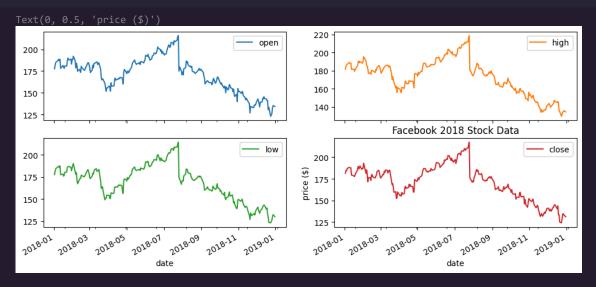
```
1 %matplotlib inline
2 import matplotlib.pyplot as plt
3 import numpy as np
4 import pandas as pd
5 import seaborn as sns
6 fb = pd.read_csv(
7 '/content/fb_stock_prices_2018.csv', index_col='date', parse_dates=True
8 )
```

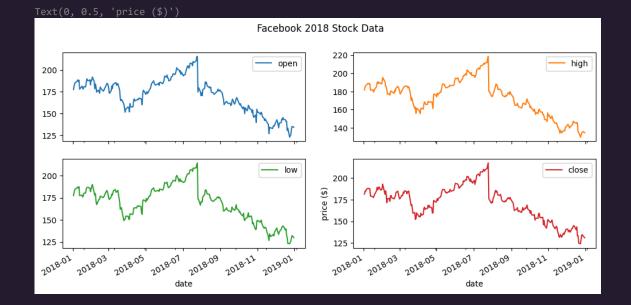
```
1 fb.close.plot()
2 plt.suptitle('FB Closing Price')
3 plt.xlabel('date')
4 plt.ylabel('price ($)')
```



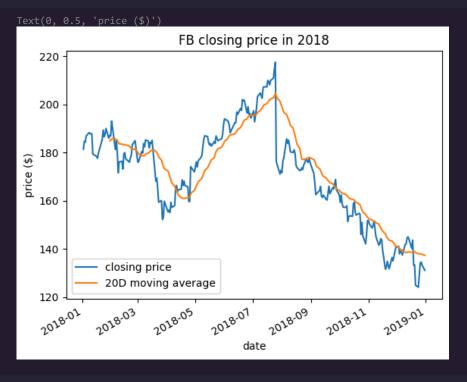
```
1 fb.iloc[:,:4].plot(subplots=True, layout=(2, 2), figsize=(12, 5))
2 plt.title('Facebook 2018 Stock Data')
3 plt.xlabel('date')
4 plt.ylabel('price ($)')
```



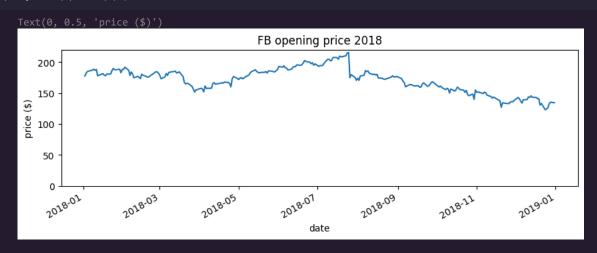
```
1 fb.iloc[:,:4].plot(subplots=True, layout=(2, 2), figsize=(12, 5))
2 plt.suptitle('Facebook 2018 Stock Data')
3 plt.xlabel('date')
4 plt.ylabel('price ($)')
```



```
1 fb.assign(
2 ma=lambda x: x.close.rolling(20).mean()
3 ).plot(
4 y=['close', 'ma'],
5 title='FB closing price in 2018',
6 label=['closing price', '20D moving average']
7 )
8 plt.legend(loc='lower left')
9 plt.ylabel('price ($)')
```

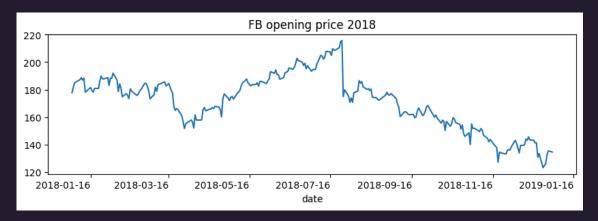


```
1 fb.open.plot(figsize=(10, 3), title='FB opening price 2018')
2 plt.ylim(0, None)
3 plt.ylabel('price ($)')
```



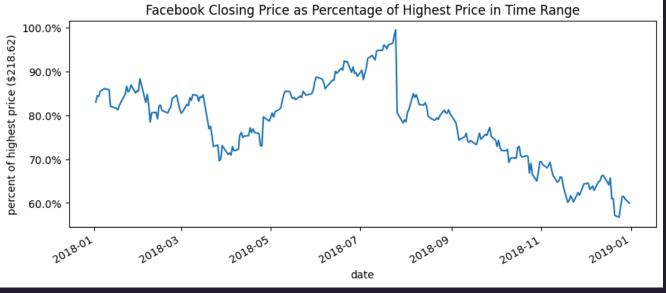
```
1 import calendar
2 fb.open.plot(figsize=(10, 3), rot=0, title='FB opening price 2018')
3 locs, labels = plt.xticks()
4 plt.xticks(locs + 15 , calendar.month_name[1::2])
5 plt.ylabel('price ($)')
```

```
xipython-input-12-49f9a03c7ca6> in <cell line: 4>()
    2 fb.open.plot(figsize=(10, 3), rot=0, title='FB opening price 2018')
    3 locs, labels = plt.xticks()
----> 4 plt.xticks(locs + 15 , calendar.month_name[1::2])
    5 plt.ylabel('price ($)')
                                                                         — 💠 3 frames -
                       **kwargs)
                                                # remove all tick labels, so only error for > 0 labels
if len(locator.locs) != len(labels) and len(labels) != 0:
```

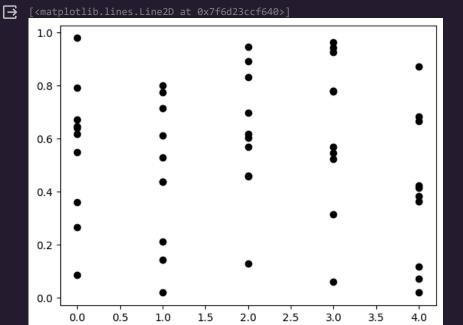


```
1 import matplotlib.ticker as ticker
 2 ax = fb.close.plot(
 3 figsize=(10, 4),
 4 title='Facebook Closing Price as Percentage of Highest Price in Time Range'
 5)
 6 ax.yaxis.set_major_formatter(
 7 ticker.PercentFormatter(xmax=fb.high.max())
9 ax.set_yticks([
10 fb.high.max()*pct for pct in np.linspace(0.6, 1, num=5)
11 ]) # show round percentages only (60%, 80%, etc.)
12 ax.set_ylabel(f'percent of highest price (${fb.high.max()})')
```





```
1 fig, ax = plt.subplots(1, 1)
2 np.random.seed(0)
3 ax.plot(np.tile(np.arange(0, 5), 10), np.random.rand(50), 'ko')
```



```
1
2 fig, ax = plt.subplots(1, 1)
3 np.random.seed(0)
4 ax.plot(np.tile(np.arange(0, 5), 10), np.random.rand(50), 'ko')
5 ax.get_xaxis().set_major_locator(
6 ticker.MultipleLocator(base=1)
7 )
```

