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Alpha Vantage API Documentation

Our stock APIs © (<https://www.alphavantage.co/>) are grouped into eight categories: (1) Core Time Series Stock Data APIs, (2) US Options Data APIs, (3) Alpha Intelligence™, (4) Fundamental Data, (5) Physical and Digital/Crypto Currencies (e.g., Bitcoin), (6) Commodities, (7) Economic Indicators, and (8) Technical Indicators - also outlined here (https://www.alphavantage.co/best_stock_market_api_review/). Examples in this documentation are for demo purposes. Claim your free API key (<https://www.alphavantage.co/support/#api-key>) today to explore our full API offerings!

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Time Series Stock Data APIs

This suite of APIs provide global equity data in 4 different temporal resolutions: (1) daily, (2) weekly, (3) monthly, and (4) intraday, with 20+ years of historical depth. A lightweight ticker quote endpoint and several utility functions such as ticker search and market open/closure status are also included for your convenience.

TIME_SERIES_INTRADAY Trending

This API returns current and 20+ years of historical intraday OHLCV time series of the equity specified, covering pre-market and post-market hours where applicable (e.g., 4:00am to 8:00pm Eastern Time for the US market). You can query both raw (as-traded) and split/dividend-adjusted intraday data from this endpoint. The OHLCV data is sometimes called "candles" in finance literature.

API Parameters

■ Required: function

The time series of your choice. In this case, `function=TIME_SERIES_INTRADAY`

■ Required: symbol

The name of the equity of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`

■ Optional: adjusted

By default, `adjusted=true` and the output time series is adjusted by historical split and dividend events. Set `adjusted=false` to query raw (as-traded) intraday values.

■ Optional: extended_hours

By default, `extended_hours=true` and the output time series will include both the regular trading hours and the extended (pre-market and post-market) trading hours (4:00am to 8:00pm Eastern Time for the US market). Set `extended_hours=false` to query regular trading hours (9:30am to 4:00pm US Eastern Time) only.

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■ Optional: month

By default, this parameter is not set and the API will return intraday data for the most recent days of trading. You can use the `month` parameter (in YYYY-MM format) to query a specific month in history. For example, `month=2009-01`. Any month in the last 20+ years since 2000-01 (January 2000) is supported.

■ Optional: outputsize

By default, `outputsize=compact`. Strings `compact` and `full` are accepted with the following specifications: `compact` returns only the latest 100 data points in the intraday time series; `full` returns trailing 30 days of the most recent intraday data if the `month` parameter (see above) is not specified, or the full intraday data for a specific month in history if the `month` parameter is specified. The "compact" option is recommended if you would like to reduce the data size of each API call.

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the intraday time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

The API will return the most recent 100 intraday OHLCV bars by default when the outputsize parameter is not set

https://www.alphavantage.co/query?function=TIME_SERIES_INTRADAY&symbol=IBM&interval=5min&apikey=demo

(https://www.alphavantage.co/query?function=TIME_SERIES_INTRADAY&symbol=IBM&interval=5min&apikey=demo)

Query the most recent full 30 days of intraday data by setting outputsize=full

https://www.alphavantage.co/query?function=TIME_SERIES_INTRADAY&symbol=IBM&interval=5min&outputsize=full&apikey=demo

(https://www.alphavantage.co/query?function=TIME_SERIES_INTRADAY&symbol=IBM&interval=5min&outputsize=full&apikey=demo)

Query intraday data for a given month in history (e.g., 2009-01). Any month in the last 20+ years (since 2000-01) is supported

https://www.alphavantage.co/query?function=TIME_SERIES_INTRADAY&symbol=IBM&interval=5min&month=2009-01&outputsize=full&apikey=demo

(https://www.alphavantage.co/query?function=TIME_SERIES_INTRADAY&symbol=IBM&interval=5min&month=2009-01&outputsize=full&apikey=demo)

Downloadable CSV file:

https://www.alphavantage.co/query?function=TIME_SERIES_INTRADAY&symbol=IBM&interval=5min&apikey=demo&datatype=csv

(https://www.alphavantage.co/query?function=TIME_SERIES_INTRADAY&symbol=IBM&interval=5min&apikey=demo&datatype=csv)

[function=TIME_SERIES_INTRADAY&symbol=IBM&interval=5min&apikey=demo&datatype=csv](https://www.alphavantage.co/query?function=TIME_SERIES_INTRADAY&symbol=IBM&interval=5min&apikey=demo&datatype=csv)

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Tip: the intraday data (including 20+ years of historical data) is updated at the end of each trading day for all users by default. If you would like to access realtime or 15-minute delayed intraday data, please subscribe to a premium membership plan (<https://www.alphavantage.co/premium/>) for your personal use. For commercial use, please contact sales (<mailto:support@alphavantage.co>).

* Realtime and 15-minute delayed US market data is regulated by the stock exchanges, FINRA, and the SEC. Learn more (https://www.alphavantage.co/realtime_data_policy/) about the key market data policies you need to know as a data consumer.

Language-specific guides

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- Looking for more programming languages? The open-source community has developed over 1000 libraries for Alpha Vantage across 20+ programming languages and frameworks - you may want to give them a try (<https://github.com/search?q=alpha+vantage>).
- If you are a spreadsheet user (e.g., Excel or Google Sheets), please check out our dedicated spreadsheet add-ons (<https://www.alphavantage.co/spreadsheets/>).

TIME_SERIES_DAILY

This API returns `raw` (as-traded) daily time series (date, daily open, daily high, daily low, daily close, daily volume) of the global equity specified, covering 20+ years of historical data. The OHLCV data is sometimes called "candles" in finance literature. If you are also interested in split/dividend-adjusted data, please use the Daily Adjusted API, which covers adjusted close values and historical split and dividend events.

API Parameters

■ Required: function

The time series of your choice. In this case, `function=TIME_SERIES_DAILY`

■ Required: symbol

The name of the equity of your choice. For example: `symbol=IBM`

■ Optional: outputsize

By default, `outputsize=compact`. Strings `compact` and `full` are accepted with the following specifications: `compact` returns only the latest 100 data points; `full` returns the full-length time series of 20+ years of historical data. The "compact" option is recommended if you would like to reduce the data size of each API call.

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

Sample ticker traded in the United States

https://www.alphavantage.co/query?function=TIME_SERIES_DAILY&symbol=IBM&apikey=demo
(https://www.alphavantage.co/query?function=TIME_SERIES_DAILY&symbol=IBM&apikey=demo)

https://www.alphavantage.co/query?function=TIME_SERIES_DAILY&symbol=IBM&outputsize=full&apikey=demo
(https://www.alphavantage.co/query?function=TIME_SERIES_DAILY&symbol=IBM&outputsize=full&apikey=demo)

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Sample ticker traded in UK - London Stock Exchange

https://www.alphavantage.co/query?function=TIME_SERIES_DAILY&symbol=TSCO.LON&outputsize=full&apikey=demo
(https://www.alphavantage.co/query?function=TIME_SERIES_DAILY&symbol=TSCO.LON&outputsize=full&apikey=demo)

Sample ticker traded in Canada - Toronto Stock Exchange

https://www.alphavantage.co/query?function=TIME_SERIES_DAILY&symbol=SHOP.TRT&outputsize=full&apikey=demo
(https://www.alphavantage.co/query?function=TIME_SERIES_DAILY&symbol=SHOP.TRT&outputsize=full&apikey=demo)

Sample ticker traded in Canada - Toronto Venture Exchange

https://www.alphavantage.co/query?function=TIME_SERIES_DAILY&symbol=GPV.TRV&outputsize=full&apikey=demo
(https://www.alphavantage.co/query?function=TIME_SERIES_DAILY&symbol=GPV.TRV&outputsize=full&apikey=demo)

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Sample ticker traded in Germany - XETRA

https://www.alphavantage.co/query?function=TIME_SERIES_DAILY&symbol=MBG.DEX&outputsize=full&apikey=demo
(https://www.alphavantage.co/query?function=TIME_SERIES_DAILY&symbol=MBG.DEX&outputsize=full&apikey=demo)

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Sample ticker traded in India - BSE

https://www.alphavantage.co/query?function=TIME_SERIES_DAILY&symbol=RELIANCE.BSE&outputsize=full&apikey=demo
(https://www.alphavantage.co/query?function=TIME_SERIES_DAILY&symbol=RELIANCE.BSE&outputsize=full&apikey=demo)

Sample ticker traded in China - Shanghai Stock Exchange

https://www.alphavantage.co/query?function=TIME_SERIES_DAILY&symbol=600104.SHH&outputsize=full&apikey=demo
(https://www.alphavantage.co/query?function=TIME_SERIES_DAILY&symbol=600104.SHH&outputsize=full&apikey=demo)

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Sample ticker traded in China - Shenzhen Stock Exchange

https://www.alphavantage.co/query?function=TIME_SERIES_DAILY&symbol=000002.SHZ&outputsize=full&apikey=demo
(https://www.alphavantage.co/query?function=TIME_SERIES_DAILY&symbol=000002.SHZ&outputsize=full&apikey=demo)

The above is just a small sample of the 100,000+ symbols we support. Please refer to our Search Endpoint to look up any supported global stock, ETF, or mutual fund symbols of your interest.

Downloadable CSV file:

https://www.alphavantage.co/query?function=TIME_SERIES_DAILY&symbol=IBM&apikey=demo&datatype=csv
(https://www.alphavantage.co/query?function=TIME_SERIES_DAILY&symbol=IBM&apikey=demo&datatype=csv)

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■ If you are a spreadsheet user (e.g., Excel or Google Sheets), please check out our dedicated spreadsheet add-ons (<https://www.alphavantage.co/spreadsheets/>).

TIME_SERIES_DAILY_ADJUSTED Trending Premium

This API returns raw (as-traded) daily open/high/low/close/volume values, [adjusted close](#) values, and historical split/dividend events of the global equity specified, covering 20+ years of historical data. The OHLCV data is sometimes called "candles" in finance literature.

API Parameters

■ Required: function

The time series of your choice. In this case, `function=TIME_SERIES_DAILY_ADJUSTED`

■ Required: symbol

The name of the equity of your choice. For example: `symbol=IBM`

■ Optional: outputsize

By default, `outputsize=compact`. Strings `compact` and `full` are accepted with the following specifications: `compact` returns only the latest 100 data points; `full` returns the full-length time series of 20+ years of historical data. The "compact" option is recommended if you would like to reduce the data size of each API call.

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

Sample ticker traded in the United States

```
\(https://www.alphavantage.co/query?function=TIME\_SERIES\_DAILY\_ADJUSTED&symbol=IBM&apikey=demo\)  
\(https://www.alphavantage.co/query?function=TIME\_SERIES\_DAILY\_ADJUSTED&symbol=IBM&outputsize=full&apikey=demo\)  
\(https://www.alphavantage.co/query?function=TIME\_SERIES\_DAILY\_ADJUSTED&symbol=IBM&outputsize=full&apikey=demo\)
```

Sample ticker traded in UK - London Stock Exchange

```
\(https://www.alphavantage.co/query?function=TIME\_SERIES\_DAILY\_ADJUSTED&symbol=TSCO.LON&outputsize=full&apikey=demo\)  
\(https://www.alphavantage.co/query?function=TIME\_SERIES\_DAILY\_ADJUSTED&symbol=TSCO.LON&outputsize=full&apikey=demo\)
```

Sample ticker traded in Canada - Toronto Stock Exchange

https://www.alphavantage.co/query?function=TIME_SERIES_DAILY_ADJUSTED&symbol=SHOP.TRT&outputsize=full&apikey=demo

(https://www.alphavantage.co/query?function=TIME_SERIES_DAILY_ADJUSTED&symbol=SHOP.TRT&outputsize=full&apikey=demo)

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Sample ticker traded in Canada - Toronto Venture Exchange

https://www.alphavantage.co/query?function=TIME_SERIES_DAILY_ADJUSTED&symbol=GPV.TRV&outputsize=full&apikey=demo

(https://www.alphavantage.co/query?function=TIME_SERIES_DAILY_ADJUSTED&symbol=GPV.TRV&outputsize=full&apikey=demo)

Sample ticker traded in Germany - XETRA

https://www.alphavantage.co/query?function=TIME_SERIES_DAILY_ADJUSTED&symbol=MBG.DEX&outputsize=full&apikey=demo

(https://www.alphavantage.co/query?function=TIME_SERIES_DAILY_ADJUSTED&symbol=MBG.DEX&outputsize=full&apikey=demo)

Sample ticker traded in India - BSE

https://www.alphavantage.co/query?function=TIME_SERIES_DAILY_ADJUSTED&symbol=RELIANCE.BSE&outputsize=full&apikey=demo

(https://www.alphavantage.co/query?function=TIME_SERIES_DAILY_ADJUSTED&symbol=RELIANCE.BSE&outputsize=full&apikey=demo)

Sample ticker traded in China - Shanghai Stock Exchange

https://www.alphavantage.co/query?function=TIME_SERIES_DAILY_ADJUSTED&symbol=600104.SHH&outputsize=full&apikey=demo

(https://www.alphavantage.co/query?function=TIME_SERIES_DAILY_ADJUSTED&symbol=600104.SHH&outputsize=full&apikey=demo)

Sample ticker traded in China - Shenzhen Stock Exchange

https://www.alphavantage.co/query?function=TIME_SERIES_DAILY_ADJUSTED&symbol=000002.SHZ&outputsize=full&apikey=demo

(https://www.alphavantage.co/query?function=TIME_SERIES_DAILY_ADJUSTED&symbol=000002.SHZ&outputsize=full&apikey=demo)

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Analytics (Sliding Window)

Downloadable CSV file:

https://www.alphavantage.co/query?function=TIME_SERIES_DAILY_ADJUSTED&symbol=IBM&apikey=demo&datatype=csv

(https://www.alphavantage.co/query?function=TIME_SERIES_DAILY_ADJUSTED&symbol=IBM&apikey=demo&datatype=csv)

 Tip: this is a premium API function. Subscribe to a premium membership plan (<https://www.alphavantage.co/premium/>) to instantly unlock all premium APIs.

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This API returns weekly time series (last trading day of each week, weekly open, weekly high, weekly low, weekly close, weekly adjusted close, weekly volume, weekly dividend) of the global equity specified, covering 20+ years of historical data.

API Parameters

■ Required: function

The time series of your choice. In this case, `function=TIME_SERIES_WEEKLY`

■ Required: symbol

The name of the equity of your choice. For example: `symbol=IBM`

■ Optional: datatype

By default, `datatype=json`. `Strings json` and `csv` are accepted with the following specifications: `json` returns the weekly time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

https://www.alphavantage.co/query?function=TIME_SERIES_WEEKLY&symbol=IBM&apikey=demo

(https://www.alphavantage.co/query?function=TIME_SERIES_WEEKLY&symbol=IBM&apikey=demo)

https://www.alphavantage.co/query?function=TIME_SERIES_WEEKLY&symbol=TSCO.LON&apikey=demo

(https://www.alphavantage.co/query?function=TIME_SERIES_WEEKLY&symbol=TSCO.LON&apikey=demo)

Downloadable CSV file:

https://www.alphavantage.co/query?function=TIME_SERIES_WEEKLY&symbol=IBM&apikey=demo&datatype=csv

(https://www.alphavantage.co/query?function=TIME_SERIES_WEEKLY&symbol=IBM&apikey=demo&datatype=csv)

Language-specific guides

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TIME_SERIES_WEEKLY_ADJUSTED

This API returns weekly adjusted time series (last trading day of each week, weekly open, weekly high, weekly low, weekly close, weekly adjusted close, weekly volume, weekly dividend) of the global equity specified, covering 20+ years of historical data.

