

TKINTER

Label

```
label = Label(  
    frame, #en que frame se dibujará  
    height=1,  
    width=50,  
    text="Seleccionar modo",  
    font=("FontName",size),  
    background="#ffccd5"  
)  
  
label.pack(side=tk.TOP, fill=tk.BOTH)
```

Frame

```
class MenuModo(Frame):  
    def __init__(self, parent, controller):  
        Frame.__init__(self, parent)  
  
        self.controller = controller  
        self.parent = parent  
  
        self.b1 = Button(  
            command=self.goToFrame  
        )  
  
    def goToFrame(self):  
        self.controller.goToFrame("frameX")
```

Button

```
button = Button(  
    frame, #frame donde se dibujará  
    height=2,  
    width=50,  
    text="Continuar",  
    font=("FontName",23),  
    background="#ccffd5",  
    command=accion  
)  
  
button.pack(side=TOP,fill=BOTH)  
  
def accion():  
    print("Hice algo")
```

Scale

```
w2 = Scale(  
    frame, #frame donde se dibujará  
    from_=0,  
    to=100,  
    resolution = 0.1,  
    orient=HORIZONTAL  
)  
w2.pack(side=TOP, fill=BOTH)  
  
# para obtener valor  
valor = w2.get() # entre 0 y 100
```

Canvas + Matplotlib

```
from matplotlib.backends.backend_tkagg import FigureCanvasTkAgg  
from matplotlib.backends._backend_tk import NavigationToolbar2Tk  
  
fig, axis = plt.subplots()  
graph = Canvas(frame) # el frame donde se dibujara el canvas  
dataPlot = FigureCanvasTkAgg(fig, master=graph)  
nav = NavigationToolbar2Tk(dataPlot, graph)  
dataPlot.get_tk_widget().pack(side=TOP, fill=BOTH, expand=1)  
dataPlot._tkcanvas.pack(side=BOTTOM, fill=X, expand=1)  
graph.pack(side=TOP, expand=1, fill=BOTH)
```

Ejemplo completo

https://github.com/newtonis/EjemplosElectrotecnia/blob/master/ejemplo9_ui/UI.py