finvizfinance

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It is a Finviz Finance information downloader.

CHAPTER 1

Installation (python >= v3.5)

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

CHAPTER 2

Quote Examples

```
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.ticker_fundament()
stock_description = stock.ticker_description()
outer_ratings_df = stock.ticker_outer_ratings()
news_df = stock.ticker_news()
inside_trader_df = stock.ticker_inside_trader()
```

CHAPTER 3

Screener Example

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

CHAPTER 4

News Example

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

CHAPTER 5

Insider Example

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

CHAPTER 6

Contents

6.1 Quote

Getting individual ticker information.

class finvizfinance.quote.**Quote**

quote Getting current price of the ticker

get_current (*ticker*)

Getting current price of the ticker.

Returns price of the ticker

Return type price(float)

class finvizfinance.quote.**Statements**

Getting statements of ticker

get_statements (*ticker*, *statement='I'*, *timeframe='A'*)

Getting statements of ticker.

Parameters

- **ticker** (*str*) – ticker string
- **statement** (*str*) – I(Income Statement), B(Balace Sheet), C(Cash Flow)
- **timeframe** (*str*) – A(Annual), Q(Quarter)

Returns statements table

Return type df(pandas.DataFrame)

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.

ticker_charts (*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)

ticker_description ()

Get ticker description.

Returns ticker description.

Return type description(str)

ticker_full_info ()

Get all the ticker information.

Returns insider information table

Return type df(pandas.DataFrame)

ticker_fundament (*raw=True*, *output_format='dict'*)

Get ticker fundament.

Parameters

- **raw** (*boolean*) – if True, the data is raw.
- **output_format** (*str*) – choice of output format (dict, series).

Returns ticker fundament.

Return type fundament(dict)

ticker_inside_trader ()

Get insider information table.

Returns insider information table

Return type df(pandas.DataFrame)

ticker_news ()

Get news information table.

Returns news information table

Return type df(pandas.DataFrame)

ticker_outer_ratings ()

Get outer ratings table.

Returns outer ratings table

Return type df(pandas.DataFrame)

ticker_signal ()

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.

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)

get_filter_options (*screen_filter*)

Get filters options.

Parameters **screen_filter** (*str*) – screen filter for checking options

Returns all the available filters

Return type filter_options(list)

get_filters ()

Get filters.

Returns all the available filters

Return type filters(list)

get_orders ()

Get orders.

Returns all the available orders

Return type orders(list)

get_signal ()

Get signals.

Returns all the available trading signals

Return type signals(list)

screener_view(*order='ticker'*, *limit=-1*, *select_page=None*, *verbose=1*, *ascend=True*, *sleep_sec=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.
- **select_page** (*int*) – set the page of the screener.
- **verbose** (*int*) – choice of visual the progress. 1 for visualize progress.
- **ascend** (*bool*) – if True, the order is ascending.
- **sleep_sec** (*int*) – sleep seconds for fetching each page.

Returns screener information table

Return type df(pandas.DataFrame)

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 Custom

class finvizfinance.screener.custom.**Custom**

Custom inherit from overview module. Getting information from the finviz screener custom page.

get_columns()

Get information about the columns

Returns return the index and column name.

Return type columns(dict)

screener_view(*order='ticker', limit=-1, select_page=None, verbose=1, ascend=True, columns=[0, 1, 2, 3, 4, 5, 6, 7, 65, 66, 67], sleep_sec=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.
- **select_page** (*int*) – set the page of the screener.
- **verbose** (*int*) – choice of visual the progress. 1 for visualize progress.
- **ascend** (*bool*) – if True, the order is ascending.
- **columns** (*list*) – columns of your choice. Default index: 0,1,2,3,4,5,6,7,65,66,67.
- **sleep_sec** (*int*) – sleep seconds for fetching each page.

Returns screener information table

Return type df(pandas.DataFrame)

6.2.7 Tickers

class finvizfinance.screener.ticker.**Ticker**

Financial inherit from overview module. Getting information from the finviz screener ticker page.

screener_view(*order='ticker', limit=-1, verbose=1, ascend=True, sleep_sec=1*)

Get screener stocks.

Parameters

- **order** (*str*) – sort the list by the choice of order.
- **limit** (*int*) – set the top k stocks of the screener.
- **verbose** (*int*) – choice of visual the progress. 1 for visualize progress.
- **ascend** (*bool*) – if True, the order is ascending.
- **sleep_sec** (*int*) – sleep seconds for fetching each page.

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.

get_group()

Get groups.

Returns all the available groups.

Return type groups(list)

get_orders()

Get orders.

Returns all the available orders.

Return type orders(list)

screener_view(*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)

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.

screener_view(*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.

get_news()

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, latest buys, latest sales, top week, top week buys, top week sales, top owner trade, top owner buys, top owner sales, insider_id)

get_insider()

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).

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

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

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

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

partition_days(*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).

6.10 Calendar

Getting economic calendar information.

class finvizfinance.calendar.**Calendar**
Getting information from the finviz calendar page.

calendar()
Get economic calendar table.

Returns economic calendar table

Return type df(pandas.DataFrame)

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