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API Parameters

■ Required: function

The time series of your choice. In this case, `function=TIME_SERIES_WEEKLY_ADJUSTED`

■ Required: symbol

The name of the equity of your choice. For example: `symbol=IBM`

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the weekly time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

[\(https://www.alphavantage.co/query?](https://www.alphavantage.co/query?function=TIME_SERIES_WEEKLY_ADJUSTED&symbol=IBM&apikey=demo)

[\(https://www.alphavantage.co/query?](https://www.alphavantage.co/query?function=TIME_SERIES_WEEKLY_ADJUSTED&symbol=TSCO.LON&apikey=demo)

[\(https://www.alphavantage.co/query?](https://www.alphavantage.co/query?function=TIME_SERIES_WEEKLY_ADJUSTED&symbol=IBM&apikey=demo)

[\(https://www.alphavantage.co/query?](https://www.alphavantage.co/query?function=TIME_SERIES_WEEKLY_ADJUSTED&symbol=TSCO.LON&apikey=demo)

[\(https://www.alphavantage.co/query?](https://www.alphavantage.co/query?function=TIME_SERIES_WEEKLY_ADJUSTED&symbol=IBM&apikey=demo&datatype=csv)

[\(https://www.alphavantage.co/query?](https://www.alphavantage.co/query?function=TIME_SERIES_WEEKLY_ADJUSTED&symbol=IBM&apikey=demo&datatype=csv)

[\(https://www.alphavantage.co/query?](https://www.alphavantage.co/query?function=TIME_SERIES_WEEKLY_ADJUSTED&symbol=IBM&apikey=demo&datatype=csv)

Downloadable CSV file:

[\(https://www.alphavantage.co/query?](https://www.alphavantage.co/query?function=TIME_SERIES_WEEKLY_ADJUSTED&symbol=IBM&apikey=demo&datatype=csv)

[\(https://www.alphavantage.co/query?](https://www.alphavantage.co/query?function=TIME_SERIES_WEEKLY_ADJUSTED&symbol=IBM&apikey=demo&datatype=csv)

[\(https://www.alphavantage.co/query?](https://www.alphavantage.co/query?function=TIME_SERIES_WEEKLY_ADJUSTED&symbol=IBM&apikey=demo&datatype=csv)

[\(https://www.alphavantage.co/query?](https://www.alphavantage.co/query?function=TIME_SERIES_WEEKLY_ADJUSTED&symbol=IBM&apikey=demo&datatype=csv)

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■ Looking for more programming languages? The open-source community has developed over 1000 libraries for Alpha Vantage across 20+ programming languages and frameworks - you may want to give them a try (<https://github.com/search?q=alpha+vantage>).

■ If you are a spreadsheet user (e.g., Excel or Google Sheets), please check out our dedicated spreadsheet add-ons (<https://www.alphavantage.co/spreadsheets/>).

TIME_SERIES_MONTHLY

This API returns monthly time series (last trading day of each month, monthly open, monthly high, monthly low, monthly close, monthly volume) of the global equity specified, covering 20+ years of historical data.

API Parameters

■ Required: function

The time series of your choice. In this case, `function=TIME_SERIES_MONTHLY`

■ Required: symbol

The name of the equity of your choice. For example: `symbol=IBM`

■ Optional: datatype

By default, `datatype=json`. `json` and `csv` are accepted with the following specifications: `json` returns the monthly time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

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Example (click for JSON output)

```
https://www.alphavantage.co/query?function=TIME\_SERIES\_MONTHLY&symbol=IBM&apikey=demo (https://www.alphavantage.co/query?function=TIME_SERIES_MONTHLY&symbol=IBM&apikey=demo)

https://www.alphavantage.co/query?function=TIME\_SERIES\_MONTHLY&symbol=TSCO.LON&apikey=demo (https://www.alphavantage.co/query?function=TIME_SERIES_MONTHLY&symbol=TSCO.LON&apikey=demo)
```

Downloadable CSV file:

```
https://www.alphavantage.co/query?function=TIME\_SERIES\_MONTHLY&symbol=IBM&apikey=demo&datatype=csv (https://www.alphavantage.co/query?function=TIME_SERIES_MONTHLY&symbol=IBM&apikey=demo&datatype=csv)
```

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- If you are a spreadsheet user (e.g., Excel or Google Sheets), please check out our dedicated spreadsheet add-ons (<https://www.alphavantage.co/spreadsheets/>).

TIME_SERIES_MONTHLY_ADJUSTED

This API returns monthly adjusted time series (last trading day of each month, monthly open, monthly high, monthly low, monthly close, monthly adjusted close, monthly volume, monthly dividend) of the equity specified, covering 20+ years of historical data.

API Parameters**■ Required: function**

The time series of your choice. In this case, `function=TIME_SERIES_MONTHLY_ADJUSTED`

■ Required: symbol

The name of the equity of your choice. For example: `symbol=IBM`

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the monthly time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: `apikey`

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

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Example (click for JSON output)

https://www.alphavantage.co/query?function=TIME_SERIES_MONTHLY_ADJUSTED&symbol=IBM&apikey=demo

(https://www.alphavantage.co/query?function=TIME_SERIES_MONTHLY_ADJUSTED&symbol=IBM&apikey=demo)

https://www.alphavantage.co/query?function=TIME_SERIES_MONTHLY_ADJUSTED&symbol=TSCO.LON&apikey=demo

(https://www.alphavantage.co/query?function=TIME_SERIES_MONTHLY_ADJUSTED&symbol=TSCO.LON&apikey=demo)

Downloadable CSV file:

https://www.alphavantage.co/query?function=TIME_SERIES_MONTHLY_ADJUSTED&symbol=IBM&apikey=demo&datatype=csv

(https://www.alphavantage.co/query?function=TIME_SERIES_MONTHLY_ADJUSTED&symbol=IBM&apikey=demo&datatype=csv)

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Quote Endpoint Trending

This endpoint returns the latest price and volume information for a ticker of your choice. You can specify one ticker per API request.

If you would like to query a large universe of tickers in bulk, you may want to try out our Realtime Bulk Quotes API, which accepts up to 100 tickers per API request.

API Parameters

■ Required: `function`

The API function of your choice.

■ Required: `symbol`

The symbol of the global ticker of your choice. For example: `symbol=IBM`.

■ Optional: `datatype`

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the quote data in JSON format; `csv` returns the quote data as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

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Examples (click for JSON output)https://www.alphavantage.co/query?function=GLOBAL_QUOTE&symbol=IBM&apikey=demo

(https://www.alphavantage.co/query?function=GLOBAL_QUOTE&symbol=IBM&apikey=demo)

https://www.alphavantage.co/query?function=GLOBAL_QUOTE&symbol=300135.SHZ&apikey=demo

(https://www.alphavantage.co/query?function=GLOBAL_QUOTE&symbol=300135.SHZ&apikey=demo)

Downloadable CSV file:

https://www.alphavantage.co/query?function=GLOBAL_QUOTE&symbol=IBM&apikey=demo&datatype=csv

(https://www.alphavantage.co/query?function=GLOBAL_QUOTE&symbol=IBM&apikey=demo&datatype=csv)

Tip: by default, the quote endpoint is updated at the end of each trading day for all users. If you would like to access realtime or 15-minute delayed stock quote data for the US market, please subscribe to a premium membership plan (<https://www.alphavantage.co/premium/>) for your personal use. For commercial use, please contact sales (<mailto:support@alphavantage.co>).

* Realtime and 15-minute delayed US market data is regulated by the stock exchanges, FINRA, and the SEC. Learn more (https://www.alphavantage.co/realtime_data_policy/) about the key market data policies you need to know as a data consumer.

Language-specific guides[Python](#) [NodeJS](#) [PHP](#) [C#/.NET](#) [Other](#)

■ Looking for more programming languages? The open-source community has developed over 1000 libraries for Alpha Vantage across 20+ programming languages and frameworks - you may want to give them a try (<https://github.com/search?q=alpha+vantage>).

■ If you are a spreadsheet user (e.g., Excel or Google Sheets), please check out our dedicated spreadsheet add-ons (<https://www.alphavantage.co/spreadsheets/>).

Realtime Bulk Quotes Premium

This API returns realtime quotes for US-traded symbols in bulk, accepting up to [100 symbols](#) per API request and covering both regular and extended (pre-market and post-market) trading hours. You can use this endpoint as a high-throughput alternative to the Global Quote API, which accepts one symbol per API request.

API Parameters**■ Required: function**

The time series of your choice. In this case, `function=REALTIME_BULK_QUOTES`

■ Required: symbol

Up to 100 symbols separated by comma. For example: symbol=MSFT,AAPL,IBM . If more than 100 symbols are provided, only the first 100 symbols will be honored as part of the API input.

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■ Optional: datatype

By default, datatype=json . Strings json and csv are accepted with the following specifications: json returns the search results in JSON format; csv returns the search results as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

[\(https://www.alphavantage.co/query?function=REALTIME_BULK_QUOTES&symbol=MSFT,AAPL,IBM&apikey=demo\)](https://www.alphavantage.co/query?function=REALTIME_BULK_QUOTES&symbol=MSFT,AAPL,IBM&apikey=demo)

Tip: this is a premium API function. Please subscribe to any premium membership plan (<https://www.alphavantage.co/premium/>) that mentions "Realtime US Market Data" in its description to unlock this endpoint for your personal use. For commercial use, please contact sales (<mailto:support@alphavantage.co>).

Language-specific guides

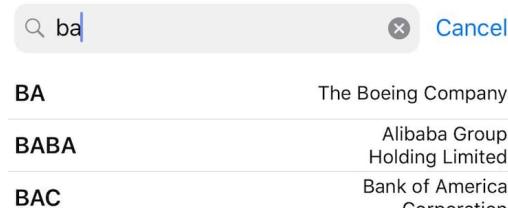
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■ If you are a spreadsheet user (e.g., Excel or Google Sheets), please check out our dedicated spreadsheet add-ons (<https://www.alphavantage.co/spreadsheets/>).

Search Endpoint Utility

Looking for some specific symbols or companies? Trying to build an auto-complete search box similar to the one below?



We've got you covered! The Search Endpoint returns the best-matching symbols and market information based on keywords of your choice. The search results also contain match scores that provide you with the full flexibility to develop your own search and filtering logic.

API Parameters

■ Required: function

The API function of your choice. In this case, `function=SYMBOL_SEARCH`

■ Required: keywords

A text string of your choice. For example: `keywords=microsoft`.

■ Optional: datatype

By default, `datatype=json`. `json` and `csv` are accepted with the following specifications: `json` returns the search results in JSON format; `csv` returns the search results as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

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https://www.alphavantage.co/query?function=SYMBOL_SEARCH&keywords=tesco&apikey=demo
(https://www.alphavantage.co/query?function=SYMBOL_SEARCH&keywords=tesco&apikey=demo)

https://www.alphavantage.co/query?function=SYMBOL_SEARCH&keywords=tencent&apikey=demo (https://www.alphavantage.co/query?function=SYMBOL_SEARCH&keywords=tencent&apikey=demo)

https://www.alphavantage.co/query?function=SYMBOL_SEARCH&keywords=BA&apikey=demo
(https://www.alphavantage.co/query?function=SYMBOL_SEARCH&keywords=BA&apikey=demo)

https://www.alphavantage.co/query?function=SYMBOL_SEARCH&keywords=SAIC&apikey=demo
(https://www.alphavantage.co/query?function=SYMBOL_SEARCH&keywords=SAIC&apikey=demo)

Downloadable CSV file:

https://www.alphavantage.co/query?function=SYMBOL_SEARCH&keywords=BA&apikey=demo&datatype=csv
(https://www.alphavantage.co/query?function=SYMBOL_SEARCH&keywords=BA&apikey=demo&datatype=csv)

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■ Looking for more programming languages? The open-source community has developed over 1000 libraries for Alpha Vantage across 20+ programming languages and frameworks - you may want to give them a try (<https://github.com/search?q=alpha+vantage>).

■ If you are a spreadsheet user (e.g., Excel or Google Sheets), please check out our dedicated spreadsheet add-ons (<https://www.alphavantage.co/spreadsheets/>).

Global Market Open & Close Status Utility

This endpoint returns the current market status (open vs. closed) of major trading venues for equities, forex, and cryptocurrencies around the world.

API Parameters

■ Required: function

The API function of your choice. In this case, `function=MARKET_STATUS`

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

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Examples (click for JSON output)

https://www.alphavantage.co/query?function=MARKET_STATUS&apikey=demo

(https://www.alphavantage.co/query?function=MARKET_STATUS&apikey=demo)

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■ If you are a spreadsheet user (e.g., Excel or Google Sheets), please check out our dedicated spreadsheet add-ons (<https://www.alphavantage.co/spreadsheets/>).

Options Data APIs

This suite of APIs provide realtime and historical US options data, spanning 15+ years of history with full market/volume coverage.

Realtime Options Trending Premium

This API returns realtime US options data with full market coverage. Option chains are sorted by expiration dates in chronological order. Within the same expiration date, contracts are sorted by strike prices from low to high.

API Parameters

■ Required: function

The time series of your choice. In this case, `function=REALTIME_OPTIONS`

■ Required: symbol

The name of the equity of your choice. For example: `symbol=IBM`

■ Optional: contract

The US options contract ID you would like to specify. By default, the `contract` parameter is not set and the entire option chain for a given symbol will be returned.

■ Optional: datatype

By default, `datatype=json`. `Strings json` and `csv` are accepted with the following specifications: `json` returns the options data in JSON format; `csv` returns the data as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

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(https://www.alphavantage.co/query?function=REALTIME_OPTIONS&symbol=IBM&apikey=demo)

 Tip: this is a premium API function. Subscribe to either the 600 requests per minute or the 1200 requests per minute premium membership plan (<https://www.alphavantage.co/premium/>) to unlock realtime options data.

Language-specific guides

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Historical Options Trending

This API returns the full historical options chain for a specific symbol on a specific date, covering 15+ years of history. Implied volatility (IV) and common Greeks (e.g., delta, gamma, theta, vega, rho) are also returned. Option chains are sorted by expiration dates in chronological order. Within the same expiration date, contracts are sorted by strike prices from low to high.

API Parameters

■ Required: function

The time series of your choice. In this case, `function=HISTORICAL_OPTIONS`

■ Required: symbol

The name of the equity of your choice. For example: `symbol=IBM`

■ Optional: date

By default, the `date` parameter is not set and the API will return data for the previous trading session. Any date later than 2008-01-01 is accepted. For example, `date=2017-11-15`.

■ Optional: datatype

By default, `datatype=json`. `json` and `csv` are accepted with the following specifications: `json` returns the options data in JSON format; `csv` returns the data as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

When the `date` parameter is not set, data from the previous trading session is returned

[\(https://www.alphavantage.co/query?function=HISTORICAL_OPTIONS&symbol=IBM&apikey=demo\)](https://www.alphavantage.co/query?function=HISTORICAL_OPTIONS&symbol=IBM&apikey=demo)

Specify a date to retrieve options data for any trading day in the past 15+ years (since 2008-01-01)

[\(https://www.alphavantage.co/query?function=HISTORICAL_OPTIONS&symbol=IBM&date=2017-11-15&apikey=demo\)](https://www.alphavantage.co/query?function=HISTORICAL_OPTIONS&symbol=IBM&date=2017-11-15&apikey=demo)

Downloadable CSV file:

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🔗 Alpha Intelligence™

The APIs in this section contain advanced market intelligence built with our decades of expertise in AI, machine learning, and quantitative finance. We hope these highly differentiated alternative datasets can help turbocharge your trading strategy, market research, and financial software application to the next level.

Market News & Sentiment Trending

Looking for market news data to train your LLM models or to augment your trading strategy? You have just found it. This API returns live and historical market news & sentiment data from a large & growing selection of premier news outlets around the world, covering stocks, cryptocurrencies, forex, and a wide range of topics such as fiscal policy, mergers & acquisitions, IPOs, etc. This API, combined with our core stock API, fundamental data, and technical indicator APIs, can provide you with a 360-degree view of the financial market and the broader economy.

API Parameters

Required: function

The function of your choice. In this case, `function=NEWS_SENTIMENT`

Optional: tickers

The stock/crypto/forex symbols of your choice. For example: `tickers=IBM` will filter for articles that mention the IBM ticker; `tickers=COIN,CRYPTO:BTC,FOREX:USD` will filter for articles that simultaneously mention Coinbase (COIN), Bitcoin (CRYPTO:BTC), and US Dollar (FOREX:USD) in their content.

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■ Optional: topics

The news topics of your choice. For example: `topics=technology` will filter for articles that write about the technology sector; `topics=technology,ipo` will filter for articles that simultaneously cover technology and IPO in their content. Below is the full list of supported topics:

- Blockchain: `blockchain`
- Earnings: `earnings`
- IPO: `ipo`
- Mergers & Acquisitions: `mergers_and_acquisitions`
- Financial Markets: `financial_markets`
- Economy - Fiscal Policy (e.g., tax reform, government spending): `economy_fiscal`
- Economy - Monetary Policy (e.g., interest rates, inflation): `economy_monetary`
- Economy - Macro/Overall: `economy_macro`
- Energy & Transportation: `energy_transportation`
- Finance: `finance`
- Life Sciences: `life_sciences`
- Manufacturing: `manufacturing`
- Real Estate & Construction: `real_estate`
- Retail & Wholesale: `retail_wholesale`
- Technology: `technology`

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■ Optional: time_from and time_to

The time range of the news articles you are targeting, in YYYYMMDDTHHMM format. For example: `time_from=20220410T0130`. If `time_from` is specified but `time_to` is missing, the API will return articles published between the `time_from` value and the current time.

■ Optional: sort

By default, `sort=LATEST` and the API will return the latest articles first. You can also set `sort=EARLIEST` or `sort=RELEVANCE` based on your use case.

■ Optional: limit

By default, `limit=50` and the API will return up to 50 matching results. You can also set `limit=1000` to output up to 1000 results.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

Querying news articles that mention the AAPL ticker.

