

python



03

Ventanas utilizando POO

Aplicaciones de Escritorio con

Tkinter



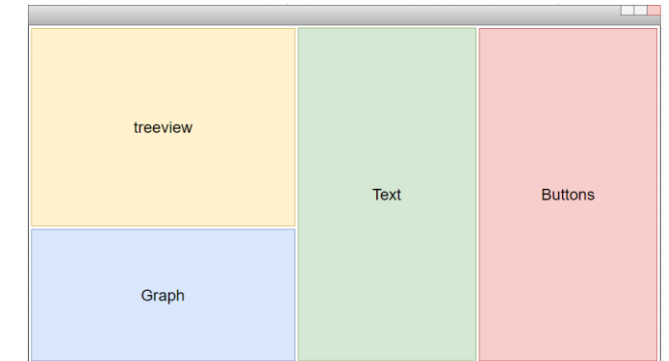
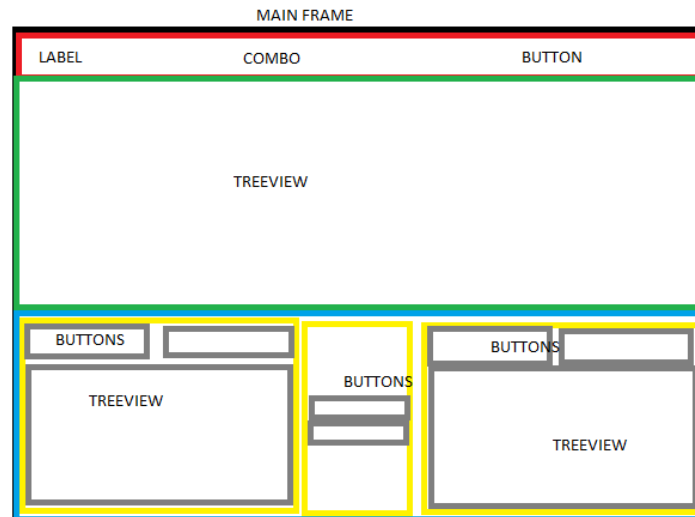
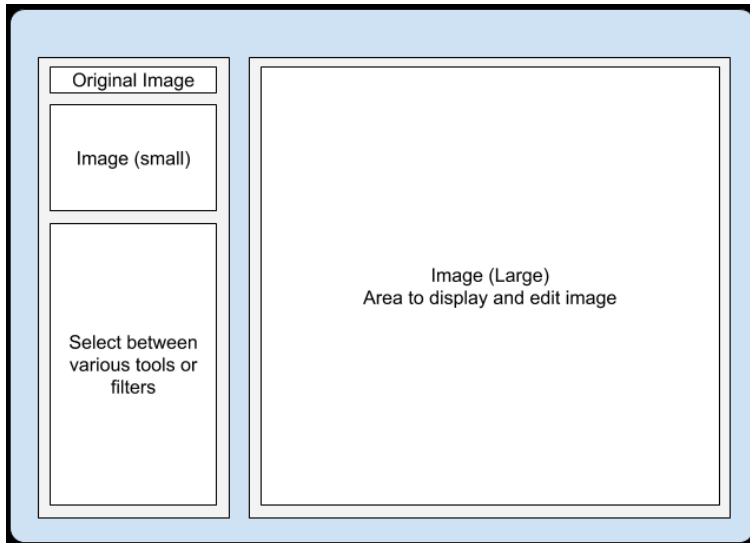
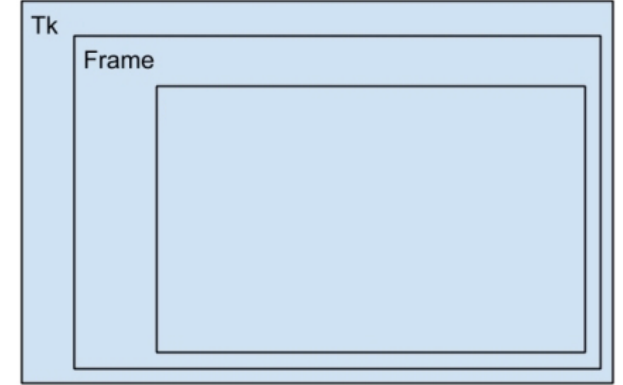
Contenido

