

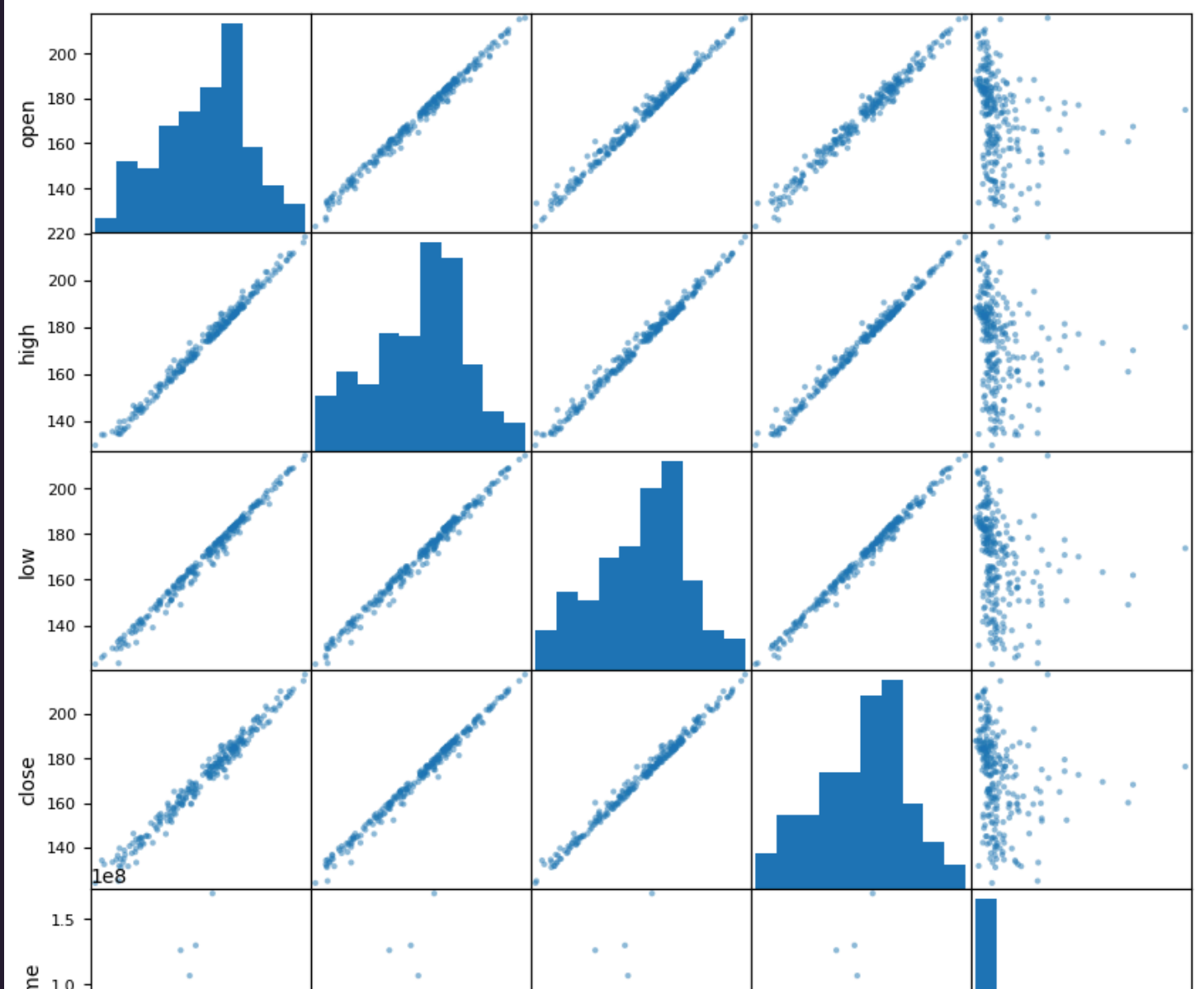
```
1 %matplotlib inline
2 import matplotlib.pyplot as plt
3 import numpy as np
4 import pandas as pd
5 fb = pd.read_csv(
6     '/content/fb_stock_prices_2018.csv', index_col='date', parse_dates=True
7 )
```

```
1 from pandas.plotting import scatter_matrix
2 scatter_matrix(fb, figsize=(10, 10))
```

```

<Axes: xlabel='low', ylabel='open'>,
<Axes: xlabel='close', ylabel='open'>,
<Axes: xlabel='volume', ylabel='open'>],
[<Axes: xlabel='open', ylabel='high'>,
<Axes: xlabel='high', ylabel='high'>,
<Axes: xlabel='low', ylabel='high'>,
<Axes: xlabel='close', ylabel='high'>,
<Axes: xlabel='volume', ylabel='high'>],
[<Axes: xlabel='open', ylabel='low'>,
<Axes: xlabel='high', ylabel='low'>,
<Axes: xlabel='low', ylabel='low'>,
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<Axes: xlabel='volume', ylabel='low'>],
[<Axes: xlabel='open', ylabel='close'>,
<Axes: xlabel='high', ylabel='close'>,
<Axes: xlabel='low', ylabel='close'>,
<Axes: xlabel='close', ylabel='close'>,
<Axes: xlabel='volume', ylabel='close'>],
[<Axes: xlabel='open', ylabel='volume'>,
<Axes: xlabel='high', ylabel='volume'>,
<Axes: xlabel='low', ylabel='volume'>,
<Axes: xlabel='close', ylabel='volume'>,
<Axes: xlabel='volume', ylabel='volume'>]], dtype=object)

