

Converting Tkinter application to .exe and installer with cx_Freeze

Converting tkinter to exe tutorial with cx_Freeze - Python 3.4 part 29



setup.py code:

```
import cx_Freeze
import sys
import matplotlib

base = None

if sys.platform == 'win32':
    base = "Win32GUI"

executables = [cx_Freeze.Executable("tkinterVid28.py", base=base, icon="cli")
```

```
options = {"build_exe": {"packages":["tkinter","matplotlib"], "include_
version = "0.01", Home +=1 Support the Content Community
  description = "Sea of BTC trading application",
  executables = executables in Sign up
)
```

The icon if you don't have it:



Saved as tkinterVid28.py:

```
# 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 numpy import arange, sin, pi
from matplotlib.backends.backend tkagg import FigureCanvasTkAgg, Navigation
from matplotlib.figure import Figure
import matplotlib.dates as mdates
import matplotlib.ticker as mticker
from matplotlib.finance import candlestick ohlc
import tkinter as tk
from tkinter import ttk
from matplotlib import style
import urllib
import json
import pandas as pd
import numpy as np
from matplotlib import pyplot as plt
style.use('ggplot')
```

```
LAKGE_FUNI= ("Verdana", 12)
NORM_FONT = ("Helvetica", 110)ne
                                  +=1 Support the Content Community
SMALL_FONT = ("Helvetica", 8)
                          Log in Sign up
f = plt.figure()
a = f.add_subplot(111)
exchange = "BTC-e"
DatCounter = 9000
programName = "btce"
resampleSize = "15Min"
##############################
## set this to 1day.
DataPace = "1d"
###################################
paneCount = 1
candleWidth = 0.008
topIndicator = "none"
bottomIndicator = "none"
middleIndicator = "none"
chartLoad = True
EMAs = []
SMAs = []
darkColor = '#183A54'
lightColor = '#00A3E0'
def tutorial():
    def leavemini(what):
```

```
det page2():
    leavemini(tut)
                     Home
                                    Support the Content Community
                             +=1
    tut2 = tk.Tk()
    def leavemini2(what);
in
                              Sign up
       what.destroy()
    def page3():
        leavemini2(tut2)
        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()
    tut.mainloop()
tut = tk.Tk()
tut.wm_title("Tutorial")
label = ttk.Label(tut, text="What do you need help with?", font=NORM_FO
label.pack(side="top", fill="x", pady=10)
B1 = ttk.Button(tut, text = "Overview of the application", command = pa
B1.pack()
B2 = ttk.Button(tut, text = "How do I trade here?", command=lambda: pop
B2.pack()
B3 = ttk.Button(tut, text = "Indicator questions/help", command=lambda:
B3.pack()
```

```
Home
                                        Support the Content Community
                                  +=1
def loadChart(run):
                          Log in
                                  Sign up
    global chartLoad
    if run == 'start':
        chartLoad = True
   elif run == 'stop':
        chartLoad = False
def addTopIndicator(what):
    global topIndicator
    global DatCounter
    if DataPace == "tick":
        popupmsg("Indicators in Tick Data not available, choose 1 minute tf
    if 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
        label.pack(side="top", fill="x", pady=10)
        e = ttk.Entry(rsiQ)
        e.insert(0,14)
        e.pack()
        e.focus_set()
        def callback():
```



```
periods = (e.get())
            group = []
                         Home
                                 +=1
                                        Support the Content Community
            group.append("rsi")
            group.append(periods) Sign up
            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 addMiddleIndicator(what):
    global middleIndicator
    global DatCounter
    if DataPace == "tick":
        popupmsg("Indicators in Tick Data not available, choose 1 minute tf
    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():
```

```
middleIndicator = ||
            periodsome(e.get()) Support the Content Community
            group = []
            group.append("sma")p
            group.append(int(periods))
            middleIndicator.append(group)
            DatCounter = 9000
            print("mid indicator", 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()
        def callback():
