

```
In [1]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline
```

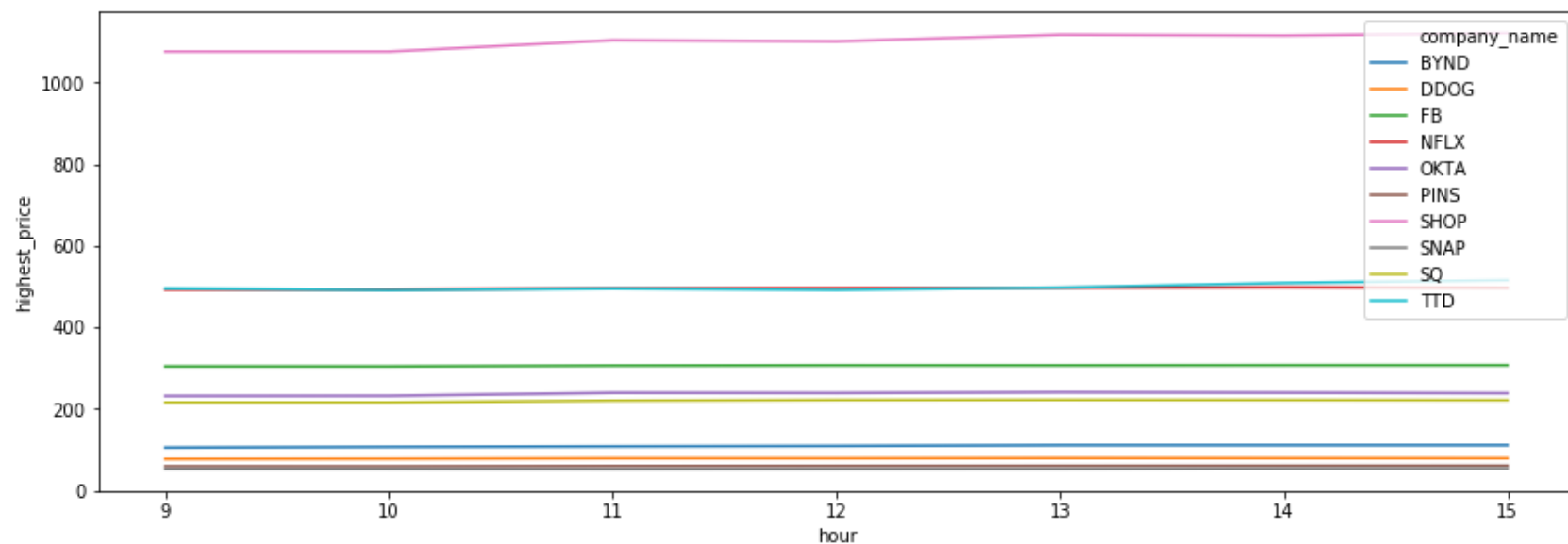
```
In [2]: df = pd.read_csv('results.csv')
df.head(10)
```

```
Out[2]:
```

	company_name	highest_price	datetime	hour
0	BYND	104.709999	2021-05-11 09:55:00-04:00	9
1	BYND	106.460999	2021-05-11 10:55:00-04:00	10
2	BYND	107.695000	2021-05-11 11:55:00-04:00	11
3	BYND	108.839996	2021-05-11 12:55:00-04:00	12
4	BYND	110.660004	2021-05-11 13:45:00-04:00	13
5	BYND	110.699997	2021-05-11 14:50:00-04:00	14
6	BYND	110.699997	2021-05-11 14:45:00-04:00	14
7	BYND	110.699997	2021-05-11 14:55:00-04:00	14
8	BYND	110.680000	2021-05-11 15:30:00-04:00	15
9	DDOG	77.040001	2021-05-11 09:55:00-04:00	9

Firstly, let's see the trend in the stock price of 10 companies on May 11

```
In [3]: plt.figure(figsize=(15,5))  
ax = sns.lineplot(x='hour',y='highest_price',data=df,hue='company_name')
```

