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Setting up sub plots within our Tkinter GUI



```
# The code for changing pages was derived from: http://stackoverflow.com/questions/7546050/switch-between-two-
# License: http://creativecommons.org/licenses/by-sa/3.0/
import matplotlib
matplotlib.use("TkAgg")
from \ {\tt matplotlib.backends.backend\_tkagg} \ \ {\tt import} \ \ {\tt Figure Canvas TkAgg}, \ \ {\tt Navigation Toolbar 2TkAgg}
#from matplotlib.figure import Figure
import matplotlib.animation as animation
from matplotlib import style
from matplotlib import pyplot as plt
import matplotlib.dates as mdates
import matplotlib.ticker as mticker
from matplotlib.finance import candlestick_ohlc
import tkinter as tk
from tkinter import ttk
import urllib
import json
import pandas as pd
import numpy as np
LARGE_FONT= ("Verdana", 12)
```

```
style.use("ggplot")
f = plt.figure()
#a = f.add_subplot(111)
exchange = "BTC-e"
DatCounter = 9000
programName = "btce"
resampleSize = "15Min"
DataPace = "tick"
candleWidth = 0.008
paneCount = 1
topIndicator = "none"
bottomIndicator = "none"
middleIndicator = "none"
chartLoad = True
darkColor = "#183A54"
lightColor = "#00A3E0"
EMAs = []
SMAs = []
def tutorial():
      def leavemini(what):
##
##
          what.destroy()
    def page2():
        tut.destroy()
        tut2 = tk.Tk()
        def page3():
            tut2.destroy()
            tut3 = tk.Tk()
            tut3.wm_title("Part 3!")
            label = ttk.Label(tut3, text="Part 3", font=NORM_FONT)
            label.pack(side="top", fill="x", pady=10)
            B1 = ttk.Button(tut3, text="Done!", command= tut3.destroy)
            B1.pack()
            tut3.mainloop()
        tut2.wm title("Part 2!")
        label = ttk.Label(tut2, text="Part 2", font=NORM_FONT)
        label.pack(side="top", fill="x", pady=10)
        B1 = ttk.Button(tut2, text="Next", command= page3)
        B1.pack()
        tut2.mainloop()
    tut = tk.Tk()
    tut.wm_title("Tutorial")
```

```
B1 = ttk.Button(tut, text = "Overview of the application", command=page2)
   B1.pack()
   B2 = ttk.Button(tut, text = "How do I trade with this client?", command=lambda:popupmsg("Not yet completed
   B2.pack()
   B3 = ttk.Button(tut, text = "Indicator Questions/Help", command=lambda:popupmsg("Not yet completed"))
   B3.pack()
   tut.mainloop()
def loadChart(run):
   global chartLoad
   if run == "start":
        chartLoad = True
   elif run == "stop":
        chartLoad = False
def addMiddleIndicator(what):
   global middleIndicator
   global DatCounter
   if DataPace == "tick":
        popupmsg("Indicators in Tick Data not available.")
   if what != "none":
        if middleIndicator == "none":
            if what == "sma":
                midIQ = tk.Tk()
                midIQ.wm_title("Periods?")
                label = ttk.Label(midIQ, text="Choose how many periods you want your SMA to be.")
                label.pack(side="top", fill="x", pady=10)
                e = ttk.Entry(midIQ)
                e.insert(0,10)
                e.pack()
                e.focus_set()
                def callback():
                    global middleIndicator
                    global DatCounter
                    middleIndicator = []
                    periods = (e.get())
                    group = []
                    group.append("sma")
                    group.append(int(periods))
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print("middle indicator set to:",middleIndicator)
           midIQ.destroy()
       b = ttk.Button(midIQ, text="Submit", width=10, command=callback)
       tk.mainloop()
   if what == "ema":
       midIQ = tk.Tk()
       #midIQ.wm_title("Periods?")
       label = ttk.Label(midIQ, text="Choose how many periods you want your EMA to be.")
