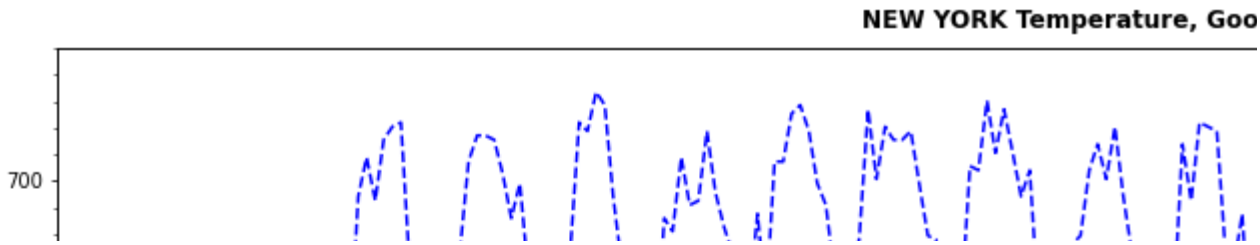
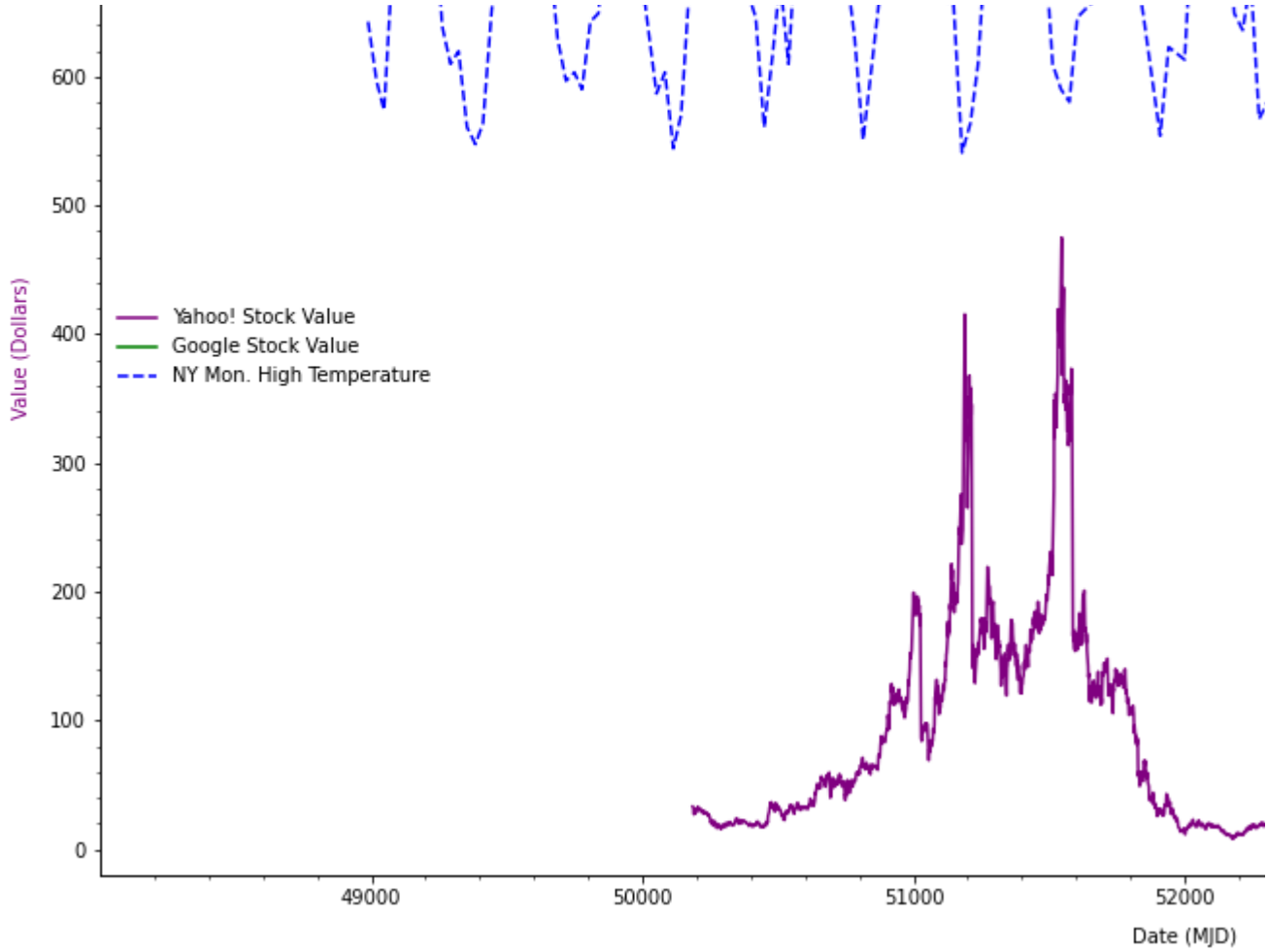
```
# importing libraries

import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
from matplotlib import rc
rc('mathtext', default='regular')



from google.colab import files
uploaded = files.upload()



# reading google CSV in pandas dataframe

dfg = pd.read_csv(io.BytesIO(uploaded['google_date.csv']))


from google.colab import files
uploaded = files.upload()



# reading Yahoo CSV in pandas dataframe

dfy = pd.read_csv(io.BytesIO(uploaded['yahoo.csv']))


from google.colab import files
uploaded = files.upload()



# reading Temperature CSV in pandas dataframe

dft = pd.read_csv(io.BytesIO(uploaded['temperature.csv']))


# getting the degree sign of temperature

degree_sign= u'\N{DEGREE SIGN}'




# creating figure
fig = plt.figure()

fig.set_figwidth(20)
fig.set_figheight(10)


# plotting google
ax = fig.add_subplot()
google = ax.plot(dfg['Julian Date'], dfg['stock value'], label = 'Google Stock Valu
```

```
#plotting yahoo
yahoo = ax.plot(dfy['Modified Julian Date'],dfy['Stock Value'],label = 'Yahoo! Stoc


#creating twin y-axis
ax2 = ax.twinx()

#plotting temperature
temp = ax2.plot(dft['Modified Julian Date'],dft['Max Temperature'], label = 'NY Mon

#title
plt.title("NEW YORK Temperature, Gooogle, and Yahoo!", fontweight = 'bold', pad=10)

#Setting axis limits
ax2.set_ylim(-150, 100)
ax.set_ylim(-20, 800)
ax.set_xlim(48000,56000)
ax.set_xticks(np.arange(49000,56000, step = 1000))
ax.set_yticks(np.arange(0,800, step = 100))

#labelling the axis
ax.set_xlabel('Date (MJD)', labelpad=10)
ax.set_ylabel('Value (Dollars)', color = 'purple', labelpad=10)
ax2.set_ylabel('Temperature (' + " "+degree_sign + 'F )', color = 'blue', labelpad=

# legend
summation = yahoo+google+temp
labs = [l.get_label() for l in summation]
ax.legend(summation, labs, loc="center left", frameon = False)

# switching on the ticks
ax.minorticks_on()
ax2.minorticks_on()

plt.show()
```





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