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# **finvizfinance**

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It is a Finviz Finance information downloader.



# CHAPTER 1

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## Installation (python >= v3.5)

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```
> virtualenv -p python3 virtualenvironment  
> source virtualenvironment/bin/activate  
> pip install finvizfinance
```





## CHAPTER 2

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### Quote Examples

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```
import pandas as pd
from finvizfinance.quote import finvizfinance

stock = finvizfinance('tsla')
```

Example downloading chart:

```
stock.TickerCharts(out_dir='asset')
```

Example getting individual ticker information

```
stock_fundament = stock.TickerFundament()
stock_description = stock.TickerDescription()
outer_ratings_df = stock.TickerOuterRatings()
news_df = stock.TickerNews()
inside_trader_df = stock.TickerInsideTrader()
```



## CHAPTER 3

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### Screener Example

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```
from finvizfinance.screener.overview import Overview
foverview = Overview()
filters_dict = {'Exchange': 'AMEX', 'Sector': 'Basic Materials'}
foverview.set_filter(filters_dict=filters_dict)
df = foverview.ScreenerView()
df.head()
```



## CHAPTER 4

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### News Example

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```
from finvizfinance.news import News
fnews = News()
all_news = fnews.getNews()
# all_news['news'].head()
# all_news['blogs'].head()
```