       label.pack(side="top", fill="x", pady=10)
       e = ttk.Entry(midIQ)
       e.insert(0,10)
       e.pack()
       e.focus_set()
       def callback():
            global middleIndicator
            global DatCounter
           middleIndicator = []
           periods = (e.get())
           group = []
            group.append("ema")
            group.append(int(periods))
            middleIndicator.append(group)
            DatCounter = 9000
            print("middle indicator set to:",middleIndicator)
           midIQ.destroy()
       b = ttk.Button(midIQ, text="Submit", width=10, command=callback)
       b.pack()
       tk.mainloop()
else:
   if what == "sma":
       midIQ = tk.Tk()
       midIQ.wm_title("Periods?")
       label = ttk.Label(midIQ, text="Choose how many periods you want your SMA to be.")
       label.pack(side="top", fill="x", pady=10)
       e = ttk.Entry(midIQ)
       e.insert(0,10)
       e.pack()
       e.focus set()
       def callback():
            global middleIndicator
            global DatCounter
            #middleIndicator = []
           periods = (e.get())
           group = []
            group.append("sma")
            group.append(int(periods))
           middleIndicator.append(group)
           DatCounter = 9000
            print("middle indicator set to:",middleIndicator)
           midIQ.destroy()
       b = ttk.Button(midIQ, text="Submit", width=10, command=callback)
       b.pack()
       tk.mainloop()
```

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```
if what == "ema":
                midIQ = tk.Tk()
                midIQ.wm title("Periods?")
                label = ttk.Label(midIQ, text="Choose how many periods you want your EMA to be.")
                label.pack(side="top", fill="x", pady=10)
                e = ttk.Entry(midIQ)
                e.insert(0,10)
                e.pack()
                e.focus_set()
                def callback():
                    global middleIndicator
                    global DatCounter
                    #middleIndicator = []
                    periods = (e.get())
                    group = []
                    group.append("ema")
                    {\tt group.} {\tt append(int(periods))}
                    middleIndicator.append(group)
                    DatCounter = 9000
                    print("middle indicator set to:",middleIndicator)
                    midIQ.destroy()
                b = ttk.Button(midIQ, text="Submit", width=10, command=callback)
                b.pack()
                tk.mainloop()
   else:
        middleIndicator = "none"
def addTopIndicator(what):
   global topIndicator
    global DatCounter
   if DataPace == "tick":
        popupmsg("Indicators in Tick Data not available.")
   elif what == "none":
        topIndicator = what
        DatCounter = 9000
   elif what == "rsi":
        rsiQ = tk.Tk()
        rsiQ.wm_title("Periods?")
        label = ttk.Label(rsiQ, text = "Choose how many periods you want each RSI calculation to consider.")
        label.pack(side="top", fill="x", pady=10)
        e = ttk.Entry(rsiQ)
        e.insert(0,14)
        e.pack()
        e.focus_set()
        def callback():
            global topIndicator
            global DatCounter
```



```
group.append("rs1")
            group.append(periods)
           topIndicator = group
           DatCounter = 9000
           print("Set top indicator to",group)
           rsiQ.destroy()
       b = ttk.Button(rsiQ, text="Submit", width=10, command=callback)
       b.pack()
       tk.mainloop()
   elif what == "macd":
       global topIndicator
       global DatCounter
       topIndicator = "macd"
       DatCounter = 9000
def addBottomIndicator(what):
   global bottomIndicator
   global DatCounter
   if DataPace == "tick":
        popupmsg("Indicators in Tick Data not available.")
   elif what == "none":
       bottomIndicator = what
       DatCounter = 9000
   elif what == "rsi":
       rsiQ = tk.Tk()
       rsiQ.wm_title("Periods?")
       label = ttk.Label(rsiQ, text = "Choose how many periods you want each RSI calculation to consider.")
