Data Visualizations

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

pd.options.mode.chained_assignment = None
```

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

Out[2]:

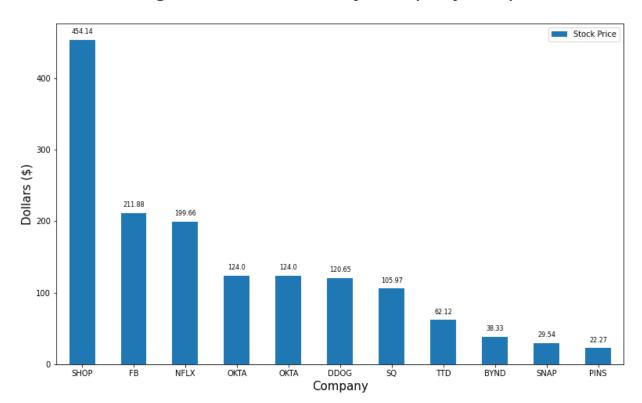
	Company	High	Hour	Datetime
0	BYND	37.80	9	2022-05-02 09:55:00-04:00
1	BYND	37.99	10	2022-05-02 10:30:00-04:00
2	BYND	37.59	11	2022-05-02 11:30:00-04:00
3	BYND	37.33	12	2022-05-02 12:20:00-04:00
4	BYND	36.57	13	2022-05-02 13:05:00-04:00
80	TTD	59.94	13	2022-05-02 13:00:00-04:00
81	TTD	59.94	13	2022-05-02 13:10:00-04:00
82	TTD	60.28	14	2022-05-02 14:50:00-04:00
83	TTD	62.12	15	2022-05-02 15:55:00-04:00
84	TTD	52.64	16	2022-05-20 16:00:00-04:00

85 rows × 4 columns

Highest Stock Price at the First Trading Hour (or Any Hour)

For this visualization I look at the highest stock prices of companies at 3pm.

Highest Stock Prices by Company at 3pm



Highest Hourly Stock Price Trend

```
In [4]: df_line = df[['Company','High','Hour']]
           df_line = df_line.groupby(['Hour', 'Company']).last()
In [5]: | ax = df_line.unstack(level=1).plot(kind='line', subplots=True,
                                                          rot=0, figsize=(15,10), layout=(5,2))
           plt.show()
                                                                    120
             35
                                                                    110
             30
                                                                    100
                  (High, BYND)
                                                                           (High, DDOG)
                                                                    200
            210
                                                                    195
            200
                                                                    190
                 — (High, FB)
                                                                          (High, NFLX)
            120
                                                                            (High, PINS)
                                                                    22.5
                                                                    22.0
            100
                                                                    21.5
                 — (High, OKTA)
            450
                                                                     28
            425
                                                                     26
            400
                   (High, SHOP)
                                                                           (High, SNAP)
                                                                     60
            100
             90
                                                                     55
                   (High, SQ)
                                                                            (High, TTD)
                             11
                                                     15
                                                                                                            15
                                  12
                                        13
                                                                                          12
```