```

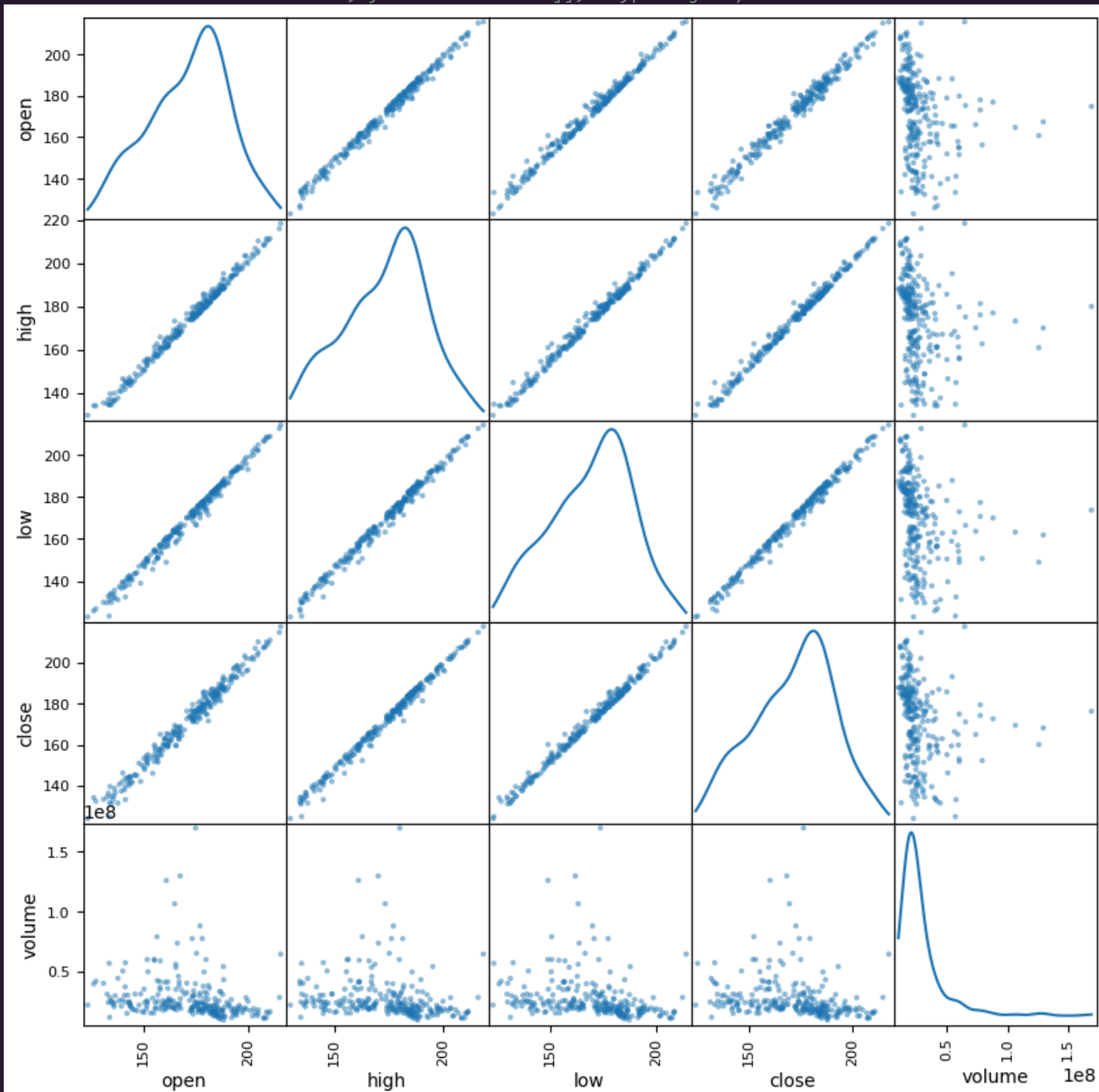


```

1 scatter_matrix(fb, figsize=(10, 10), diagonal='kde')

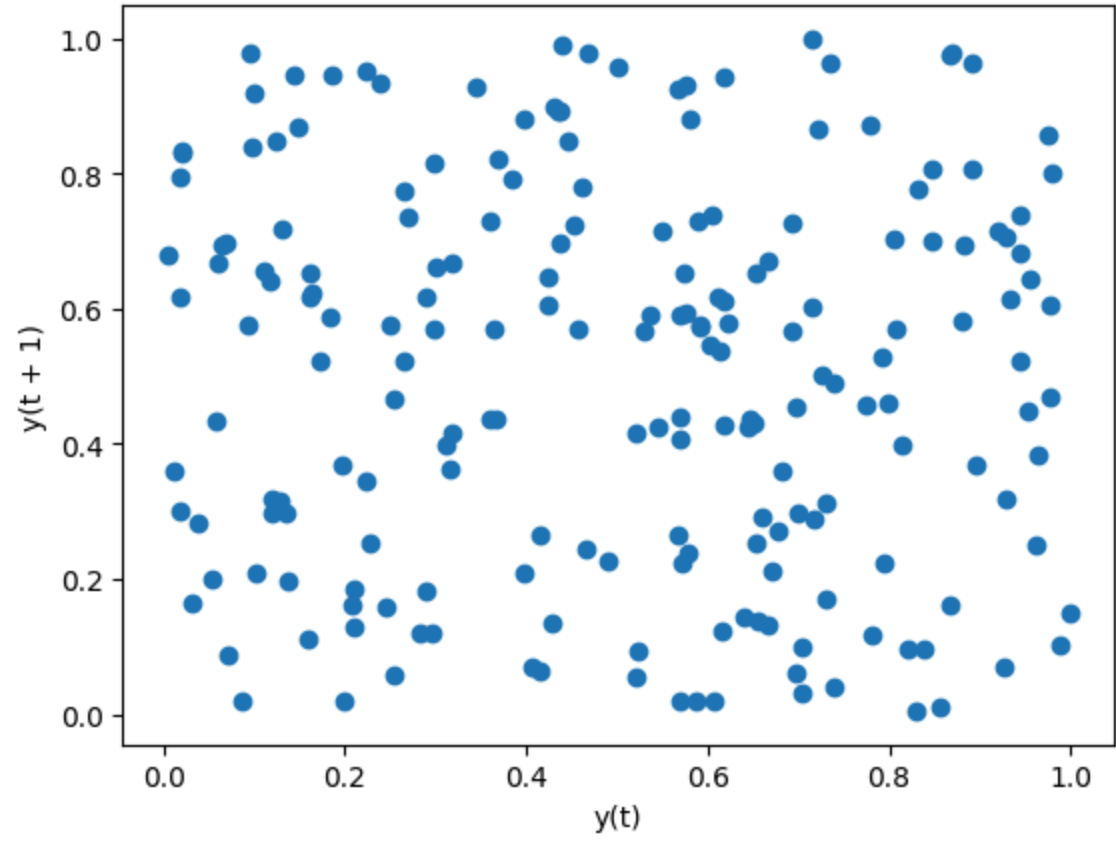
```

```
array([[<Axes: xlabel='open', ylabel='open'>,
       <Axes: xlabel='high', ylabel='open'>,
       <Axes: xlabel='low', ylabel='open'>,
       <Axes: xlabel='close', ylabel='open'>,
       <Axes: xlabel='volume', ylabel='open'>],
      [<Axes: xlabel='open', ylabel='high'>,
       <Axes: xlabel='high', ylabel='high'>,
       <Axes: xlabel='low', ylabel='high'>,
       <Axes: xlabel='close', ylabel='high'>,
       <Axes: xlabel='volume', ylabel='high'>],
      [<Axes: xlabel='open', ylabel='low'>,
       <Axes: xlabel='high', ylabel='low'>,
       <Axes: xlabel='low', ylabel='low'>,
       <Axes: xlabel='close', ylabel='low'>,
       <Axes: xlabel='volume', ylabel='low'>],
      [<Axes: xlabel='open', ylabel='close'>,
       <Axes: xlabel='high', ylabel='close'>,
       <Axes: xlabel='low', ylabel='close'>,
       <Axes: xlabel='close', ylabel='close'>,
       <Axes: xlabel='volume', ylabel='close'>],
      [<Axes: xlabel='open', ylabel='volume'>,
       <Axes: xlabel='high', ylabel='volume'>,
       <Axes: xlabel='low', ylabel='volume'>,
       <Axes: xlabel='close', ylabel='volume'>,
       <Axes: xlabel='volume', ylabel='volume'>]], dtype=object)
```



