

Date: 1/15/2018 Week2

This week

-Working on making a table in Python

1. Trying "texttable"

1.1 Downing the texttable 1.2.1

<https://pypi.python.org/pypi/texttable/1.2.1>

1.2 Trying some code in line

```
from texttable import Texttable, get_color_string, bcolors

table = Texttable()
table.set_cols_align(["l", "r", "c"])
table.set_cols_valign(["t", "m", "b"])
table.add_rows([ [get_color_string(bcolors.GREEN, "Name Of Person"), "Age", "Nickname"],
                  ["Mr\nXavier\nHuon", 32, "Xav'"],
                  [get_color_string(bcolors.BLUE, "Mr\nBaptiste\nClement"), 1, get_color_string(bcolors.RED, "Baby")] ])
print(table.draw() + "\n")

table = Texttable()
table.set_deco(Texttable.HEADER)
table.set_cols_dtype(['t', # text
                      'f', # float (decimal)
                      'e', # float (exponent)
                      'i', # integer
                      'a']) # automatic
table.set_cols_align(["l", "r", "r", "r", "l"])
table.add_rows([["text", "float", "exp", "int", "auto"],
                 ["abcd", "67", "654", "89", "128.001"],
                 ["efghijk", "67.5434", ".654", "89.6", "128000000000000000000000.00023"],
                 ["lmn", "5e-78", "5e-78", "89.4", ".000000000000128"],
                 ["opqrstu", ".023", "5e+78", "92.", "128000000000000000000000"]])
print(table.draw())
```

-Unfortunately, I got wrong with this code.

```
>>>
===== RESTART: C:/Users/Administrator/Desktop/table.py =====
Traceback (most recent call last):
  File "C:/Users/Administrator/Desktop/table.py", line 1, in <module>
    from texttable import Texttable, get_color_string, bcolors
ImportError: cannot import name 'get_color_string'
```

2. Trying prettytable

2.1 Install the prettytable

Using pip install prettytable

2.2 Trying some code on line

table.py - C:/Users/Administrator/Desktop/table.py (3.6.3)

```
File Edit Format Run Options Window Help
from prettytable import PrettyTable
table = PrettyTable(["animal", "ferocity"])
table.add_row(["wolverine", 100])
table.add_row(["grizzly", 87])
table.add_row(["Rabbit of Caerbannog", 110])
table.add_row(["cat", -1])
table.add_row(["platypus", 23])
table.add_row(["dolphin", 63])
table.add_row(["albatross", 44])
table.sort_key("ferocity")
table.reversesort = True
print(table)
```

It works.

The result is

===== RESTART: C:/Users/Administrator/Desktop/table.py =====

animal	ferocity
wolverine	100
grizzly	87
Rabbit of Caerbannog	110
cat	-1
platypus	23
dolphin	63
albatross	44

<http://blog.csdn.net/codeway3d/article/details/52798804>

3. Trying tktable

3.1 Download the tktable.py from e-mail

3.2 Try to find more example to understand how to use it

4. Consider the task from e-mail

Create a GUI which will show the difference in different line items (such critical timing, total slack, etc.) of 2 QOR reports.

Interface idea

The first qor

The content of the first qor file

The second qor file:

The content of the second qor file

Button1

Button2

The function of the button1 might be changing the numbers' color which is less than 0.
The function of the button1 might be getting some graphs.

```
1.3.py - C:\Users\Administrator\Desktop\1.3.py (3.6.3)
File Edit Format Run Options Window Help
##画个界面玩玩
from turtle import*
from tkinter import* # 导入 Tkinter 库
from tkinter import messagebox
import os

def button_1():
    messagebox.showinfo(title="filter",message="The key words")
def button_2():
    messagebox.showinfo(title="sort",message="The key words")

if __name__=="__main__":
    tk=Tk()
    tk.title("Report")
    tk.geometry("500x500")
    tk.rowconfigure(1, weight=1)
    tk.rowconfigure(2, weight=8)

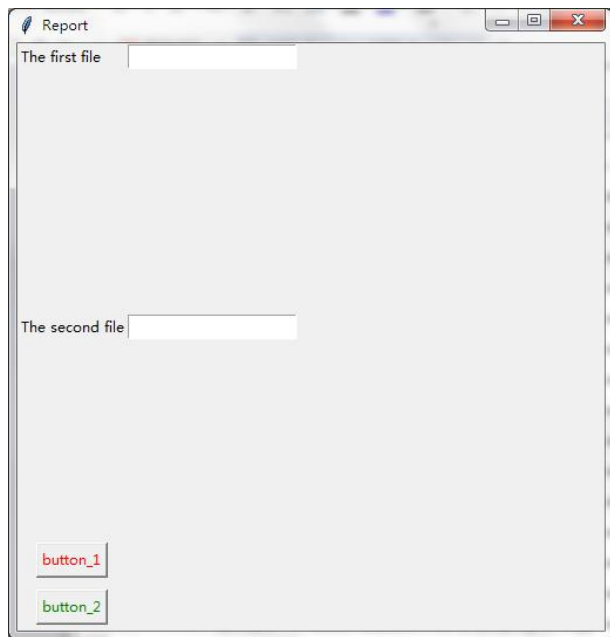
    button_1=Button(tk,text="button_1",fg="red",command=button_1)
    button_1.grid(row=10, column=0, padx=5, pady=5)
    button_2=Button(tk,text="button_2",fg="green",command=button_2)
    button_2.grid(row=11, column=0, padx=5, pady=5)

    label_1=Label(tk,text="The first file")
    label_1.grid(sticky=W+N, row=0, column=0)
    label_2=Label(tk,text="The second file")
    label_2.grid(sticky=W, row=2, column=0)

    e1=Entry(tk)
    e1.grid(sticky=W, row=0, column=1)
    e2=Entry(tk)
    e2.grid(sticky=W, row=2, column=1)

    tk.mainloop()
```

Ln: 34 Col: 17



Next week

1. Working on coding.

Issues

1. The prettytable looks easier to make a table in Python. However, it seem that it is easy to make a button to choose numbers.