

1. Build a scatter plot for 'Close' Values of ETH and BTC for years: 2016,17,18 & 19.

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In [ ]: import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
```

```
In [ ]: bitcoin = pd.read_csv('D:\python\data\coin_Bitcoin.csv')
ethereum = pd.read_csv('D:\python\data\coin_Ethereum.csv')
```

```
In [ ]: bitcoin['Date'] = pd.to_datetime(bitcoin['Date'])
ethereum['Date'] = pd.to_datetime(ethereum['Date'])
bitcoin['Year'] = pd.DatetimeIndex(bitcoin['Date']).year
ethereum['Year'] = pd.DatetimeIndex(ethereum['Date']).year
```

```
In [ ]: start_date = 2015
end_date = 2019
BTH = (bitcoin['Year'] > start_date) & (bitcoin['Year'] <= end_date)
BTH = bitcoin.loc[BTH]
ETH = (ethereum['Year'] > start_date) & (ethereum['Year'] <= end_date)
ETH = ethereum.loc[ETH]
```

```
In [ ]: fig = plt.gcf()
concat = pd.concat([BTH.assign(dataset='BTH'), ETH.assign(dataset='ETH')])
sns.scatterplot(data=concat, x='Year', y='Close', hue='dataset', style='dataset',
                palette='bright')
fig.set_size_inches(20, 8)
```

