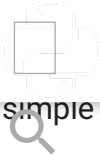


Creating our Main Menu in Tkinter

Creating our GUI Main Menu - Tkinter tutorial Python 3.4 part 11





simple menu bar to act as our main menu.

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To start off, however, we want to make a quick modification to how we're displaying our chart.

Now, we want to add another import: [Sign up](#)

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

Then, instead of `f=Figure`, we want to do:

```
f = plt.figure()
```

Now that we have that out of the way, let's make that menu bar.

Within the `SeaofBTCapp` class, we want to add the following after our container:

```
menubar = tk.Menu(container)
filemenu = tk.Menu(menubar, tearoff=0)
filemenu.add_command(label="Save settings", command=lambda: popups
filemenu.add_separator()
filemenu.add_command(label="Exit", command=quit)
menubar.add_cascade(label="File", menu=filemenu)

tk.Tk.config(self, menu=menubar)
```

Above, we're defining the menu bar, then we're adding a menu item (filemenu). From there, we build the filemenu items, then, when we're all done with all of that, we add this to our GUI.



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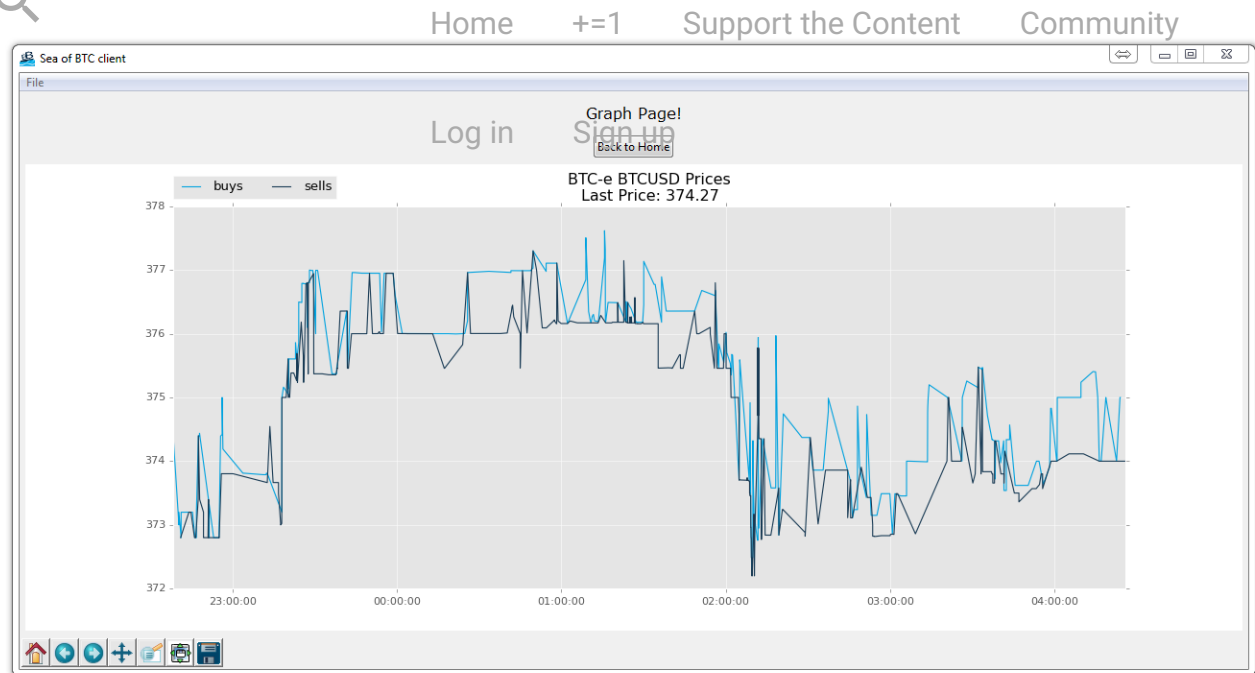
It takes less than 30 seconds (and you can do it right at home)...

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Finally, at the end of our script, after we've defined `app`, we want to do:



The end result should be.



With that, your code should look like:

```
# 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")
from matplotlib.backends.backend_tkagg import FigureCanvasTkAgg, Navigation
from matplotlib.figure import Figure
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)
style.use("ggplot")
```



`a = f.add_subplot(111)`

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```
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)
```

```
class SeaofBTCapp(tk.Tk):
```

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

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

```
        tk.Tk.iconbitmap(self, default="clienticon.ico")
```



container = tk.Frame(self)+=1 Support the Content Community
 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)

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):
 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)



command=**lambda**: controller.show_frame(**BTcE_Page**

button1.pack() Home +=1 Support the Content Community

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 = **FigureCanvasTkAgg**(f, **self**)

canvas.show()

canvas.get_tk_widget().pack(side=tk.BOTTOM, fill=tk.BOTH, expand=Tr



```
canvas._tkcanvas.pack(side=tk.TOP, fill=tk.BOTH, expand=True)
```

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```
app = SeaofBTCapp()
```

```
app.geometry("1280x720")
```

```
ani = animation.FuncAnimation(f, animate, interval=5000)
```

```
app.mainloop()
```

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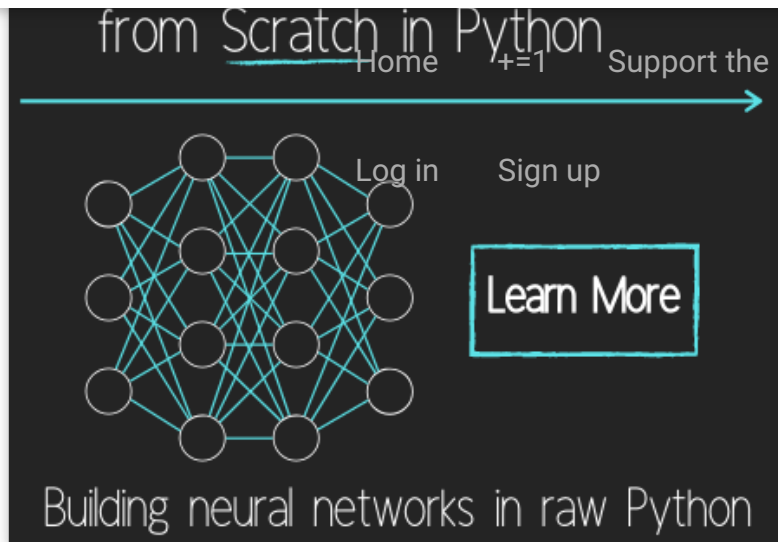
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