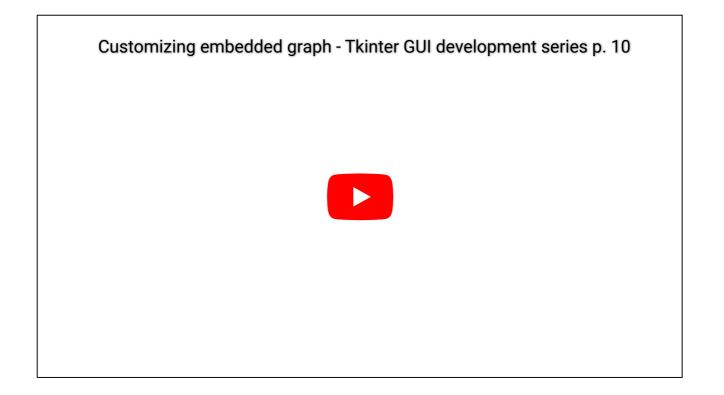


Customizing an embedded Matplotl Graph in Tkinter

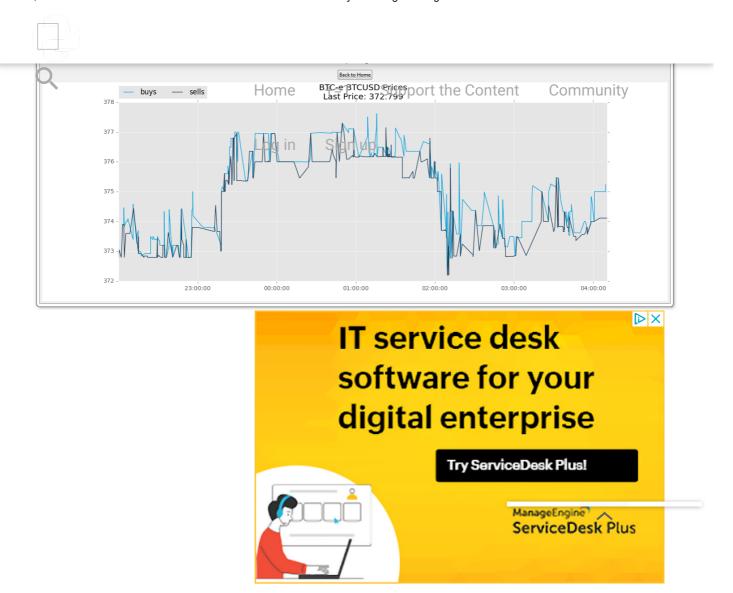


We've got the data, and the graph, but now we might want to change the graph a bit. Here,

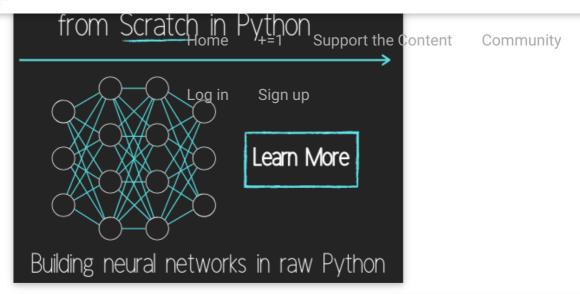


```
aef animate(i):
                                         Support the Content
    dataLink = 'https://btc-e.com/api/3/trades/btc usd?limit=2000'
    data = urllib.request.urlopen(dataLink)
   data = data.readall().decode("utf-8")
    data = json.loads(data)
    data = data["btc usd"]
    data = pd.DataFrame(data)
    buys = data[(data['type']=="bid")]
    buys["datestamp"] = np.array(buys["timestamp"]).astype("datetime64[s]")
    buyDates = (buys["datestamp"]).tolist()
    sells = data[(data['type']=="ask")]
    sells["datestamp"] = np.array(sells["timestamp"]).astype("datetime64[s]
    sellDates = (sells["datestamp"]).tolist()
    a.clear()
    a.plot date(buyDates, buys["price"], "#00A3E0", label="buys")
    a.plot_date(sellDates, sells["price"], "#183A54", label="sells")
    a.legend(bbox_to_anchor=(0, 1.02, 1, .102), loc=3,
             ncol=2, borderaxespad=0)
    title = "BTC-e BTCUSD Prices\nLast Price: "+str(data["price"][1999])
    a.set title(title)
```

The major changes here are that we are specifically specifying a color and a label for our plots. After that, we're creating a legend at the top left. Finally, we're making a custom title



The next tutorial: Creating Our Main Menu In Tkinter



Programming GUIs and windows with Tkinter and Python Introduction

Object Oriented Programming Crash Course with Tkinter

Passing functions with Parameters in Tkinter using Lambda

How to change and show a new window in Tkinter

Styling your GUI a bit using TTK

How to embed a Matplotlib graph to your Tkinter GUI

How to make the Matplotlib graph live in your application

Organizing our GUI

Plotting Live Updating Data in Matplotlib and our Tkinter GUI

Customizing an embedded Matplotlib Graph in Tkinter

Creating our Main Menu in Tkinter

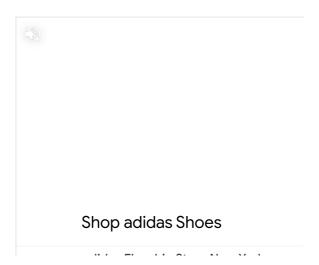
Building a pop-up message window

Exchange Choice Option

Time-frame and sample size option



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Adding exchange choice cont'd
Adding exchange choices part 3
Indicator Support
Pulling data from the Sea of BTC API
Setting up sub plots within our Tkinter GUI
Graphing an OHLC candlestick graph embedded in our Tkinter GUI
Acquiring RSI data from Sea of BTC API
Acquiring MACD data from Sea of BTC API
Converting Tkinter application to .exe and installer with cx_Freeze



You've reached the end!

Contact: Harrison@pythonprogramming.net.



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