments**

x a numeric vector or time series...

type.test character such as "Anderson-Darling", "Shapiro-Wilk", "Jarque Bera", "Cramer-

von Mises", "Shapiro-Francia", "Lilliefors (Kolmogorov-Smirnov)", "Pearson chi-

square", "Agostino".

#### Value

a number that indicates the P-value of the normality test

#### Author(s)

Koffi Frederic SESSIE

#### See Also

```
stationarity_test
Other Test: stationarity_test()
Other BRVM: BRVM.index(), BRVM_cap(), BRVM_company_cap(), BRVM_company_rank(), BRVM_company_url(),
BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(),
BRVM_ticker_desc(), BRVM_traded_val(), company_cap(), company_country(), company_nbrank(),
company_sector(), company_traded_val(), stationarity_test()
```

```
library(goftest)
library(tseries)
library(nortest)
library(fBasics)

# one and a half week stock index
# data including a weekend
y <-ts(c(5353.08,5409.24,5315.57,5270.53, 5211.66,NA,NA,5160.80,5172.37,5160.80,5172.37))
normality_test(y ,"Shapiro-Wilk")</pre>
```

28 stationarity\_test

```
my_data <- BRVM_get("snts", .from = "2020-02-05", .to = "2022-02-05")
normality_test((my_data$Close), "Agostino")
normality_test((my_data$Close[1:50]), "Jarque Bera")</pre>
```

stationarity\_test

Stationarity test with univariate data

# **Description**

Performs different types of stationarity test.

## Usage

```
stationarity_test(x, type.test)
```

#### Arguments

x a numeric vector or time series.

type.test character such as "Box-Pierce and Ljung-Box", "Kwiatkowski-Phillips-Schmidt-

Shin (KPSS)", "Augmented Dickey-Fuller Test (ADF)", "Phillips-Perron Unit

Root Test"

#### Value

a number that indicates the P-value of the stationarity test

# Author(s)

Koffi Frederic SESSIE

```
normality_test
Other Test: normality_test()
Other BRVM: BRVM.index(), BRVM_cap(), BRVM_company_cap(), BRVM_company_rank(), BRVM_company_url(),
BRVM_index_stock(), BRVM_index(), BRVM_market_activity(), BRVM_plot(), BRVM_stock_market(),
BRVM_ticker_desc(), BRVM_traded_val(), company_cap(), company_country(), company_nbrank(),
company_sector(), company_traded_val(), normality_test()
```

stationarity\_test 29

```
library(tseries)

# one and a half week stock index
# data including a weekend
y <-ts(c(5353.08,5409.24,5315.57,5270.53, 5211.66,NA,NA,5160.80,5172.37,5160.80,5172.37))
stationarity_test(y, "Box-Pierce and Ljung-Box")</pre>
```

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```