

Python 3.6.0 |Anaconda custom (64-bit)| (default, Dec 23 2016, 11:57:41) [MSC v.1900 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

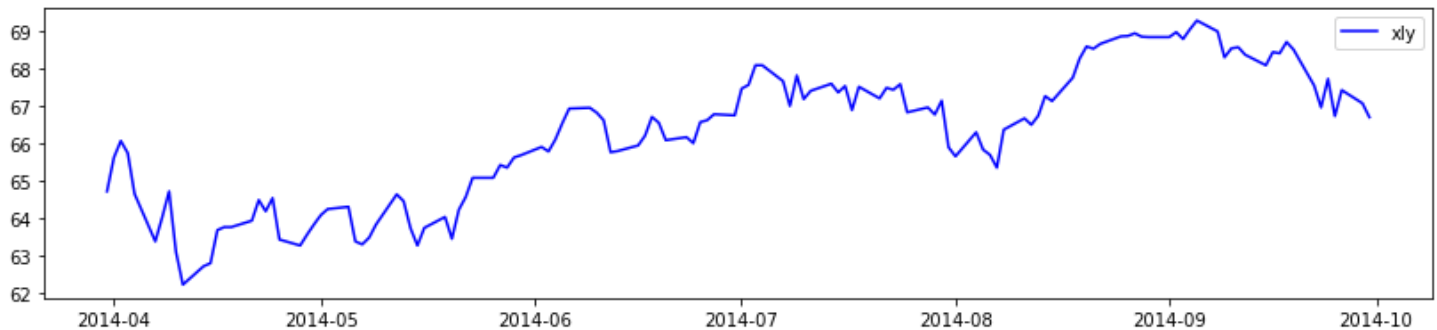
IPython 5.1.0 -- An enhanced Interactive Python.
? -> Introduction and overview of IPython's features.
%quickref -> Quick reference.
help -> Python's own help system.
object? -> Details about 'object', use 'object??' for extra details.

```
In [1]: runfile('C:/Users/kruegkj/Documents/GitHub/QuantTradingSys/Code/utilities/stationarity_tests.py',  
wdir='C:/Users/kruegkj/Documents/GitHub/QuantTradingSys/Code/utilities')  
2014-03-30
```

Successfully retrieved Primary

Retrieved rows: 5063

Returning rows: 1045



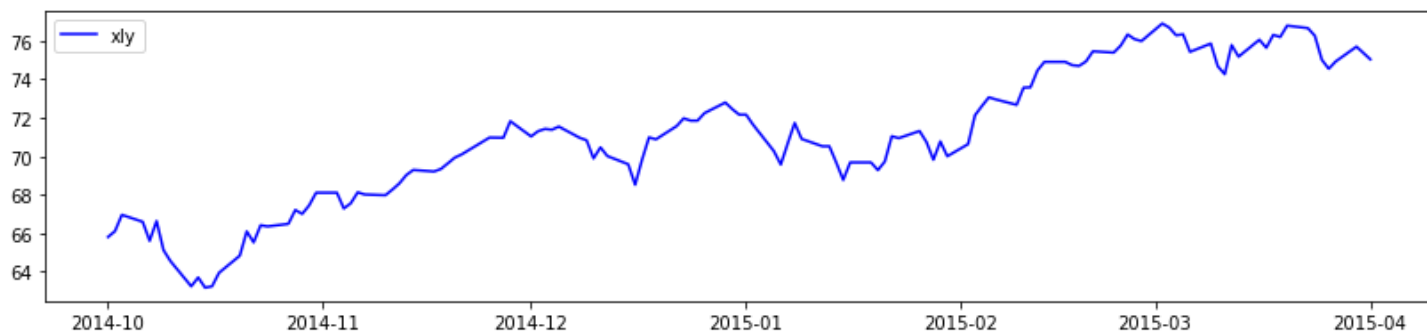
===== ADF Test for Stationarity =====

Issue: xly
Start Date: 2014-03-31
End Date: 2014-09-30

ADF Statistic: -1.679256
p-value: 0.441831
** The series is likely non-stationary **
Critical Values:
1%: -3.481
5%: -2.884
10%: -2.579

===== Hurst Exponent Test =====

Hurst(GBM): 0.499
Hurst(MR): 0.001
Hurst(TR): 0.915
Hurst(xly): 0.361



===== ADF Test for Stationarity =====

Issue: xly

Start Date: 2014-10-01

End Date: 2015-04-01

ADF Statistic: -1.266085

p-value: 0.644542

** The series is likely non-stationary **

Critical Values:

1%: -3.482

5%: -2.884

10%: -2.579

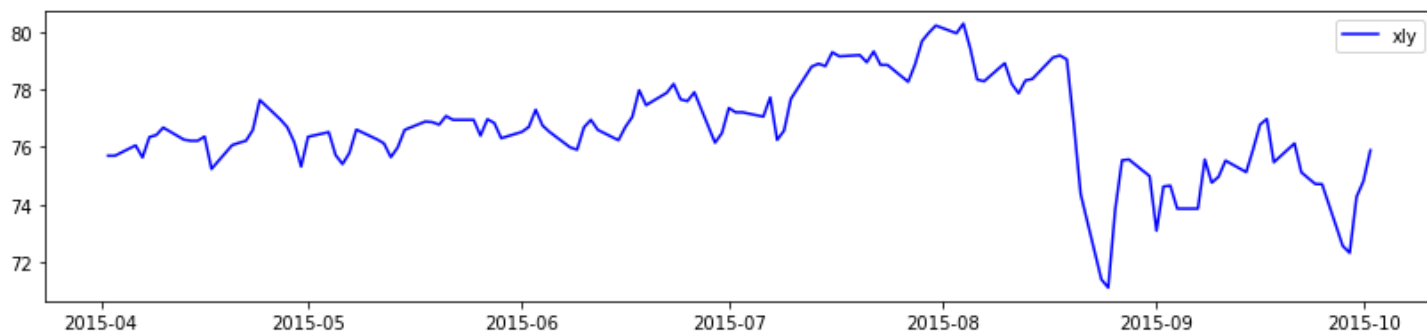
===== Hurst Exponent Test =====

Hurst(GBM): 0.504

Hurst(MR): -0.001

Hurst(TR): 0.912

Hurst(xly): 0.385



===== ADF Test for Stationarity =====

Issue: xly

Start Date: 2015-04-02

End Date: 2015-10-02

ADF Statistic: -3.353186

p-value: 0.012662

** The series is likely stationary **

Critical Values:

1%: -3.482

5%: -2.884

10%: -2.579

===== Hurst Exponent Test =====

Hurst(GBM): 0.500

Hurst(MR): -0.000

Hurst(TR): 0.914

Hurst(xly): 0.274



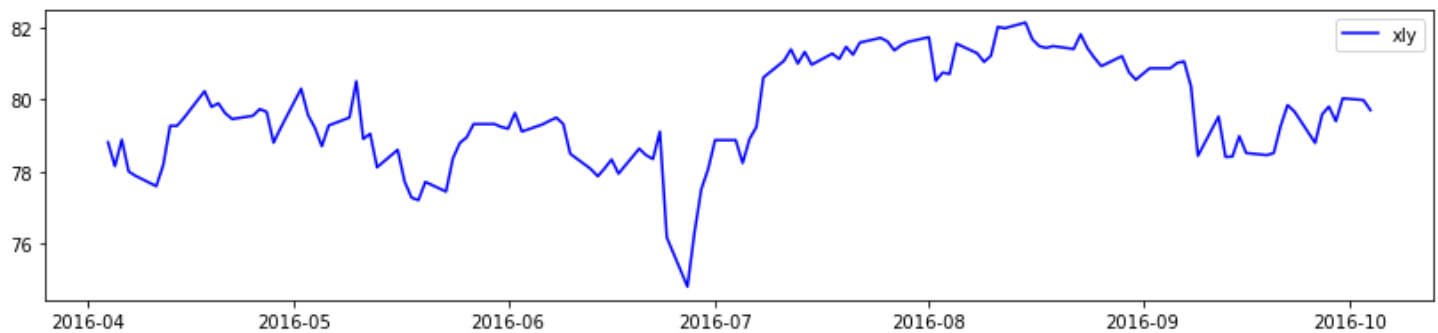
===== ADF Test for Stationarity =====

Issue: xly
 Start Date: 2015-10-05
 End Date: 2016-04-01

ADF Statistic: -1.281053
 p-value: 0.637795
 ** The series is likely non-stationary **
 Critical Values:
 1%: -3.482
 5%: -2.884
 10%: -2.579

===== Hurst Exponent Test =====

Hurst(GBM): 0.497
 Hurst(MR): 0.000
 Hurst(TR): 0.915
 Hurst(xly): 0.522



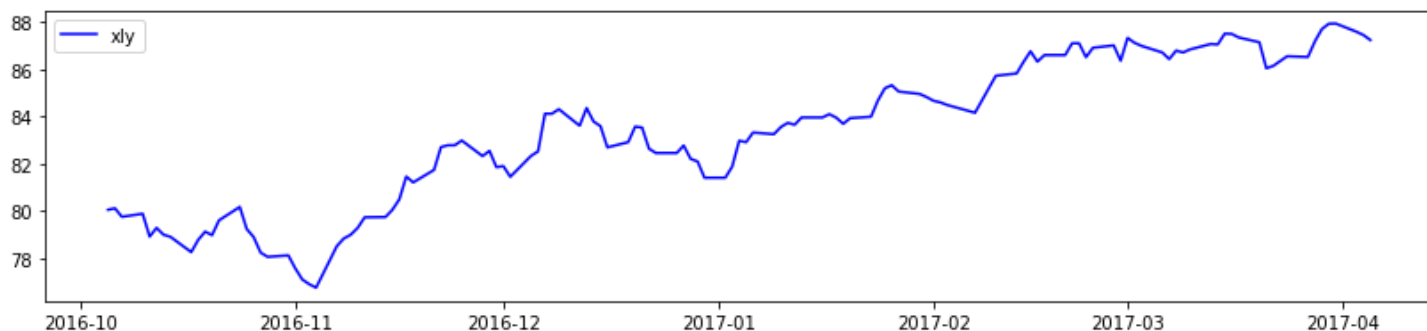
===== ADF Test for Stationarity =====

Issue: xly
 Start Date: 2016-04-04
 End Date: 2016-10-04

ADF Statistic: -2.620081
 p-value: 0.088918
 ** The series is likely non-stationary **
 Critical Values:
 1%: -3.481
 5%: -2.884
 10%: -2.579

