jhTAlib

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jhTAlib

J
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
The Python Standard Library Docs
• .html
• .epub
• .json
• .odt
• .pdf
• .rst
• .rtf
• .xml
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 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/
Check Installation
$ python3
>>> import jhtalib as jhta
>>> jhta.example()
If not errors then installation is correct.
>>> quit()
```

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))
```

Examples

\$ cd example/

Example 1

\$ python3 example-1-plot.py

or

https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/master/example/example-1-plot.ipynb

Example 2
\$ python3 example-2-plot.py
or
https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/masterexample/example-2-plot.ipynb
Example 3
\$ python3 example-3-plot.py
or
https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/masterexample/example-3-plot.ipynb
Example 4
\$ python3 example-4-plot-quandl.py
or
https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/master example/example-4-plot-quandl.ipynb
Example 5
\$ python3 example-5-plot-quandl.py
or
https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/masterexample/example-5-plot-quandl.ipynb

Example 6

\$ python3 example-6-plot-quandl.py

or
https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/masterexample/example-6-plot-quandl.ipynb
Example 7
<pre>\$ python3 example-7-quand1-2-df.py</pre>
or
https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/masterexample/example-7-quandl-2-df.ipynb
Example 8
<pre>\$ python3 example-8-alphavantage-2-df.py</pre>
or
https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/masterexample/example-8-alphavantage-2-df.ipynb
Example 9

\$ python3 example-9-cryptocompare-2-df.py

or

https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/master/example/example-9-cryptocompare-2-df.ipynb

Example 10

DF NumPy Pandas

https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/master/example/example-10-df-numpy-pandas.ipynb

Example 11

Basic Usage

https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/master/example/example-11-basic-usage.ipynb

Test

```
$ cd test/
$ python3 test.py
```

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()
```

Notebooks

 $\bullet \ \ https://github.com/joosthoeks/jhTAlib/tree/master/notebook$

A Sane and Simple bitcoin Savings plan SSS

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

Dollar Cost Averaging Discount DCAD

Recession Probability

 $\bullet \ https://colab.research.google.com/github/joosthoeks/jhTAlib/blob/master/notebook/recession_probability.ipynb \\$

Donation and Funding

- BTC: 3KCoXMyUDgVABoFSuV8GQT3k8qkUhEDG9X