[\(https://www.alphavantage.co/query?function=NEWS_SENTIMENT&tickers=AAPL&apikey=demo\)](https://www.alphavantage.co/query?function=NEWS_SENTIMENT&tickers=AAPL&apikey=demo)

Querying news articles that simultaneously mention the Coinbase stock (COIN), Bitcoin (CRYPTO:BTC), and US Dollar (FOREX:USD) and are published on or after 2022-04-10, 1:30am UTC.

[\(https://www.alphavantage.co/query?function=NEWS_SENTIMENT&tickers=COIN,CRYPTO:BTC,FOREX:USD&time_from=20220410T0130&limit=1000&apikey=demo\)](https://www.alphavantage.co/query?function=NEWS_SENTIMENT&tickers=COIN,CRYPTO:BTC,FOREX:USD&time_from=20220410T0130&limit=1000&apikey=demo)

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API Parameters

■ Required: function

The API function of your choice. In this case, `function=TOP_GAINERS_LOSERS`

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

https://www.alphavantage.co/query?function=TOP_GAINERS_LOSERS&apikey=demo

(https://www.alphavantage.co/query?function=TOP_GAINERS_LOSERS&apikey=demo)

💡 Tip: By default, the top gainers, losers, and the most active traded ticker information is updated at the end of each trading day for all users. If you would like to access realtime or 15-minute delayed data, please subscribe to a premium membership plan (<https://www.alphavantage.co/premium/>) for your personal use. For commercial use, please contact sales (<mailto:support@alphavantage.co>).

* Realtime and 15-minute delayed US market data is regulated by the stock exchanges, FINRA, and the SEC. Learn more (https://www.alphavantage.co/realtime_data_policy/) about the key market data policies you need to know as a data consumer.

Language-specific guides

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■ If you are a spreadsheet user (e.g., Excel or Google Sheets), please check out our dedicated spreadsheet add-ons (<https://www.alphavantage.co/spreadsheets/>).

Insider Transactions Trending

This API returns the latest and historical insider transactions made by key stakeholders (e.g., founders, executives, board members, etc.) of a specific company.

API Parameters

■ Required: function

The function of your choice. In this case, `function=INSIDER_TRANSACTIONS`

■ Required: symbol

The symbol of the ticker of your choice. For example: `symbol=IBM`.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

https://www.alphavantage.co/query?function=INSIDER_TRANSACTIONS&symbol=IBM&apikey=demo (https://www.alphavantage.co/query?function=INSIDER_TRANSACTIONS&symbol=IBM&apikey=demo)

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Advanced Analytics (Fixed Window)

This endpoint returns a rich set of advanced analytics metrics (e.g., total return, variance, auto-correlation, etc.) for a given time series over a fixed temporal window.

API Parameters**■ Required: function**

The function of your choice. In this case, `function=ANALYTICS_FIXED_WINDOW`

■ Required: SYMBOLS

A list of symbols for the calculation. It can be a comma separated list of symbols as a string.

Free API keys can specify up to 5 symbols per API request. Premium API keys can specify up to 50 symbols per API request.

■ Required: RANGE

This is the date range for the series being requested. By default, the date range is the full set of data for the equity history. This can be further modified by the LIMIT variable.

RANGE can take certain text values as inputs. They are:

- `full`
- `{N}day`
- `{N}week`
- `{N}month`
- `{N}year`

For intraday time series, the following RANGE values are also accepted:

- `{N}minute`
- `{N}hour`

Aside from the “full” value which represents the entire time series, the other values specify an interval to return the series for as measured backwards from the current date/time.

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Examples (click for JSON output)

For AAPL, MSFT, and IBM, calculate the mean & standard deviation of their returns based on daily close prices between 2023-07-01 and 2023-08-31, along with a correlation matrix

among the three tickers.

```
https://www.alphavantage.co/query?
function=ANALYTICS_FIXED_WINDOW&SYMBOLS=AAPL,MSFT,IBM&RANGE=2023-07-01&RANGE=2023-08-
31&INTERVAL=DAILY&OHLC=close&CALCULATIONS=MEAN,STDDEV,CORRELATION&apikey=demo
(https://www.alphavantage.co/query?
function=ANALYTICS_FIXED_WINDOW&SYMBOLS=AAPL,MSFT,IBM&RANGE=2023-07-
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```

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Advanced Analytics (Sliding Window) Trending

This endpoint returns a rich set of advanced analytics metrics (e.g., total return, variance, auto-correlation, etc.) for a given time series over sliding time windows. For example, we can calculate a moving variance over 5 years with a window of 100 points to see how the variance changes over time.

API Parameters

■ Required: function

The function of your choice. In this case, `function=ANALYTICS_SLIDING_WINDOW`

■ Required: SYMBOLS

A list of symbols for the calculation. It can be a comma separated list of symbols as a string.

Free API keys can specify up to 5 symbols per API request. Premium API keys can specify up to 50 symbols per API request.

■ Required: RANGE

This is the date range for the series being requested. By default, the date range is the full set of data for the equity history. This can be further modified by the LIMIT variable.

RANGE can take certain text values as inputs. They are:

- full
- {N}day
- {N}week
- {N}month
- {N}year

For intraday time series, the following RANGE values are also accepted:

- {N}minute
- {N}hour

Aside from the “full” value which represents the entire time series, the other values specify an interval to return the series for as measured backwards from the current date/time.

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To specify start & end dates for your analytics calculation, simply add two RANGE parameters in your API request. For example: RANGE=2023-07-01&RANGE=2023-08-31 or RANGE=2020-12-01T00:04:00&RANGE=2020-12-06T23:59:59 with minute-level precision for intraday analytics. If the end date is missing, the end date is assumed to be the last trading date. In addition, you can request a full month of data by using YYYY-MM format like 2020-12 . One day of intraday data can be requested by using YYYY-MM-DD format like 2020-12-06

■ Optional: OHLC

This allows you to choose which open, high, low, or close field the calculation will be performed on. By default, OHLC=close . Valid values for these fields are open , high , low , close .

■ Required: INTERVAL

Time interval between two consecutive data points in the time series. The following values are supported: 1min , 5min , 15min , 30min , 60min , DAILY , WEEKLY , MONTHLY .

■ Required: WINDOW_SIZE

An integer representing the size of the moving window. A hard lower boundary of 10 has been set though it is recommended to make this window larger to make sure the running calculations are statistically significant.

■ Required: CALCULATIONS

A comma separated list of the analytics metrics you would like to calculate. Free API keys can specify 1 metric to be calculated per API request. Premium API keys can specify multiple metrics to be calculated simultaneously per API request.

- MEAN : The mean of all returns in the series
- MEDIAN : The median of all returns in the series
- CUMULATIVE_RETURN : The total return from the beginning to the end of the series range
- VARIANCE : The population variance of returns in the series range. Optionally, you can use VARIANCE(annualized=True) to normalize the output to an annual value. By default, the variance is not annualized.
- STDDEV : The population standard deviation of returns in the series range for each symbol. Optionally, you can use STDDEV(annualized=True) to normalize the output to an annual value. By default, the standard deviation is not annualized.
- COVARIANCE : Returns a covariance matrix for the input symbols. Optionally, you can use COVARIANCE(annualized=True) to normalize the output to an annual value. By default, the covariance is not annualized.
- CORRELATION : Returns a correlation matrix for the input symbols, using the PEARSON method as default. You can also specify the KENDALL or SPEARMAN method through CORRELATION(method=KENDALL) or CORRELATION(method=SPEARMAN) , respectively.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

For AAPL and IBM, calculate the running mean & annualized standard deviation of their returns based on daily close prices in the trailing 2 months, with a sliding window size of 20.

https://www.alphavantage.co/query?function=ANALYTICS_SLIDING_WINDOW&SYMBOLS=AAPL,IBM&RANGE=2month&INTERVAL=DAILY&OHLC=close&WINDOW_SIZE=20

(https://www.alphavantage.co/query?function=ANALYTICS_SLIDING_WINDOW&SYMBOLS=AAPL,IBM&RANGE=2month&INTERVAL=DAILY&OHLC=close&WINDOW_SIZE=20)

function=ANALYTICS_SLIDING_WINDOW&SYMBOLS=AAPL,IBM&RANGE=2month&INTERVAL=DAILY&OHLC=close&WINDOW_SIZE=20

(https://www.alphavantage.co/query?function=ANALYTICS_SLIDING_WINDOW&SYMBOLS=AAPL,IBM&RANGE=2month&INTERVAL=DAILY&OHLC=close&WINDOW_SIZE=20)

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Fundamental Data

We offer the following set of fundamental data APIs in various temporal dimensions covering key financial metrics, income statements, balance sheets, cash flow, and other fundamental data points.

Company Overview

This API returns the company information, financial ratios, and other key metrics for the equity specified. Data is generally refreshed on the same day a company reports its latest earnings and financials.

API Parameters

Required: function

The function of your choice. In this case, `function=OVERVIEW`

Required: symbol

The symbol of the ticker of your choice. For example: `symbol=IBM`.

Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

[\(https://www.alphavantage.co/query?function=OVERVIEW&symbol=IBM&apikey=demo\)](https://www.alphavantage.co/query?function=OVERVIEW&symbol=IBM&apikey=demo)

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ETF Profile & Holdings

This API returns key ETF metrics (e.g., net assets, expense ratio, and turnover), along with the corresponding ETF holdings / constituents with allocation by asset types and sectors.

API Parameters

■ Required: function

The function of your choice. In this case, `function=ETF_PROFILE`

■ Required: symbol

The symbol of the ticker of your choice. For example: `symbol=QQQ`.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

https://www.alphavantage.co/query?function=ETF_PROFILE&symbol=000&apikey=demo

(https://www.alphavantage.co/query?function=ETF_PROFILE&symbol=QQQ&apikey=demo)

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Corporate Action - Dividends

This API returns historical and future (declared) dividend distributions.

API Parameters

■ Required: function

The function of your choice. In this case, `function=DIVIDENDS`

■ Required: symbol

The symbol of the ticker of your choice. For example: `symbol=IBM`.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

<https://www.alphavantage.co/query?function=DIVIDENDS&symbol=IBM&apikey=demo>

(<https://www.alphavantage.co/query?function=DIVIDENDS&symbol=IBM&apikey=demo>)

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Corporate Action - Splits

This API returns historical split events.

API Parameters

■ Required: function

The function of your choice. In this case, `function=SPLITS`

■ Required: symbol

The symbol of the ticker of your choice. For example: `symbol=IBM`.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

<https://www.alphavantage.co/query?function=SPLITS&symbol=IBM&apikey=demo>

(<https://www.alphavantage.co/query?function=SPLITS&symbol=IBM&apikey=demo>)

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INCOME_STATEMENT Trending

This API returns the annual and quarterly income statements for the company of interest, with normalized fields mapped to GAAP and IFRS taxonomies (<https://documentation.alphavantage.co/FundamentalDataDocs/index.html>) of the SEC. Data is generally refreshed on the same day a company reports its latest earnings and financials.

API Parameters

■ Required: function

The function of your choice. In this case, `function=INCOME_STATEMENT`

■ Required: symbol

The symbol of the ticker of your choice. For example: `symbol=IBM`.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

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https://www.alphavantage.co/query?function=INCOME_STATEMENT&symbol=IBM&apikey=demo
(https://www.alphavantage.co/query?function=INCOME_STATEMENT&symbol=IBM&apikey=demo)

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BALANCE_SHEET Trending

This API returns the annual and quarterly balance sheets for the company of interest, with normalized fields mapped to GAAP and IFRS taxonomies (<https://documentation.alphavantage.co/FundamentalDataDocs/index.html>) of the SEC. Data is generally refreshed on the same day a company reports its latest earnings and financials.

API Parameters**■ Required: function**

The function of your choice. In this case, `function=BALANCE_SHEET`

■ Required: symbol

The symbol of the ticker of your choice. For example: `symbol=IBM`.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example - annual & quarterly balance sheets for IBM (click for JSON output)

https://www.alphavantage.co/query?function=BALANCE_SHEET&symbol=IBM&apikey=demo
(https://www.alphavantage.co/query?function=BALANCE_SHEET&symbol=IBM&apikey=demo)

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CASH_FLOW Trending

This API returns the annual and quarterly cash flow for the company of interest, with normalized fields mapped to GAAP and IFRS taxonomies (<https://documentation.alphavantage.co/FundamentalDataDocs/index.html>) of the SEC. Data is generally refreshed on the same day a company reports its latest earnings and financials.

API Parameters

■ Required: function

The function of your choice. In this case, `function=CASH_FLOW`

■ Required: symbol

The symbol of the ticker of your choice. For example: `symbol=IBM`.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example - annual & quarterly cash flows for IBM (click for JSON output)

https://www.alphavantage.co/query?function=CASH_FLOW&symbol=IBM&apikey=demo

(https://www.alphavantage.co/query?function=CASH_FLOW&symbol=IBM&apikey=demo)

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■ Looking for more programming languages? The open-source community has developed over 1000 libraries for Alpha Vantage across 20+ programming languages and frameworks - you may want to give them a try (<https://github.com/search?q=alpha+vantage>).

■ If you are a spreadsheet user (e.g., Excel or Google Sheets), please check out our dedicated spreadsheet add-ons (<https://www.alphavantage.co/spreadsheets/>).

Earnings

This API returns the annual and quarterly earnings (EPS) for the company of interest.

