Tkinter

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Notes	

Label & Button

```
#create a new window and set information
window = tkinter.TK()
window.title('_TitleName_')
window.geometry('200x100')
var = tk.StringVar()
#create "lable"
1 = tkinter.Lable(window,textvariabler=var,bg='green',font=('Arial',12),width=15,
    height=2) # unit of width and height: No. character
l.pack() #Place lable-pack
on hit = False
#establish button
def hit_me:
  global on_hit
 if on_hit == False:
   on_hit = True
   var.set('you hit me')
  else:
    on_hit = False
    vat.set('')
b = tk.Button(window, text='hit me',width=15,height=2,command=hit_me)
#start running the window
window.mainloop()
```

Entry & Text

```
e = tk.Entry(window, show=None) #to enter the passpord, use show='*'
e.pack(window)

def insert_point():
   var = e.get()
   t.insert('insert', var)

def insert_end():
   var = e.get()
   t.insert('end', var)
```

entry & text are different : text doesn't have the boundary

Listbox

```
def print_selection():
  value = lb.get(lb.curselection())
  var1.set(value)
#define the variable
var1 = tk.StringVar()
1 = tk.Lable(window, bg='yellow', width=4, textvariable=var1)
1.pack()
b = tk.Button(window,text='print selection',command=print_selection)
b.pack()
var2 = tk.StringVar()
var2.set((A,B,C,D))
lb = tk.Listbox(window,listvariable=var2)
lb.pack()
#insert the list
list_items = [1, 2, 3, 4]
for item in list_items:
  lb.insert('end',item)
lb.insert(1,'first')
lb.insert(2,'second')
lb.delete(2) #delete the element at the specific place
lb.pack()
```

Radio-button

```
1 = tk.Lable(window,text='None',bg='yellow')

def print_selection():
    1.config(text='You have selected' + var.get())
```

Scale

Check-button

radio-button:only one value can be chosen

check-button: multiple value can be chosen

Canvas

Menubar

```
count = 0
menubar = tk.Menu(window)
filemune = tk.Menu(menubar,tearoff=0)
  #tearoff: whether they could be split
menubar.add_cascade(lable='File', menu=filemenu)
def do_job():
  global count
  1.config(text='do'+str(count))
filemune.add_command(lable='New',command=do_job)
filemune.add_command(lable='Save',command=do_job)
filemenu.add_seperator()
filemenu.add_command(label='Exit',command=window.quit)
editmenu = tk.Menu(menubar,tearoff=0)
menubar.add_cascade(lable='Edit', menu=editmenu)
# submenu
submenu = tk.Menu(filemenu)
filemenu.add_cascade(lable='Import',menu=submenu)
submenu.add_command(lable='Submenu',command=do_job)
window.config(menu=menubar)
```

window.config: change parameters of the object window

Frame

```
frm = tk.Frame(window)
frm.pack()
frm_1 = tk.Frame(frm)
frm_r = tk.Frame(frm)
frm_l.pack(side='left')
frm_r.pack(side='right')
```

frame: sub-window