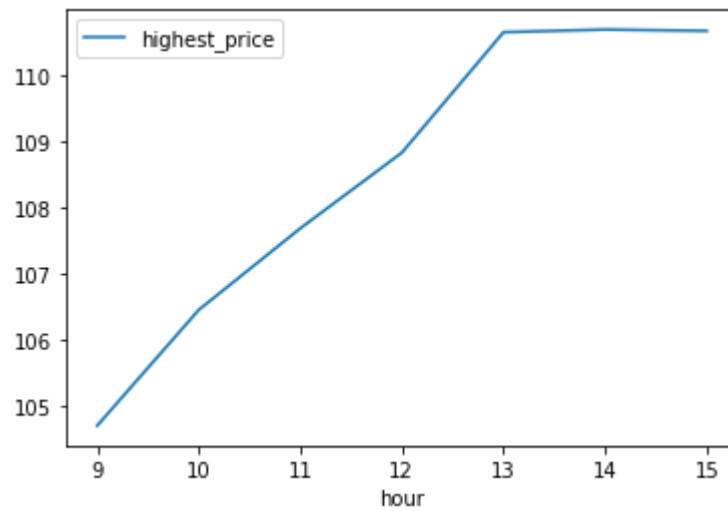


We can see the stock prices were quite stable without any significant spike. Let's take a closer look at each company

```
In [4]: for company in df['company_name'].unique():  
        print('Company:', company)  
        df_trend = df[df['company_name'] == company].loc[:, ['hour', 'highest_price']]  
        print(df_trend.set_index('hour').plot(kind='line'))  
        plt.show()
```

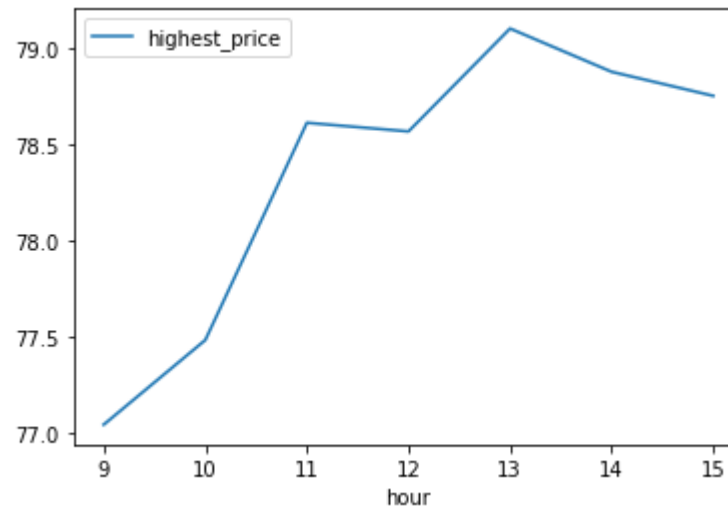
Company: BYND

AxesSubplot(0.125,0.125;0.775x0.755)



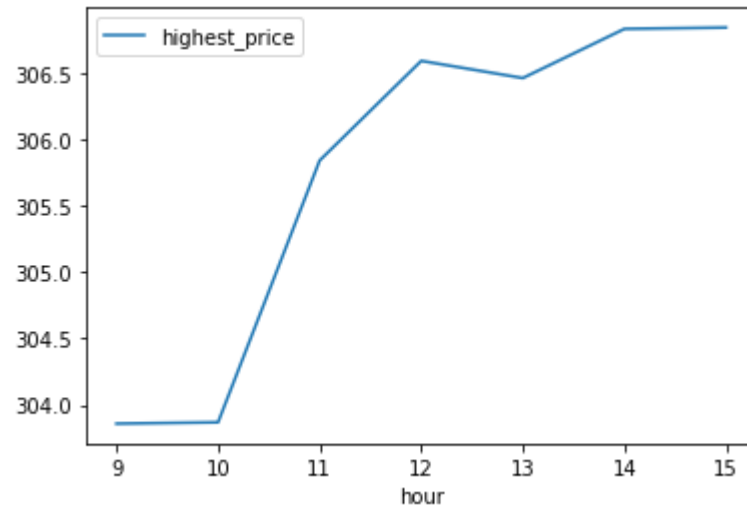
Company: DDOG

AxesSubplot(0.125,0.125;0.775x0.755)