Quarterly data also includes analyst estimates and surprise metrics.

API Parameters

■ Required: function

The function of your choice. In this case, `function=EARNINGS`

■ Required: symbol

The symbol of the ticker of your choice. For example: `symbol=IBM`.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

<https://www.alphavantage.co/query?function=EARNINGS&symbol=IBM&apikey=demo>

(<https://www.alphavantage.co/query?function=EARNINGS&symbol=IBM&apikey=demo>)

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Listing & Delisting Status

This API returns a list of active or delisted US stocks and ETFs, either as of the latest trading day or at a specific time in history. The endpoint is positioned to facilitate equity research on asset lifecycle and survivorship.

API Parameters

■ Required: function

The API function of your choice. In this case, `function=LISTING_STATUS`

■ Optional: date

If no date is set, the API endpoint will return a list of active or delisted symbols as of the latest trading day. If a date is set, the API endpoint will "travel back" in time and return a list of active or delisted symbols on that particular date in history. Any YYYY-MM-DD date later than 2010-01-01 is supported. For example, `date=2013-08-03`

■ Optional: state

By default, `state=active` and the API will return a list of actively traded stocks and ETFs. Set `state=delisted` to query a list of delisted assets.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples

To ensure optimal API response time, this endpoint uses the CSV format which is more memory-efficient than JSON.

Querying all active stocks and ETFs as of the latest trading day:

[\(https://www.alphavantage.co/query?function=LISTING_STATUS&apikey=demo\)](https://www.alphavantage.co/query?function=LISTING_STATUS&apikey=demo)

Querying all delisted stocks and ETFs as of 2014-07-10:

[\(https://www.alphavantage.co/query?function=LISTING_STATUS&date=2014-07-10&state=delisted&apikey=demo\)](https://www.alphavantage.co/query?function=LISTING_STATUS&date=2014-07-10&state=delisted&apikey=demo)

Language-specific guides

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Earnings Calendar

This API returns a list of company earnings expected in the next 3, 6, or 12 months.

API Parameters

■ Required: function

The API function of your choice. In this case, `function=EARNINGS_CALENDAR`

■ Optional: symbol

By default, no symbol will be set for this API. When no symbol is set, the API endpoint will return the full list of company earnings scheduled. If a symbol is set, the API endpoint will return the expected earnings for that specific symbol. For example, `symbol=IBM`

■ Optional: horizon

By default, `horizon=3month` and the API will return a list of expected company earnings in the next 3 months. You may set `horizon=6month` or `horizon=12month` to query the earnings scheduled for the next 6 months or 12 months, respectively.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples

To ensure optimal API response time, this endpoint uses the CSV format which is more memory-efficient than JSON.

Querying all the company earnings expected in the next 3 months:

https://www.alphavantage.co/query?function=EARNINGS_CALENDAR&horizon=3month&apikey=demo (https://www.alphavantage.co/query?function=EARNINGS_CALENDAR&horizon=3month&apikey=demo)

Querying all the earnings events for IBM in the next 12 months:

https://www.alphavantage.co/query?function=EARNINGS_CALENDAR&symbol=IBM&horizon=12month&apikey=demo (https://www.alphavantage.co/query?function=EARNINGS_CALENDAR&symbol=IBM&horizon=12month&apikey=demo)

Language-specific guides

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IPO Calendar

This API returns a list of IPOs expected in the next 3 months.

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API Parameters

■ Required: function

The API function of your choice. In this case, `function=IPO_CALENDAR`

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples

To ensure optimal API response time, this endpoint uses the CSV format which is more memory-efficient than JSON.

Querying all the company earnings expected in the next 3 months:

https://www.alphavantage.co/query?function=IPO_CALENDAR&apikey=demo

(https://www.alphavantage.co/query?function=IPO_CALENDAR&apikey=demo)

Language-specific guides

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🔗 Foreign Exchange Rates (FX)

APIs under this section provide a wide range of data feed for realtime and historical forex (FX) rates.

CURRENCY_EXCHANGE_RATE Trending

This API returns the realtime exchange rate for a pair of digital currency (e.g., Bitcoin) and physical currency (e.g., USD).

API Parameters

■ Required: function

The function of your choice. In this case, `function=CURRENCY_EXCHANGE_RATE`

■ Required: from_currency

The currency you would like to get the exchange rate for. It can either be a physical currency (https://www.alphavantage.co/physical_currency_list/) or digital/crypto currency (https://www.alphavantage.co/digital_currency_list/). For example: `from_currency=USD`

or `from_currency=BTC`.

■ Required: `to_currency`

The destination currency for the exchange rate. It can either be a physical currency (https://www.alphavantage.co/physical_currency_list/) or digital/crypto currency (https://www.alphavantage.co/digital_currency_list/). For example: `to_currency=USD` or `to_currency=BTC`.

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■ Required: `apikey`

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

US Dollar to Japanese Yen:

https://www.alphavantage.co/query?function=CURRENCY_EXCHANGE_RATE&from_currency=USD&to_currency=JPY&apikey=demo

(https://www.alphavantage.co/query?function=CURRENCY_EXCHANGE_RATE&from_currency=USD&to_currency=JPY&apikey=demo)

Bitcoin to Euro:

https://www.alphavantage.co/query?function=CURRENCY_EXCHANGE_RATE&from_currency=BTC&to_currency=EUR&apikey=demo

(https://www.alphavantage.co/query?function=CURRENCY_EXCHANGE_RATE&from_currency=BTC&to_currency=EUR&apikey=demo)

Language-specific guides

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FX_INTRADAY Premium Trending

This API returns intraday time series (timestamp, open, high, low, close) of the FX currency pair specified, updated realtime.

API Parameters

■ Required: `function`

The time series of your choice. In this case, `function=FX_INTRADAY`

■ Required: `from_symbol`

A three-letter symbol from the forex currency list (https://www.alphavantage.co/physical_currency_list/). For example: `from_symbol=EUR`

■ Required: `to_symbol`

A three-letter symbol from the forex currency list (https://www.alphavantage.co/physical_currency_list/). For example: `to_symbol=USD`

■ Required: `interval`

Time interval between two consecutive data points in the time series. The following values are supported: 1min , 5min , 15min , 30min , 60min

■ **Optional: outputsize**

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By default, `outputsize=compact`. Strings `compact` and `full` are accepted with the following specifications: `compact` returns only the latest 100 data points in the intraday time series; `full` returns the full-length intraday time series. The "compact" option is recommended if you would like to reduce the data size of each API call.

■ **Optional: datatype**

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the intraday time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ **Required: apikey**

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

https://www.alphavantage.co/query?function=FX_INTRADAY&from_symbol=EUR&to_symbol=USD&interval=5min&apikey=demo

(https://www.alphavantage.co/query?function=FX_INTRADAY&from_symbol=EUR&to_symbol=USD&interval=5min&apikey=demo)

https://www.alphavantage.co/query?function=FX_INTRADAY&from_symbol=EUR&to_symbol=USD&interval=5min&outputsize=full&apikey=demo

(https://www.alphavantage.co/query?function=FX_INTRADAY&from_symbol=EUR&to_symbol=USD&interval=5min&outputsize=full&apikey=demo)

Downloadable CSV file:

https://www.alphavantage.co/query?function=FX_INTRADAY&from_symbol=EUR&to_symbol=USD&interval=5min&apikey=demo&datatype=csv

(https://www.alphavantage.co/query?function=FX_INTRADAY&from_symbol=EUR&to_symbol=USD&interval=5min&apikey=demo&datatype=csv)

function=FX_INTRADAY&from_symbol=EUR&to_symbol=USD&interval=5min&outputsize=full&apikey=demo&datatype=csv

(https://www.alphavantage.co/query?function=FX_INTRADAY&from_symbol=EUR&to_symbol=USD&interval=5min&outputsize=full&apikey=demo&datatype=csv)

Tip: this is a premium API function. Subscribe to a premium membership plan

(<https://www.alphavantage.co/premium/>) to instantly unlock all premium APIs.

Language-specific guides

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FX_DAILY

This API returns the daily time series (timestamp, open, high, low, close) of the FX currency pair specified, updated realtime.

API Parameters

■ Required: function

The time series of your choice. In this case, `function=FX_DAILY`

■ Required: from_symbol

A three-letter symbol from the forex currency list

(https://www.alphavantage.co/physical_currency_list/). For example: `from_symbol=EUR`

■ Required: to_symbol

A three-letter symbol from the forex currency list

(https://www.alphavantage.co/physical_currency_list/). For example: `to_symbol=USD`

■ Optional: outputsize

By default, `outputsize=compact`. Strings `compact` and `full` are accepted with the following specifications: `compact` returns only the latest 100 data points in the daily time series; `full` returns the full-length daily time series. The "compact" option is recommended if you would like to reduce the data size of each API call.

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

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Examples (click for JSON output)

https://www.alphavantage.co/query?function=FX_DAILY&from_symbol=EUR&to_symbol=USD&apikey=demo

(https://www.alphavantage.co/query?function=FX_DAILY&from_symbol=EUR&to_symbol=USD&apikey=demo)

https://www.alphavantage.co/query?function=FX_DAILY&from_symbol=EUR&to_symbol=USD&outputsize=full&apikey=demo

(https://www.alphavantage.co/query?function=FX_DAILY&from_symbol=EUR&to_symbol=USD&outputsize=full&apikey=demo)

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https://www.alphavantage.co/query?function=FX_DAILY&from_symbol=EUR&to_symbol=USD&outputsize=full&apikey=demo

(https://www.alphavantage.co/query?function=FX_DAILY&from_symbol=EUR&to_symbol=USD&outputsize=full&apikey=demo)

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FX_WEEKLY

This API returns the weekly time series (timestamp, open, high, low, close) of the FX currency pair specified, updated realtime.

The latest data point is the price information for the week (or partial week) containing the current trading day, updated realtime.

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API Parameters

■ Required: function

The time series of your choice. In this case, `function=FX_WEEKLY`

■ Required: from_symbol

A three-letter symbol from the forex currency list

(https://www.alphavantage.co/physical_currency_list/). For example: `from_symbol=EUR`

■ Required: to_symbol

A three-letter symbol from the forex currency list

(https://www.alphavantage.co/physical_currency_list/). For example: `to_symbol=USD`

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following

specifications: `json` returns the weekly time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

https://www.alphavantage.co/query?function=FX_WEEKLY&from_symbol=EUR&to_symbol=USD&apikey=demo

(https://www.alphavantage.co/query?function=FX_WEEKLY&from_symbol=EUR&to_symbol=USD&apikey=demo)

Downloadable CSV file:

https://www.alphavantage.co/query?function=FX_WEEKLY&from_symbol=EUR&to_symbol=USD&apikey=demo&datatype=csv

(https://www.alphavantage.co/query?function=FX_WEEKLY&from_symbol=EUR&to_symbol=USD&apikey=demo&datatype=csv)

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FX_MONTHLY

This API returns the monthly time series (timestamp, open, high, low, close) of the FX currency pair specified, updated realtime.

The latest data point is the prices information for the month (or partial month) containing the current trading day, updated realtime.

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■ Required: function

The time series of your choice. In this case, `function=FX_MONTHLY`

■ Required: from_symbol

A three-letter symbol from the forex currency list

(https://www.alphavantage.co/physical_currency_list/). For example: `from_symbol=EUR`

■ Required: to_symbol

A three-letter symbol from the forex currency list

(https://www.alphavantage.co/physical_currency_list/). For example: `to_symbol=USD`

■ Optional: datatype

By default, `datatype=json`. `Strings json` and `csv` are accepted with the following specifications: `json` returns the monthly time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

[https://www.alphavantage.co/query?
function=FX_MONTHLY&from_symbol=EUR&to_symbol=USD&apikey=demo](https://www.alphavantage.co/query?function=FX_MONTHLY&from_symbol=EUR&to_symbol=USD&apikey=demo)

([https://www.alphavantage.co/query?
function=FX_MONTHLY&from_symbol=EUR&to_symbol=USD&apikey=demo](https://www.alphavantage.co/query?function=FX_MONTHLY&from_symbol=EUR&to_symbol=USD&apikey=demo))

Downloadable CSV file:

[https://www.alphavantage.co/query?
function=FX_MONTHLY&from_symbol=EUR&to_symbol=USD&apikey=demo&datatype=csv](https://www.alphavantage.co/query?function=FX_MONTHLY&from_symbol=EUR&to_symbol=USD&apikey=demo&datatype=csv)

([https://www.alphavantage.co/query?
function=FX_MONTHLY&from_symbol=EUR&to_symbol=USD&apikey=demo&datatype=csv](https://www.alphavantage.co/query?function=FX_MONTHLY&from_symbol=EUR&to_symbol=USD&apikey=demo&datatype=csv))

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APIs under this section provide a wide range of data feed for digital and crypto currencies such as Bitcoin.

CURRENCY_EXCHANGE_RATE Trending

This API returns the realtime exchange rate for any pair of digital currency (e.g., Bitcoin) or physical currency (e.g., USD).

API Parameters

■ Required: function

The function of your choice. In this case, `function=CURRENCY_EXCHANGE_RATE`

■ Required: from_currency

The currency you would like to get the exchange rate for. It can either be a physical currency (https://www.alphavantage.co/physical_currency_list/) or digital/crypto currency (https://www.alphavantage.co/digital_currency_list/). For example: `from_currency=USD` or `from_currency=BTC`.

■ Required: to_currency

The destination currency for the exchange rate. It can either be a physical currency (https://www.alphavantage.co/physical_currency_list/) or digital/crypto currency (https://www.alphavantage.co/digital_currency_list/). For example: `to_currency=USD` or `to_currency=BTC`.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

Bitcoin to Euro:

```
\(https://www.alphavantage.co/query?  
function=CURRENCY_EXCHANGE_RATE&from_currency=BTC&to_currency=EUR&apikey=demo
```

US Dollar to Japanese Yen:

```
\(https://www.alphavantage.co/query?  
function=CURRENCY_EXCHANGE_RATE&from_currency=USD&to_currency=JPY&apikey=demo
```

Language-specific guides

[Python](#) [NodeJS](#) [PHP](#) [C#/.NET](#) [Other](#)

■ Looking for more programming languages? The open-source community has developed over 1000 libraries for Alpha Vantage across 20+ programming languages and frameworks - you may want to give them a try (<https://github.com/search?q=alpha+vantage>).

■ If you are a spreadsheet user (e.g., Excel or Google Sheets), please check out our dedicated spreadsheet add-ons (<https://www.alphavantage.co/spreadsheets/>).

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API Parameters

■ Required: function

The time series of your choice. In this case, `function=CRYPTO_INTRADAY`

■ Required: symbol

The digital/crypto currency of your choice. It can be any of the currencies in the digital currency list (https://www.alphavantage.co/digital_currency_list/). For example: `symbol=ETH`.

■ Required: market

The exchange market of your choice. It can be any of the market in the market list (https://www.alphavantage.co/physical_currency_list/). For example: `market=USD`.

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`

■ Optional: outputsize

By default, `outputsize=compact`. Strings `compact` and `full` are accepted with the following specifications: `compact` returns only the latest 100 data points in the intraday time series; `full` returns the full-length intraday time series. The "compact" option is recommended if you would like to reduce the data size of each API call.

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the intraday time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

https://www.alphavantage.co/query?function=CRYPTO_INTRADAY&symbol=ETH&market=USD&interval=5min&apikey=demo

(https://www.alphavantage.co/query?function=CRYPTO_INTRADAY&symbol=ETH&market=USD&interval=5min&apikey=demo)

https://www.alphavantage.co/query?function=CRYPTO_INTRADAY&symbol=ETH&market=USD&interval=5min&outputsize=full&apikey=demo

(https://www.alphavantage.co/query?function=CRYPTO_INTRADAY&symbol=ETH&market=USD&interval=5min&outputsize=full&apikey=demo)

Downloadable CSV file:

https://www.alphavantage.co/query?function=CRYPTO_INTRADAY&symbol=ETH&market=USD&interval=5min&apikey=demo&datatype=csv

(https://www.alphavantage.co/query?function=CRYPTO_INTRADAY&symbol=ETH&market=USD&interval=5min&apikey=demo&datatype=csv)

https://www.alphavantage.co/query?function=CRYPTO_INTRADAY&symbol=ETH&market=USD&interval=5min&apikey=demo

`function=CRYPTO_INTRADAY&symbol=ETH&market=USD&interval=5min&apikey=demo&datatype=csv`

`function=CRYPTO_INTRADAY&symbol=ETH&market=USD&interval=5min&apikey=demo&datatype=csv`

(https://www.alphavantage.co/query?function=CRYPTO_INTRADAY&symbol=ETH&market=USD&interval=5min&apikey=demo&datatype=csv)

💡 Tip: this is a premium API function. Subscribe to a premium membership plan (<https://www.alphavantage.co/premium/>) to instantly unlock all premium APIs.

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If you are a spreadsheet user (e.g., Excel or Google Sheets), please check out our dedicated spreadsheet add-ons (<https://www.alphavantage.co/spreadsheets/>).

DIGITAL_CURRENCY_DAILY

This API returns the daily historical time series for a digital currency (e.g., BTC) traded on a specific market (e.g., EUR/Euro), refreshed daily at midnight (UTC). Prices and volumes are quoted in both the market-specific currency and USD.

API Parameters

Required: function

The time series of your choice. In this case, `function=DIGITAL_CURRENCY_DAILY`

Required: symbol

The digital/crypto currency of your choice. It can be any of the currencies in the digital currency list (https://www.alphavantage.co/digital_currency_list/). For example: `symbol=BTC`.

Required: market

The exchange market of your choice. It can be any of the market in the market list (https://www.alphavantage.co/physical_currency_list/). For example: `market=EUR`.

Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

https://www.alphavantage.co/query?function=DIGITAL_CURRENCY_DAILY&symbol=BTC&market=EUR&apikey=demo

(https://www.alphavantage.co/query?function=DIGITAL_CURRENCY_DAILY&symbol=BTC&market=EUR&apikey=demo)

Downloadable CSV file:

https://www.alphavantage.co/query?function=DIGITAL_CURRENCY_DAILY&symbol=BTC&market=EUR&apikey=demo&datatype=csv

(https://www.alphavantage.co/query?function=DIGITAL_CURRENCY_DAILY&symbol=BTC&market=EUR&apikey=demo&datatype=csv)

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DIGITAL_CURRENCY_WEEKLY Trending

This API returns the weekly historical time series for a digital currency (e.g., BTC) traded on a specific market (e.g., EUR/Euro), refreshed daily at midnight (UTC). Prices and volumes are quoted in both the market-specific currency and USD.

API Parameters

■ Required: function

The time series of your choice. In this case, `function=DIGITAL_CURRENCY_WEEKLY`

■ Required: symbol

The digital/crypto currency of your choice. It can be any of the currencies in the digital currency list (https://www.alphavantage.co/digital_currency_list/). For example: `symbol=BTC`.

■ Required: market

The exchange market of your choice. It can be any of the market in the market list (https://www.alphavantage.co/physical_currency_list/). For example: `market=EUR`.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

https://www.alphavantage.co/query?function=DIGITAL_CURRENCY_WEEKLY&symbol=BTC&market=EUR&apikey=demo

(https://www.alphavantage.co/query?function=DIGITAL_CURRENCY_WEEKLY&symbol=BTC&market=EUR&apikey=demo)

Downloadable CSV file:

https://www.alphavantage.co/query?function=DIGITAL_CURRENCY_WEEKLY&symbol=BTC&market=EUR&apikey=demo&datatype=csv

(https://www.alphavantage.co/query?function=DIGITAL_CURRENCY_WEEKLY&symbol=BTC&market=EUR&apikey=demo&datatype=csv)

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DIGITAL_CURRENCY_MONTHLY Trending

This API returns the monthly historical time series for a digital currency (e.g., BTC) traded on a specific market (e.g., EUR/Euro), refreshed daily at midnight (UTC). Prices and volumes are quoted in both the market-specific currency and USD.

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- Exchange Rates Trending
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- Daily

API Parameters

■ Required: function

The time series of your choice. In this case, `function=DIGITAL_CURRENCY_MONTHLY`

■ Required: symbol

The digital/crypto currency of your choice. It can be any of the currencies in the digital currency list (https://www.alphavantage.co/digital_currency_list/). For example: `symbol=BTC`.

■ Required: market

The exchange market of your choice. It can be any of the market in the market list (https://www.alphavantage.co/physical_currency_list/). For example: `market=EUR`.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

[\(https://www.alphavantage.co/query?](https://www.alphavantage.co/query?function=DIGITAL_CURRENCY_MONTHLY&symbol=BTC&market=EUR&apikey=demo)

`function=DIGITAL_CURRENCY_MONTHLY&symbol=BTC&market=EUR&apikey=demo`

([\(https://www.alphavantage.co/query?](https://www.alphavantage.co/query?function=DIGITAL_CURRENCY_MONTHLY&symbol=BTC&market=EUR&apikey=demo)

`function=DIGITAL_CURRENCY_MONTHLY&symbol=BTC&market=EUR&apikey=demo)`

Downloadable CSV file:

[\(https://www.alphavantage.co/query?](https://www.alphavantage.co/query?function=DIGITAL_CURRENCY_MONTHLY&symbol=BTC&market=EUR&apikey=demo&datatype=csv)

`function=DIGITAL_CURRENCY_MONTHLY&symbol=BTC&market=EUR&apikey=demo&datatype=csv`

([\(https://www.alphavantage.co/query?](https://www.alphavantage.co/query?function=DIGITAL_CURRENCY_MONTHLY&symbol=BTC&market=EUR&apikey=demo&datatype=csv)

`function=DIGITAL_CURRENCY_MONTHLY&symbol=BTC&market=EUR&apikey=demo&datatype=csv)`

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⌚ Commodities

APIs under this section provide historical data for major commodities such as crude oil, natural gas, copper, wheat, etc., spanning across various temporal horizons (daily, weekly, monthly, quarterly, etc.)

Crude Oil Prices: West Texas Intermediate (WTI) Trending

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Intraday Trending	This API returns the West Texas Intermediate (WTI) crude oil prices in daily, weekly, and monthly horizons.
Daily	Source: U.S. Energy Information Administration, Crude Oil Prices: West Texas Intermediate (WTI) - Cushing, Oklahoma, retrieved from FRED, Federal Reserve Bank of St. Louis. This data feed uses the FRED® API but is <u>not</u> endorsed or certified by the Federal Reserve Bank of St. Louis. By using this data feed, you agree to be bound by the FRED® API Terms of Use (https://fred.stlouisfed.org/docs/api/terms_of_use.html).
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Realtime Options Premium	By default, datatype=json . Strings json and csv are accepted with the following specifications: json returns the time series in JSON format; csv returns the time series as a CSV (comma separated value) file.
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Analytics (Sliding Window)	By default, interval=monthly . Strings daily , weekly , and monthly are accepted.

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IPO Calendar	(https://www.alphavantage.co/query?function=WTI&interval=monthly&apikey=demo)

Forex (FX)

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	Looking for more programming languages? The open-source community has developed over 1000 libraries for Alpha Vantage across 20+ programming languages and frameworks - you may want to give them a try (https://github.com/search?q=alpha+vantage).
	If you are a spreadsheet user (e.g., Excel or Google Sheets), please check out our dedicated spreadsheet add-ons (https://www.alphavantage.co/spreadsheets/).

Crude Oil Prices (Brent) Trending

This API returns the Brent (Europe) crude oil prices in daily, weekly, and monthly horizons.

Source: U.S. Energy Information Administration, Crude Oil Prices: Brent - Europe, retrieved from FRED, Federal Reserve Bank of St. Louis. This data feed uses the FRED® API but is not endorsed or certified by the Federal Reserve Bank of St. Louis. By using this data feed, you agree to be bound by the FRED® API Terms of Use (https://fred.stlouisfed.org/docs/api/terms_of_use.html).

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API Parameters

■ Required: function

The function of your choice. In this case, `function=BRENT`

■ Optional: interval

By default, `interval=monthly`. Strings `daily`, `weekly`, and `monthly` are accepted.

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

<https://www.alphavantage.co/query?function=BRENT&interval=monthly&apikey=demo>

(<https://www.alphavantage.co/query?function=BRENT&interval=monthly&apikey=demo>)

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■ If you are a spreadsheet user (e.g., Excel or Google Sheets), please check out our dedicated spreadsheet add-ons (<https://www.alphavantage.co/spreadsheets/>).

Natural Gas

This API returns the Henry Hub natural gas spot prices in daily, weekly, and monthly horizons.

Source: U.S. Energy Information Administration, Henry Hub Natural Gas Spot Price, retrieved from FRED, Federal Reserve Bank of St. Louis. This data feed uses the FRED® API but is not endorsed or certified by the Federal Reserve Bank of St. Louis. By using this data feed, you agree to be bound by the FRED® API Terms of Use (https://fred.stlouisfed.org/docs/api/terms_of_use.html).

API Parameters

■ Required: function

The function of your choice. In this case, `function=NATURAL_GAS`

■ Optional: interval

By default, `interval=monthly`. Strings `daily`, `weekly`, and `monthly` are accepted.

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: `apikey`

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

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Examples (click for JSON output)

https://www.alphavantage.co/query?function=NATURAL_GAS&interval=monthly&apikey=demo
https://www.alphavantage.co/query?function=NATURAL_GAS&interval=monthly&apikey=demo

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■ If you are a spreadsheet user (e.g., Excel or Google Sheets), please check out our dedicated spreadsheet add-ons (<https://www.alphavantage.co/spreadsheets/>).

Global Price of Copper Trending

This API returns the global price of copper in monthly, quarterly, and annual horizons.

Source: International Monetary Fund (IMF Terms of Use (<https://www.imf.org/external/terms.htm>)), Global price of Copper, retrieved from FRED, Federal Reserve Bank of St. Louis. This data feed uses the FRED® API but is not endorsed or certified by the Federal Reserve Bank of St. Louis. By using this data feed, you agree to be bound by the FRED® API Terms of Use (https://fred.stlouisfed.org/docs/api/terms_of_use.html).

API Parameters

■ Required: `function`

The function of your choice. In this case, `function=COPPER`

■ Optional: `interval`

By default, `interval=monthly`. Strings `monthly`, `quarterly`, and `annual` are accepted.

■ Optional: `datatype`

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: `apikey`

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

[\(https://www.alphavantage.co/query?function=COPPER&interval=monthly&apikey=demo\)](https://www.alphavantage.co/query?function=COPPER&interval=monthly&apikey=demo)

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If you are a spreadsheet user (e.g., Excel or Google Sheets), please check out our dedicated spreadsheet add-ons (<https://www.alphavantage.co/spreadsheets/>).

Global Price of Aluminum

This API returns the global price of aluminum in monthly, quarterly, and annual horizons.

Source: International Monetary Fund (IMF Terms of Use (<https://www.imf.org/external/terms.htm>)), Global price of Aluminum, retrieved from FRED, Federal Reserve Bank of St. Louis. This data feed uses the FRED® API but is not endorsed or certified by the Federal Reserve Bank of St. Louis. By using this data feed, you agree to be bound by the FRED® API Terms of Use (https://fred.stlouisfed.org/docs/api/terms_of_use.html).

API Parameters

Required: function

The function of your choice. In this case, `function=ALUMINUM`

Optional: interval

By default, `interval=monthly`. Strings `monthly`, `quarterly`, and `annual` are accepted.

Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

[\(https://www.alphavantage.co/query?function=ALUMINUM&interval=monthly&apikey=demo\)](https://www.alphavantage.co/query?function=ALUMINUM&interval=monthly&apikey=demo)

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Global Price of Wheat

This API returns the global price of wheat in monthly, quarterly, and annual horizons.

Source: International Monetary Fund (IMF Terms of Use (<https://www.imf.org/external/terms.htm>)), Global price of Wheat, retrieved from FRED, Federal Reserve Bank of St. Louis. This data feed uses the FRED® API but is not endorsed or certified by the Federal Reserve Bank of St. Louis. By using this data feed, you agree to be bound by the FRED® API Terms of Use (https://fred.stlouisfed.org/docs/api/terms_of_use.html).

API Parameters

■ Required: function

The function of your choice. In this case, `function=WHEAT`

■ Optional: interval

By default, `interval=monthly`. Strings `monthly`, `quarterly`, and `annual` are accepted.

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

[\(https://www.alphavantage.co/query?function=WHEAT&interval=monthly&apikey=demo\)](https://www.alphavantage.co/query?function=WHEAT&interval=monthly&apikey=demo)

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Global Price of Corn

This API returns the global price of corn in monthly, quarterly, and annual horizons.

Source: International Monetary Fund (IMF Terms of Use (<https://www.imf.org/external/terms.htm>)), Global price of Corn, retrieved from FRED, Federal Reserve Bank of St. Louis. This data feed uses the FRED® API but is not endorsed or certified by the Federal Reserve Bank of St. Louis. By using this data feed, you agree to be bound by the FRED® API Terms of Use (https://fred.stlouisfed.org/docs/api/terms_of_use.html).

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API Parameters

■ Required: function

The function of your choice. In this case, `function=CORN`

■ Optional: interval

By default, `interval=monthly`. Strings `monthly`, `quarterly`, and `annual` are accepted.

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

<https://www.alphavantage.co/query?function=CORN&interval=monthly&apikey=demo>

(<https://www.alphavantage.co/query?function=CORN&interval=monthly&apikey=demo>)

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Global Price of Cotton

This API returns the global price of cotton in monthly, quarterly, and annual horizons.

Source: International Monetary Fund (IMF Terms of Use (<https://www.imf.org/external/terms.htm>)), Global price of Cotton, retrieved from FRED, Federal Reserve Bank of St. Louis. This data feed uses the FRED® API but is not endorsed or certified by the Federal Reserve Bank of St. Louis. By using this data feed, you agree to be bound by the FRED® API Terms of Use (https://fred.stlouisfed.org/docs/api/terms_of_use.html).

API Parameters

■ Required: function

The function of your choice. In this case, `function=COTTON`

■ Optional: interval

By default, `interval=monthly`. Strings `monthly`, `quarterly`, and `annual` are accepted.

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■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

<https://www.alphavantage.co/query?function=COTTON&interval=monthly&apikey=demo>

(<https://www.alphavantage.co/query?function=COTTON&interval=monthly&apikey=demo>)

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Global Price of Sugar

This API returns the global price of sugar in monthly, quarterly, and annual horizons.

Source: International Monetary Fund (IMF Terms of Use

(<https://www.imf.org/external/terms.htm>), Global price of Sugar, No. 11, World, retrieved from FRED, Federal Reserve Bank of St. Louis. This data feed uses the FRED® API but is not endorsed or certified by the Federal Reserve Bank of St. Louis. By using this data feed, you agree to be bound by the FRED® API Terms of Use (https://fred.stlouisfed.org/docs/api/terms_of_use.html).

API Parameters

■ Required: function

The function of your choice. In this case, `function=SUGAR`

■ Optional: interval

By default, `interval=monthly`. Strings `monthly`, `quarterly`, and `annual` are accepted.

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

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<https://www.alphavantage.co/query?function=SUGAR&interval=monthly&apikey=demo>

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Global Price of Coffee

This API returns the global price of coffee in monthly, quarterly, and annual horizons.

Source: International Monetary Fund (IMF Terms of Use

(<https://www.imf.org/external/terms.htm>), Global price of Coffee, Other Mild Arabica, retrieved from FRED, Federal Reserve Bank of St. Louis. This data feed uses the FRED® API but is not endorsed or certified by the Federal Reserve Bank of St. Louis. By using this data feed, you agree to be bound by the FRED® API Terms of Use (https://fred.stlouisfed.org/docs/api/terms_of_use.html).

API Parameters

■ Required: function

The function of your choice. In this case, `function=COFFEE`

■ Optional: interval

By default, `interval=monthly`. Strings `monthly`, `quarterly`, and `annual` are accepted.

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

<https://www.alphavantage.co/query?function=COFFEE&interval=monthly&apikey=demo>

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Global Price Index of All Commodities

This API returns the global price index of all commodities in monthly, quarterly, and annual temporal dimensions.

Source: International Monetary Fund (IMF Terms of Use (<https://www.imf.org/external/terms.htm>)), Global Price Index of All Commodities, retrieved from FRED, Federal Reserve Bank of St. Louis. This data feed uses the FRED® API but is not endorsed or certified by the Federal Reserve Bank of St. Louis. By using this data feed, you agree to be bound by the FRED® API Terms of Use (https://fred.stlouisfed.org/docs/api/terms_of_use.html).

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■ Required: function

The function of your choice. In this case, `function=ALL_COMMODITIES`

■ Optional: interval

By default, `interval=monthly`. Strings `monthly`, `quarterly`, and `annual` are accepted.

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

