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# -*- coding: utf-8 -*-
"""
可以繪出台灣所有股票的某年某月的股價圖
"""
import twstock
import csv
import pandas
import pandas_bokeh
import os

def _hit():

    nO=enteR.get()
    stock=twstock.Stock(nO)
    yeaR=enteR2.get()
    monthH=enteR3.get()
    fileName=nO+"-"+yeaR+"-"+monthH+".csv"

    if not os.path.isfile(fileName):
        data=stock.fetch(int(yeaR),int(monthH))

        csvFile=open(fileName,"w",newline="",encoding="utf-8-sig")
        writeR=csv.writer(csvFile)
        colName = ["日期","開盤價","最高價","最低價","收盤價"]
        writeR.writerow(colName)

        for vI in range(len(data)):
            datE=str(data[vI][0])
            datE=datE.split(" ")[0]
            opeN=str(data[vI][3])
            high=str(data[vI][4])
            low=str(data[vI][5])
            close=str(data[vI][6])
            writeR.writerow([datE,opeN,high,low,close])
        csvFile.close()

    pandas_bokeh.output_file("stockprice.html")

    dF=pandas.read_csv(fileName)
    title="廖美鳳-"+nO+"-"+yeaR+"年"+monthH+"月"+"的股價圖"

    if var.get()=="1":
        pp="line"
    elif var.get()=="2":
        pp="point"
    elif var.get()=="3":
        pp="step"

    dF.plot_bokeh(kind=pp,x="日期",y=["開盤價","最高價","最低價",'收盤價'],line_width=5,title=title,line_alpha=0.3,figsize=(1500,400),ylabel="價格")
    enteR.delete(0,tk.END)
    enteR2.delete(0,tk.END)
    enteR3.delete(0,tk.END)

import tkinter as tk

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wiN = tk.Tk()

wiN.title("Welcome 廖美鳳的股價圖!!!")

wiN.geometry("500x500+500+200")
wiN.configure(bg="red")

lbL = tk.Label(wiN, text="股票代號: ", fg="white", bg="green", font=("Arial", 16),
width=15, height=2)
lbL.pack()

enteR=tk.Entry(wiN, font=("Arial", 16), bd=5)
enteR.pack()

lbL2 = tk.Label(wiN, text="哪一年: ", fg="white", bg="green", font=("Arial", 16),
width=15, height=2)
lbL2.pack()

enteR2=tk.Entry(wiN, font=("Arial", 16), bd=5)
enteR2.pack()

lbL3 = tk.Label(wiN, text="哪一月: ", fg="white", bg="green", font=("Arial", 16),
width=15, height=2)
lbL3.pack()

enteR3=tk.Entry(wiN, font=("Arial", 16), bd=5)
enteR3.pack()

var = tk.StringVar()
myradiobutton1 = tk.Radiobutton(wiN, text='Line', font=("Arial",
16), variable=var, value=1, bg="yellow")
myradiobutton1.pack()

myradiobutton2 = tk.Radiobutton(wiN, text='Point', font=("Arial",
16), variable=var, value=2, bg="lime")
myradiobutton2.pack()

myradiobutton3 = tk.Radiobutton(wiN, text='Step', font=("Arial",
16), variable=var, value=3, bg="orange")
myradiobutton3.pack()
myradiobutton1.select()

btN = tk.Button(wiN, text="送出!!", font=("Arial", 16), width=10,
height=2, fg="white", bg="blue", command=_hit)
#btN.pack(side=tk.BOTTOM)
btN.pack()

lbL1= tk.Label(wiN, text=" 廖美鳳", bg="red", font=("Arial", 10), width=15,
height=2)
lbL1.pack()

wiN.mainloop()

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