

# API - Alphaville

Thursday, 25 October 2018

15:47

Welcome to Alpha Vantage! Here is your API key: HRAJUJRCQXVJ2D7H. Please record this API key for future access to Alpha Vantage.

<https://github.com/search?l=JavaScript&q=alpha+vantage&type=Repositories>

## TIME\_SERIES\_DAILY High Usage

This API returns daily time series (date, daily open, daily high, daily low, daily close, daily volume) of the global equity specified, covering up to 20 years of historical data.

The most recent data point is the cumulative prices and volume information of the current trading day, updated realtime.

### 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=MSFT**

■ 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 up to 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**

```
▼ {
  ▼ "Meta Data": {
    "1. Information": "Daily Prices (open, high, low, close) and Volumes",
```

```

    "2. Symbol": "MSFT",
    "3. Last Refreshed": "2018-10-25 10:46:45",
    "4. Output Size": "Compact",
    "5. Time Zone": "US/Eastern"
  },
  "Time Series (Daily)": {
    "2018-10-25": {
      "1. open": "106.5500",
      "2. high": "109.2700",
      "3. low": "106.1500",
      "4. close": "108.4600",
      "5. volume": "25188208"
    },
    "2018-10-24": {
      "1. open": "108.4100",
      "2. high": "108.4900",
      "3. low": "101.5901",
      "4. close": "102.3200",
      "5. volume": "63224380"
    }
  }
}

```

## Search Endpoint High Usage

Looking for some specific symbols or companies? Trying to build a search box similar to the one below?

×
Cancel

<b>BA</b>	The Boeing Company
<b>BABA</b>	Alibaba Group Holding Limited
<b>BAC</b>	Bank of America Corporation

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. Strings json and csv are accepted with the following specifications: json

By default, `data_type=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](#).

```
▼ "bestMatches": [  
  ▼ {  
    "1. symbol": "BA",  
    "2. name": "The Boeing Company",  
    "3. type": "Equity",  
    "4. region": "United States",  
    "5. marketOpen": "09:30",  
    "6. marketClose": "16:00",  
    "7. timezone": "UTC-04",  
    "8. currency": "USD",  
    "9. matchScore": "1.0000"  
  },  
  ▼ {  
    "1. symbol": "BABA",  
    "2. name": "Alibaba Group Holding Limited",  
    "3. type": "Equity",  
    "4. region": "United States",  
    "5. marketOpen": "09:30",  
    "6. marketClose": "16:00",  
    "7. timezone": "UTC-04",  
    "8. currency": "USD",  
    "9. matchScore": "0.8000"  
  },  
]
```

## CURRENCY\_EXCHANGE\_RATE High Usage

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: `apikey`

■ 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** or **digital/crypto currency**. 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** or **digital/crypto currency**. For example: **to\_currency=USD** or **to\_currency=BTC**.

■ Required: **apikey**

Your API key. Claim your free API key [here](#).

```
{
  ▼ "Realtime Currency Exchange Rate": {
    "1. From_Currency Code": "USD",
    "2. From_Currency Name": "United States Dollar",
    "3. To_Currency Code": "JPY",
    "4. To_Currency Name": "Japanese Yen",
    "5. Exchange Rate": "112.56500000",
    "6. Last Refreshed": "2018-10-25 14:58:59",
    "7. Time Zone": "UTC"
  }
}
```

## DIGITAL\_CURRENCY\_DAILY **High Usage**

This API returns the daily historical time series for a digital currency (e.g., BTC) traded on a specific market (e.g., CNY/Chinese Yuan), 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](#). For example: **symbol=BTC**.

■ Required: **apikey**

■ Required: **market**

The exchange market of your choice. It can be any of the market in the [market list](#). For example:

**market=CNY**.

■ Required: **apikey**

Your API key. Claim your free API key [here](#).

```
{
  ▼ "Meta Data": {
    "1. Information": "Daily Prices and Volumes for Digital Currency",
    "2. Digital Currency Code": "BTC",
    "3. Digital Currency Name": "Bitcoin",
    "4. Market Code": "CNY",
    "5. Market Name": "Chinese Yuan",
    "6. Last Refreshed": "2018-10-24 (end of day)",
    "7. Time Zone": "UTC"
  },
  ▼ "Time Series (Digital Currency Daily)": {
    ▼ "2018-10-24": {
      "1a. open (CNY)": "44754.37511913",
      "1b. open (USD)": "6450.23408373",
      "2a. high (CNY)": "46386.99556280",
      "2b. high (USD)": "6684.10143702",
      "3a. low (CNY)": "44466.86338862",
      "3b. low (USD)": "6408.34290333",
      "4a. close (CNY)": "45138.84408922",
      "4b. close (USD)": "6500.40957506",
      "5. volume": "2531.92572889",
      "6. market cap (USD)": "16458554.25141862"
    },
    ▼ "2018-10-23": {
      "1a. open (CNY)": "44999.22574895",
      "1b. open (USD)": "6477.03861086",
      "2a. high (CNY)": "45090.36484974",
      "2b. high (USD)": "6499.69942914",
      "3a. low (CNY)": "44548.83179649",
      "3b. low (USD)": "6421.82349923",
      "4a. close (CNY)": "44731.04802298",
      "4b. close (USD)": "6446.87206091",
      "5. volume": "3800.63991824",
      "6. market cap (USD)": "24502239.30246439"
    }
  }
}
```

## SECTOR High Usage

This API returns the realtime and historical sector performances calculated from S&P500 incumbents.

### API Parameters

■ Required: **function**

The indicator of your choice. In this case, **function=SECTOR**

■ Required: **apikey**

Your API key. Claim your free API key [here](#).

```
{
  "Meta Data": {
    "Information": "US Sector Performance (realtime & historical)",
    "Last Refreshed": "10:54 AM ET 10/25/2018"
  },
  "Rank A: Real-Time Performance": {
    "Information Technology": "2.70%",
    "Consumer Discretionary": "2.59%",
    "Communication Services": "2.43%",
    "Financials": "1.47%",
    "Materials": "1.09%",
    "Health Care": "1.06%",
    "Industrials": "1.04%",
    "Energy": "0.91%",
    "Real Estate": "0.39%",
    "Consumer Staples": "-0.27%",
    "Utilities": "-1.33%"
  },
  "Rank B: 1 Day Performance": {
    "Utilities": "2.30%",
    "Real Estate": "1.13%",
    "Consumer Staples": "0.49%",
    "Financials": "-2.69%",
    "Materials": "-3.15%",
    "Health Care": "-3.29%",
    "Consumer Discretionary": "-3.31%",
    "Industrials": "-3.43%",
    "Energy": "-3.79%",
    "Information Technology": "-4.43%",
    "Communication Services": "-4.88%"
  }
}
```

TIME FRAMES UP TO 10 YEARS