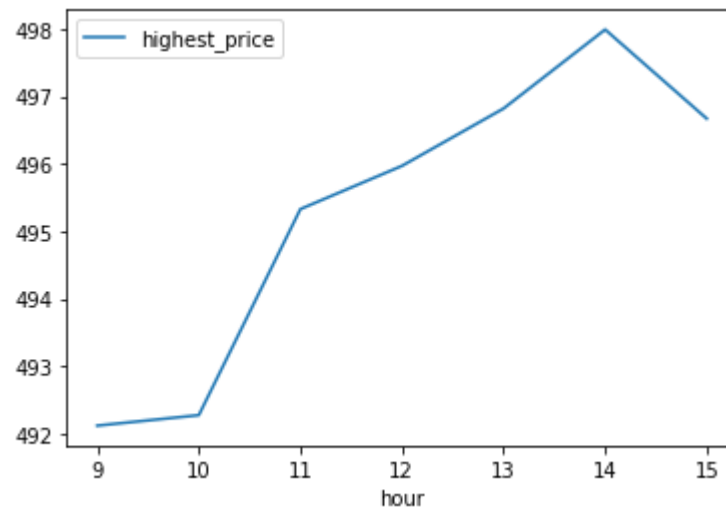
Company: FB

AxesSubplot(0.125,0.125;0.775x0.755)



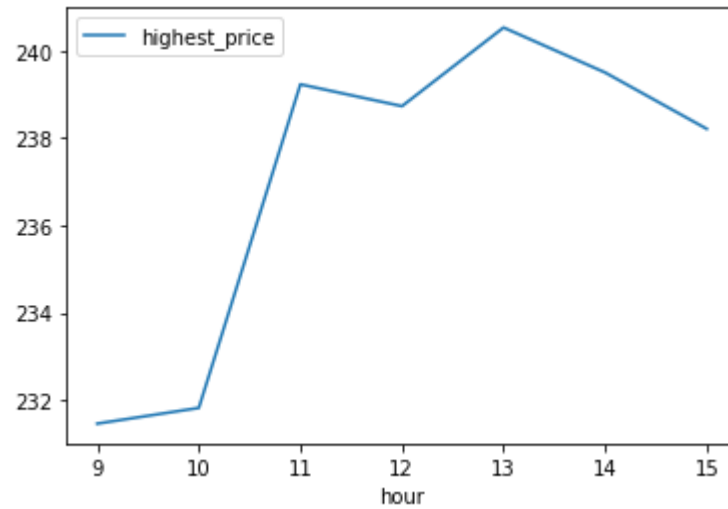
Company: NFLX

AxesSubplot(0.125,0.125;0.775x0.755)



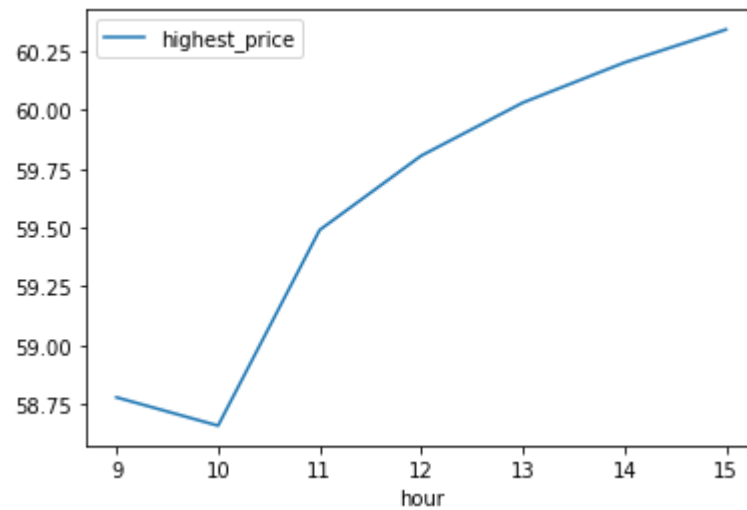
Company: OKTA

AxesSubplot(0.125,0.125;0.775x0.755)