## CHAPTER 5

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### Insider Example

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```
from finvizfinance.insider import Insider
finsider = Insider(option='top owner trade')
finsider.getInsider().head()
```





### 6.1 Quote

Getting individual ticker information.

**class** `finvizfinance.quote.finvizfinance` (*ticker*, *verbose=0*)

Getting information from the individual ticker.

#### Parameters

- **ticker** (*str*) – ticker string
- **verbose** (*int*) – choice of visual the progress. 1 for visualize progress.

**TickerCharts** (*timeframe='daily'*, *charttype='advanced'*, *out\_dir=""*, *urlonly=False*)

Download ticker charts.

#### Parameters

- **timeframe** (*str*) – choice of timeframe (daily, weekly, monthly).
- **charttype** (*str*) – choice of type of chart (candle, line, advanced).
- **out\_dir** (*str*) – output image directory. default none.
- **urlonly** (*bool*) – choice of downloading charts, default: downloading chart

**Returns** url for the chart

**Return type** `charturl(str)`

**TickerDescription** ()

Get ticker description.

**Returns** ticker description.

**Return type** `description(str)`

**TickerFullInfo** ()

Get all the ticker information.

**Returns** insider information table

**Return type** df(pandas.DataFrame)

**TickerFundament** ()

Get ticker fundament.

**Returns** ticker fundament.

**Return type** fundament(dict)

**TickerInsideTrader** ()

Get insider information table.

**Returns** insider information table

**Return type** df(pandas.DataFrame)

**TickerNews** ()

Get news information table.

**Returns** news information table

**Return type** df(pandas.DataFrame)

**TickerOuterRatings** ()

Get outer ratings table.

**Returns** outer ratings table

**Return type** df(pandas.DataFrame)

**TickerSignal** ()

Get all the trading signals from finviz.

**Returns** get all the ticker signals as list.

**Return type** ticker\_signals(list)

## 6.2 Screener

Getting screener information.

### 6.2.1 Overview

**class** finvizfinance.screener.overview.Overview

Getting information from the finviz screener overview page.

**ScreenerView** (*order='ticker', limit=-1, verbose=1*)

Get screener table.

**Parameters**

- **order** (*str*) – sort the table by the choice of order
- **limit** (*int*) – set the top k rows of the screener
- **verbose** (*int*) – choice of visual the progress. 1 for visualize progress

**Returns** screener information table

**Return type** df(pandas.DataFrame)

**compare** (*ticker*, *compare\_list*, *order*='ticker', *verbose*=1)

Get screener table of similar property (Sector, Industry, Country)

**Parameters**

- **ticker** (*str*) – the ticker to compare
- **compare\_list** (*list*) – choice of compare property (Sector, Industry, Country) or combination.
- **order** (*str*) – sort the table by the choice of order
- **verbose** (*int*) – choice of visual the progress. 1 for visualize progress

**Returns** screener information table

**Return type** df(pandas.DataFrame)

**getFilterOptions** (*screen\_filter*)

Get filters options.

**Parameters** **screen\_filter** (*str*) – screen filter for checking options

**Returns** all the available filters

**Return type** filter\_options(list)

**getFilters** ()

Get filters.

**Returns** all the available filters

**Return type** filters(list)

**getOrders** ()

Get orders.

**Returns** all the available orders

**Return type** orders(list)

**getSignal** ()

Get signals.

**Returns** all the available trading signals

**Return type** signals(list)

**set\_filter** (*signal*=",", *filters\_dict*={}, *ticker*="")

Update the settings.

**Parameters**

- **signal** (*str*) – ticker signal
- **filters\_dict** (*dict*) – dictionary of filters
- **ticker** (*str*) – ticker string

## 6.2.2 Valuation

**class** finvizfinance.screener.valuation.Valuation

Valuation inherit from overview module. Getting information from the finviz screener valuation page.

### 6.2.3 Financial

**class** finvizfinance.screener.financial.**Financial**  
Financial inherit from overview module. Getting information from the finviz screener financial page.

### 6.2.4 Ownership

**class** finvizfinance.screener.ownership.**Ownership**  
Ownership inherit from overview module. Getting information from the finviz screener ownership page.

### 6.2.5 Technical

**class** finvizfinance.screener.technical.**Technical**  
Technical inherit from overview module. Getting information from the finviz screener technical page.

### 6.2.6 Tickers

**class** finvizfinance.screener.ticker.**Ticker**  
Financial inherit from overview module. Getting information from the finviz screener ticker page.

**ScreenerView** (*limit=-1, verbose=1*)  
Get screener table.

**Parameters** **verbose** (*int*) – choice of visual the progress. 1 for visualize progress.

**Returns** get all the tickers as list.

**Return type** tickers(list)

## 6.3 Group

Getting group information.

### 6.3.1 Overview

**class** finvizfinance.group.overview.**Overview**  
Getting information from the finviz group overview page.

**ScreenerView** (*group='Sector', order='Name'*)  
Get screener table.

**Parameters**

- **group** (*str*) – choice of group option.
- **order** (*str*) – sort the table by the choice of order.

**Returns** group information table.

**Return type** df(pandas.DataFrame)

**getGroup** ()  
Get groups.

**Returns** all the available groups.

**Return type** groups(list)

**getOrders** ()  
Get orders.

**Returns** all the available orders.

**Return type** orders(list)

### 6.3.2 Valuation

**class** finvizfinance.group.valuation.Valuation  
Valuation inherit from overview module. Getting information from the finviz group valuation page.

### 6.3.3 Performance

**class** finvizfinance.group.performance.Performance  
Performance inherit from overview module. Getting information from the finviz group performance page.

### 6.3.4 Spectrum

**class** finvizfinance.group.spectrum.Spectrum  
Spectrum inherit from overview module. Getting information from the finviz group spectrum page.

**ScreenerView** (group='Sector', order='Name', out\_dir="")  
Get screener table.

#### Parameters

- **group** (*str*) – choice of group option.
- **order** (*str*) – sort the table by the choice of order.

## 6.4 News

Getting trading news.

**class** finvizfinance.news.News  
Getting information from the finviz news page.

**getNews** ()  
Get insider information table.

Retrieves table information from finviz finance news.

**Returns** news table

**Return type** news(dict)

## 6.5 Insider

Getting trading insider.

**class** finvizfinance.insider.Insider (option='latest')  
Getting information from the finviz insider page.

**Parameters** **option** (*str*) – choose a option (latest, top week, top owner trade, insider\_id)

**getInsider** ()

Get insider information table.

**Returns** insider information table

**Return type** df(pandas.DataFrame)

## 6.6 Forex

Getting foreign exchange information.

**class** finvizfinance.forex.**Forex**

Getting information from the finviz forex page.

**chart** (*forex*, *timeframe*='D', *urlonly*=False)

Get forex chart.

**Parameters**

- **forex** (*str*) – foreign exchange name
- **timeframe** (*str*) – choice of timeframe(5M, H, D, W, M)
- **urlonly** (*bool*) – choice of downloading charts, default: downloading chart

**Returns** url for the chart

**Return type** charturl(str)

**performance** (*change*='percent')

Get forex performance table.

**Parameters** **change** (*str*) – choose an option of change(percent, PIPS)

**Returns** forex performance table

**Return type** df(pandas.DataFrame)

## 6.7 Crypto

Getting crypto currency information.

**class** finvizfinance.crypto.**Crypto**

Getting information from the finviz crypto page.

**chart** (*crypto*, *timeframe*='D', *urlonly*=False)

Get crypto chart.

**Parameters**

- **crypto** (*str*) – crypto currency
- **timeframe** (*str*) – choice of timeframe(5M, H, D, W, M)
- **urlonly** (*bool*) – choice of downloading charts, default: downloading chart

**Returns** url for the chart

**Return type** charturl(str)

```
performance ()
    Get crypto performance table.

    Returns crypto performance table

    Return type df(pandas.DataFrame)
```

## 6.8 Future

Getting future information.

```
class finvizfinance.future.Future
    Getting information from the finviz future page.

    performance (timeframe='D')
        Get forex performance table.

        Parameters timeframe (str) – choice of timeframe(D, W, M, Q, HY, Y)

        Returns forex performance table

        Return type df(pandas.DataFrame)
```

## 6.9 Earnings

Getting earning dates information.

```
class finvizfinance.earnings.Earnings (period='This Week')
    Partition dataframe of ticker information of period of earning dates(This Week, Next Week, Previous Week,
    This Month) into dates

    Parameters period (str) – choose an option of period(This Week, Next Week, Previous Week, This
    Month).

    outputCSV (output_dir='earning_days')
        Output dataframes to csv files.

        Parameters output_dir (str) – name of the output directory.

    outputExcel (output_file='earning_days.xlsx')
        Output dataframes to single Excel file.

        Parameters output_file (str) – name of the output excel file.

    partitionDays (mode='financial')
        Partition dataframe to separate dataframes according to the dates.

        Parameters mode (str) – choose an option of period(financial, overview, valuation, ownership,
        performance, technical).
```





## CHAPTER 7

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