

Package: BRVM (via r-universe)

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Type Package

Title Retrieve Historical Data of Companies Listed on the 'BRVM' Stock Exchange

Version 5.0.1

Description Provide real-time access to data from the Regional Securities Exchange SA, 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.

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Encoding UTF-8

Roxygen list(markdown = TRUE)

Imports magrittr, rlang (>= 0.4.11), tidyr, dplyr, gsheets, httr, httr2, tseries, goftest, nortest, fBasics, stringr, tibble, xml2, highcharter, xts, formattable, timeDate, rvest, lubridate

Suggests rmarkdown, knitr, roxygen2

VignetteBuilder knitr

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Repository <https://spsanderson.r-universe.dev>

RemoteUrl <https://github.com/Koffi-Fredysessie/BRVM>

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BRVM.index	<i>BRVM Available Indexes</i>
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Description

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

Usage

BRVM.index()

Value

A character

Author(s)

Koffi Frederic SESSIE

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	<i>BRVM By Sector</i>
---------------	-----------------------

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

See Also

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\(\)](#)

Examples

```
library(stringr)
library(rlang)
library(xml2)
library(rvest)
library(dplyr)

sectors <- c("Industry", "Administration", "Public service", "AUtr", "FINANCE",
            "distribution", 25)
BRVM_bySector(.sectors = sectors)
BRVM_bySector(.sectors = "All")
BRVM_bySector(.sectors = c("Other", "Agriculture"))
```

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\(\)](#)

Examples

```
BRVM_cap()
```

BRVM_company_cap	<i>BRVM companies capitalization value - To get the capitalization value data of all companies listed on BRVM stock exchange</i>
------------------	--

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\(\)](#)

Examples

```
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>

Examples

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

BRVM_company_rank	<i>BRVM Companies Rank - Get all tickers rank according to last quotation</i>
-------------------	---

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 Diakit  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\(\)](#)

Examples

```
BRVM_company_rank()
comp.rank<-BRVM_company_rank()
comp.rank<-comp.rank%>%
dplyr::arrange(desc(percent_change))
comp.rank
```

BRVM_company_rank()

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\(\)](#)

Examples

BRVM_company_url("BICC")

BRVM_direction	<i>BRVM Rank</i>
----------------	------------------

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

Examples

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

BRVM_get

*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

<code>.symbol</code>	A vector of symbols, like: <code>c("BICC", "XOM", "SlbC")</code>
<code>.from</code>	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".
<code>.to</code>	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

See Also

<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()`

Examples

```

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

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

```

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

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\(\)](#)

Examples

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

symbols <- c("BiCc", "XOM", "SlbC")
data_tbl <- BRVM_get1(ticker = symbols)
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
```

BRVM_index

BRVM Get - Get BRVM indexes Data

Description

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

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: [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\(\)](#)

Examples

```
BRVM_index()
```

```
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

<code>.ticker</code>	Must be at least one index between c("BRVM10","BRVMAG","BRVMC","BRVMAS","BRVMDI","BRVMIN","BRVMSP", "BRVMTR")
<code>Period</code>	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' .
<code>from</code>	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".
<code>to</code>	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

See Also

`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

See Also

<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\(\)](#)

Examples

```
BRVM_market_activity()
```

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

<code>.company</code>	is the Ticker(s) name(s)
<code>from</code>	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".
<code>to</code>	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"
<code>up.col</code>	is the up color
<code>down.col</code>	is down color

Value

An interactive chart

Author(s)

Koffi Frederic SESSIE

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 reviews of that day.

Usage

```
BRVM_stock_market(.weekday)
```

Arguments

<code>.weekday</code>	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 formatable table

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_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	<i>BRVM Tickers - Information about listed companies on BRVM Stock exchange</i>
--------------	---

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

See Also

```
BRVM_ticker_desc()
```

Examples

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

BRVM_ticker_desc	<i>BRVM ticker description - BRVM ticker information</i>
------------------	--

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

See Also

<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\(\)](#)

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

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\(\)](#)

Examples

```
BRVM_traded_val()
```

company_cap	<i>Company capitalization - To know the capitalization of a given company</i>
-------------	---

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\(\)](#)

Examples

```
library(rvest)

company_cap("BICC")
company_cap("ontbf")
```

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\(\)](#)

Examples

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

company_nbrank	<i>BRVM get company rank - Get a ticker rank according to brvm quote</i>
----------------	--

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

See Also

<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\(\)](#)

Examples

```
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\(\)](#)

Examples

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

company_traded_val	<i>Brvm Company traded volume value - To know the traded volume value of each company</i>
--------------------	---

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()`

Examples

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

normality_test

Normality test with univariate data

Description

Performs different types of normality test.

Usage

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

Arguments

<code>x</code>	a numeric vector or time series..
<code>type.test</code>	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\(\)](#)

Examples

```
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")

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")
```

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

See Also

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\(\)](#)

Examples

```
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")
```

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