            global middleIndicator
            global DatCounter
            middleIndicator = []
            periods = (e.get())
            group = []
            group.append("ema")
            group.append(int(periods))
            middleIndicator.append(group)
            DatCounter = 9000
            print("mid indicator", middleIndicator)
            midIQ.destroy()
        b = ttk.Button(midIQ, text="Submit", width=10, command=call
        b.pack()
        tk.mainloop()
else:
    if what == "sma":
        midIQ = tk.Tk()
```



```
label.pack(side="top", till="x", pady=10)
    e = ttk.Entroy(midIQ)1 Support the Content Community
    e.insert(0,10)
   e.pack() Log in
                      Sian up
    e.focus set()
    def callback():
        global middleIndicator
        global DatCounter
        periods = (e.get())
        group = []
        group.append("sma")
        group.append(int(periods))
        middleIndicator.append(group)
        DatCounter = 9000
        print("mid indicator", 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()
    def callback():
        global middleIndicator
        global DatCounter
        periods = (e.get())
        group = []
        group.append("ema")
        group.append(int(periods))
        middleIndicator.append(group)
        DatCounter = 9000
        print("mid indicator", middleIndicator)
        midIQ.destroy()
    b = ttk.Button(midIQ, text="Submit", width=10, command=call
    b.pack()
```



```
middleIndicator = "none"
                          Home
                                        Support the Content Community
                                  +=1
                          Log in
                                 Sign up
def addBottomIndicator(what):
   global bottomIndicator
    global DatCounter
    if DataPace == "tick":
        popupmsg("Indicators in Tick Data not available, choose 1 minute tf
    if 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
        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 top indicator to",group)
            rsiQ.destroy()
        b = ttk.Button(rsiQ, text="Submit", width=10, command=callback)
        b.pack()
```

```
ellt what == "macd":
        global bottomIndidatore
                                        Support the Content Community
                                  +=1
        global DatCounter
        bottomIndicator = "macd"
                                  Sign up
        DatCounter = 9000
def changeTimeFrame(tf):
   global DataPace
   global DatCounter
    if tf == '7d' and resampleSize == '1Min':
        popupmsg("Too much data chosen, choose a smaller data time frame or
    else:
        DataPace = tf
        DatCounter = 9000
def changeSampleSize(size,width):
    global resampleSize
    global DatCounter
    global candleWidth
    if DataPace == '7d' and size == '1Min':
        popupmsg("Too much data chosen, choose a smaller Data Time Frame or
    if DataPace == 'tick':
        popupmsg("You are currently viewing tick data, not OHLC. Choose a 1
    else:
        resampleSize = size
        DatCounter = 9000
        candleWidth = width
def popupmsg(msg):
    popup = tk.Tk()
   def leavemini():
       popup.destroy()
    popup.wm_title("!")
```

```
label.pack(side="top", fill="x", pady=10)
   B1 = ttk.Button(popup,Hotenet = "Đkay",Suppromande €oleavemin©)mmunity
   B1.pack()
                        Log in
                                Sign up
   popup.mainloop()
def changeExchange(toWhat,pn):
   global exchange
   global DatCounter
   global programName
   exchange = toWhat
   programName = pn
   DatCounter = 9000
def animate(i):
   global refreshRate
   global DatCounter
def computeMACD(x, slow=26, fast=12,location="bottom"):
       .....
       compute the MACD (Moving Average Convergence/Divergence) using a fa
       return value is emaslow, emafast, macd which are len(x) arrays
       values = {'key': 1,'prices':x}
       url = "http://seaofbtc.com/api/indicator/macd"
       data = urllib.parse.urlencode(values)
       data = data.encode('utf-8')
       req = urllib.request.Request(url, data)
       resp = urllib.request.urlopen(req)
       respData = resp.read()
       newData = str(respData).replace("b","").replace('[','').replace(']'
       #print(newData)
       split = newData.split('::')
       macd = split[0]