- Frame
- Ventana utilizando POO



Frame

- Los Frames son **marcos contenedores de otros widgets**. Pueden tener tamaño propio y **posicionarse en distintos lugares de otro contenedor** (ya sea la raíz u otro marco)



```
from tkinter import Button, Frame, Tk
```

```
root = Tk()  
root.title("Ejemplo 2 Frames")  
root.geometry("200x70")
```

```
frame1 = Frame(root, bg="blue")  
frame1.pack(expand=True, fill='both')
```

```
frame2 = Frame(root, bg="yellow")  
frame2.pack(expand=True, fill='both')  
frame2.config(cursor='heart')
```

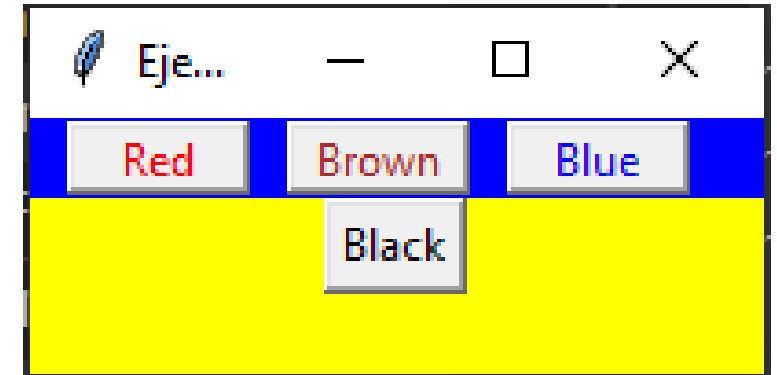
```
redbutton = Button(frame1, text="Red", fg="red")  
greenbutton = Button(frame1, text="Brown", fg="brown")  
bluebutton = Button(frame1, text="Blue", fg="blue")
```

```
redbutton.place(relx=.05, rely=.05, relwidth=.25, relheight=.9)  
greenbutton.place(relx=.35, rely=.05, relwidth=.25, relheight=.9)  
bluebutton.place(relx=.65, rely=.05, relwidth=.25, relheight=.9)
```

```
blackbutton = Button(frame2, text="Black", fg="black")  
blackbutton.pack()
```

```
root.mainloop()
```

Frame (ejemplo)



Frame

(configuración)

```
w = Frame ( master, option, ... )
```

```
w.config(bg="blue")           # color de fondo, background
w.config(cursor="pirate")      # tipo de cursor (arrow defecto)
w.config(relief="sunken")      # relieve del frame |
w.config(bd=25)                # tamaño del borde en píxeles
```

Efecto	Sintaxis
Cambiar el tamaño	mi_Frame.config(width="400", height="200")
Cambiar color de fondo	mi_Frame.config(bg="blue")
Cambiar grosor del borde	mi_Frame.config(bd=24)
Cambiar el tipo de borde	mi_Frame.config(relief="sunken")
Cambiar el cursor	mi_Frame.config(cursor="heart")



```
import tkinter as tk
```

```
class Application(tk.Frame):  
    def __init__(self, master=None):  
        super().__init__(master)  
        self.master = master  
        self.pack()  
        self.create_widgets()
```

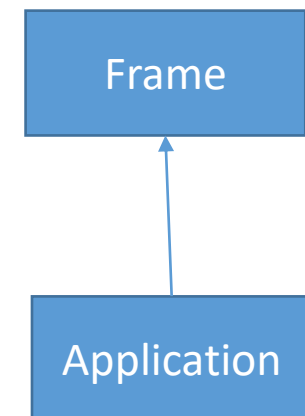
```
    def create_widgets(self):  
        self.hi_there = tk.Button(self)  
        self.hi_there["text"] = "Hello World\n(click me)"  
        self.hi_there["command"] = self.say_hi  
        self.hi_there.pack(side="top")  
  
        self.quit = tk.Button(self, text="QUIT", fg="red",  
                               command=self.master.destroy)  
        self.quit.pack(side="bottom")
```

```
    def say_hi(self):  
        print("hi there, everyone!")
```

```
root = tk.Tk()  
app = Application(master=root)  
app.mainloop()
```



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