```
https://www.alphavantage.co/query?function=ALL\_COMMODITIES&interval=monthly&apikey=demo (https://www.alphavantage.co/query?function=ALL\_COMMODITIES&interval=monthly&apikey=demo)
```

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Economic Indicators

APIs under this section provide key US economic indicators frequently used for investment strategy formulation and application development.

REAL_GDP Trending

This API returns the annual and quarterly Real GDP of the United States.

Source: U.S. Bureau of Economic Analysis, Real Gross Domestic Product, retrieved from FRED, Federal Reserve Bank of St. Louis. This data feed uses the FRED® API but is not endorsed or certified by the Federal Reserve Bank of St. Louis. By using this data feed, you agree to be bound by the FRED® API Terms of Use (https://fred.stlouisfed.org/docs/api/terms_of_use.html).

API Parameters

■ Required: function

The function of your choice. In this case, `function=REAL_GDP`

■ Optional: interval

By default, `interval=annual`. Strings `quarterly` and `annual` are accepted.

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

https://www.alphavantage.co/query?function=REAL_GDP&interval=annual&apikey=demo

(https://www.alphavantage.co/query?function=REAL_GDP&interval=annual&apikey=demo)

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REAL_GDP_PER_CAPITA

This API returns the quarterly Real GDP per Capita data of the United States.

Source: U.S. Bureau of Economic Analysis, Real gross domestic product per capita, retrieved from FRED, Federal Reserve Bank of St. Louis. This data feed uses the FRED® API but is not endorsed or certified by the Federal Reserve Bank of St. Louis. By using this data feed, you agree to be bound by the FRED® API Terms of Use (https://fred.stlouisfed.org/docs/api/terms_of_use.html).

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■ Required: function

The function of your choice. In this case, `function=REAL_GDP_PER_CAPITA`

■ Optional: datatype

By default, `datatype=json`. `Strings json` and `csv` are accepted with the following specifications: `json` returns the time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

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https://www.alphavantage.co/query?function=REAL_GDP_PER_CAPITA&apikey=demo

(https://www.alphavantage.co/query?function=REAL_GDP_PER_CAPITA&apikey=demo)

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TREASURY_YIELD Trending

This API returns the daily, weekly, and monthly US treasury yield of a given maturity timeline (e.g., 5 year, 30 year, etc.).

Source: Board of Governors of the Federal Reserve System (US), Market Yield on U.S. Treasury Securities at 3-month, 2-year, 5-year, 7-year, 10-year, and 30-year Constant Maturities, Quoted on an Investment Basis, retrieved from FRED, Federal Reserve Bank of St. Louis. This data feed uses the FRED® API but is not endorsed or certified by the Federal Reserve Bank of St. Louis. By using this data feed, you agree to be bound by the FRED® API Terms of Use (https://fred.stlouisfed.org/docs/api/terms_of_use.html).

API Parameters

■ Required: function

The function of your choice. In this case, `function=TREASURY_YIELD`

■ Optional: interval

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By default, `interval=monthly`. Strings `daily`, `weekly`, and `monthly` are accepted.

■ Optional: `maturity`

By default, `maturity=10year`. Strings `3month`, `2year`, `5year`, `7year`, `10year`, and `30year` are accepted.

■ Optional: `datatype`

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: `apikey`

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

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[https://www.alphavantage.co/query?](https://www.alphavantage.co/query?function=TREASURY_YIELD&interval=monthly&maturity=10year&apikey=demo)

[function=TREASURY_YIELD&interval=monthly&maturity=10year&apikey=demo](https://www.alphavantage.co/query?function=TREASURY_YIELD&interval=monthly&maturity=10year&apikey=demo)

([https://www.alphavantage.co/query?](https://www.alphavantage.co/query?function=TREASURY_YIELD&interval=monthly&maturity=10year&apikey=demo))

[function=TREASURY_YIELD&interval=monthly&maturity=10year&apikey=demo](https://www.alphavantage.co/query?function=TREASURY_YIELD&interval=monthly&maturity=10year&apikey=demo)

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FEDERAL_FUNDS_RATE

This API returns the daily, weekly, and monthly federal funds rate (interest rate) of the United States.

Source: Board of Governors of the Federal Reserve System (US), Federal Funds Effective Rate, retrieved from FRED, Federal Reserve Bank of St. Louis (<https://fred.stlouisfed.org/series/FEDFUNDS>). This data feed uses the FRED® API but is not endorsed or certified by the Federal Reserve Bank of St. Louis. By using this data feed, you agree to be bound by the FRED® API Terms of Use (https://fred.stlouisfed.org/docs/api/terms_of_use.html).

API Parameters

■ Required: `function`

The function of your choice. In this case, `function=FEDERAL_FUNDS_RATE`

■ Optional: `interval`

By default, `interval=monthly`. Strings `daily`, `weekly`, and `monthly` are accepted.

■ Optional: `datatype`

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

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■ Required: apikey

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■ If you are a spreadsheet user (e.g., Excel or Google Sheets), please check out our dedicated spreadsheet add-ons (<https://www.alphavantage.co/spreadsheets/>).

CPI

This API returns the monthly and semiannual consumer price index (CPI) of the United States. CPI is widely regarded as the barometer of inflation levels in the broader economy.

Source: U.S. Bureau of Labor Statistics, Consumer Price Index for All Urban Consumers: All Items in U.S. City Average, retrieved from FRED, Federal Reserve Bank of St. Louis. This data feed uses the FRED® API but is not endorsed or certified by the Federal Reserve Bank of St. Louis. By using this data feed, you agree to be bound by the FRED® API Terms of Use (https://fred.stlouisfed.org/docs/api/terms_of_use.html).

API Parameters**■ Required: function**

The function of your choice. In this case, `function=CPI`

■ Optional: interval

By default, `interval=monthly`. Strings `monthly` and `semiannual` are accepted.

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)<https://www.alphavantage.co/query?function=CPI&interval=monthly&apikey=demo>

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■ If you are a spreadsheet user (e.g., Excel or Google Sheets), please check out our dedicated spreadsheet add-ons (<https://www.alphavantage.co/spreadsheets/>).

INFLATION

This API returns the annual inflation rates (consumer prices) of the United States.

Source: World Bank, Inflation, consumer prices for the United States, retrieved from FRED, Federal Reserve Bank of St. Louis. This data feed uses the FRED® API but is not endorsed or certified by the Federal Reserve Bank of St. Louis. By using this data feed, you agree to be bound by the FRED® API Terms of Use (https://fred.stlouisfed.org/docs/api/terms_of_use.html).

API Parameters

■ Required: function

The function of your choice. In this case, `function=INFLATION`

■ Optional: datatype

By default, `datatype=json`. `Strings json` and `csv` are accepted with the following specifications: `json` returns the time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

<https://www.alphavantage.co/query?function=INFLATION&apikey=demo>

(<https://www.alphavantage.co/query?function=INFLATION&apikey=demo>)

Language-specific guides

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RETAIL_SALES

This API returns the monthly Advance Retail Sales: Retail Trade data of the United States.

Source: U.S. Census Bureau, Advance Retail Sales: Retail Trade, retrieved from FRED, Federal Reserve Bank of St. Louis (<https://fred.stlouisfed.org/series/RSXFSN>). This data feed uses the FRED® API but is not endorsed or certified by the Federal Reserve Bank of St. Louis. By using this data feed, you agree to be bound by the FRED® API Terms of Use (https://fred.stlouisfed.org/docs/api/terms_of_use.html).

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API Parameters

■ Required: function

The function of your choice. In this case, `function=RETAIL_SALES`

■ Optional: datatype

By default, `datatype=json`. `Strings json` and `csv` are accepted with the following specifications: `json` returns the time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

https://www.alphavantage.co/query?function=RETAIL_SALES&apikey=demo

(https://www.alphavantage.co/query?function=RETAIL_SALES&apikey=demo)

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■ If you are a spreadsheet user (e.g., Excel or Google Sheets), please check out our dedicated spreadsheet add-ons (<https://www.alphavantage.co/spreadsheets/>).

DURABLES

This API returns the monthly manufacturers' new orders of durable goods in the United States.

Source: U.S. Census Bureau, Manufacturers' New Orders: Durable Goods, retrieved from FRED, Federal Reserve Bank of St. Louis (<https://fred.stlouisfed.org/series/UMDMNO>). This data feed uses the FRED® API but is not endorsed or certified by the Federal Reserve Bank of St. Louis. By using this data feed, you agree to be bound by the FRED® API Terms of Use (https://fred.stlouisfed.org/docs/api/terms_of_use.html).

API Parameters

■ Required: function

The function of your choice. In this case, `function=DURABLES`

■ Optional: datatype

By default, `datatype=json`. `Strings json` and `csv` are accepted with the following specifications: `json` returns the time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

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Examples (click for JSON output)<https://www.alphavantage.co/query?function=DURABLES&apikey=demo>

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UNEMPLOYMENT

This API returns the monthly unemployment data of the United States. The unemployment rate represents the number of unemployed as a percentage of the labor force. Labor force data are restricted to people 16 years of age and older, who currently reside in 1 of the 50 states or the District of Columbia, who do not reside in institutions (e.g., penal and mental facilities, homes for the aged), and who are not on active duty in the Armed Forces (source (<https://fred.stlouisfed.org/series/UNRATE>)).

Source: U.S. Bureau of Labor Statistics, Unemployment Rate, retrieved from FRED, Federal Reserve Bank of St. Louis. This data feed uses the FRED® API but is not endorsed or certified by the Federal Reserve Bank of St. Louis. By using this data feed, you agree to be bound by the FRED® API Terms of Use (https://fred.stlouisfed.org/docs/api/terms_of_use.html).

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API Parameters**■ Required: function**

The function of your choice. In this case, `function=UNEMPLOYMENT`

■ Optional: datatype

By default, `datatype=json`. `json` and `csv` are accepted with the following specifications: `json` returns the time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)<https://www.alphavantage.co/query?function=UNEMPLOYMENT&apikey=demo>

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NONFARM_PAYROLL

This API returns the monthly US All Employees: Total Nonfarm (commonly known as Total Nonfarm Payroll), a measure of the number of U.S. workers in the economy that excludes proprietors, private household employees, unpaid volunteers, farm employees, and the unincorporated self-employed.

Source: U.S. Bureau of Labor Statistics, All Employees, Total Nonfarm, retrieved from FRED, Federal Reserve Bank of St. Louis. This data feed uses the FRED® API but is not endorsed or certified by the Federal Reserve Bank of St. Louis. By using this data feed, you agree to be bound by the FRED® API Terms of Use (https://fred.stlouisfed.org/docs/api/terms_of_use.html).

API Parameters

■ Required: function

The function of your choice. In this case, `function=NONFARM_PAYROLL`

■ Optional: datatype

By default, `datatype=json`. `json` and `csv` are accepted with the following specifications: `json` returns the time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

https://www.alphavantage.co/query?function=NONFARM_PAYROLL&apikey=demo

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Technical indicator APIs for a given equity or currency exchange pair, derived from the underlying time series based stock API and forex data. All indicators are calculated from adjusted time series data to eliminate artificial price/volume perturbations from historical split and dividend events.

SMA Trending

This API returns the simple moving average (SMA) values. See also: SMA explainer (https://www.alphavantage.co/simple_moving_average_sma/) and mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=SimpleMA.htm>).

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=SMA`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each moving average value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Required: series_type

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

Equity:

[\(https://www.alphavantage.co/query?function=SMA&symbol=IBM&interval=weekly&time_period=10&series_type=open&apikey=demo\)](https://www.alphavantage.co/query?function=SMA&symbol=IBM&interval=weekly&time_period=10&series_type=open&apikey=demo)

Forex (FX) or cryptocurrency pair:

[\(https://www.alphavantage.co/query?function=SMA&symbol=USDEUR&interval=weekly&time_period=10&series_type=open&apikey=demo\)](https://www.alphavantage.co/query?function=SMA&symbol=USDEUR&interval=weekly&time_period=10&series_type=open&apikey=demo)

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EMA Trending

This API returns the exponential moving average (EMA) values. See also: EMA explainer (https://www.alphavantage.co/exponential_moving_average_ema/) and mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=ExpMA.htm>).

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=EMA`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each moving average value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Required: series_type

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The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ **Optional: datatype**

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By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ **Required: apikey**

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

Equity:

https://www.alphavantage.co/query?function=EMA&symbol=IBM&interval=weekly&time_period=10&series_type=open&apikey=demo
(https://www.alphavantage.co/query?function=EMA&symbol=IBM&interval=weekly&time_period=10&series_type=open&apikey=demo)

Forex (FX) or cryptocurrency pair:

https://www.alphavantage.co/query?function=EMA&symbol=USDEUR&interval=weekly&time_period=10&series_type=open&apikey=demo
(https://www.alphavantage.co/query?function=EMA&symbol=USDEUR&interval=weekly&time_period=10&series_type=open&apikey=demo)

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WMA

This API returns the weighted moving average (WMA) values. See also: mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=WeightedMA.htm>).

API Parameters

■ **Required: function**

The technical indicator of your choice. In this case, `function=WMA`

■ **Required: symbol**

The name of the ticker of your choice. For example: `symbol=IBM`

■ **Required: interval**

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ **Optional: month**

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

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Daily		■ Required: time_period
Daily Adjusted	Trending	Number of data points used to calculate each moving average value. Positive integers are accepted (e.g., <code>time_period=60</code> , <code>time_period=200</code>)
Weekly		■ Required: series_type
Weekly Adjusted		The desired price type in the time series. Four types are supported: <code>close</code> , <code>open</code> , <code>high</code> , <code>low</code>
Monthly		■ Optional: datatype
Monthly Adjusted		By default, <code>datatype=json</code> . <code>Strings json</code> and <code>csv</code> are accepted with the following specifications: <code>json</code> returns the daily time series in JSON format; <code>csv</code> returns the time series as a CSV (comma separated value) file.
Quote Endpoint	Trending	■ Required: apikey
Realtime Bulk Quotes	Premium	Your API key. Claim your free API key here (https://www.alphavantage.co/support/#apikey).
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Insider Transactions	Trending	<code>function=WMA&symbol=IBM&interval=weekly&time_period=10&series_type=open&apikey=demo</code>
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Intraday	Premium	The technical indicator of your choice. In this case, <code>function=DEMA</code>
Daily		

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=DEMA`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each moving average value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Required: series_type

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

[\(https://www.alphavantage.co/query?](https://www.alphavantage.co/query?function=DEMA&symbol=IBM&interval=weekly&time_period=10&series_type=open&apikey=demo)

`function=DEMA&symbol=IBM&interval=weekly&time_period=10&series_type=open&apikey=demo)`

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TEMA

This API returns the triple exponential moving average (TEMA) values. See also: mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=TEMA.htm>).

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API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=TEMA`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (`1min`, `5min`, `15min`, `30min`, and `60min`) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in `YYYY-MM` format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than `2000-01` (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each moving average value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Required: series_type

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

```
https://www.alphavantage.co/query?
function=TEMA&symbol=IBM&interval=weekly&time_period=10&series_type=open&apikey=demo
(https://www.alphavantage.co/query?
function=TEMA&symbol=IBM&interval=weekly&time_period=10&series_type=open&apikey=demo)
```

Language-specific guides

[Python](#) [NodeJS](#) [PHP](#) [C#/.NET](#) [Other](#)

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TRIMA

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API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=TRIMA`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each moving average value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Required: series_type

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

```
\(https://www.alphavantage.co/query?  
function=TRIMA&symbol=IBM&interval=weekly&time\_period=10&series\_type=open&apikey=demo\)
```

Language-specific guides

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KAMA

This API returns the Kaufman adaptive moving average (KAMA) values.

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=KAMA`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (`1min`, `5min`, `15min`, `30min`, and `60min`) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each moving average value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Required: series_type

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ Optional: datatype

By default, `datatype=json`. `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

https://www.alphavantage.co/query?function=KAMA&symbol=IBM&interval=weekly&time_period=10&series_type=open&apikey=demo

(https://www.alphavantage.co/query?function=KAMA&symbol=IBM&interval=weekly&time_period=10&series_type=open&apikey=demo)

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MAMA

This API returns the MESA adaptive moving average (MAMA) values.

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=MAMA`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: series_type

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ Optional: fastlimit

Positive floats are accepted. By default, `fastlimit=0.01`.

■ Optional: slowlimit

Positive floats are accepted. By default, `slowlimit=0.01`.

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

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Example (click for JSON output)