```

```
Q
```

```
macd = macd.split(HgmHe) +=1 Support the Content Community
ema9 = ema9.split(", ")
hist = hist.split(" ") Sign up
try:
    macd = [float(i) for i in macd]
except Exception as e:
    print(str(e)+" macd")
try:
    ema9 = [float(i) for i in ema9]
except Exception as e:
    print(str(e)+" ema9")
try:
    hist = [float(i) for i in hist]
except Exception as e:
    print(str(e)+" hist")
print("call!!!")
if location == "top":
    try:
        a0.plot(OHLC['MPLDates'][fast:], macd[fast:], color=darkCol
        a0.plot(OHLC['MPLDates'][fast:], ema9[fast:], color=lightCo
        a0.fill between(OHLC['MPLDates'][fast:], hist[fast:], 0, al
        datLabel = "MACD"
        a0.set_ylabel(datLabel)
    except Exception as e:
        print(str(e))
        topIndicator = "none"
elif location == "bottom":
    try:
```

```
a3.fill between(OHLC|'MPLDates'||fast:|, hist|fast:|, 0, al
               datLabel =HÖMMA€D" +=1
                                      Support the Content Community
               a3.set ylabel(datLabel)
           except Exception as e: Sign up
               print(str(e))
               bottomIndicator = "none"
def rsiIndicator(priceData,location="top"):
       if location == "top":
           values = {'key': 1,'prices':priceData,'periods':topIndicator[1]
       elif location == "bottom":
           values = {'key': 1,'prices':priceData,'periods':bottomIndicator
       url = "http://seaofbtc.com/api/indicator/rsi"
       data = urllib.parse.urlencode(values)
       data = data.encode('utf-8')
       req = urllib.request.Request(url, data)
       resp = urllib.request.urlopen(req)
       respData = resp.read()
       newData = str(respData).replace("b","").replace('[','').replace(']'
       priceList = newData.split(', ')
       rsiData = [float(i) for i in priceList]
       print("call!!!")
       if location == "top":
           a0.plot date(OHLC['MPLDates'], rsiData,lightColor, label ="RSI"
           datLabel = "RSI("+str(topIndicator[1])+")"
           a0.set ylabel(datLabel)
       elif location == "bottom":
           a3.plot date(OHLC['MPLDates'], rsiData,lightColor, label ="RSI"
           datLabel = "RSI("+str(bottomIndicator[1])+")"
           a3.set ylabel(datLabel)
```



```
def moving_average(x, Ingorteype='simpl@upport the Content Community
    x = np.asarray(x)_{log in}
                              Sian up
    if type=='simple':
        weights = np.ones(n)
    else:
        weights = np.exp(np.linspace(-1, 0, n))
    weights /= weights.sum()
         np.convolve(x, weights, mode='full')[:len(x)]
    return a
if chartLoad:
    if paneCount == 1:
        if DataPace == "tick":
            try:
                if exchange == "BTC-e":
                    a = plt.subplot2grid((6,4), (0,0), rowspan=5, colsp
                    a2 = plt.subplot2grid((6,4), (5,0), rowspan=1, cols
                    dataLink = 'https://btc-e.com/api/3/trades/btc usd?
                    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']).ast
                    allDates = data["datestamp"].tolist()
                    buys = data[(data['type']=='bid')]
                    buyDates = (buys["datestamp"]).tolist()
                    sells = data[(data['type']=='ask')]
                    sellDates = (sells["datestamp"]).tolist()
```

```
a.clear()
                    Support the Content Community
     Home
             +=1
   a.plot_date(buyDates,buys["price"], lightColor, lab
    a.plot_date(sellDates,sells["price"], darkColor, la
   a2.fill between(allDates,0, volume, facecolor='#183
   a.xaxis.set major locator(mticker.MaxNLocator(5))
   a.xaxis.set_major_formatter(mdates.DateFormatter('%
    plt.setp(a.get xticklabels(), visible=False)
   a.legend(bbox to anchor=(0., 1.02, 1., .102), loc=3
             ncol=2, borderaxespad=0.)
   title = 'Last Price: '+str(data["price"][1999])
   a.set title(title)
if exchange == 'Bitstamp':
   a = plt.subplot2grid((6,4), (0,0), rowspan=5, colsp
   a2 = plt.subplot2grid((6,4), (5,0), rowspan=1, cols
   dataLink = 'https://www.bitstamp.net/api/transactio
   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
   datestamps = data["datestamp"].tolist()
   volume = data["amount"].apply(float).tolist()
   a.clear()
   a.plot date(datestamps,data["price"], '#183A54')
```