===== Hurst Exponent Test =====

Hurst(GBM): 0.503
 Hurst(MR): -0.000
 Hurst(TR): 0.908
 Hurst(xly): 0.369



===== ADF Test for Stationarity =====

Issue: xly

Start Date: 2016-10-05

End Date: 2017-04-05

ADF Statistic: -0.759295

p-value: 0.830788

** The series is likely non-stationary **

Critical Values:

1%: -3.482

5%: -2.884

10%: -2.579

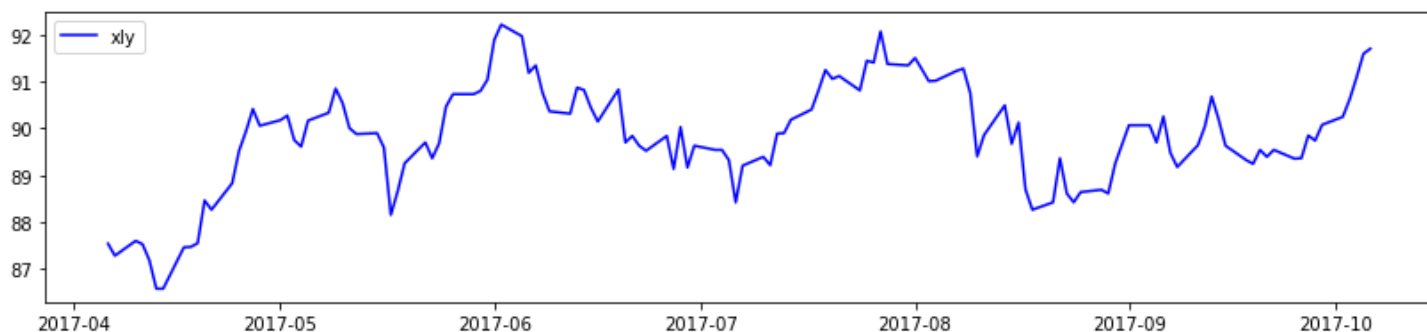
===== Hurst Exponent Test =====

Hurst(GBM): 0.504

Hurst(MR): -0.000

Hurst(TR): 0.912

Hurst(xly): 0.408



===== ADF Test for Stationarity =====

Issue: xly

Start Date: 2017-04-06

End Date: 2017-10-06

ADF Statistic: -2.655675

p-value: 0.082027

** The series is likely non-stationary **

Critical Values:

1%: -3.481

5%: -2.884

10%: -2.579

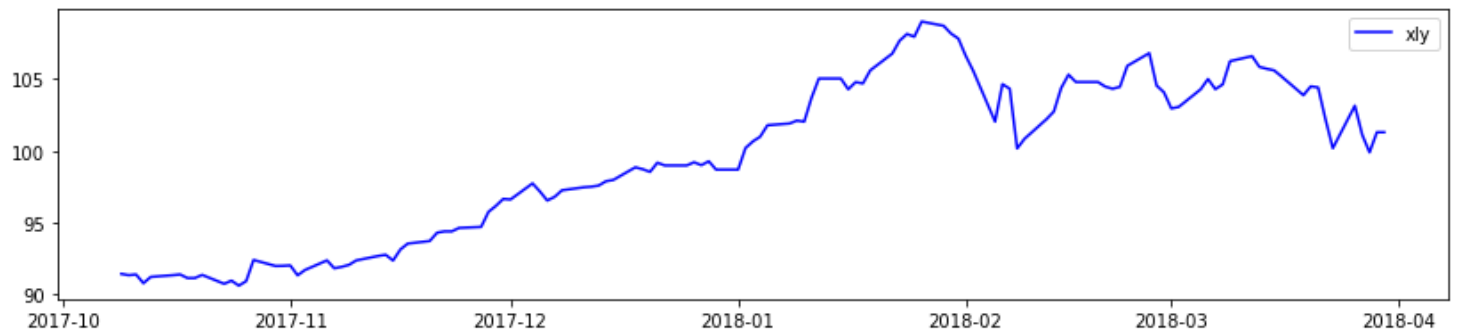
===== Hurst Exponent Test =====

Hurst(GBM): 0.504

Hurst(MR): -0.000

Hurst(TR): 0.908

Hurst(xly): 0.436



===== ADF Test for Stationarity =====

Issue: xly

Start Date: 2017-10-09

End Date: 2018-03-30

ADF Statistic: -1.485474

p-value: 0.540685

** The series is likely non-stationary **

Critical Values:

1%: -3.484

5%: -2.885

10%: -2.579

===== Hurst Exponent Test =====

Hurst(GBM): 0.498

Hurst(MR): -0.000

Hurst(TR): 0.910

Hurst(xly): 0.430

In [2]: