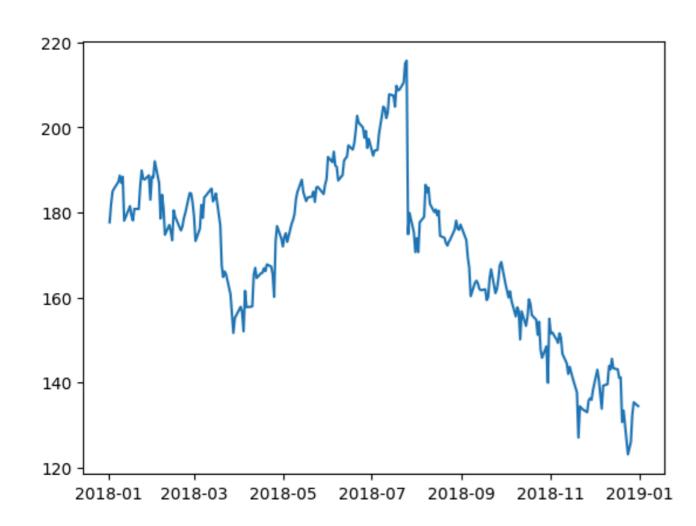
Name: Xander Sam E. Galapia

```
Section: CPE22S3
```

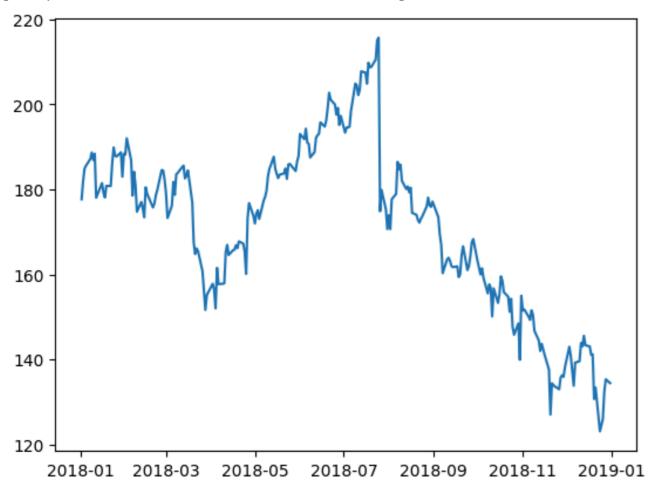
```
import matplotlib.pyplot as plt
import pandas as pd

fb = pd.read_csv(
  'data/fb_stock_prices_2018.csv', index_col='date', parse_dates=True
)
plt.plot(fb.index, fb.open)
plt.show()
```



```
%matplotlib inline
import matplotlib.pyplot as plt
import pandas as pd
fb = pd.read_csv(
'data/fb_stock_prices_2018.csv', index_col='date', parse_dates=True
)
plt.plot(fb.index, fb.open)
```

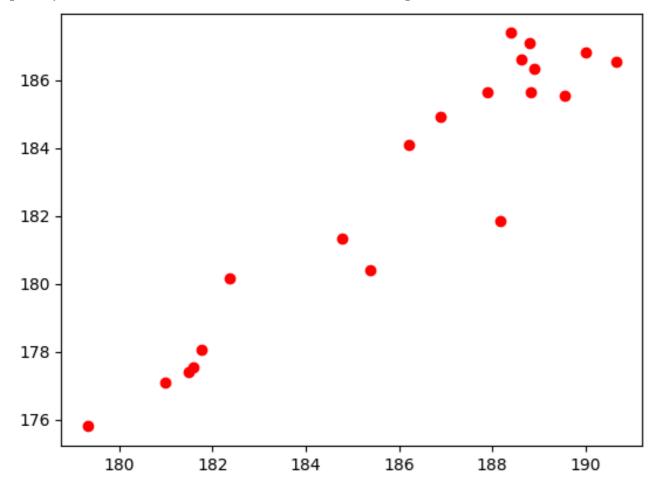
[<matplotlib.lines.Line2D at 0x798728bd3d30>]



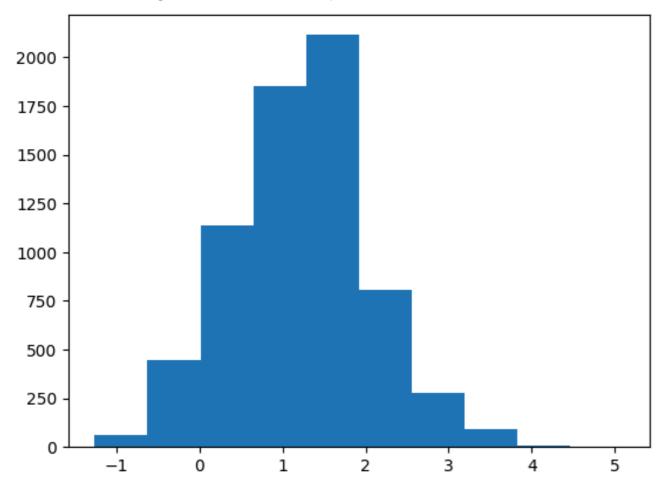
Scatter Plots

plt.plot('high', 'low', 'ro', data=fb.head(20))

[<matplotlib.lines.Line2D at 0x798728a506a0>]

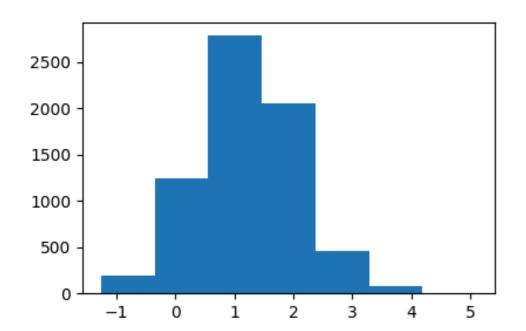


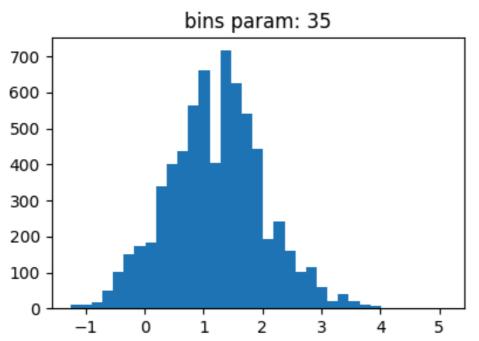
quakes = pd.read_csv('data/earthquakes.csv')
plt.hist(quakes.query('magType == "ml"').mag)



```
x = quakes.query('magType == "ml"').mag
fig, axes = plt.subplots(1, 2, figsize=(10, 3))
for ax, bins in zip(axes, [7, 35]):
   ax.hist(x, bins=bins)
ax.set_title(f'bins param: {bins}')
```

Text(0.5, 1.0, 'bins param: 35')



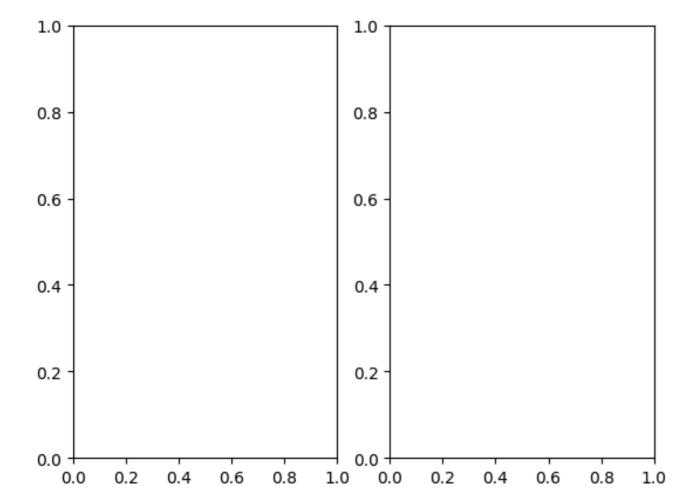


Plot Components

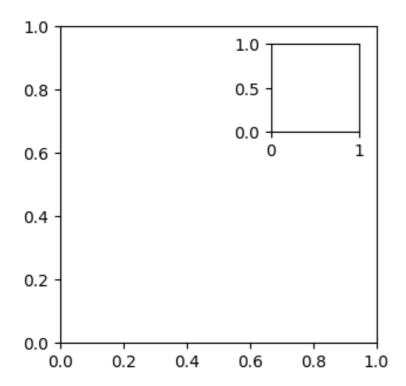
```
fig = plt.figure()
     <Figure size 640x480 with 0 Axes>
```

Creating Subplots

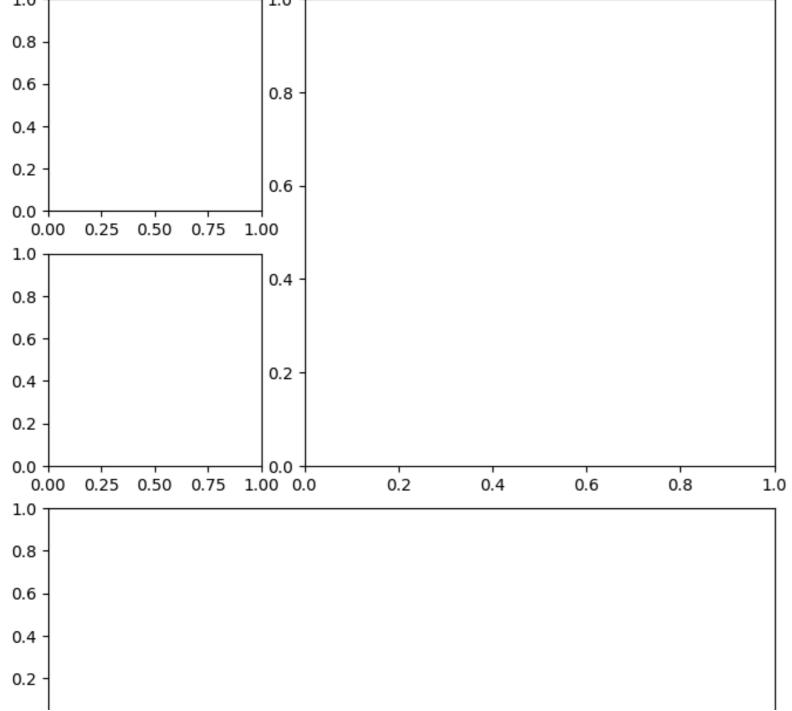
```
fig, axes = plt.subplots(1,2)
```



```
fig = plt.figure(figsize=(3, 3))
outside = fig.add_axes([0.1, 0.1, 0.9, 0.9])
inside = fig.add_axes([0.7, 0.7, 0.25, 0.25])
```



```
fig = plt.figure(figsize=(8, 8))
gs = fig.add_gridspec(3, 3)
top_left = fig.add_subplot(gs[0, 0])
mid_left = fig.add_subplot(gs[1, 0])
top_right = fig.add_subplot(gs[:2, 1:])
bottom = fig.add_subplot(gs[2,:])
1.0
0.8
0.6
```



Saving Plots

```
fig.savefig('empty.png')
```

Cleaning Up

```
plt.close('all')
```

Additional Plotting Options