a2.fill_between(datestamps,0, volume, facecolor='#1

```
plt.setp(a.get xticklabels(), visible=False)
                    Support the Content
                                       Community
   title = exchange+' Tick Data\nLast Price: '+str(dat
    a.set_title(title)
    priceData = data["price"].apply(float).tolist()
if exchange == 'Bitfinex':
    a = plt.subplot2grid((6,4), (0,0), rowspan=5, colsp
   a2 = plt.subplot2grid((6,4), (5,0), rowspan=1, cols
   dataLink = 'https://api.bitfinex.com/v1/trades/btcu
   data = urllib.request.urlopen(dataLink)
   data = data.readall().decode('utf-8')
   data = json.loads(data)
   data = pd.DataFrame(data)
   volume = data["amount"].apply(float).tolist()
   data["datestamp"] = np.array(data['timestamp']).ast
    allDates = data["datestamp"].tolist()
   buys = data[(data['type']=='buy')]
   buyDates = (buys["datestamp"]).tolist()
    sells = data[(data['type']=='sell')]
    sellDates = (sells["datestamp"]).tolist()
   a.clear()
    a.plot_date(buyDates,buys["price"], lightColor, lab
   a.plot_date(sellDates,sells["price"], darkColor, la
   a2.fill between(allDates,0, volume, facecolor='#183
   a.xaxis.set major locator(mticker.MaxNLocator(5))
   a.xaxis.set_major_formatter(mdates.DateFormatter('%)
    plt.setp(a.get xticklabels(), visible=False)
    a.legend(bbox to anchor=(0., 1.02, 1., .102), loc=3
```

```
title = exchange+' lick Data\nLast Price: '+str(dat)
   a .lsetnetitle(title)upport the Content Community
    priceData = data["price"].apply(float).tolist()
     Log in
             Sign up
if exchange == 'Huobi':
   try:
       a = plt.subplot2grid((6,4), (0,0), rowspan=6, c
       data = urllib.request.urlopen('http://seaofbtc.
       data = str(data).replace('b','').replace("'",''
       data = json.loads(data)
       dateStamp = np.array(data[0]).astype('datetime6
        dateStamp = dateStamp.tolist()
        print('here')
       df = pd.DataFrame({'Datetime':dateStamp})
       df['Price'] = data[1]
       df['Volume'] = data[2]
       df['Symbol'] = "BTCUSD"
       df['MPLDate'] = df['Datetime'].apply(lambda dat
       df = df.set_index('Datetime')
       lastPrice = df['Price'][-1]
       a.plot date(df['MPLDate'][-4500:],df['Price'][-
        a.xaxis.set_major_locator(mticker.MaxNLocator(5
       a.xaxis.set major formatter(mdates.DateFormatte
       title = exchange+' Tick Data\nLast Price: '+str
        a.set title(title)
        priceData = df['Price'].apply(float).tolist()
    except Exception as e:
```

```
Support the Content Community
                        Home
                                +=1
               except Exception as e:
                   print("failed", str(e))
                  DatCounter = 9000
else:
               if DatCounter > 12:
                   try:
                      if exchange == 'Huobi':
                          if topIndicator != "none":
                              a = plt.subplot2grid((6,4), (1,0), rowspan=
                              a0 = plt.subplot2grid((6,4), (0,0), sharex=
                          else:
                              a = plt.subplot2grid((6,4), (0,0), rowspan=
                      else:
                          if topIndicator != "none" and bottomIndicator !
                              # actual price chart.
                              a = plt.subplot2grid((6,4), (1,0), rowspan=
