

Package ‘yahoofinancer’

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Type Package

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/>](https://finance.yahoo.com/).

Depends R(>= 3.4)

Imports curl, httr, jsonlite, lubridate, magrittr, purrr, R6, stringr

Suggests covr, httpptest, testthat (>= 3.0.0)

Config/testthat/edition 3

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Encoding UTF-8

URL <https://yahoofinancer.rsquaredacademy.com/>,
<https://github.com/rsquaredacademy/yahoofinancer>

BugReports <https://github.com/rsquaredacademy/yahoofinancer/issues>

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Author Aravind Hebbali [aut, cre]

Maintainer Aravind Hebbali <hebbali.aravind@gmail.com>

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currency_converter	<i>Currency converter</i>
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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.
to	Currency to convert to.
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.
period	Length of time. Defaults to 'ytd' Valid values are: <ul style="list-style-type: none"> • '1d' • '5d' • '1mo' • '3mo' • '6mo' • '1y' • '2y' • '5y' • '10y' • 'ytd' • 'max'
interval	Time between data points. Defaults to '1d' Valid values are: <ul style="list-style-type: none"> • '1h'

- '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	<i>Currencies</i>
----------------	-------------------

Description

List of currencies Yahoo Finance supports.

Usage

```
get_currencies()
```

Value

Symbol, short and long name of the currencies.

Examples

```
get_currencies()
```

`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.
`count` Number of securities.

Value

Securities trending in the country.

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')
```

Method `set_index()`: Set a new index.

Usage:

```
Index$set_index(index)
```

Arguments:

index New index

Examples:

```

indice <- Index$new('^NSEI')
indice$set_index('^NDX')

```

Method `get_history()`: Retrieves historical data

Usage:

```
Index$get_history(period = "ytd", interval = "1d", start = NULL, end = NULL)
```

Arguments:

`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$new('^NSEI')
nifty$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')
}

```

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')

## -----
## Method `Index$set_index`
## -----

indice <- Index$new('^NSEI')
indice$set_index('^NDX')

## -----
## Method `Index$get_history`
## -----

nifty <- Index$new('^NSEI')
nifty$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.

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:

symbol New symbol

Examples:

```
aapl <- Ticker$new('aapl')
aapl$set_symbol('msft')
```

Method `get_history()`: Retrieves historical pricing data.

Usage:

```
Ticker$get_history(period = "ytd", interval = "1d", start = NULL, end = NULL)
```

Arguments:

`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{
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.

Examples

```

## -----
## Method `Ticker$new`
## -----

aapl <- Ticker$new('aapl')

## -----
## Method `Ticker$set_symbol`
## -----

aapl <- Ticker$new('aapl')
aapl$set_symbol('msft')

## -----
## Method `Ticker$get_history`
## -----

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')

```

validate

Symbol validation

Description

Validate symbols before retrieving data.

Usage

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

validate

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Arguments

symbol Ticker, index or fund name.

Examples

```
validate("aapl")  
validate("aapl$")
```

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