```
https://www.alphavantage.co/query?
function=MAMA&symbol=IBM&interval=daily&series_type=close&fastlimit=0.02&apikey=demo
(function=MAMA&symbol=IBM&interval=daily&series_type=close&fastlimit=0.02&apikey=demo)
```

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VWAP Trending Premium

This API returns the volume weighted average price (VWAP) for intraday time series. See also: Investopedia article (<https://www.investopedia.com/terms/v/vwap.asp>).

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=VWAP`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. In keeping with mainstream investment literatures on VWAP, the following intraday intervals are supported: `1min`, `5min`, `15min`, `30min`, `60min`

■ Optional: month

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Optional: datatype

By default, `datatype=json`. `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#api-key>).

Examples (click for JSON output)

[https://www.alphavantage.co/query?
function=VWAP&symbol=IBM&interval=15min&apikey=demo](https://www.alphavantage.co/query?function=VWAP&symbol=IBM&interval=15min&apikey=demo) (<https://www.alphavantage.co/premium/>)

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API Parameters

■ Required: `function`

The technical indicator of your choice. In this case, `function=T3`

■ Required: `symbol`

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: `interval`

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: `month`

Note: this parameter is ONLY applicable to intraday intervals (`1min`, `5min`, `15min`, `30min`, and `60min`) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: `time_period`

Number of data points used to calculate each moving average value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Required: `series_type`

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ Optional: `datatype`

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: `apikey`

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

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Examples (click for JSON output)

https://www.alphavantage.co/query?function=T3&symbol=IBM&interval=weekly&time_period=10&series_type=open&apikey=demo

(https://www.alphavantage.co/query?function=T3&symbol=IBM&interval=weekly&time_period=10&series_type=open&apikey=demo)

[function=T3&symbol=IBM&interval=weekly&time_period=10&series_type=open&apikey=demo](https://www.alphavantage.co/query?function=T3&symbol=IBM&interval=weekly&time_period=10&series_type=open&apikey=demo)

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MACD Trending Premium

This API returns the moving average convergence / divergence (MACD) values. See also: Investopedia article (<http://www.investopedia.com/articles/forex/05/macddiverge.asp>) and mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=MACD.htm>).

API Parameters

■ Required: `function`

The technical indicator of your choice. In this case, `function=MACD`

■ Required: `symbol`

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: `interval`

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: `month`

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: `series_type`

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ **Optional: fastperiod**

Positive integers are accepted. By default, `fastperiod=12`.

■ **Optional: slowperiod**

Positive integers are accepted. By default, `slowperiod=26`.

■ **Optional: signalperiod**

Positive integers are accepted. By default, `signalperiod=9`.

■ **Optional: datatype**

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ **Required: apikey**

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

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Equity:

https://www.alphavantage.co/query?function=MACD&symbol=IBM&interval=daily&series_type=open&apikey=demo

(https://www.alphavantage.co/query?function=MACD&symbol=IBM&interval=daily&series_type=open&apikey=demo)

Forex (FX) or cryptocurrency pair:

https://www.alphavantage.co/query?function=MACD&symbol=USDEUR&interval=weekly&series_type=open&apikey=demo

(https://www.alphavantage.co/query?function=MACD&symbol=USDEUR&interval=weekly&series_type=open&apikey=demo)

Tip: this is a premium API function. Subscribe to a premium membership plan (<https://www.alphavantage.co/premium/>) to instantly unlock all premium APIs.

Language-specific guides

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MACDEXT

This API returns the moving average convergence / divergence values with controllable moving average type. See also: Investopedia article (<http://www.investopedia.com/articles/forex/05/macddiverge.asp>) and mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=MACD.htm>).

API Parameters**■ Required: function**

The technical indicator of your choice. In this case, `function=MACDEXT`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: series_type

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ Optional: fastperiod

Positive integers are accepted. By default, `fastperiod=12`.

■ Optional: slowperiod

Positive integers are accepted. By default, `slowperiod=26`.

■ Optional: signalperiod

Positive integers are accepted. By default, `signalperiod=9`.

■ Optional: fastmatype

Moving average type for the faster moving average. By default, `fastmatype=0`. Integers 0 - 8 are accepted with the following mappings. 0 = Simple Moving Average (SMA), 1 = Exponential Moving Average (EMA), 2 = Weighted Moving Average (WMA), 3 = Double Exponential Moving Average (DEMA), 4 = Triple Exponential Moving Average (TEMA), 5 = Triangular Moving Average (TRIMA), 6 = T3 Moving Average, 7 = Kaufman Adaptive Moving Average (KAMA), 8 = MESA Adaptive Moving Average (MAMA).

■ Optional: slowmatype

Moving average type for the slower moving average. By default, `slowmatype=0`. Integers 0 - 8 are accepted with the following mappings. 0 = Simple Moving Average (SMA), 1 = Exponential Moving Average (EMA), 2 = Weighted Moving Average (WMA), 3 = Double Exponential Moving Average (DEMA), 4 = Triple Exponential Moving Average (TEMA), 5 = Triangular Moving Average (TRIMA), 6 = T3 Moving Average, 7 = Kaufman Adaptive Moving Average (KAMA), 8 = MESA Adaptive Moving Average (MAMA).

■ Optional: signalmatype

Moving average type for the signal moving average. By default, `signalmatype=0`. Integers 0 - 8 are accepted with the following mappings. 0 = Simple Moving Average (SMA), 1 = Exponential Moving Average (EMA), 2 = Weighted Moving Average (WMA), 3 = Double Exponential Moving Average (DEMA), 4 = Triple Exponential Moving Average (TEMA), 5 = Triangular Moving Average (TRIMA), 6 = T3 Moving Average, 7 = Kaufman Adaptive Moving Average (KAMA), 8 = MESA Adaptive Moving Average (MAMA).

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■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

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https://www.alphavantage.co/query?function=MACDEXT&symbol=IBM&interval=daily&series_type=open&apikey=demo

(https://www.alphavantage.co/query?function=MACDEXT&symbol=IBM&interval=daily&series_type=open&apikey=demo)

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STOCH Trending

This API returns the stochastic oscillator (STOCH) values. See also: Investopedia article (<https://www.investopedia.com/terms/s/stochasticoscillator.asp>) and mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=StochasticOscillator.htm>).

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=STOCH`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Optional: fastkperiod

The time period of the fastk moving average. Positive integers are accepted. By default, `fastkperiod=5`.

■ **Optional:** `slowkperiod`

The time period of the slowk moving average. Positive integers are accepted. By default, `slowkperiod=3`.

■ **Optional:** `slowdperiod`

The time period of the slowd moving average. Positive integers are accepted. By default, `slowdperiod=3`.

■ **Optional:** `slowkmatype`

Moving average type for the slowk moving average. By default, `slowkmatype=0`. Integers 0 - 8 are accepted with the following mappings. 0 = Simple Moving Average (SMA), 1 = Exponential Moving Average (EMA), 2 = Weighted Moving Average (WMA), 3 = Double Exponential Moving Average (DEMA), 4 = Triple Exponential Moving Average (TEMA), 5 = Triangular Moving Average (TRIMA), 6 = T3 Moving Average, 7 = Kaufman Adaptive Moving Average (KAMA), 8 = MESA Adaptive Moving Average (MAMA).

■ **Optional:** `slowdmatype`

Moving average type for the slowd moving average. By default, `slowdmatype=0`. Integers 0 - 8 are accepted with the following mappings. 0 = Simple Moving Average (SMA), 1 = Exponential Moving Average (EMA), 2 = Weighted Moving Average (WMA), 3 = Double Exponential Moving Average (DEMA), 4 = Triple Exponential Moving Average (TEMA), 5 = Triangular Moving Average (TRIMA), 6 = T3 Moving Average, 7 = Kaufman Adaptive Moving Average (KAMA), 8 = MESA Adaptive Moving Average (MAMA).

■ **Optional:** `datatype`

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ **Required:** `apikey`

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

Equity:

<https://www.alphavantage.co/query?function=STOCH&symbol=IBM&interval=daily&apikey=demo> (<https://www.alphavantage.co/query?function=STOCH&symbol=IBM&interval=daily&apikey=demo>)

Forex (FX) or cryptocurrency pair:

<https://www.alphavantage.co/query?function=STOCH&symbol=USDEUR&interval=weekly&apikey=demo> (<https://www.alphavantage.co/query?function=STOCH&symbol=USDEUR&interval=weekly&apikey=demo>)

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This API returns the stochastic fast (STOCHF) values. See also: Investopedia article (http://www.investopedia.com/university/indicator_oscillator/ind_osc8.asp) and mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=StochasticOscillator.htm>).

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=STOCHF`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Optional: fastkperiod

The time period of the fastk moving average. Positive integers are accepted. By default, `fastkperiod=5`.

■ Optional: fastdperiod

The time period of the fastd moving average. Positive integers are accepted. By default, `fastdperiod=3`.

■ Optional: fastdmatype

Moving average type for the fastd moving average. By default, `fastdmatype=0`. Integers 0 - 8 are accepted with the following mappings. 0 = Simple Moving Average (SMA), 1 = Exponential Moving Average (EMA), 2 = Weighted Moving Average (WMA), 3 = Double Exponential Moving Average (DEMA), 4 = Triple Exponential Moving Average (TEMA), 5 = Triangular Moving Average (TRIMA), 6 = T3 Moving Average, 7 = Kaufman Adaptive Moving Average (KAMA), 8 = MESA Adaptive Moving Average (MAMA).

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

[https://www.alphavantage.co/query?
function=STOCHF&symbol=IBM&interval=daily&apikey=demo](https://www.alphavantage.co/query?function=STOCHF&symbol=IBM&interval=daily&apikey=demo) ([https://www.alphavantage.co/query?
function=STOCHF&symbol=IBM&interval=daily&apikey=demo](https://www.alphavantage.co/query?function=STOCHF&symbol=IBM&interval=daily&apikey=demo))

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If you are a spreadsheet user (e.g., Excel or Google Sheets), please check out our dedicated spreadsheet add-ons (<https://www.alphavantage.co/spreadsheets/>).

RSI Trending

This API returns the relative strength index (RSI) values. See also: RSI explainer (https://www.alphavantage.co/relative_strength_index_rsi/) and mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=RSI.htm>).

API Parameters

Required: function

The technical indicator of your choice. In this case, `function=RSI`

Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

Required: time_period

Number of data points used to calculate each RSI value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

Required: series_type

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

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Examples (click for JSON output)

Equity:

https://www.alphavantage.co/query?function=RSI&symbol=IBM&interval=weekly&time_period=10&series_type=open&apikey=demo

(https://www.alphavantage.co/query?function=RSI&symbol=IBM&interval=weekly&time_period=10&series_type=open&apikey=demo)

Forex (FX) or cryptocurrency pair:

https://www.alphavantage.co/query?function=RSI&symbol=USDEUR&interval=weekly&time_period=10&series_type=open&apikey=demo

(https://www.alphavantage.co/query?function=RSI&symbol=USDEUR&interval=weekly&time_period=10&series_type=open&apikey=demo)

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STOCHRSI

This API returns the stochastic relative strength index (STOCHRSI) values. See also: mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=StochRSI.htm>).

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=STOCHRSI`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each STOCHRSI value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

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■ Required: series_type

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ Optional: fastkperiod

The time period of the fastk moving average. Positive integers are accepted. By default, `fastkperiod=5`.

■ Optional: fastdperiod

The time period of the fastd moving average. Positive integers are accepted. By default, `fastdperiod=3`.

■ Optional: fastdmatype

Moving average type for the fastd moving average. By default, `fastdmatype=0`. Integers 0 - 8 are accepted with the following mappings. 0 = Simple Moving Average (SMA), 1 = Exponential Moving Average (EMA), 2 = Weighted Moving Average (WMA), 3 = Double Exponential Moving Average (DEMA), 4 = Triple Exponential Moving Average (TEMA), 5 = Triangular Moving Average (TRIMA), 6 = T3 Moving Average, 7 = Kaufman Adaptive Moving Average (KAMA), 8 = MESA Adaptive Moving Average (MAMA).

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

```
https://www.alphavantage.co/query?function=STOCHRSI&symbol=IBM&interval=daily&time\_period=10&series\_type=close&fastkperiod=6&fastdmatype=1&datatype=json
```

(https://www.alphavantage.co/query?function=STOCHRSI&symbol=IBM&interval=daily&time_period=10&series_type=close&fastkperiod=6&fastdmatype=1&datatype=json)

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WILLR

This API returns the Williams' %R (WILLR) values. See also: mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=WilliamsR.htm>).

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=WILLR`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each WILLR value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

```
\(https://www.alphavantage.co/query?  
function=WILLR&symbol=IBM&interval=daily&time\_period=10&apikey=demo\)
```

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This API returns the average directional movement index (ADX) values. See also: Investopedia article (<http://www.investopedia.com/articles/trading/07/adx-trend-indicator.asp>) and mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=ADX.htm>).

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API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=ADX`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each ADX value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

Equity:

```
\(https://www.alphavantage.co/query?  
function=ADX&symbol=IBM&interval=daily&time\_period=10&apikey=demo\)
```

Forex (FX) or cryptocurrency pair:

```
\(https://www.alphavantage.co/query?  
function=ADX&symbol=USDEUR&interval=weekly&time\_period=10&apikey=demo\)
```

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ADX.R

This API returns the average directional movement index rating (ADXR) values. See also: mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=ADXR.htm>).

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=ADXR`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each ADXR value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Optional: datatype

By default, `datatype=json`. `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

```
https://www.alphavantage.co/query?
function=ADXR&symbol=IBM&interval=daily&time_period=10&apikey=demo
```

(https://www.alphavantage.co/query?function=ADXR&symbol=IBM&interval=daily&time_period=10&apikey=demo)

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■ If you are a spreadsheet user (e.g., Excel or Google Sheets), please check out our dedicated spreadsheet add-ons (<https://www.alphavantage.co/spreadsheets/>).

APO

This API returns the absolute price oscillator (APO) values. See also: mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=PriceOscillator.htm>).

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=APO`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: series_type

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ Optional: fastperiod

Positive integers are accepted. By default, `fastperiod=12`.

■ Optional: slowperiod

Positive integers are accepted. By default, `slowperiod=26`.

■ Optional: matype

Moving average type. By default, `matype=0`. Integers 0 - 8 are accepted with the following mappings. 0 = Simple Moving Average (SMA), 1 = Exponential Moving Average (EMA), 2 = Weighted Moving Average (WMA), 3 = Double Exponential Moving Average (DEMA), 4 = Triple Exponential Moving Average (TEMA), 5 = Triangular Moving Average (TRIMA), 6 = T3 Moving Average, 7 = Kaufman Adaptive Moving Average (KAMA), 8 = MESA Adaptive Moving Average (MAMA).

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: `apikey`

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

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Example (click for JSON output)

https://www.alphavantage.co/query?function=APO&symbol=IBM&interval=daily&series_type=close&fastperiod=10&matype=1&apikey=demo

(https://www.alphavantage.co/query?function=APO&symbol=IBM&interval=daily&series_type=close&fastperiod=10&matype=1&apikey=demo)

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PPO

This API returns the percentage price oscillator (PPO) values. See also: Investopedia article (<http://www.investopedia.com/articles/investing/051214/use-percentage-price-oscillator-elegant-indicator-picking-stocks.asp>) and mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=PriceOscillatorPct.htm>).

API Parameters

■ Required: `function`

The technical indicator of your choice. In this case, `function=PPO`

■ Required: `symbol`

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: `interval`

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: `month`

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: `series_type`

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ **Optional:** `fastperiod`

Positive integers are accepted. By default, `fastperiod=12`.

■ **Optional:** `slowperiod`

Positive integers are accepted. By default, `slowperiod=26`.

■ **Optional:** `matype`

Moving average type. By default, `matype=0`. Integers 0 - 8 are accepted with the following mappings. 0 = Simple Moving Average (SMA), 1 = Exponential Moving Average (EMA), 2 = Weighted Moving Average (WMA), 3 = Double Exponential Moving Average (DEMA), 4 = Triple Exponential Moving Average (TEMA), 5 = Triangular Moving Average (TRIMA), 6 = T3 Moving Average, 7 = Kaufman Adaptive Moving Average (KAMA), 8 = MESA Adaptive Moving Average (MAMA).

■ **Optional:** `datatype`

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ **Required:** `apikey`

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

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Example (click for JSON output)

```
https://www.alphavantage.co/query?function=PPO&symbol=IBM&interval=daily&series\_type=close&fastperiod=10&slowperiod=26&matype=1&apikey=demo
(function=PPO&symbol=IBM&interval=daily&series_type=close&fastperiod=10&slowperiod=26&matype=1&apikey=demo)
```

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MOM

This API returns the momentum (MOM) values. See also: Investopedia article (<http://www.investopedia.com/articles/technical/03/070203.asp>) and mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=Momentum.htm>).

API Parameters

■ **Required:** `function`

The technical indicator of your choice. In this case, `function=MOM`

■ **Required:** `symbol`

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: `interval`

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: `month`

Note: this parameter is ONLY applicable to intraday intervals (`1min`, `5min`, `15min`, `30min`, and `60min`) for the equity markets. The `daily/weekly/monthly` intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in `YYYY-MM` format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than `2000-01` (January 2000) is supported.

■ Required: `time_period`

Number of data points used to calculate each MOM value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Required: `series_type`

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ Optional: `datatype`

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: `apikey`

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

```
https://www.alphavantage.co/query?function=MOM&symbol=IBM&interval=daily&time\_period=10&series\_type=close&apikey=demo  
(https://www.alphavantage.co/query?function=MOM&symbol=IBM&interval=daily&time\_period=10&series\_type=close&apikey=demo)
```

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BOP

Forex (FX)

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This API returns the balance of power (BOP) values.

Intraday Premium

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API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=BOP`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

[\(https://www.alphavantage.co/query?function=BOP&symbol=IBM&interval=daily&apikey=demo\)](https://www.alphavantage.co/query?function=BOP&symbol=IBM&interval=daily&apikey=demo)

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CCI Trending

This API returns the commodity channel index (CCI) values. See also: Investopedia article (<http://www.investopedia.com/articles/trading/05/041805.asp>) and mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=CCI.htm>).

API Parameters**■ Required: function**

The technical indicator of your choice. In this case, `function=CCI`

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■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each CCI value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

Equity:

```
\(https://www.alphavantage.co/query?  
function=CCI&symbol=IBM&interval=daily&time\_period=10&apikey=demo\)
```

Forex (FX) or cryptocurrency pair:

```
\(https://www.alphavantage.co/query?  
function=CCI&symbol=USDEUR&interval=weekly&time\_period=10&apikey=demo\)
```

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CMO

This API returns the Chande momentum oscillator (CMO) values. See also: mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=CMO.htm>).

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API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=CMO`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each CMO value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Required: series_type

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ Optional: datatype

By default, `datatype=json`. `Strings json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

```
https://www.alphavantage.co/query?function=CMO&symbol=IBM&interval=weekly&time\_period=10&series\_type=close&apikey=demo  
(https://www.alphavantage.co/query?function=CMO&symbol=IBM&interval=weekly&time\_period=10&series\_type=close&apikey=demo)
```

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ROC

This API returns the rate of change (ROC) values. See also: Investopedia article (<http://www.investopedia.com/articles/technical/092401.asp>).

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=ROC`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min, 5min, 15min, 30min, 60min, daily, weekly, monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each ROC value. Positive integers are accepted (e.g., `time_period=60, time_period=200`)

■ Required: series_type

The desired price type in the time series. Four types are supported: `close, open, high, low`

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

https://www.alphavantage.co/query?function=ROC&symbol=IBM&interval=weekly&time_period=10&series_type=close&apikey=demo

(https://www.alphavantage.co/query?function=ROC&symbol=IBM&interval=weekly&time_period=10&series_type=close&apikey=demo)

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ROCR

This API returns the rate of change ratio (ROCR) values. See also: Investopedia article (<http://www.investopedia.com/articles/technical/092401.asp>).

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=ROCR`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each ROCR value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Required: series_type

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

[\(https://www.alphavantage.co/query?function=ROCR&symbol=IBM&interval=daily&time_period=10&series_type=close&apikey=demo\)](https://www.alphavantage.co/query?function=ROCR&symbol=IBM&interval=daily&time_period=10&series_type=close&apikey=demo)

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AROON Trending

This API returns the Aroon (AROON) values. See also: Investopedia article (<http://www.investopedia.com/articles/trading/06/aroon.asp>) and mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=Aroon.htm>).

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=AROON`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each AROON value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Optional: datatype

By default, `datatype=json`. `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

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Example (click for JSON output)

Equity:

[\(https://www.alphavantage.co/query?](https://www.alphavantage.co/query?function=AROON&symbol=IBM&interval=daily&time_period=14&apikey=demo)

function=AROON&symbol=IBM&interval=daily&time_period=14&apikey=demo)

Forex (FX) or cryptocurrency pair:

[\(https://www.alphavantage.co/query?](https://www.alphavantage.co/query?function=AROON&symbol=USDEUR&interval=weekly&time_period=14&apikey=demo)

function=AROON&symbol=USDEUR&interval=weekly&time_period=14&apikey=demo)

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AROONOSC

This API returns the Aroon oscillator (AROONOSC) values. See also: mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=AroonOscillator.htm>).

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=AROONOSC`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each AROONOSC value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

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■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

https://www.alphavantage.co/query?function=AROONOSC&symbol=IBM&interval=daily&time_period=10&apikey=demo

(https://www.alphavantage.co/query?function=AROONOSC&symbol=IBM&interval=daily&time_period=10&apikey=demo)

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MFI

This API returns the money flow index (MFI) values. See also: Investopedia article (<http://www.investopedia.com/articles/technical/03/072303.asp>) and mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=MoneyFlowIndex.htm>).

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=MFI`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each MFI value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ **Optional: datatype**

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ **Required: apikey**

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