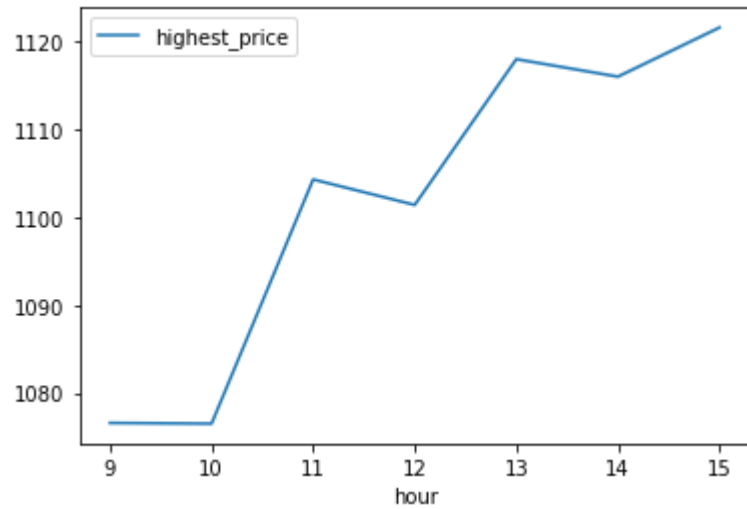
Company: PINS

AxesSubplot(0.125,0.125;0.775x0.755)



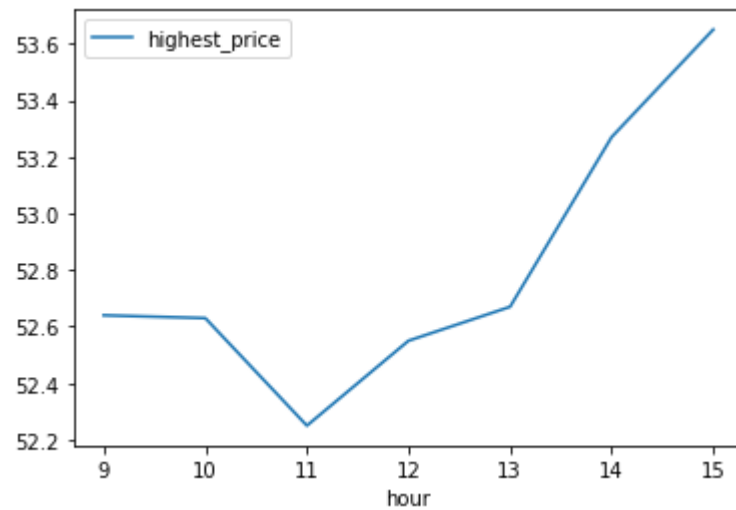
Company: SHOP

AxesSubplot(0.125,0.125;0.775x0.755)



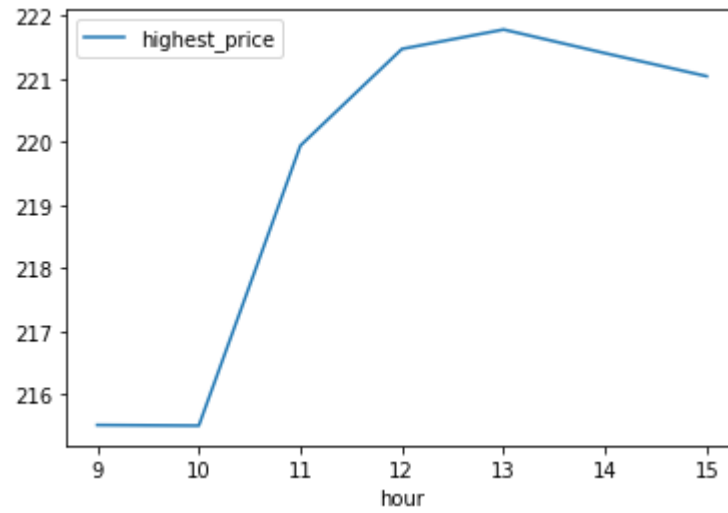
Company: SNAP

AxesSubplot(0.125,0.125;0.775x0.755)



