jhTAlib

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Contents

jhTAlib

Technical Analysis Library Time-Series

You can use and import it for your:

- Technical Analysis Software
- Charting Software
- Backtest Software
- Trading Robot Software
- Trading Software in general

Work in progress...

Depends only on

- The Python Standard Library

Install

From PyPI:

```
$ [sudo] pip3 install jhtalib
```

From source - source mirror 1 - source mirror 2:

```
$ git clone https://github.com/joosthoeks/jhTAlib.git
$ cd jhTAlib
$ [sudo] pip3 install -e .
```

Update

From PyPI:

```
$ [sudo] pip3 install --upgrade jhtalib
```

From source - source mirror 1 - source mirror 2:

```
$ cd jhTAlib
$ git pull [upstream master]
```

In Docker

From DockerHub:

```
$ docker pull joosthoeks/jhtalib
$ docker run -it joosthoeks/jhtalib /bin/bash
/usr/src/app# python3
>>> import jhtalib as jhta
```

From source - source mirror 1 - source mirror 2:

```
$ git clone https://github.com/joosthoeks/jhTAlib.git
$ cd jhTAlib
$ docker build -f Dockerfile -t jhtalib .
$ docker run -it jhtalib /bin/bash
```

```
/usr/src/app# python3
>>> import jhtalib as jhta
```

In Colab

From PyPI:

```
!pip install --upgrade jhtalib
import jhtalib as jhta
```

From source - source mirror 1 - source mirror 2:

```
!git clone [-b branch-name] https://github.com/joosthoeks/jhTAlib.git
%cd '/content/jhTAlib'
import jhtalib as jhta
%cd '/content'
!rm -rf ./jhTAlib/
```

Basic Usage

```
"""""""
# Import Built-Ins:
from pprint import pprint as pp

# Import Third-Party:

# Import Homebrew:
import jhtalib as jhta


# df is DataFeed:
df = {
    'datetime': ('20151217', '20151218', '20151221', '20151222', '20151223', '20151224', '20
    'Open': (235.8, 232.3, 234.1, 232.2, 232.7, 235.4, 236.9, 234.85, 236.45, 235.0),
    'High': (238.05, 236.9, 237.3, 232.4, 235.2, 236.15, 236.9, 237.6, 238.3, 237.25),
    'Low': (234.55, 230.6, 230.2, 226.8, 231.5, 233.85, 233.05, 234.6, 234.55, 234.4),
    'Close': (234.6, 233.6, 230.2, 230.05, 234.15, 236.15, 233.25, 237.6, 235.75, 234.4),
    'Volume': (448294, 629039, 292528, 214170, 215545, 23548, 97574, 192908, 176839, 69347)
     }

# basic usage:
#pp (df)
```

```
pp (jhta.SMA(df, 10))
#pp (jhta.BBANDS(df, 10))
```

Reference

```
$ python3
>>> import jhtalib as jhta
>>> dir(jhta)
>>> help(jhta)
>>> help(jhta.behavioral_techniques)
>>> help(jhta.candlestick)
>>> help(jhta.cycle_indicators)
>>> help(jhta.data)
>>> help(jhta.event_driven)
>>> help(jhta.experimental)
>>> help(jhta.general)
>>> help(jhta.information)
>>> help(jhta.math_functions)
>>> help(jhta.momentum_indicators)
>>> help(jhta.overlap_studies)
>>> help(jhta.pattern_recognition)
>>> help(jhta.price_transform)
>>> help(jhta.statistic_functions)
>>> help(jhta.uncategorised)
>>> help(jhta.volatility_indicators)
>>> help(jhta.volume_indicators)
>>> quit()
```

Check Installation

```
$ python3
>>> import jhtalib as jhta
>>> jhta.example()
```

If not errors then installation is correct.

```
>>> quit()
```

Examples

- https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/master/example/example-1-plot.ipynb
- https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/master/example/example-2-plot.ipynb
- https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/master/example/example-3-plot.ipynb
- https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/master/example/example-4-plot-quandl.ipynb
- https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/master/example/example-5-plot-quandl.ipynb
- https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/master/example/example-6-plot-quandl.ipynb
- https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/master/example/example-7-quandl-2-df.ipynb
- https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/master/example/example-8-alphavantage-2-df.ipynb
- https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/master/example/example-9-cryptocompare-2-df.ipynb
- https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/master/example/example-10-df-numpy-pandas.ipynb
- https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/master/example/example-11-basic-usage.ipynb

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Notebooks

- https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/master/notebook/a_sane_and_simple_bitcoin_savings_plan_(sss).ipynb
- https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/master/notebook/dollar_cost_averaging_discount_dcad.ipynb
- https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/master/notebook/recession_probability.ipynb

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Donation and Funding

- https://github.com/joosthoeks/jhTAlib/stargazers
