Package ‘BRVM’

February 21, 2024

Type Package

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

Version 5.3.0

Description Provide real-time access to data from the Regional Securities Exchange SA(<https://www.brvm.org/en>), 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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URL https://rpubs.com/Fredysessie/Readme_BRVM_Stock

Encoding UTF-8

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

Suggests rmarkdown, knitr, roxygen2

VignetteBuilder knitr

RoxygenNote 7.2.3

NeedsCompilation no

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BRVM.index

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

Examples

\texttt{BRVM\_index()}

\begin{table}[h]
\centering
\begin{tabular}{ll}
\texttt{BRVM\_bySector} & \textit{BRVM By Sector} \\
\end{tabular}
\end{table}

Description

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

Usage

\texttt{BRVM\_bySector(.sectors = NULL)}

Arguments

\texttt{.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: \texttt{BRVM\_cap()}, \texttt{BRVM\_company\_rank()}, \texttt{BRVM\_get1()}, \texttt{BRVM\_get()}, \texttt{BRVM\_index\_stock()}, \texttt{BRVM\_index()}, \texttt{BRVM\_market\_activity()}, \texttt{BRVM\_plot()}, \texttt{BRVM\_stock\_market()}, \texttt{BRVM\_ticker\_desc()}, \texttt{company\_cap()}, \texttt{company\_country()}, \texttt{company\_nbrank()}, \texttt{company\_sector()}, \texttt{company\_traded\_val()}
Examples

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

             "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**

```r
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()`
BRVM_company_cap

Examples

BRVM_cap()

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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()
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

BRVM Company Rank - Get all tickers rank according to last quotation

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()

Examples

library(httr)
#library(dplyr)
library(rvest)
BRVM_company_rank()
comp.rank <- BRVM_company_rank()
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")
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 - 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

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

```r
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**

```r
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 quarterly data
BRVM_get1(c("brvmtr", "BiCc", "BOAS"), Period = 365 ) # To get yearly data
BRVM_index

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 - 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

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

Arguments

- `.ticker`: Must be at least one index between c("BRVM10", "BRVMAG", "BRVMC", "BRVMAS", "BRVMDI", "BRVMS", "BRVMIN", "BRVMS", "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

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_market_activity**

\[
\text{BRVM\_traded\_val()}, \text{company\_cap()}, \text{company\_country()}, \text{company\_nbrank()}, \text{company\_sector()}, \text{company\_traded\_val()}, \text{normality\_test()}. \text{stationarity\_test()}
\]

**Examples**

\[
\text{BRVM\_index\_stock(.ticker = "BRVMAG", from = "2018\-01\-04", to = "2022\-01\-04")}
\]

\[
\text{BRVM\_index\_stock("BRVM10", Period = 0, from = "2021\-01\-04", to = "2022\-01\-04" ) \#To get daily data}
\]

\[
\text{BRVM\_index\_stock("BrvmAS", Period = 1 ) \# To get daily data for a whole year}
\]

\[
\text{BRVM\_index\_stock("BRVM10", Period = 5, from = "2021\-01\-04", to = "2022\-01\-04" ) \# To get weekly data}
\]

\[
\text{BRVM\_index\_stock("BRVM10", Period = 30 ) \# To get monthly data}
\]

\[
\text{BRVM\_index\_stock("BRVM10", Period = 91 ) \# To get quaterly data}
\]

\[
\text{BRVM\_index\_stock("brvmtr", Period = 365 ) \# To get yearly data}
\]

---

**BRVM**

**BRVM MARKET ACTIVITIES**

**Description**

It receives no argument and returns informations about BRVM market activities

**Usage**

\[
\text{BRVM\_market\_activity()}
\]

**Value**

A tibble

**Author(s)**

Koffi Frederic SESSIE

**See Also**

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

Other Data Retrieval: \text{BRVM\_by\_Sector()}, \text{BRVM\_cap()}, \text{BRVM\_company\_rank()}, \text{BRVM\_get1()}, \text{BRVM\_get()}, \text{BRVM\_index\_stock()}, \text{BRVM\_index()}, \text{BRVM\_plot()}, \text{BRVM\_stock\_market()}, \text{BRVM\_ticker\_desc()}, \text{company\_cap()}, \text{company\_country()}, \text{company\_nbrank()}, \text{company\_sector()}, \text{company\_traded\_val()}

Other BRVM: \text{BRVM\_index()}, \text{BRVM\_cap()}, \text{BRVM\_company\_cap()}, \text{BRVM\_company\_rank()}, \text{BRVM\_company\_url()}, \text{BRVM\_index\_stock()}, \text{BRVM\_index()}, \text{BRVM\_plot()}, \text{BRVM\_stock\_market()}, \text{BRVM\_ticker\_desc()}, \text{BRVM\_traded\_val()}, \text{company\_cap()}, \text{company\_country()}, \text{company\_nbrank()}, \text{company\_sector()}, \text{company\_traded\_val()}, \text{normality\_test()}, \text{stationarity\_test()}
Examples

BRVM_market_activity()

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)
  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"
  up.col is the up color
  down.col is down color

Value

An interactive chart

Author(s)

Koffi Frederic SESSIE
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)

---

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

.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
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

```r
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**

```r
BRVM_tickers()
```

**Value**

A tibble

**Author(s)**

Koffi Frederic SESSIE
Oduouss 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  
*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

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()
**BRVM_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_traded_val()`, `company_cap()`, `company_country()`, `company_nbrank()`, `company_sector()`, `company_traded_val()`, `normality_test()`, `stationarity_test()`

**Examples**

```r
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**

```r
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**

```r
BRVM_traded_val()
```
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()

Examples

library(rvest)

company_cap("BICC")
company_cap("ontbf")
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")
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 companies 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 BRVM exchange through the Rich Bourse site. The function takes as parameter the name of company listed on BRVM.

Value

"character"

Author(s)

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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**

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

### 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

```r
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

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

```r
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_nrank(), 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_nrank(), company_sector(), normality_test(), stationarity_test()

Examples

```r
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

- **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()

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")
```r
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**

```r
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()
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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