

# Package: yahoofinancer (via r-universe)

November 2, 2024

**Type** Package

**Title** Fetch Data from Yahoo Finance API

**Version** 0.3.0.9000

**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/>.

**Depends** R(>= 3.4)

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

**Suggests** covr, httpptest, testthat (>= 3.0.0)

**Config/testthat/edition** 3

**License** MIT + file LICENSE

**Encoding** UTF-8

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

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

**RoxygenNote** 7.2.3

**Repository** <https://rsquaredacademy.r-universe.dev>

**RemoteUrl** <https://github.com/rsquaredacademy/yahoofinancer>

**RemoteRef** HEAD

**RemoteSha** 9c476cb61e463f240e56549c128733ed47731b4a

## Contents

currency_converter . . . . .	2
get_currencies . . . . .	3
get_market_summary . . . . .	4
get_trending . . . . .	4

Index-class . . . . .	5
Ticker-class . . . . .	7
validate . . . . .	10

<b>Index</b>	<b>11</b>
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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"> <li>• '1d'</li> <li>• '5d'</li> <li>• '1mo'</li> <li>• '3mo'</li> <li>• '6mo'</li> <li>• '1y'</li> <li>• '2y'</li> <li>• '5y'</li> <li>• '10y'</li> <li>• 'ytd'</li> <li>• 'max'</li> </ul>
interval	Time between data points. Defaults to '1d' Valid values are: <ul style="list-style-type: none"> <li>• '1h'</li> </ul>

- '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')
```

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get_currencies	<i>Currencies</i>
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**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*

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**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*

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**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  
option\_chain Option chain data for all expiration dates for a given symbol  
option\_expiration\_dates Option expiration dates  
option\_strikes Option strikes  
quote Get real-time quote information for given symbol  
recommendations Recommended symbols  
technical\_insights Technical indicators for given symbol

**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')

```

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 validate

*Symbol validation*


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**Description**

Validate symbols before retrieving data.

**Usage**

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

**Arguments**

symbol            Ticker, index or fund name.

**Examples**

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

# Index

`currency_converter`, [2](#)

`get_currencies`, [3](#)

`get_market_summary`, [4](#)

`get_trending`, [4](#)

`Index` (`Index-class`), [5](#)

`Index-class`, [5](#)

`Ticker` (`Ticker-class`), [7](#)

`Ticker-class`, [7](#)

`validate`, [10](#)