

Stock Price Data

September 26, 2024

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[2]: import datetime

import matplotlib.pyplot as plt
import numpy as np
import yfinance as yfin
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[18]: start = datetime.date(2021, 9, 20)
end = datetime.date(2024, 9, 19)
df = yfin.download(["AAPL", "TSLA", "NVDA"], start, end)["Adj Close"]
```

[*****100%*****] 3 of 3 completed

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[19]: df.head(3)
```

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[19]: Ticker      AAPL      NVDA      TSLA
Date
2021-09-20  140.585846  21.076818  243.389999
2021-09-21  141.067734  21.209593  246.460007
2021-09-22  143.447906  21.903399  250.646667
```

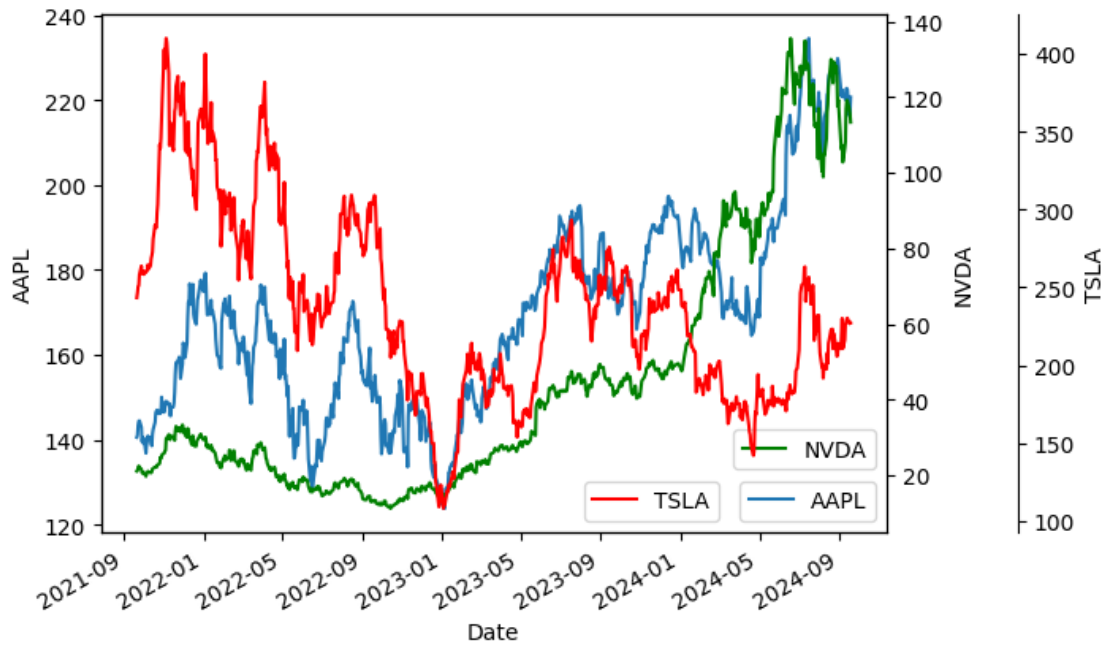
```
[20]: # Create the figure. We want a plot where the three assets have the same index
      ↪ (x-axis) but different scale (y-axis)
fig = plt.figure()
ax1 = fig.add_subplot(111)
ax2 = ax1.twinx()
ax3 = ax1.twinx()

# Plot the data
df[start:end].plot(ax=ax1, y="AAPL", legend=True)
df[start:end].plot(ax=ax2, y="NVDA", legend=True, color="g")
df[start:end].plot(ax=ax3, y="TSLA", legend=True, color="r")

# We set the labels to the axes
ax1.set_ylabel("AAPL")
ax2.set_ylabel("NVDA")
ax3.set_ylabel("TSLA")
ax3.spines["right"].set_position(("outward", 60))
```

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# Set position of legends
ax1.legend(["AAPL"], loc="lower right")
ax2.legend(["NVDA"], loc="lower right", bbox_to_anchor=(1, 0.1))
ax3.legend(["TSLA"], loc="lower right", bbox_to_anchor=(0.8, 0))

plt.show()
```



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