Package 'yahoofinancer' November 14, 2024

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Title Fetch Data from Yahoo Finance API
Version 0.4.0
Description Obtain historical and near real time data related to stocks, index and currencies from the Yahoo Finance API. This package is community maintained and is not officially supported by 'Yahoo'. The accuracy of data is only as correct as provided on https://finance.yahoo.com/ >.
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Description

Retrieve current conversion rate between two currencies as well as historical rates.

Usage

```
currency_converter(
  from = "EUR",
  to = "USD",
  start = NULL,
  end = NULL,
  period = "ytd",
  interval = "1d"
)
```

Arguments

from Currency to convert from. Currency to convert to. to Specific starting date. String or date object in yyyy-mm-dd format. start end Specific ending date. String or date object in yyyy-mm-dd format. period Length of time. Defaults to 'ytd' Valid values are: • '1d' • '5d' • '1mo' • '3mo' • '6mo' • '1y' • '2y' • '5y' • '10y' • 'ytd' • 'max' interval Time between data points. Defaults to '1d' Valid values are:

• '1h'

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- '1d'
- '5d'
- '1wk'
- '1mo'
- '3mo'

Value

A data.frame.

Examples

```
currency_converter('GBP', 'USD', '2022-07-01', '2022-07-10')
currency_converter('GBP', 'USD', period = '1mo', interval = '1d')
```

get_currencies

Currencies

Description

List of currencies Yahoo Finance supports.

Usage

```
get_currencies()
```

Value

Symbol, short and long name of the currencies.

Examples

```
get_currencies()
```

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get_market_summary

Market Summary

Description

Summary info of relevant exchanges for specific country.

Usage

```
get_market_summary(country = "US")
```

Arguments

country

Name of the country.

Value

A data.frame.

Examples

```
get_market_summary(country = 'US')
```

get_trending

Trending securities

Description

List of trending securities for specific country.

Usage

```
get_trending(country = "US", count = 10)
```

Arguments

country Name of the country.

Number of securities.

Value

Securities trending in the country.

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Examples

```
get_trending()
```

Index-class

R6 Class Representing a Ticker

Description

Base class for getting all data related to indices from Yahoo Finance API.

Format

An R6 class object

Public fields

index Index for which data is retrieved

Methods

Public methods:

```
• Index$new()
```

- Index\$set_index()
- Index\$get_history()
- Index\$clone()

Method new(): Create a new Index object

```
Usage:
Index$new(index = NA)
Arguments:
index Index
Returns: A new 'Index' object
Examples:
nifty_50 <- Index$new('^NSEI')</pre>

Author cot index(): Set a new index
```

Method set_index(): Set a new index.

Usage:

Index\$set_index(index)

Arguments:

index New index

Examples:

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```
indice <- Index$new('^NSEI')</pre>
 indice$set_index('^NDX')
Method get_history(): Retrieves historical data
 Usage:
 Index$get_history(period = "ytd", interval = "1d", start = NULL, end = NULL)
 period Length of time. Defaults to 'ytd'. Valid values are:
     • '1d'
     • '5d'
     • '1mo'
     • '3mo'
     • '6mo'
     • '1y'
     • '2y'
     • '5y'
     • '10y'
     • 'ytd'
     • 'max'
 interval Time between data points. Defaults to '1d'. Valid values are:
     • '1m'
     • '2m'
     • '5m'
     • '15m'
     • '30m'
     • '60m'
     • '90m'
     • '1h'
     • '1d'
     • '5d'
     • '1wk'
     • '1mo'
     • '3mo'
 start Specific starting date. String or date object in yyyy-mm-dd format.
 end Specific ending date. String or date object in yyyy-mm-dd format.
 Returns: A data.frame.
 Examples:
 \donttest{
 nifty <- Index$new('^NSEI')</pre>
 nifty$get_history(start = '2022-07-01', interval = '1d')
 nifty$get_history(start = '2022-07-01', end = '2022-07-14', interval = '1d')
 nifty$get_history(period = '1mo', interval = '1d')
 }
```

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Method clone(): The objects of this class are cloneable with this method.