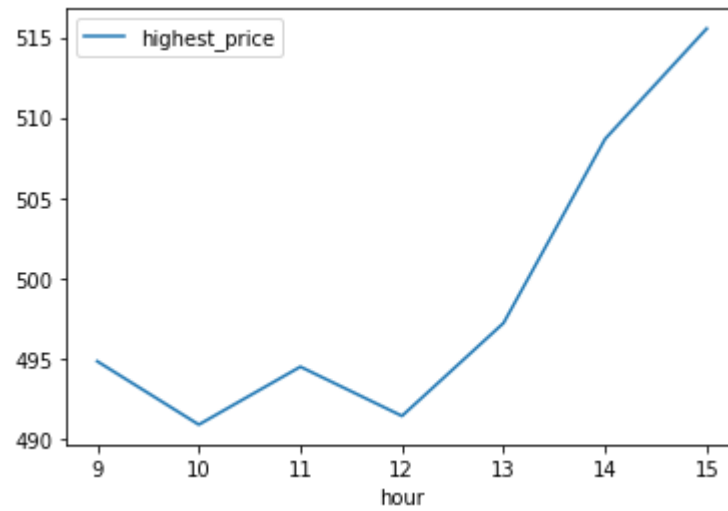
Company: SQ

AxesSubplot(0.125,0.125;0.775x0.755)



Company: TTD

AxesSubplot(0.125,0.125;0.775x0.755)

