

# Package ‘bolsec’

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**Type** Package

**Title** Bolivian Securities

**Version** 0.1.1

**Description** Provides data import and offers 3 daily snapshot functions from securities of varying prices traded on the Bolivian Securities Exchange, website <<https://www.bbv.com.bo/>>. The snapshots include a detailed list, scatter plot correlation, and descriptive statistics table for the securities.

**License** GPL-3

**Encoding** UTF-8

**Imports** dplyr, rvest, formattable, stats, graphics

**Suggests** knitr, rmarkdown

**VignetteBuilder** knitr

**NeedsCompilation** no

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**Repository** CRAN

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`get_graph`*Plots correlation of varying securities.*

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**Description**

This daily scatter plot illustrates the correlation between rate and price variations of securities in the Bolivian Securities Exchange.

**Usage**

```
get_graph(data)
```

**Arguments**

`data` A defined variable storing the daily data from the `import_data` function.

**Value**

ISSUER NAME	Above the scatter dots are the company names that issue each traded security.
COEFFICIENT	Red colored number with two decimals, representing the correlation of all traded securities.
VAR.	Lying on the x-axis, range of the price variations between yesterday and today from all traded securities.
RATE	Lying on the y-axis, range of the percentage interest rates of all traded securities.

**Author(s)**

Alvaro Ignacio Tapia

**References**

The Bolivian Stock Exchange (Bolsa Boliviana de Valores), based in La Paz, Bolivia, offers trading of equities, indexes, gold, and local commodities.

**Examples**

```
data <- import_data()
get_graph(data)
```

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get_list	<i>Lists characteristics of varying securities.</i>
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**Description**

This daily list of securities presents the highest and lowest price variations in the Bolivian Securities Exchange.

**Usage**

```
get_list(data)
```

**Arguments**

data	A defined variable storing the daily data from the import_data function.
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**Value**

TICKER SYMBOL	This column lists the code names of each traded security.
ISSUER NAME	This column lists the company names that issue each traded security.
PRICE	This column lists the today's prices of each traded security.
RATE	This column lists the percentage interest rate of each traded security.
VAR.	This column lists the price variations between yesterday and today for each traded security.

**Author(s)**

Alvaro Ignacio Tapia

**References**

The Bolivian Stock Exchange (Bolsa Boliviana de Valores), based in La Paz, Bolivia, offers trading of equities, indexes, gold, and local commodities.

**Examples**

```
data <- import_data()  
get_list(data)
```

---

`get_stats`*Descriptive statistics of varying securities.*

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**Description**

This daily chart exhibits the descriptive statistics of price, rate and price variation from securities in the Bolivian Securities Exchange.

**Usage**

```
get_stats(data)
```

**Arguments**

`data` A defined variable storing the daily data from the `import_data` function.

**Value**

MEAN	This row displays the mean calculations of today's prices, rates, and price variations of all traded securities.
MEDIAN	This row displays the median calculations of today's prices, rates, and price variations of all traded securities.
ST. DEV.	This row displays the standard deviation calculations of today's prices, rates, and price variations of all traded securities.
MIN.	This row displays the minimum value of today's prices, rates, and price variations of all traded securities.
MAX.	This row displays the maximum value of today's prices, rates, and price variations of all traded securities.

**Author(s)**

Alvaro Ignacio Tapia

**References**

The Bolivian Stock Exchange (Bolsa Boliviana de Valores), based in La Paz, Bolivia, offers trading of equities, indexes, gold, and local commodities.

**Examples**

```
data <- import_data()
get_stats(data)
```

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import_data	<i>Imports daily data of varying securities.</i>
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**Description**

Primary function that imports daily data of securities presenting the highest and lowest price variations in the Bolivian Securities Exchange.

**Usage**

```
import_data(verbose = TRUE)
```

**Arguments**

verbose	Logical. If TRUE, display messages about the data import process. Default is TRUE.
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**Value**

TICKER SYMBOL	This column lists the code names of each traded security.
ISSUER NAME	This column lists the company names that issue each traded security.
PRICE	This column lists today's prices of each traded security.
RATE	This column lists the percentage interest rate of each traded security.
VAR.	This column lists the price variations between yesterday and today for each traded security.

The function returns a data frame with the above columns. If no data is available, the function returns NULL.

**Author(s)**

Alvaro Ignacio Tapia

**References**

The Bolivian Stock Exchange (Bolsa Boliviana de Valores), based in La Paz, Bolivia, offers trading of equities, indexes, gold, and local commodities.

**Examples**

```
# Import market data
data <- import_data()
head(data)
```

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