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**Python 2: Getting More Out of Python  
Lesson 9, Project 1**

Handed in: 19 Mar 2015 12:24:57AM Graded: 19 Mar 2015 06:55:20PM

**Here are your instructions:**

Starting with the project you created at the end of the last lesson, add components to the existing framework so that:

* When an area occupied by Frame 1 or Frame 2 is clicked with mouse button 1, the program should print which frame was clicked and the X and Y coordinates (relative to the Frame).
* Frame 3 should contain an Entry and a Text widget. When the button now labeled "Open" is clicked, the content of the Entry should be used as a file name, and the content of the file (if any) displayed in the Text widget.
* The Entry and Text widgets should completely fill Frame 3 and continue to do so even as the application window is resized.
* The color of the text displayed in Frame 3's Text widget should change appropriately when the "Red," "Blue," "Green," or "Black" buttons are clicked.

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| Frame 1 | |

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+---------------------+ Frame 3 |

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| Frame 2 | |

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+----------+----------+----------+----------+----------+

| Red | Blue | Green | Black | Open |

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**Your Comment:**

Enjoy!

**Items Handed In**

* [Open Project Handed In](https://students.oreillyschool.com/student/project/?/.handin/160-7891-1/com.ost.jwoloson.160.7891.1.MoreGUI_Homework.zip)

**Overall Comments:**

Hi Jason,

You've created a thing of true beauty - not just in terms of aesthetics but in terms of crystal clear, cleanly organized code, and attention to every small detail right down to the 'framer\_maxx' container title.

It's absolutely terrific.. And a real pleasure to review.

For your inspection, here is an alternative solution to this objective. It's no better than yours, just different:

from tkinter import \*

import os

ALL = N+S+W+E

class Application(Frame):

def \_\_init\_\_(self, master=None):

Frame.\_\_init\_\_(self, master)

# Set up cell in top frame to hold widgets

self.master.rowconfigure(0, weight = 1, minsize=500)

self.master.columnconfigure(0, weight = 1, minsize=500)

self.grid(sticky = ALL)

# Add visible widgets

frame1 = Frame(self)

frame1.grid(row=0, column=0, sticky = ALL, columnspan=2)

self.label1 = Label(frame1, text='Frame 1', bg='light grey', name='frame1')

self.label1.grid(row=0, column = 0, sticky=ALL)

#label1.pack()

frame1.rowconfigure(0, weight=1)

frame1.columnconfigure(0, weight=1)

self.label1.bind('', self.print\_coord)

frame2 = Frame(self, borderwidth=3)

frame2.grid(row=1, column=0, sticky=ALL, columnspan=2)

self.label2 = Label(frame2, text='Frame 2', bg='dark green', fg='white', name='frame2')

self.label2.grid(row=0, column = 0, sticky=ALL)

frame2.rowconfigure(0, weight=1)

frame2.columnconfigure(0, weight=1)

self.label2.bind('', self.print\_coord)

frame3 = Frame(self, bg='dark red', borderwidth=10)

frame3.grid(row=0, column=2, sticky=ALL, rowspan=2, columnspan=3)

self.label3 = Label(frame3, text = 'Frame 3', bg='dark red', fg='white', name='frame3')

self.label3.grid(row=0, column = 0, sticky=N)

frame3.rowconfigure(0, weight=1)

frame3.columnconfigure(0, weight=1)

self.fileName\_entry=Entry(frame3)

self.fileName\_entry.grid(row=1, column=0, sticky=E+W+N)

frame3.rowconfigure(1, weight=1)

self.fileText\_text = Text(frame3, height=1, width=1)

self.fileText\_text.grid(row=2, column=0, sticky=ALL)

frame3.rowconfigure(2, weight=5)

# Buttons

b=Button(self, text='Red', command = lambda: self.change\_color('red'))

b.grid(row=2, column=0, sticky=E+W)

b=Button(self, text='Blue', command = lambda: self.change\_color('blue'))

b.grid(row=2, column=1, sticky=E+W)

b=Button(self, text='Green', command = lambda: self.change\_color('green'))

b.grid(row=2, column=2, sticky=E+W)

b=Button(self, text='Black', command = lambda: self.change\_color('black'))

b.grid(row=2, column=3, sticky=E+W)

b=Button(self, text='Open', command = self.open\_file)

b.grid(row=2, column=4, sticky=E+W)

for colnum in range(5):

self.columnconfigure(colnum, weight=1)

self.rowconfigure(0, weight=1)

self.rowconfigure(1, weight=1)

self.fileName\_entry.focus()

def print\_coord(self, event):

print('You clicked in {0} at {1}, {2}'.format(event.widget.winfo\_name(), event.x, event.y))

def change\_color(self, color):

self.fileText\_text.config(fg=color)

def open\_file(self):

fn = self.fileName\_entry.get()

txt\_file=open(fn)

txt = txt\_file.read()

self.fileText\_text.delete(1.0,END)

self.fileText\_text.insert(END,txt)

if \_\_name\_\_ == '\_\_main\_\_':

root=Tk()

app = Application(master=root)

app.mainloop()

-Pat

**Grade:**

Great

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