

# Package ‘alphavantager’

March 1, 2020

**Title** Lightweight R Interface to the Alpha Vantage API

**Version** 0.1.2

**Description** Alpha Vantage has free historical financial information.  
All you need to do is get a free API key at <<https://www.alphavantage.co>>.  
Then you can use the R interface to retrieve free equity information.  
Refer to the Alpha Vantage website for more information.

**URL** <https://github.com/business-science/alphavantager>

**BugReports** <https://github.com/business-science/alphavantager/issues>

**License** GPL (>= 3)

**Encoding** UTF-8

**LazyData** true

**Depends** R (>= 3.3.0)

**Imports** dplyr (>= 0.7.0), glue (>= 1.1.1), httr (>= 1.2.1), jsonlite (>= 1.5), purrr (>= 0.2.2.2), readr (>= 1.1.1), stringr (>= 1.2.0), tibble (>= 1.3.3), tidyr (>= 0.6.3), timetk (>= 0.1.1.1)

**Suggests** tidyquant, testthat, knitr

**RoxygenNote** 7.0.2

**NeedsCompilation** no

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**Repository** CRAN

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## R topics documented:

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alphavantager

*alphavantager: A lightweight R interface to the Alpha Vantage API*

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### Description

alphavantager: A lightweight R interface to the Alpha Vantage API

### Details

The alphavantager package provides a lightweight interface to the Alpha Vantage API. Alpha Vantage is a free source for financial data that in many cases is more accurate than Yahoo Finance and Google Finance. Get a free API KEY at <https://www.alphavantage.co>. Then use the R interface functions `av_api_key("YOUR_KEY")` to set the API key and the `av_get()` function to get financial data.

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av\_api\_key

*Set the Alpha Vantage API Key*

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### Description

Set the Alpha Vantage API Key

### Usage

```
av_api_key(api_key)
```

### Arguments

`api_key` A character string with your Alpha Vantage API Key.

### Details

The Alpha Vantage API key must be set prior to using `av_get()`. You can obtain an API key at the [Alpha Vantage Website](#).

### Value

Invisibly returns API key once set. Use print method to view.

### See Also

[av\\_get\(\)](#)

## Examples

```
## Not run:  
av_api_key("YOUR_API_KEY")  
av_get(symbol = "MSFT", av_fun = "TIME_SERIES_INTRADAY", interval = "15min", outputsize = "full")  
  
## End(Not run)
```

---

av\_get

*Get financial data from the Alpha Vantage API*

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## Description

Get financial data from the Alpha Vantage API

## Usage

```
av_get(symbol, av_fun, ...)
```

## Arguments

|        |  |
|--------|--|
| symbol | A character string of an appropriate stock or fund. See parameter "symbol" in <a href="#">Alpha Vantage API documentation</a> .                    |
| av_fun | A character string matching an appropriate Alpha Vantage "function". See parameter "function" in <a href="#">Alpha Vantage API documentation</a> . |
| ...    | Additional parameters passed to the Alpha Vantage API. For a list of parameters, visit the <a href="#">Alpha Vantage API documentation</a> .       |

## Details

**Get more than one symbol.** The Alpha Vantage API is setup to return one symbol per API call. Use the `tidyquant::tq_get()` API to get multiple symbols.

## Value

Returns a tibble of financial data

## See Also

[av\\_api\\_key\(\)](#)

**Examples**

```
## Not run:

# SETUP API KEY
av_api_key("YOUR_API_KEY")

# ---- 1.0 STOCK TIME SERIES ----

# 1.1 TIME SERIES INTRADAY
av_get("MSFT", av_fun = "TIME_SERIES_INTRADAY", interval = "5min")

# 1.2 TIME SERIES DAILY ADJUSTED
av_get("MSFT", av_fun = "TIME_SERIES_DAILY_ADJUSTED")

# 1.3 QUOTE ENDPOINTS
av_get("MSFT", av_fun = "GLOBAL_QUOTE")

# ---- 2.0 FOREX ----

# 2.1 CURRENCY EXCHANGE RATES
data <- av_get("EUR/USD", av_fun = "CURRENCY_EXCHANGE_RATE")

# 2.2 FX INTRADAY
av_get("EUR/USD", av_fun = "FX_INTRADAY", interval = "5min")

# 2.3. FX DAILY
av_get("EUR/USD", av_fun = "FX_DAILY")

# ---- 3.0 TECHNICAL INDICATORS ----

# 3.1 SMA
av_get("MSFT", av_fun = "SMA", interval = "weekly", time_period = 10, series_type = "open")

# ---- 4.0 SECTOR PERFORMANCE ----

# 4.1 Sector Performance
av_get(av_fun = "SECTOR")

## End(Not run)
```

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