                              # volume!
                              a2 = plt.subplot2grid((6,4), (4,0), sharex=
                              # top indicator
                              a0 = plt.subplot2grid((6,4), (0,0), sharex=
                              # bottom indicator
                              a3 = plt.subplot2grid((6,4), (5,0), sharex=
                          elif topIndicator != "none":
                              a = plt.subplot2grid((6,4), (1,0), rowspan=
                              a2 = plt.subplot2grid((6,4), (5,0), sharex=
                              a0 = plt.subplot2grid((6,4), (0,0), sharex=
                          elif bottomIndicator != "none":
                              a = plt.subplot2grid((6,4), (0,0), rowspan=
                              a2 = plt.subplot2grid((6,4), (4,0), sharex=
                              \#a0 = plt.subplot2grid((6,4), (0,0), sharex
                              a3 = plt.subplot2grid((6,4), (5,0), sharex=
                          else:
```

```
Home
                Support the Content Community
print('http://seaofbtc.com/api/basic/price?key=1&tf
data = urllib.request.urlopen('http://seaofbtc.com/
data = str(data).replace('b','').replace("'",'')
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: m
df = df.set_index('Datetime')
OHLC = df['Price'].resample(resampleSize, how='ohl
OHLC = OHLC.dropna()
volumeData = df['Volume'].resample(resampleSize, ho
OHLC['dateCopy'] = OHLC.index
OHLC['MPLDates'] = OHLC['dateCopy'].apply(lambda da
del OHLC['dateCopy']
volumeData['dateCopy'] = volumeData.index
volumeData['MPLDates'] = volumeData['dateCopy'].app
del volumeData['dateCopy']
priceData = OHLC['close'].apply(float).tolist()
a.clear()
if middleIndicator != "none":
```



```
Home if+eachMA[@port#th's nabhtent
                                    Community
            sma = pd.rolling_mean(OHLC["close"],eac
          Sidabel = str(eachMA[1])+" SMA"
 Log in
            a.plot(OHLC['MPLDates'],sma, label=labe
        if eachMA[0] == "ema":
            ewma = pd.stats.moments.ewma
            label = str(eachMA[1])+" EMA"
            a.plot(OHLC['MPLDates'],ewma(OHLC["clos
    a.legend(loc=0)
if topIndicator[0] == "rsi":
    rsiIndicator(priceData, "top")
elif topIndicator == "macd":
    try:
        computeMACD(priceData,location="top")
    except:
        print("failed macd")
if bottomIndicator[0] == "rsi":
    rsiIndicator(priceData, "bottom")
elif bottomIndicator == "macd":
    try:
        computeMACD(priceData,location="bottom")
    except:
        print("failed macd")
```

```
1† exchange != 'Huob1':
 Hom2e.fill=betweerp(xxx1.thmeDatra@hMPLD@tesh]yr0ty volum
    a2.set_ylabel("volume")
 Log in
         Sign up
a.xaxis.set major locator(mticker.MaxNLocator(3))
a.xaxis.set_major_formatter(mdates.DateFormatter('%
plt.setp(a.get xticklabels(), visible=False)
if topIndicator != "none":
    plt.setp(a0.get_xticklabels(), visible=False)
if bottomIndicator != "none":
    plt.setp(a2.get xticklabels(), visible=False)
x = (len(OHLC['close']))-1
if DataPace == '1d':
   title = exchange+' 1 Day Data with '+resampleSi
if DataPace == '3d':
   title = exchange+' 3 Day Data with '+resampleSi
if DataPace == '7d':
   title = exchange+' 7 Day Data with '+resampleSi
if topIndicator != "none":
    a0.set title(title)
else:
```