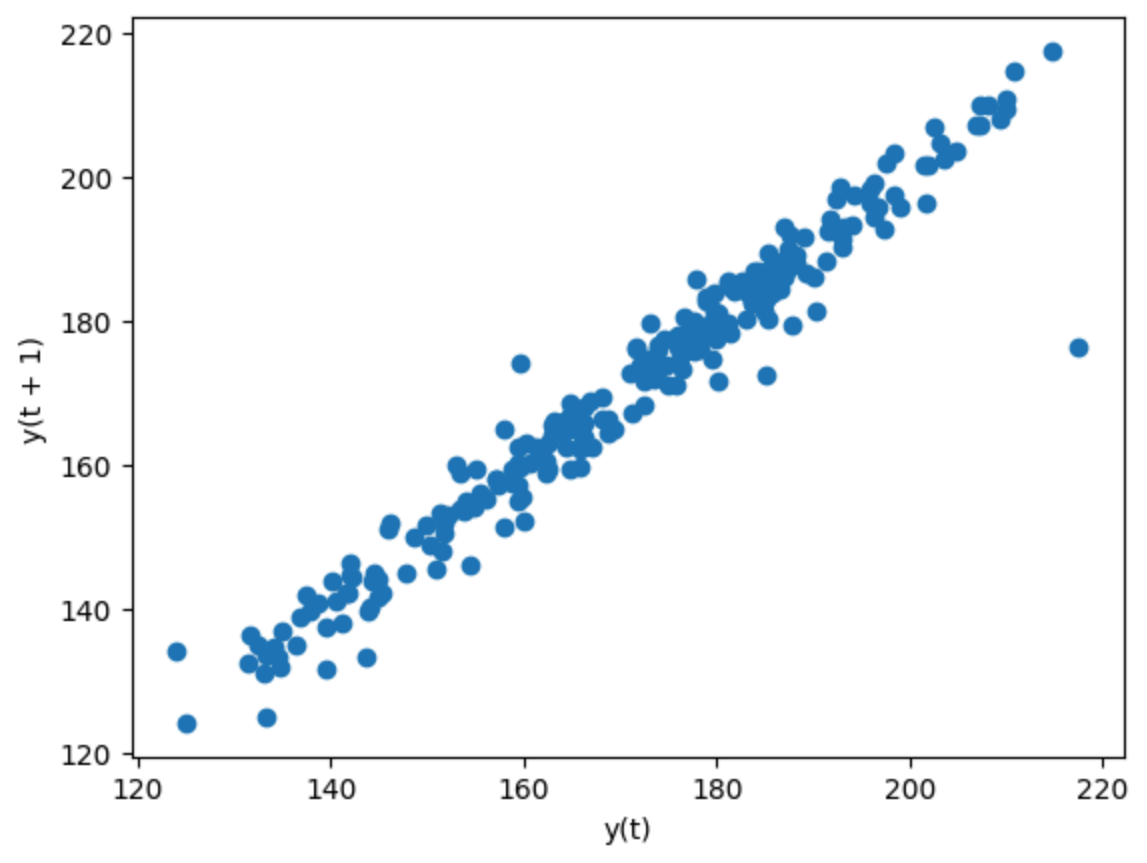
```
1 from pandas.plotting import lag_plot
2 np.random.seed(0) # make this repeatable
3 lag_plot(pd.Series(np.random.random(size=200)))
```

<Axes: xlabel='y(t)', ylabel='y(t + 1)'\>



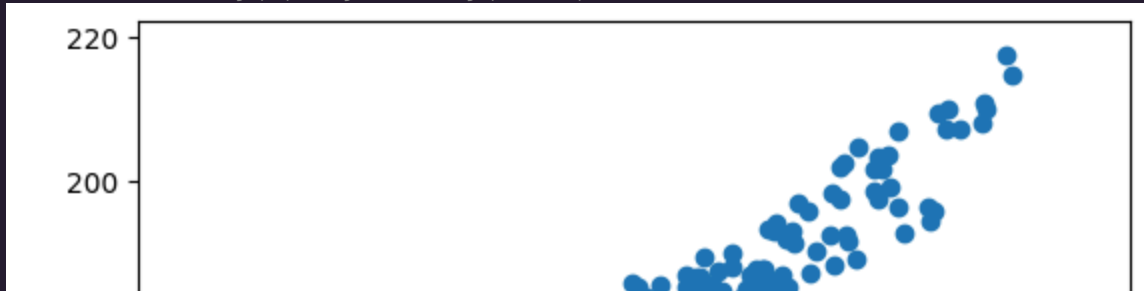
```
1 lag_plot(fb.close)
```

<Axes: xlabel='y(t)', ylabel='y(t + 1)'\>



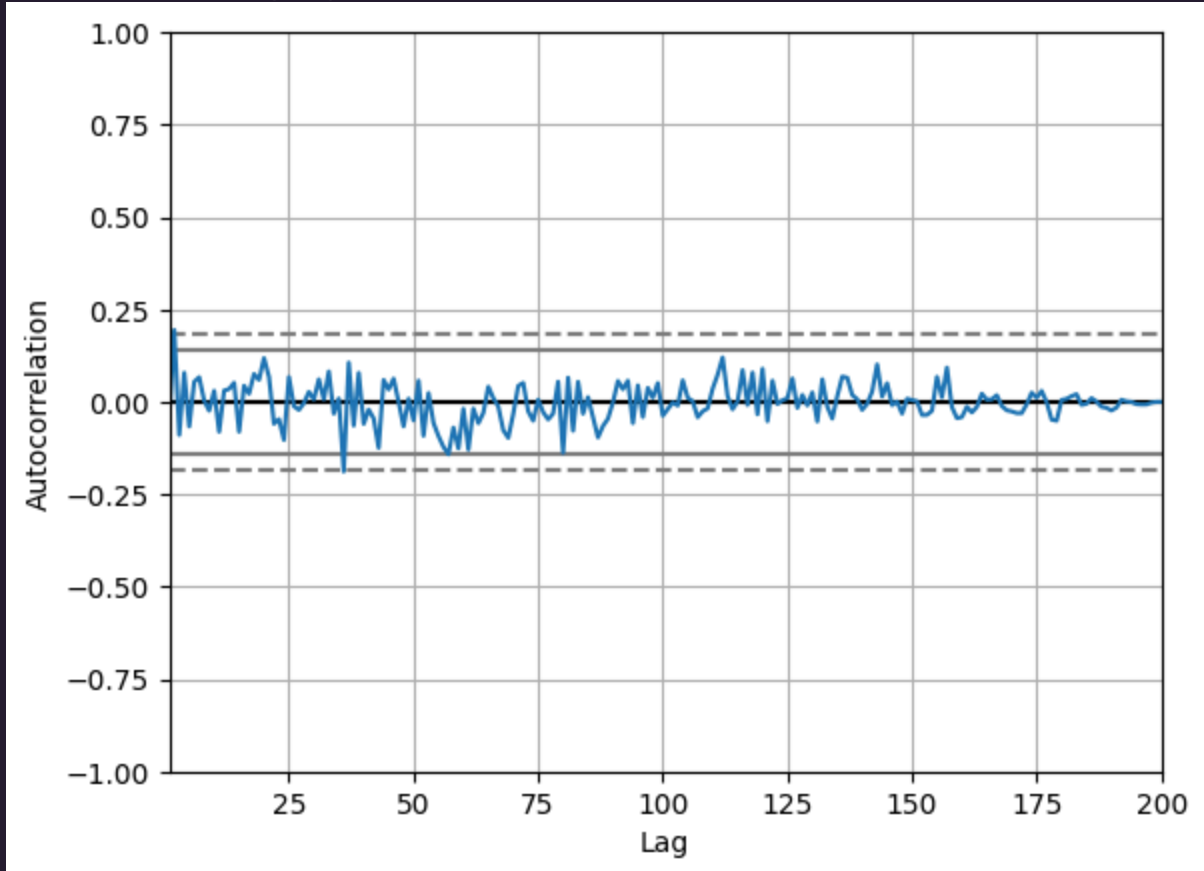
```
1 lag_plot(fb.close, lag=5)
```

<Axes: xlabel='y(t)', ylabel='y(t + 5)'\>



```
1 from pandas.plotting import autocorrelation_plot
2 np.random.seed(0) # make this repeatable
3 autocorrelation_plot(pd.Series(np.random.random(size=200)))
```

<Axes: xlabel='Lag', ylabel='Autocorrelation'\>



```
1 autocorrelation_plot(fb.close)
```

<Axes: xlabel='Lag', ylabel='Autocorrelation'\>