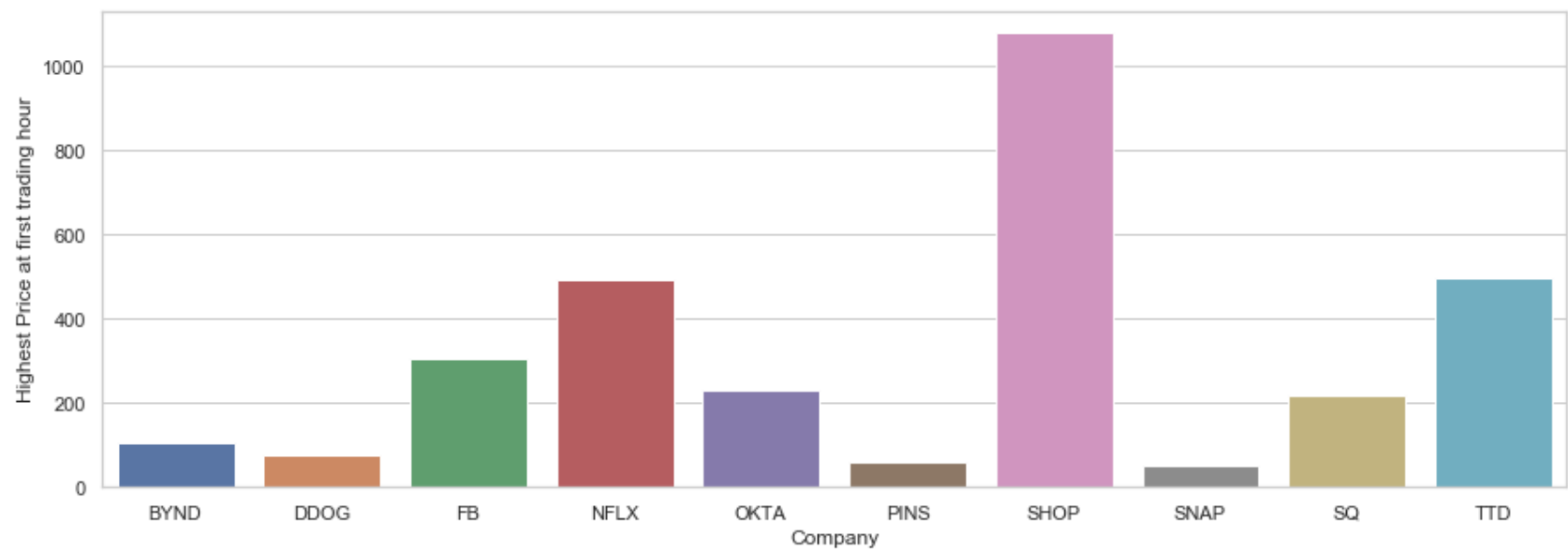


Stock price of all 10 companies increased on May 11, 2021

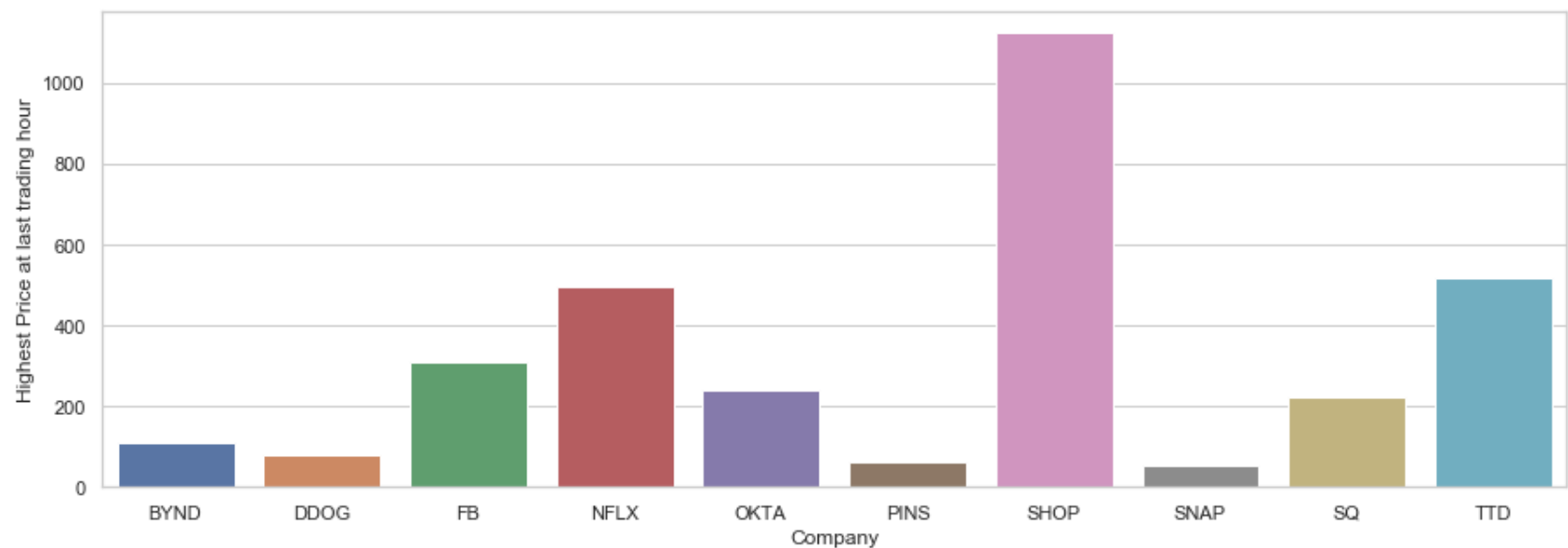
- Beyond Meat (BYND)
- Datadog (DDOG)
- Facebook (FB)
- Netflix (NFLX)
- Okta (OKTA)
- Pinterest (PINS)
- Shopify (SHOP)
- Snap (SNAP)
- Square (SQ)
- The Trade Desk (TTD)

Opening vs Closing Price

```
In [5]: sns.set(style="whitegrid")  
  
df9 = df[(df['hour'] == 9)]  
  
fig = plt.figure(figsize=(15,5))  
  
bar_company = sns.barplot(x="company_name", y="highest_price", data=df9)  
  
bar_company.set(xlabel='Company', ylabel='Highest Price at first trading hour')  
  
plt.show()
```



```
In [6]: sns.set(style="whitegrid")  
  
df15 = df[(df['hour'] == 15)]  
  
fig = plt.figure(figsize=(15,5))  
  
bar_company = sns.barplot(x="company_name", y="highest_price", data=df15)  
  
bar_company.set(xlabel='Company', ylabel='Highest Price at last trading hour')  
  
plt.show()
```



```
In [ ]:
```