```
Usage:
Index$clone(deep = FALSE)
Arguments:
deep Whether to make a deep clone.
```

Examples

```
## -----
## Method `Index$new`
## -----
nifty_50 <- Index$new('^NSEI')</pre>
## -----
## Method `Index$set_index`
## -----
indice <- Index$new('^NSEI')</pre>
indice$set_index('^NDX')
## -----
## Method `Index$get_history`
## -----
nifty <- Index$new('^NSEI')</pre>
nifty$get_history(start = '2022-07-01', interval = '1d')
nifty$get_history(start = '2022-07-01', end = '2022-07-14', interval = '1d')
nifty$get_history(period = '1mo', interval = '1d')
```

Ticker-class

R6 Class Representing a Ticker

Description

Base class for getting all data related to ticker from Yahoo Finance API.

Format

An R6 class object

Public fields

symbol Symbol for which data is retrieved.

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Active bindings

```
valuation_measures Retrieves valuation measures for most recent four quarters
recommendations Recommended symbols
technical_insights Technical indicators for given symbol
currency Currency
exchange_name Exchange name
full_exchange_name Full exchange name
first_trade_date First trade date
regular_market_time Regular market time
timezone Time zone
exchange_timezone_name Exchange timezone name
regular_market_price Regular market price
fifty_two_week_high Fifty two week high
fifty_two_week_low Fifty two week low
regular_market_day_high Regular market day high
regular_market_day_low Regular market day low
regular_market_volume Regular market volume
previous_close Previous close
```

Methods

Public methods:

```
• Ticker$new()
```

- Ticker\$set_symbol()
- Ticker\$get_history()
- Ticker\$clone()

Method new(): Create a new Ticker object.

```
Usage:
Ticker$new(symbol = NA)
Arguments:
symbol Symbol.
Returns: A new 'Ticker' object
Examples:
aapl <- Ticker$new('aapl')

Method set_symbol(): Set a new symbol.
Usage:
Ticker$set_symbol(symbol)
Arguments:</pre>
```

```
symbol New symbol
 Examples:
 aapl <- Ticker$new('aapl')</pre>
 aapl$set_symbol('msft')
Method get_history(): Retrieves historical pricing data.
 Usage:
 Ticker$get_history(period = "ytd", interval = "1d", start = NULL, end = NULL)
 period Length of time. Defaults to 'ytd'. Valid values are:
     • '1d'
     • '5d'
     • '1mo'
     • '3mo'
     • '6mo'
     • '1y'
     • '2y'
     • '5y'
     • '10y'
     • 'ytd'
     • 'max'
 interval Time between data points. Defaults to '1d'. Valid values are:
     • '1m'
     • '2m'
     • '5m'
     • '15m'
     • '30m'
     • '60m'
     • '90m'
     • '1h'
      • '1d'
     • '5d'
     • '1wk'
     • '1mo'
     • '3mo'
 start Specific starting date. String or date object in yyyy-mm-dd format.
 end Specific ending date. String or date object in yyyy-mm-dd format.
 Returns: A data.frame.
 Examples:
```

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```
\donttest{
    aapl <- Ticker$new('aapl')
    aapl$get_history(start = '2022-07-01', interval = '1d')
    aapl$get_history(start = '2022-07-01', end = '2022-07-14', interval = '1d')
    aapl$get_history(period = '1mo', interval = '1d')
}

Method clone(): The objects of this class are cloneable with this method.

Usage:
    Ticker$clone(deep = FALSE)

Arguments:
    deep Whether to make a deep clone.</pre>
```

Examples

validate

Symbol validation

Description

Validate symbols before retrieving data.

Usage

```
validate(symbol = NULL)
```

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Arguments

symbol Ticker, index or fund name.

Examples

```
validate("aapl")
validate("aapls")
```

Index

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```