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Adding indicator Menus (3 videos)

Adding indicator menu - Tkinter tutorial Python 3.4 part 15



In this Tkinter tutorial, we're going to be adding the indicator menu options. Our goal is to allow the user to choose a "top" indicator, "middle" indicator, and "bottom" indicator. First we need to allow them to set the parameters for these, then we'll build the actual handling that will control the sub plots, data, and all of that. Let's get started!

This section of the tutorial is going to cover the next three videos. If you're following along using the videos, keep that in mind!



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That said, if you're comfortable with adding options by now, the actual amount of new content is relatively small.

First we need to add the new menu options, so just add the following under the OHLC interval options:

```
topIndi = tk.Menu(menubar, tearoff=1)
topIndi.add_command(label="None",
                    command=lambda: addTopIndicator('none'))
topIndi.add_separator()
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_separator()
mainI.add_command ( label="SMA",
                   command=lambda: addMiddleIndicator('sma')
mainI.add_command ( label="EMA",
                   command=lambda: addMiddleIndicator('ema')
menubar.add_cascade(label = "Main Graph Indicator", menu = mainI)

bottomI = tk.Menu(menubar, tearoff=1)
bottomI.add_command ( label="None",
                    command=lambda: addBottomIndicator('none')
```



```
command=lambda: addBottomIndicator('rsi')
bottomI.add_command(label="MACD",
                    command=lambda: addBottomIndicator('macd')
menubar.add_cascade(label="Bottom Indicator", menu=bottomI)
```

Why you're not losing weight

WAKE UP TIME	6 AM	7 AM	8 AM	AGE	18-25	26-35	36+
DAILY MEALS	1	2	3	4+	DAILY WATER INTAKE		
HOURS OF SLEEP	<input type="range" value="7"/>			YOUR BMI	40+	30+	25-
AGE	18-25	26-35	36-55	56+	FASTING SCHEDULE	16:8	12:12

Now, at the top, define the following new global variables:

Why you're not losing weight

WAKE UP TIME	6 AM	7 AM	8 AM	AGE	18-25	26-35	36+
DAILY MEALS	1	2	3	4+	DAILY WATER INTAKE		
HOURS OF SLEEP	<input type="range" value="7"/>			YOUR BMI	40+	30+	25-
AGE	18-25	26-35	36-55	56+	FASTING SCHEDULE	16:8	12:12

```
topIndicator = "none"
bottomIndicator = "none"
middleIndicators = "none"
EMAs = []
SMAs = []
```

Next, we're going to add the indicator functions to the top of our script after the main global vars:

```
def addMiddleIndicator(what):
    global middleIndicator
```



```
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
```

```
            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=call
```

```
    b.pack()
```

```
    tk.mainloop()
```

```
if what == "ema":
```

```
    midIQ = tk.Tk()
```

```
    #midIQ.wm_title("Periods?")
```

```
    label = ttk.Label(midIQ, text="Choose how many periods you
```

```
    label.pack(side="top", fill="x", pady=10)
```

```
    e = ttk.Entry(midIQ)
```

```
    e.insert(0,10)
```

```
    e.pack()
```

```
    e.focus_set()
```



```
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=call
```

```
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
```

```
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()
```



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
    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=call
    b.pack()
    tk.mainloop()

```

```

else:

```

```

    middleIndicator = "none"

```

```

def addTopIndicator(what):
    global topIndicator

```



```

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 ea
    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

        periods = (e.get())
        group = []
        group.append("rsi")
        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 ea
        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":
```




bottomIndicator = "macd"

DatCounter = 9000

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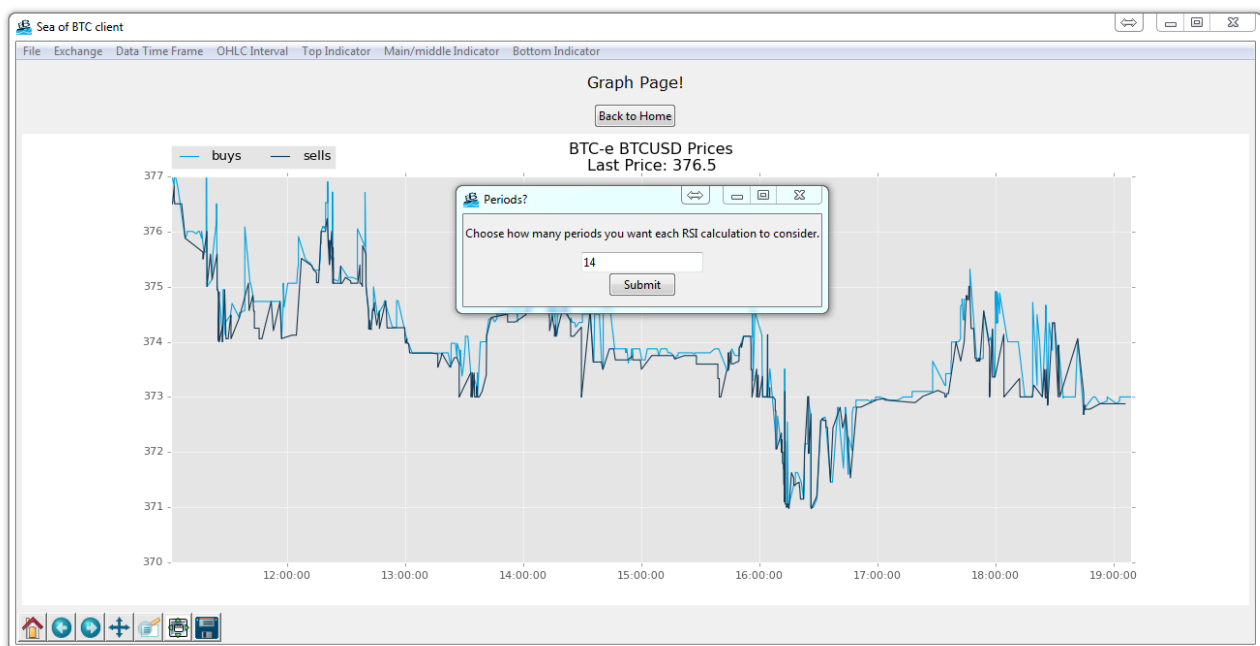
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So now we've got the functions for our indicators. For something like MACD (moving average convergence divergence), we aren't going to let the user change the time frames. For EMA, SMA, and RSI, we want to allow the user to choose parameters, so those will come with a popup window that allows the user to then fill in the blank for the number of their choice for time-frame windows.

The current result should be something like this if you click on the RSI indicator option:



```
# The code for changing pages was derived from: http://stackoverflow.com/qu
# License: http://creativecommons.org/licenses/by-sa/3.0/
import matplotlib
matplotlib.use("TkAgg")
```



```
import matplotlib.animation as animation
```

```
from matplotlib import style
```

```
import tkinter as tk
```

```
from tkinter import ttk
```

```
import urllib
```

```
import json
```

```
import pandas as pd
```

```
import numpy as np
```

```
from matplotlib import pyplot as plt
```

```
LARGE_FONT= ("Verdana", 12)
```

```
NORM_FONT= ("Verdana", 10)
```

```
SMALL_FONT= ("Verdana", 8)
```

```
style.use("ggplot")
```

```
f = Figure()
```

```
a = f.add_subplot(111)
```

```
exchange = "BTC-e"
```

```
DatCounter = 9000
```

```
programName = "btce"
```

```
resampleSize = "15Min"
```

```
DataPace = "1d"
```

```
candleWidth = 0.008
```

```
topIndicator = "none"
```

```
bottomIndicator = "none"
```

```
middleIndicator = "none"
```

```
EMAs = []
```

```
SMAs = []
```

```
def addMiddleIndicator(what):
```

```
    global middleIndicator
```

```
    global DatCounter
```



popupmsg("Indicators in Tick Data not available.")

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```
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
```

```
            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=call
```

```
    b.pack()
```

```
    tk.mainloop()
```

```
if what == "ema":
```

```
    midIQ = tk.Tk()
```

```
    #midIQ.wm_title("Periods?")
```

```
    label = ttk.Label(midIQ, text="Choose how many periods you
```

```
    label.pack(side="top", fill="x", pady=10)
```

```
    e = ttk.Entry(midIQ)
```

```
    e.insert(0,10)
```

```
    e.pack()
```

```
    e.focus_set()
```



global DatCounter

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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=call

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

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=call


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```

if what == "ema":
    midIQ = tk.Tk()
    midIQ.wm_title("Periods?")
    label = ttk.Label(midIQ, text="Choose how many periods you
    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=call
    b.pack()
    tk.mainloop()

else:
    middleIndicator = "none"

```

```

def addTopIndicator(what):
    global topIndicator
    global DatCounter

```



popupmsg("Indicators in Tick Data not available.")

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```
elif what == "none":
```

```
    topIndicator = what
```

```
    DatCounter = 9000
```

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```
elif what == "rsi":
```

```
    rsiQ = tk.Tk()
```

```
    rsiQ.wm_title("Periods?")
```

```
    label = ttk.Label(rsiQ, text = "Choose how many periods you want ea
```

```
    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
```

```
    periods = (e.get())
```

```
    group = []
```

```
    group.append("rsi")
```

```
    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
```



global bottomIndicator

global DatCounter

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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 ea

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

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```
def changeTimeFrame(tf):
    global DataPace
    global DatCounter
    if tf == "7d" and resampleSize == "1Min":
        popupmsg("Too much data chosen, choose a smaller time frame or high
    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 high

    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
```




```
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):
    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)
```


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```
class SeaofBTCapp(tk.Tk): Log in Sign up

    def __init__(self, *args, **kwargs):

        tk.Tk.__init__(self, *args, **kwargs)

        tk.Tk.iconbitmap(self, default="clienticon.ico")
        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: popup)
        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", "
exchangeChoice.add_command(label="Bitfinex",
                                   command=lambda: changeExchange("Bitfinex
exchangeChoice.add_command(label="Bitstamp",
                                   command=lambda: changeExchange("Bitstamp
exchangeChoice.add_command(label="Huobi",
                                   command=lambda: changeExchange("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('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))
OHLCI.add_command(label = "5 minute",
                  command=lambda: changeSampleSize('5Min', 0.003))
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",

```



menubar.add_cascade(label="Main/middle Indicator", menu=mainI)

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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)

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)

def show_frame(self, cont):

frame = self.frames[cont]

frame.tkraise()

class StartPage(tk.Frame):

def __init__(self, parent, controller):



use at your own risk. There is no promise
of warranty."""), font=LARGE_FONT)

label.pack(pady=10, padx=10)

Log in Sign up

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()

class PageOne(tk.Frame):

def __init__(self, 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.show()
canvas.get_tk_widget().pack(side=tk.BOTTOM, fill=tk.BOTH, expand=True)

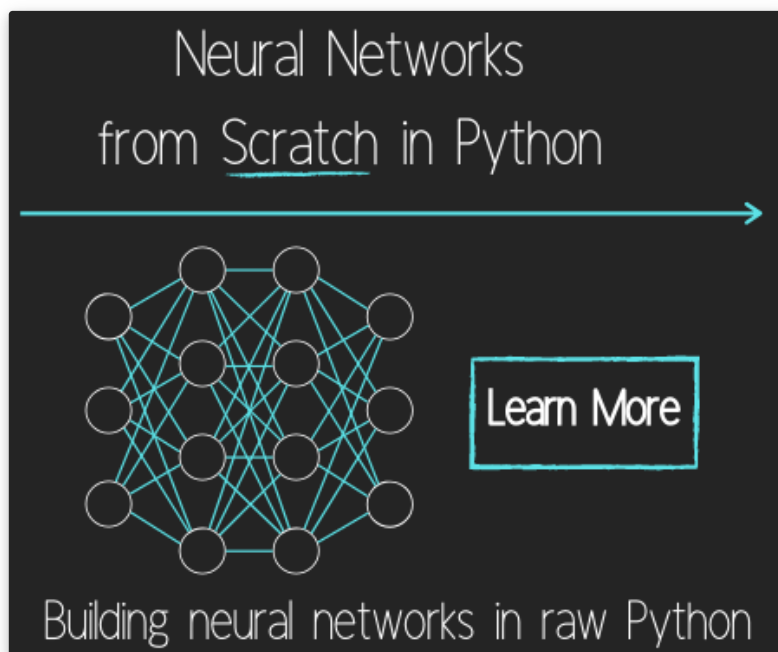
toolbar = NavigationToolbar2TkAgg(canvas, self)
toolbar.update()
canvas._tkcanvas.pack(side=tk.TOP, fill=tk.BOTH, expand=True)

app = SeaofBTCapp()
app.geometry("1280x720")
ani = animation.FuncAnimation(f, animate, interval=5000)
app.mainloop()

```

The next tutorial:

Trading Option, Start/Stop, And Help Menu Options



Programming GUIs and windows with Tkinter and Python Introduction

Object Oriented Programming Crash Course with Tkinter



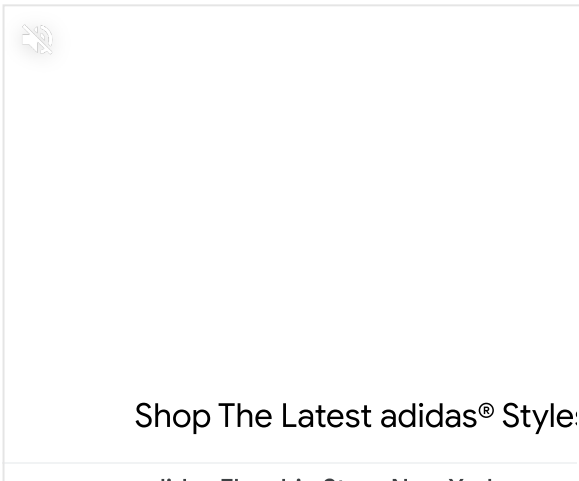
How to change and show a new window in Tkinter	Home	+1	Support the Content	Community
Styling your GUI a bit using TTK	Log in	Sign up		
How to embed a Matplotlib graph to your Tkinter GUI				
How to make the Matplotlib graph live in your application				
Organizing our GUI				
Plotting Live Updating Data 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				

Adding indicator Menus (3 videos)

Trading option, start/stop, and help menu options
Tutorial on adding a tutorial
Allowing the exchange choice option to affect actual shown exchange
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



Acquiring RSI data from Sea of BTC API	Home	+ = 1	Support the Content	Community
Acquiring MACD data from Sea of BTC API	Log in	Sign up		
Converting Tkinter application to .exe and installer with cx_Freeze				



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