```
\(https://www.alphavantage.co/query?function=MFI&symbol=IBM&interval=weekly&time\_period=10&apikey=demo\)
```

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TRIX

This API returns the 1-day rate of change of a triple smooth exponential moving average (TRIX) values. See also: Investopedia article (<http://www.investopedia.com/articles/technical/02/092402.asp>) and mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=TRIX.htm>).

API Parameters

■ **Required: function**

The technical indicator of your choice. In this case, `function=TRIX`

■ **Required: symbol**

The name of the ticker of your choice. For example: `symbol=IBM`

■ **Required: interval**

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ **Optional: month**

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history.

For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: `time_period`

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Number of data points used to calculate each TRIX value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Required: `series_type`

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ Optional: `datatype`

By default, `datatype=json`. `Strings json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: `apikey`

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

```
\(https://www.alphavantage.co/query?function=TRIX&symbol=IBM&interval=daily&time\_period=10&series\_type=close&apikey=demo\)
```

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ULTOSC

This API returns the ultimate oscillator (ULTOSC) values. See also: mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=UltimateOsc.htm>).

API Parameters

■ Required: `function`

The technical indicator of your choice. In this case, `function=ULTOSC`

■ Required: `symbol`

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: `interval`

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: `month`

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

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By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Optional: `timeperiod1`

The first time period for the indicator. Positive integers are accepted. By default, `timeperiod1=7`.

■ Optional: `timeperiod2`

The second time period for the indicator. Positive integers are accepted. By default, `timeperiod2=14`.

■ Optional: `timeperiod3`

The third time period for the indicator. Positive integers are accepted. By default, `timeperiod3=28`.

■ Optional: `datatype`

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: `apikey`

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Examples (click for JSON output)

[\(https://www.alphavantage.co/query?function=ULTOSC&symbol=IBM&interval=daily&timeperiod1=8&apikey=demo\)](https://www.alphavantage.co/query?function=ULTOSC&symbol=IBM&interval=daily&timeperiod1=8&apikey=demo)

(<https://www.alphavantage.co/query?function=ULTOSC&symbol=IBM&interval=daily&timeperiod1=8&apikey=demo>)

[\(https://www.alphavantage.co/query?function=ULTOSC&symbol=IBM&interval=daily&timeperiod1=8&apikey=demo\)](https://www.alphavantage.co/query?function=ULTOSC&symbol=IBM&interval=daily&timeperiod1=8&apikey=demo)

[\(https://www.alphavantage.co/query?function=ULTOSC&symbol=IBM&interval=daily&timeperiod1=8&apikey=demo\)](https://www.alphavantage.co/query?function=ULTOSC&symbol=IBM&interval=daily&timeperiod1=8&apikey=demo)

[\(https://www.alphavantage.co/query?function=ULTOSC&symbol=IBM&interval=daily&timeperiod1=8&apikey=demo\)](https://www.alphavantage.co/query?function=ULTOSC&symbol=IBM&interval=daily&timeperiod1=8&apikey=demo)

[\(https://www.alphavantage.co/query?function=ULTOSC&symbol=IBM&interval=daily&timeperiod1=8&apikey=demo\)](https://www.alphavantage.co/query?function=ULTOSC&symbol=IBM&interval=daily&timeperiod1=8&apikey=demo)

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DX

This API returns the directional movement index (DX) values. See also: Investopedia article (<http://www.investopedia.com/articles/technical/02/050602.asp>) and mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=DX.htm>).

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API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=DX`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (`1min`, `5min`, `15min`, `30min`, and `60min`) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in `YYYY-MM` format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than `2000-01` (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each DX value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Optional: datatype

By default, `datatype=json`. `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

```
\(https://www.alphavantage.co/query?  
function=DX&symbol=IBM&interval=daily&time\_period=10&apikey=demo\)
```

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MINUS_DI

This API returns the minus directional indicator (MINUS_DI) values. See also: Investopedia article (<http://www.investopedia.com/articles/technical/02/050602.asp>) and mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=DI.htm>).

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API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=MINUS_DI`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each MINUS_DI value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

https://www.alphavantage.co/query?function=MINUS_DI&symbol=IBM&interval=weekly&time_period=10&apikey=demo

(https://www.alphavantage.co/query?function=MINUS_DI&symbol=IBM&interval=weekly&time_period=10&apikey=demo)

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PLUS_DI

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API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=PLUS_DI`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (`1min`, `5min`, `15min`, `30min`, and `60min`) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in `YYYY-MM` format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than `2000-01` (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each PLUS_DI value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Optional: datatype

By default, `datatype=json`. `Strings json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

```
\(https://www.alphavantage.co/query?function=PLUS\_DI&symbol=IBM&interval=daily&time\_period=10&apikey=demo\)
```

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This API returns the minus directional movement (MINUS_DM) values. See also:
Investopedia article (<http://www.investopedia.com/articles/technical/02/050602.asp>)

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=MINUS_DM`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each MINUS_DM value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

```
\(https://www.alphavantage.co/query?  
function=MINUS\_DM&symbol=IBM&interval=daily&time\_period=10&apikey=demo\)
```

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PLUS_DM

This API returns the plus directional movement (PLUS_DM) values. See also: Investopedia article (<http://www.investopedia.com/articles/technical/02/050602.asp>)

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=PLUS_DM`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min, 5min, 15min, 30min, 60min, daily, weekly, monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each PLUS_DM value. Positive integers are accepted (e.g., `time_period=60, time_period=200`)

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

https://www.alphavantage.co/query?function=PLUS_DM&symbol=IBM&interval=daily&time_period=10&apikey=demo

(https://www.alphavantage.co/query?function=PLUS_DM&symbol=IBM&interval=daily&time_period=10&apikey=demo)

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BBANDS Trending

This API returns the Bollinger bands (BBANDS) values. See also: Investopedia article (<http://www.investopedia.com/articles/technical/04/030304.asp>) and mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=Bollinger.htm>).

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=BBANDS`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each BBANDS value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Required: series_type

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ Optional: nbdevup

The standard deviation multiplier of the upper band. Positive integers are accepted. By default, `nbdevup=2`.

■ Optional: nbdevdn

The standard deviation multiplier of the lower band. Positive integers are accepted. By default, `nbdevdn=2`.

■ Optional: matype

Moving average type of the time series. By default, `matype=0`. Integers 0 - 8 are accepted with the following mappings. 0 = Simple Moving Average (SMA), 1 = Exponential Moving Average (EMA), 2 = Weighted Moving Average (WMA), 3 = Double Exponential Moving

Average (DEMA), 4 = Triple Exponential Moving Average (TEMA), 5 = Triangular Moving Average (TRIMA), 6 = T3 Moving Average, 7 = Kaufman Adaptive Moving Average (KAMA), 8 = MESA Adaptive Moving Average (MAMA).

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■ Optional: datatype

By default, datatype=json . Strings json and csv are accepted with the following specifications: json returns the daily time series in JSON format; csv returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

Equity:

https://www.alphavantage.co/query?function=BBANDS&symbol=IBM&interval=weekly&time_period=5&series_type=close&nbdevup=3&nbdevdn=3&apikey=

(https://www.alphavantage.co/query?function=BBANDS&symbol=IBM&interval=weekly&time_period=5&series_type=close&nbdevup=3&nbdevdn=3&apikey=)

Forex (FX) or cryptocurrency pair:

https://www.alphavantage.co/query?function=BBANDS&symbol=USDEUR&interval=weekly&time_period=5&series_type=close&nbdevup=3&nbdevdn=3&apikey=

(https://www.alphavantage.co/query?function=BBANDS&symbol=USDEUR&interval=weekly&time_period=5&series_type=close&nbdevup=3&nbdevdn=3&apikey=)

function=BBANDS&symbol=USDEUR&interval=weekly&time_period=5&series_type=close&nbdevup=3&nbdevdn=3&apikey=

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MIDPOINT

This API returns the midpoint (MIDPOINT) values. MIDPOINT = (highest value + lowest value)/2.

API Parameters

■ Required: function

The technical indicator of your choice. In this case, function=MIDPOINT

■ Required: symbol

The name of the ticker of your choice. For example: symbol=IBM

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: 1min , 5min , 15min , 30min , 60min , daily , weekly , monthly

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

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By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: `time_period`

Number of data points used to calculate each MIDPOINT value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Required: `series_type`

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ Optional: `datatype`

By default, `datatype=json`. `Strings json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: `apikey`

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

https://www.alphavantage.co/query?function=MIDPOINT&symbol=IBM&interval=daily&time_period=10&series_type=close&apikey=demo

(https://www.alphavantage.co/query?function=MIDPOINT&symbol=IBM&interval=daily&time_period=10&series_type=close&apikey=demo)

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MIDPRICE

This API returns the midpoint price (MIDPRICE) values. MIDPRICE = (highest high + lowest low)/2.

API Parameters

■ Required: `function`

The technical indicator of your choice. In this case, `function=MIDPRICE`

■ Required: `symbol`

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

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■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each MIDPRICE value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Optional: datatype

By default, `datatype=json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

```
\(https://www.alphavantage.co/query?function=MIDPRICE&symbol=IBM&interval=daily&time\_period=10&apikey=demo\)
```

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SAR

This API returns the parabolic SAR (SAR) values. See also: Investopedia article (<http://www.investopedia.com/articles/technical/02/042202.asp>) and mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=SAR.htm>).

API Parameters**■ Required: function**

The technical indicator of your choice. In this case, `function=SAR`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Optional: acceleration

The acceleration factor. Positive floats are accepted. By default, `acceleration=0.01`.

■ Optional: maximum

The acceleration factor maximum value. Positive floats are accepted. By default, `maximum=0.20`.

■ Optional: datatype

By default, `datatype=json`. `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

```
https://www.alphavantage.co/query?function=SAR&symbol=IBM&interval=weekly&acceleration=0.05&maximum=0.25&apikey=demo  
(https://www.alphavantage.co/query?function=SAR&symbol=IBM&interval=weekly&acceleration=0.05&maximum=0.25&apikey=demo)
```

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TRANGE**Forex (FX)**

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This API returns the true range (TRANGE) values. See also: mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=TR.htm>)

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=TRANGE`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

<https://www.alphavantage.co/query?function=TRANGE&symbol=IBM&interval=daily&apikey=demo> (<https://www.alphavantage.co/query?function=TRANGE&symbol=IBM&interval=daily&apikey=demo>)

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ATR

This API returns the average true range (ATR) values. See also: Investopedia article (<http://www.investopedia.com/articles/trading/08/average-true-range.asp>) and mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=ATR.htm>)

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=ATR`

■ Required: `symbol`

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: `interval`

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: `month`

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: `time_period`

Number of data points used to calculate each ATR value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Optional: `datatype`

By default, `datatype=json`. `Strings json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: `apikey`

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

```
https://www.alphavantage.co/query?
function=ATR&symbol=IBM&interval=daily&time_period=14&apikey=demo
(function=ATR&symbol=IBM&interval=daily&time_period=14&apikey=demo)
```

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NATR

Forex (FX)

Exchange Rates Trending

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This API returns the normalized average true range (NATR) values.

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=NATR`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: time_period

Number of data points used to calculate each NATR value. Positive integers are accepted (e.g., `time_period=60`, `time_period=200`)

■ Optional: datatype

By default, `datatype=json`. `Strings json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

[\(https://www.alphavantage.co/query?function=NATR&symbol=IBM&interval=weekly&time_period=14&apikey=demo\)](https://www.alphavantage.co/query?function=NATR&symbol=IBM&interval=weekly&time_period=14&apikey=demo)

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AD Trending

This API returns the Chaikin A/D line (AD) values. See also: Investopedia article (<http://www.investopedia.com/articles/active-trading/031914/understanding-chaikin-oscillator.asp>) and mathematical reference (<http://www.fmlabs.com/reference/default.htm?>

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API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=AD`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Optional: datatype

By default, `datatype=json`. `Strings json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

<https://www.alphavantage.co/query?function=AD&symbol=IBM&interval=daily&apikey=demo>

(<https://www.alphavantage.co/query?function=AD&symbol=IBM&interval=daily&apikey=demo>)

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ADOSC

This API returns the Chaikin A/D oscillator (ADOSC) values. See also: Investopedia article (<http://www.investopedia.com/articles/active-trading/031914/understanding-chaikin-oscillator.asp>) and mathematical reference (<http://www.fmlabs.com/reference/default.htm?url=AccumDist.htm>).

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=ADOSC`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Optional: fastperiod

The time period of the fast EMA. Positive integers are accepted. By default, `fastperiod=3`.

■ Optional: slowperiod

The time period of the slow EMA. Positive integers are accepted. By default, `slowperiod=10`.

■ Optional: datatype

By default, `datatype=json`. `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

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Example(click for JSON output)

<https://www.alphavantage.co/query?function=ADOSC&symbol=IBM&interval=daily&fastperiod=5&apikey=demo>

(<https://www.alphavantage.co/query?function=ADOSC&symbol=IBM&interval=daily&fastperiod=5&apikey=demo>)

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OBV Trending

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API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=OBV`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (`1min`, `5min`, `15min`, `30min`, and `60min`) for the equity markets. The `daily/weekly/monthly` intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in `YYYY-MM` format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than `2000-01` (January 2000) is supported.

■ Optional: datatype

By default, `datatype=json`. `Strings json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

```
https://www.alphavantage.co/query?function=OBV&symbol=IBM&interval=weekly&apikey=demo (https://www.alphavantage.co/query?function=OBV&symbol=IBM&interval=weekly&apikey=demo)
```

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HT TRENDLINE

This API returns the Hilbert transform, instantaneous trendline (HT_TRENDLINE) values.

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API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=HT_TRENDLINE`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: series_type

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

```
\(https://www.alphavantage.co/query?function=HT TRENDLINE&symbol=IBM&interval=daily&series\_type=close&apikey=demo\)
```

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HT_SINE

This API returns the Hilbert transform, sine wave (HT_SINE) values.

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API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=HT_SINE`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: series_type

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

```
https://www.alphavantage.co/query?function=HT\_SINE&symbol=IBM&interval=daily&series\_type=close&apikey=demo
(https://www.alphavantage.co/query?function=HT\_SINE&symbol=IBM&interval=daily&series\_type=close&apikey=demo)
```

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HT_TRENDMODE

This API returns the Hilbert transform, trend vs cycle mode (HT_TRENDMODE) values.

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API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=HT_TRENDMODE`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: series_type

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

```
\(https://www.alphavantage.co/query?function=HT\_TRENDMODE&symbol=IBM&interval=weekly&series\_type=close&apikey=demo\)
```

Language-specific guides

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HT_DCPERIOD

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API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=HT_DCPERIOD`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: series_type

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ Optional: datatype

By default, `datatype=json`. Strings `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

```
\(https://www.alphavantage.co/query?function=HT\_DCPERIOD&symbol=IBM&interval=daily&series\_type=close&apikey=demo\)
```

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HT_DCPHASE

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API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=HT_DCPHASE`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: series_type

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ Optional: datatype

By default, `datatype=json`. `Strings json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

```
\(https://www.alphavantage.co/query?  
function=HT\_DCPHASE&symbol=IBM&interval=daily&series\_type=close&apikey=demo\)
```

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HT_PHASOR

This API returns the Hilbert transform, phasor components (HT_PHASOR) values.

API Parameters

■ Required: function

The technical indicator of your choice. In this case, `function=HT_PHASOR`

■ Required: symbol

The name of the ticker of your choice. For example: `symbol=IBM`

■ Required: interval

Time interval between two consecutive data points in the time series. The following values are supported: `1min`, `5min`, `15min`, `30min`, `60min`, `daily`, `weekly`, `monthly`

■ Optional: month

Note: this parameter is ONLY applicable to intraday intervals (1min, 5min, 15min, 30min, and 60min) for the equity markets. The daily/weekly/monthly intervals are agnostic to this parameter.

By default, this parameter is not set and the technical indicator values will be calculated based on the most recent 30 days of intraday data. You can use the `month` parameter (in YYYY-MM format) to compute intraday technical indicators for a specific month in history. For example, `month=2009-01`. Any month equal to or later than 2000-01 (January 2000) is supported.

■ Required: series_type

The desired price type in the time series. Four types are supported: `close`, `open`, `high`, `low`

■ Optional: datatype

By default, `datatype=json`. `json` and `csv` are accepted with the following specifications: `json` returns the daily time series in JSON format; `csv` returns the time series as a CSV (comma separated value) file.

■ Required: apikey

Your API key. Claim your free API key here (<https://www.alphavantage.co/support/#apikey>).

Example (click for JSON output)

```
https://www.alphavantage.co/query?
function=HT_PHASOR&symbol=IBM&interval=weekly&series_type=close&apikey=demo
(https://www.alphavantage.co/query?
function=HT_PHASOR&symbol=IBM&interval=weekly&series_type=close&apikey=demo)
```

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Earnings

Listing & Delisting Status

Earnings Calendar

IPO Calendar

Forex (FX)

Exchange Rates Trending

Intraday Premium

Daily