       label.pack(side="top", fill="x", pady=10)
       e = ttk.Entry(rsiQ)
       e.insert(0,14)
       e.pack()
       e.focus_set()
       def callback():
           global bottomIndicator
           global DatCounter
           periods = (e.get())
           group = []
           group.append("rsi")
            group.append(periods)
           bottomIndicator = group
           DatCounter = 9000
           print("Set bottom indicator to",group)
            rsiQ.destroy()
       b = ttk.Button(rsiQ, text="Submit", width=10, command=callback)
       b.pack()
       tk.mainloop()
   elif what == "macd":
       global bottomIndicator
```

DatCounter = 9000

```
def changeTimeFrame(tf):
   global DataPace
   global DatCounter
   if tf == "7d" and resampleSize == "1Min":
        popupmsg("Too much data chosen, choose a smaller time frame or higher OHLC interval")
   else:
       DataPace = tf
       DatCounter = 9000
def changeSampleSize(size,width):
   global resampleSize
   global DatCounter
   global candleWidth
   if DataPace == "7d" and resampleSize == "1Min":
        popupmsg("Too much data chosen, choose a smaller time frame or higher OHLC interval")
   elif DataPace == "tick":
       popupmsg("You're currently viewing tick data, not OHLC.")
   else:
       resampleSize = size
       DatCounter = 9000
       candleWidth = width
def changeExchange(toWhat,pn):
   global exchange
   global DatCounter
   global programName
   exchange = toWhat
   programName = pn
   DatCounter = 9000
def popupmsg(msg):
   popup = tk.Tk()
   popup.wm_title("!")
   label = ttk.Label(popup, text=msg, font=NORM_FONT)
   label.pack(side="top", fill="x", pady=10)
   B1 = ttk.Button(popup, text="Okay", command = popup.destroy)
   B1.pack()
   popup.mainloop()
def animate(i):
   global refreshRate
   global DatCounter
   if chartLoad:
       if paneCount == 1:
            if DataPace == "tick":
                try:
                    if exchange == "BTC-e":
```



```
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)
    data["datestamp"] = np.array(data['timestamp']).astype("datetime64[s]")
    allDates = data["datestamp"].tolist()
    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()
   volume = data["amount"]
    a.clear()
    a.plot_date(buyDates, buys["price"], lightColor, label="buys")
    a.plot_date(sellDates, sells["price"], darkColor, label="sells")
    a2.fill_between(allDates, 0, volume, facecolor = darkColor)
    a.xaxis.set_major_locator(mticker.MaxNLocator(5))
    a.xaxis.set_major_formatter(mdates.DateFormatter("%Y-%m-%d %H:%M:%S"))
    plt.setp(a.get_xticklabels(), visible = False)
    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)
    priceData = data['price'].apply(float).tolist()
if exchange == "Bitstamp":
    a = plt.subplot2grid((6,4), (0,0), rowspan = 5, colspan = 4)
    a2 = plt.subplot2grid((6,4), (5,0), rowspan = 1, colspan = 4, sharex = a)
    dataLink = 'https://www.bitstamp.net/api/transactions/'
    data = urllib.request.urlopen(dataLink)
    data = data.readall().decode("utf-8")
   data = json.loads(data)
    data = pd.DataFrame(data)
    data["datestamp"] = np.array(data['date'].apply(int)).astype("datetime64[s]")
    dateStamps = data["datestamp"].tolist()
   #allDates = data["datestamp"].tolist()
     buys = data[(data['type']=="bid")]
     #buys["datestamp"] = np.array(buys["timestamp"]).astype("datetime64[s]")
     buyDates = (buys["datestamp"]).tolist()
```

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#sells["datestamp"] = np.array(sells["timestamp"]).astype("datetime64[s]")
     sellDates = (sells["datestamp"]).tolist()
    volume = data["amount"].apply(float).tolist()
    a.clear()
    a.plot_date(dateStamps, data["price"], lightColor, label="buys")
