

25-tkinter

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1 TkInter

- most popular GUI package for Python
- TK was the GUI package for a language called TCL
- it works, but has an ancient look and feel
- [doc](#)

```
In [1]: # Simple example - just one label widget  
# have to search to find the window
```

```
from tkinter import *  
  
# base window  
root = Tk()  
  
# stick a label in it  
w = Label(root, text="Hello, world!")  
  
# do geometry calculations  
w.pack()  
  
# run event dispatch loop  
root.mainloop()
```

```
In [2]: # define an 'app' with button handlers
```

```
class App:  
  
    def __init__(self, master):  
        self.chkval = IntVar()  
  
        frame = Frame(master)  
        frame.pack()  
  
        self.button = Button(  
            frame, text="QUIT", fg="red", command=frame.quit  
        )  
        self.button.pack(side=LEFT)  
  
        self.hi_there = Button(frame, text="Hello", command=self.say_hi)  
        self.hi_there.pack(side=LEFT)  
        self.chk = Checkbutton(frame, text="Yes/No", command=self.check, variable=self.chkval)  
        self.chk.pack(side=LEFT)
```

```

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

def check(self):
    print("check %d" % self.chkval.get())

root = Tk()

app = App(root)

root.mainloop()
root.destroy() # optional; see description below

hi there, everyone!
hi there, everyone!
hi there, everyone!
hi there, everyone!
hi there, everyone!
check 1
check 0
check 1
check 0

In [ ]:

```