a.set_title(title)

print('NewGraph!')

DatCounter = 0

```
Home +=1 Support the Content Community

else:

DatCounter += 1
Sign up
```

```
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: popupms
        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','b
        exchangeChoice.add command ( label="Bitfinex",
                                  command=lambda: changeExchange('Bitfinex'
        exchangeChoice.add_command ( label="Bitstamp",
                                  command=lambda: changeExchange('Bitstamp'
        exchangeChoice.add_command ( label="Huobi",
```



```
Home
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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)
OHLCI.add_command ( label="5 minute",
                          command=lambda: changeSampleSize('5Min',0)
OHLCI.add command ( label="15 minute",
                          command=lambda: changeSampleSize('15Min',
OHLCI.add command ( label="30 minute",
                          command=lambda: changeSampleSize('30Min',
OHLCI.add command ( label="1 Hour",
                          command=lambda: changeSampleSize('1H',0.0
OHLCI.add command ( label="3 Hour",
                          command=lambda: changeSampleSize('3H',0.0
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 separator()
topIndi.add command ( label="RSI",
                          command=lambda: addTopIndicator('rsi'))
topIndi.add command ( label="MACD",
                          command=lambda: addTopIndicator('macd'))
```

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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'
bottomI.add separator()
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: print('NOT live yet'))
tradeButton.add separator()
tradeButton.add_command ( label="Automated Trading",
                          command=lambda: print('NOT live yet'))
tradeButton.add separator()
tradeButton.add command ( label="Quick Buy",
                          command=lambda: print('quick buy!'))#, ac
tradeButton.add command ( label="Quick Sell",
                          command=lambda: print('quick sell'))#, ac
tradeButton.add separator()
tradeButton.add command ( label="Set-up Quick Buy/Sell",
                          command=lambda: print('quick buy!'))
```

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        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)
```

your API keys into the program. We, as in Sea of BIC, never see your API information. The programo malye saveethem locally it howeve to make things easier on you. Keep in mind that it is a fantastic i to enable 'IP Whitelisting' if your exchange supports it, and only trading via your specific IP address. On most exchanges, even if so was to acquire your API key, withdrawals are not possible. Some sti give the option, so make sure this is turned OFF if your exchange a

Sea of BTC makes no promise of warranty, satisfaction, performance, anything else. Understand that your use of this client is completel at your own risk."", font=LARGE_FONT)

```
label.pack(side="top", fill="x", pady=10)
        button1 = ttk.Button(self, text="Agree",
                            command=lambda: controller.show_frame(BTCe_Page
        button2 = ttk.Button(self, text="Disagree",
                            command=quit)
        button1.pack()
        button2.pack()
class BTCe_Page(tk.Frame):
    def __init__(self, parent, controller):
        tk.Frame. init (self, parent)
        label = ttk.Label(self, text="BTC-e Exchange Page", font=LARGE FONT
        label.pack(pady=10,padx=10)
        canvas = FigureCanvasTkAgg(f, self)
        canvas.show()
        canvas.get_tk_widget().pack(side=tk.TOP, fill=tk.BOTH, expand=1)
        toolbar = NavigationToolbar2TkAgg( canvas, self )
        toolbar.update()
        canvas. tkcanvas.pack(side=tk.TOP, fill=tk.BOTH, expand=1)
```



There exists 1 challenge(s) for this tutorial. Sign Up To +=1 for access to these, video downloads, and no ads.

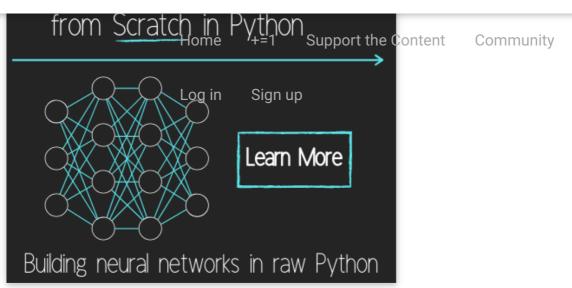
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Adding exchange choice cont'd

Adding exchange choices part 3

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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

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