    a2.fill_between(dateStamps, 0, volume, facecolor = darkColor)
    a.xaxis.set_major_locator(mticker.MaxNLocator(5))
    a.xaxis.set_major_formatter(mdates.DateFormatter("%Y-%m-%d %H:%M:%S"))
    plt.setp(a.get_xticklabels(), visible = False)
    a.legend(bbox_to_anchor=(0, 1.02, 1, .102), loc=3,
             ncol=2, borderaxespad=0)
   title = "Bitstamp BTCUSD Prices\nLast Price: "+str(data["price"][0])
    a.set_title(title)
    priceData = data['price'].apply(float).tolist()
if exchange == "Bitfinex":
    a = plt.subplot2grid((6,4), (0,0), rowspan = 5, colspan = 4)
   a2 = plt.subplot2grid((6,4), (5,0), rowspan = 1, colspan = 4, sharex = a)
    dataLink = 'https://api.bitfinex.com/v1/trades/btcusd?limit=2000'
    data = urllib.request.urlopen(dataLink)
    data = data.readall().decode("utf-8")
    data = json.loads(data)
    data = pd.DataFrame(data)
    data["datestamp"] = np.array(data['timestamp']).astype("datetime64[s]")
    allDates = data["datestamp"].tolist()
    buys = data[(data['type']=="buy")]
    #buys["datestamp"] = np.array(buys["timestamp"]).astype("datetime64[s]")
    buyDates = (buys["datestamp"]).tolist()
    sells = data[(data['type']=="sell")]
    #sells["datestamp"] = np.array(sells["timestamp"]).astype("datetime64[s]")
    sellDates = (sells["datestamp"]).tolist()
   volume = data["amount"].apply(float).tolist()
    a.clear()
    a.plot_date(buyDates, buys["price"], lightColor, label="buys")
    a.plot_date(sellDates, sells["price"], darkColor, label="sells")
    a2.fill_between(allDates, 0, volume, facecolor = darkColor)
    a.xaxis.set_major_locator(mticker.MaxNLocator(5))
    a.xaxis.set_major_formatter(mdates.DateFormatter("%Y-%m-%d %H:%M:%S"))
    plt.setp(a.get_xticklabels(), visible = False)
    a.legend(bbox_to_anchor=(0, 1.02, 1, .102), loc=3,
```

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title = "Bittinex BICUSD Prices\nLast Price: "+str(data["price"][0])
            a.set_title(title)
            priceData = data['price'].apply(float).tolist()
        if exchange == "Huobi":
            a = plt.subplot2grid((6,4), (0,0), rowspan = 6, colspan = 4)
            data = urllib.request.urlopen('http://seaofbtc.com/api/basic/price?key=1&tf=1d&exchang
            data = data.decode()
            data = json.loads(data)
            dateStamp = np.array(data[0]).astype("datetime64[s]")
            dateStamp = dateStamp.tolist()
            df = pd.DataFrame({'Datetime':dateStamp})
            df['Price'] = data[1]
            df['Volume'] = data[2]
            df['Symbol'] = "BTCUSD"
            df['MPLDate'] = df['Datetime'].apply(lambda date: mdates.date2num(date.to_pydatetime()
            df = df.set_index("Datetime")
            lastPrice = df["Price"][-1]
            a.plot_date(df['MPLDate'][-4500:], df['Price'][-4500:], lightColor, label="price")
            a.xaxis.set_major_locator(mticker.MaxNLocator(5))
            a.xaxis.set_major_formatter(mdates.DateFormatter("%Y-%m-%d %H:%M:%S"))
            title = "Huobi BTCUSD Prices\nLast Price: "+str(lastPrice)
            a.set_title(title)
            priceData = df['price'].apply(float).tolist()
   except Exception as e:
        print("Failed because of:",e)
else:
   if DatCounter > 12:
        try:
            if exchange == "Huobi":
                if topIndicator != "none":
                    a = plt.subplot2grid((6,4),(1,0), rowspan=5, colspan = 4)
                    a2 = plt.subplot2grid((6,4),(0,0),sharex=a, rowspan=1, colspan = 4)
                else:
                    a = plt.subplot2grid((6,4),(0,0), rowspan=6, colspan = 4)
            else:
                if topIndicator != "none" and bottomIndicator != "none":
                    # Main Graph
                    a = plt.subplot2grid((6,4), (1,0), rowspan = 3, colspan = 4)
                    a2 = plt.subplot2grid((6,4), (4,0), sharex = a, rowspan = 1, colspan = 4)
                    # Bottom Indicator
                    a3 = plt.subplot2grid((6,4), (5,0), sharex = a, rowspan = 1, colspan = 4)
                    a0 = plt.subplot2grid((6,4), (0,0), sharex = a, rowspan = 1, colspan = 4)
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a = plt.subplot2grid((6,4), (1,0), rowspan = 4, colspan = 4)
        # Volume
        a2 = plt.subplot2grid((6,4), (5,0), sharex = a, rowspan = 1, colspan = 4)
        # Top Indicator
        a0 = plt.subplot2grid((6,4), (0,0), sharex = a, rowspan = 1, colspan = 4)
    elif bottomIndicator != "none":
        # Main Graph
        a = plt.subplot2grid((6,4), (0,0), rowspan = 4, colspan = 4)
        # Volume
        a2 = plt.subplot2grid((6,4), (4,0), sharex = a, rowspan = 1, colspan = 4)
        # Bottom Indicator
        a3 = plt.subplot2grid((6,4), (5,0), sharex = a, rowspan = 1, colspan = 4)
    else:
        # Main Graph
        a = plt.subplot2grid((6,4), (0,0), rowspan = 5, colspan = 4)
        # Volume
        a2 = plt.subplot2grid((6,4), (5,0), sharex = a, rowspan = 1, colspan = 4)
data = urllib.request.urlopen("http://seaofbtc.com/api/basic/price?key=1&tf="+DataPace
data = data.decode()
data = json.loads(data)
dateStamp = np.array(data[0]).astype("datetime64[s]")
dateStamp = dateStamp.tolist()
df = pd.DataFrame({'Datetime':dateStamp})
df['Price'] = data[1]
df['Volume'] = data[2]
df['Symbol'] = 'BTCUSD'
df['MPLDate'] = df['Datetime'].apply(lambda date: mdates.date2num(date.to_pydatetime())
df = df.set_index("Datetime")
OHLC = df['Price'].resample(resampleSize, how="ohlc")
OHLC = OHLC.dropna()
volumeData = df['Volume'].resample(resampleSize, how={'volume':'sum'})
OHLC["dateCopy"] = OHLC.index
OHLC["MPLDates"] = OHLC["dateCopy"].apply(lambda date: mdates.date2num(date.to_pydatet
del OHLC["dateCopy"]
volumeData["dateCopy"] = volumeData.index
volumeData["MPLDates"] = volumeData["dateCopy"].apply(lambda date: mdates.date2num(dat
del volumeData["dateCopy"]
priceData = OHLC['close'].apply(float).tolist()
a.clear()
if middleIndicator != "none":
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1+ eachMA[0] == "sma":
            sma = pd.rolling_mean(OHLC["close"], eachMA[1])
            label = str(eachMA[1]+" SMA")
            a.plot(OHLC["MPLDates"], sma, label=label)
        if eachMA[0] == "ema":
            ewma = pd.stats.moments.ewma
            label = str(eachMA[1]+" EMA")
            a.plot(OHLC["MPLDates"], ewma(OHLC["close"], eachMA[1]), label=label)
    a.legend(loc=0)
if topIndicator[0] == "rsi":
    rsiIndicator(priceData, "top")
elif topIndicator == "macd":
    try:
        computeMACD(priceData, location = "top")
    except Exception as e:
        print(str(e))
if bottomIndicator[0] == "rsi":
    rsiIndicator(priceData, "bottom")
elif bottomIndicator == "macd":
    try:
        computeMACD(priceData, location = "bottom")
    except Exception as e:
        print(str(e))
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except Exception as e:
                        print('failed in the non-tick animate:',str(e))
class SeaofBTCapp(tk.Tk):
   def __init__(self, *args, **kwargs):
       tk.Tk.__init__(self, *args, **kwargs)
       tk.Tk.wm_title(self, "Sea of BTC client")
       container = tk.Frame(self)
       container.pack(side="top", fill="both", expand = True)
       container.grid_rowconfigure(0, weight=1)
       container.grid_columnconfigure(0, weight=1)
       menubar = tk.Menu(container)
       filemenu = tk.Menu(menubar, tearoff=0)
       filemenu.add_command(label="Save settings", command = lambda: popupmsg("Not supported just yet!"))
       filemenu.add_separator()
       filemenu.add_command(label="Exit", command=quit)
       menubar.add_cascade(label="File", menu=filemenu)
       exchangeChoice = tk.Menu(menubar, tearoff=1)
       exchangeChoice.add_command(label="BTC-e",
                                   command=lambda: changeExchange("BTC-e", "btce"))
       exchangeChoice.add_command(label="Bitfinex",
                                   command=lambda: changeExchange("Bitfinex","bitfinex"))
       exchangeChoice.add_command(label="Bitstamp",
                                   command=lambda: changeExchange("Bitstamp","bitstamp"))
       exchangeChoice.add_command(label="Huobi",
                                   command=lambda: changeExchange("Huobi", "huobi"))
       menubar.add_cascade(label="Exchange", menu=exchangeChoice)
       dataTF = tk.Menu(menubar, tearoff=1)
       dataTF.add_command(label = "Tick",
                          command=lambda: changeTimeFrame('tick'))
       dataTF.add_command(label = "1 Day",
                          command=lambda: changeTimeFrame('1d'))
       dataTF.add_command(label = "3 Day",
                          command=lambda: changeTimeFrame('3d'))
       dataTF.add command(label = "1 Week",
                          command=lambda: changeTimeFrame('7d'))
       menubar.add_cascade(label = "Data Time Frame", menu = dataTF)
       OHLCI = tk.Menu(menubar, tearoff=1)
       OHLCI.add_command(label = "Tick",
                           command=lambda: changeTimeFrame('tick'))
       OHLCI.add_command(label = "1 minute",
                           command=lambda: changeSampleSize('1Min', 0.0005))
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OHLCI.add_command(label = "15 minute",
                   command=lambda: changeSampleSize('15Min', 0.008))
OHLCI.add_command(label = "30 minute",
                   command=lambda: changeSampleSize('30Min', 0.016))
OHLCI.add command(label = "1 Hour",
                   command=lambda: changeSampleSize('1H', 0.032))
OHLCI.add_command(label = "3 Hour",
                   command=lambda: changeSampleSize('3H', 0.096))
menubar.add_cascade(label="OHLC Interval", menu=OHLCI)
topIndi = tk.Menu(menubar, tearoff=1)
topIndi.add_command(label="None",
                    command = lambda: addTopIndicator('none'))
topIndi.add_command(label="RSI",
                    command = lambda: addTopIndicator('rsi'))
topIndi.add_command(label="MACD",
                    command = lambda: addTopIndicator('macd'))
menubar.add_cascade(label="Top Indicator", menu=topIndi)
mainI = tk.Menu(menubar, tearoff=1)
mainI.add_command(label="None",
                    command = lambda: addMiddleIndicator('none'))
mainI.add_command(label="SMA",
                    command = lambda: addMiddleIndicator('sma'))
mainI.add_command(label="EMA",
                    command = lambda: addMiddleIndicator('ema'))
menubar.add_cascade(label="Main/middle Indicator", menu=mainI)
bottomI = tk.Menu(menubar, tearoff=1)
bottomI.add_command(label="None",
                    command = lambda: addBottomIndicator('none'))
bottomI.add_command(label="RSI",
                    command = lambda: addBottomIndicator('rsi'))
bottomI.add_command(label="MACD",
                    command = lambda: addBottomIndicator('macd'))
menubar.add_cascade(label="Bottom Indicator", menu=bottomI)
tradeButton = tk.Menu(menubar, tearoff=1)
tradeButton.add_command(label = "Manual Trading",
                        command=lambda: popupmsg("This is not live yet"))
tradeButton.add_command(label = "Automated Trading",
                        command=lambda: popupmsg("This is not live yet"))
tradeButton.add separator()
tradeButton.add_command(label = "Quick Buy",
                        command=lambda: popupmsg("This is not live yet"))
tradeButton.add_command(label = "Quick Sell",
                        command=lambda: popupmsg("This is not live yet"))
tradeButton.add_separator()
tradeButton.add_command(label = "Set-up Quick Buy/Sell",
                        command=lambda: popupmsg("This is not live yet"))
```



```
Q
```

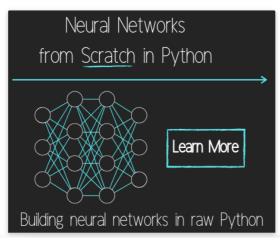
```
startStop = tk.Menu(menubar, tearoff = 1)
       startStop.add_command( label="Resume",
                               command = lambda: loadChart('start'))
       startStop.add command( label="Pause",
                               command = lambda: loadChart('stop'))
       menubar.add_cascade(label = "Resume/Pause client", menu = startStop)
       helpmenu = tk.Menu(menubar, tearoff=0)
       helpmenu.add_command(label="Tutorial", command=tutorial)
       menubar.add_cascade(label="Help", menu=helpmenu)
       tk.Tk.config(self, menu=menubar)
       self.frames = {}
       for F in (StartPage, BTCe_Page):
           frame = F(container, self)
           self.frames[F] = frame
           frame.grid(row=0, column=0, sticky="nsew")
       self.show_frame(StartPage)
       tk.Tk.iconbitmap(self, default="clienticon.ico")
   def show_frame(self, cont):
       frame = self.frames[cont]
       frame.tkraise()
class StartPage(tk.Frame):
   def __init__(self, parent, controller):
       tk.Frame.__init__(self,parent)
       label = tk.Label(self, text=("""ALPHA Bitcoin trading application
       use at your own risk. There is no promise
       of warranty."""), font=LARGE_FONT)
       label.pack(pady=10,padx=10)
       button1 = ttk.Button(self, text="Agree",
                            command=lambda: controller.show frame(BTCe Page))
       button1.pack()
       button2 = ttk.Button(self, text="Disagree",
                           command=quit)
       button2.pack()
```



```
det __init__(selt, parent, controller):
        tk.Frame.__init__(self, parent)
        label = tk.Label(self, text="Page One!!!", font=LARGE_FONT)
        label.pack(pady=10,padx=10)
        button1 = ttk.Button(self, text="Back to Home",
                            command=lambda: controller.show_frame(StartPage))
        button1.pack()
class BTCe_Page(tk.Frame):
   def __init__(self, parent, controller):
        tk.Frame.__init__(self, parent)
        label = tk.Label(self, text="Graph Page!", font=LARGE_FONT)
        label.pack(pady=10,padx=10)
        button1 = ttk.Button(self, text="Back to Home",
                            command=lambda: controller.show_frame(StartPage))
        button1.pack()
        canvas = FigureCanvasTkAgg(f, self)
        canvas.show()
        canvas.get_tk_widget().pack(side=tk.BOTTOM, fill=tk.BOTH, expand=True)
        toolbar = NavigationToolbar2TkAgg(canvas, self)
        toolbar.update()
        canvas._tkcanvas.pack(side=tk.TOP, fill=tk.BOTH, expand=True)
app = SeaofBTCapp()
|app.geometry("1280x720")
ani = animation.FuncAnimation(f, animate, interval=5000)
app.mainloop()
```

The next tutorial:

Graphing An OHLC Candlestick Graph Embedded In Our Tkinter GUI





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	Pulling data from the Sea of BTC API

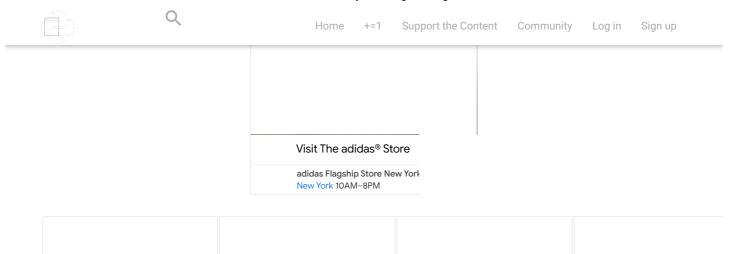
Setting up sub plots within our Tkinter GUI

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 $\ensuremath{\mathsf{cx_Freeze}}$



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