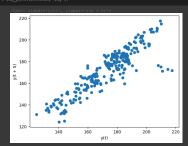


The default lag is 1, but we can alter this with the lag parameter. Let's look at a 5 day lag (a week of trading activity):

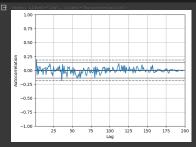
1 lac plot (fb close lace5)



. . Autocompletion whete

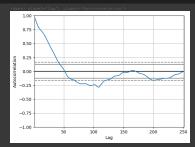
We can use the autocorrelation plot to see if this relationship may be meaningful or just noise. Random data will not have any significant autocorrelation (it stays within the bounds below

- 1 from pandas.plotting import autocorrelation plot
- 3 np.random.seed(0) # make this repeatable
- 4 autocorrelation_plot(pd.Series(np.random.random(size=200))



Stock data, on the other hand, does have significant autocorrelation

1 autocorrelation_plot(fb.close



Bootstrap plot

This plot helps us understand the uncertainty in our summary statistics:

- 1 from pandas.plotting import bootstrap_plot
- 2 3 fig - bootstrap_plot(fb.volume, fig-plt.figure(figsize-{i0, 6|})

