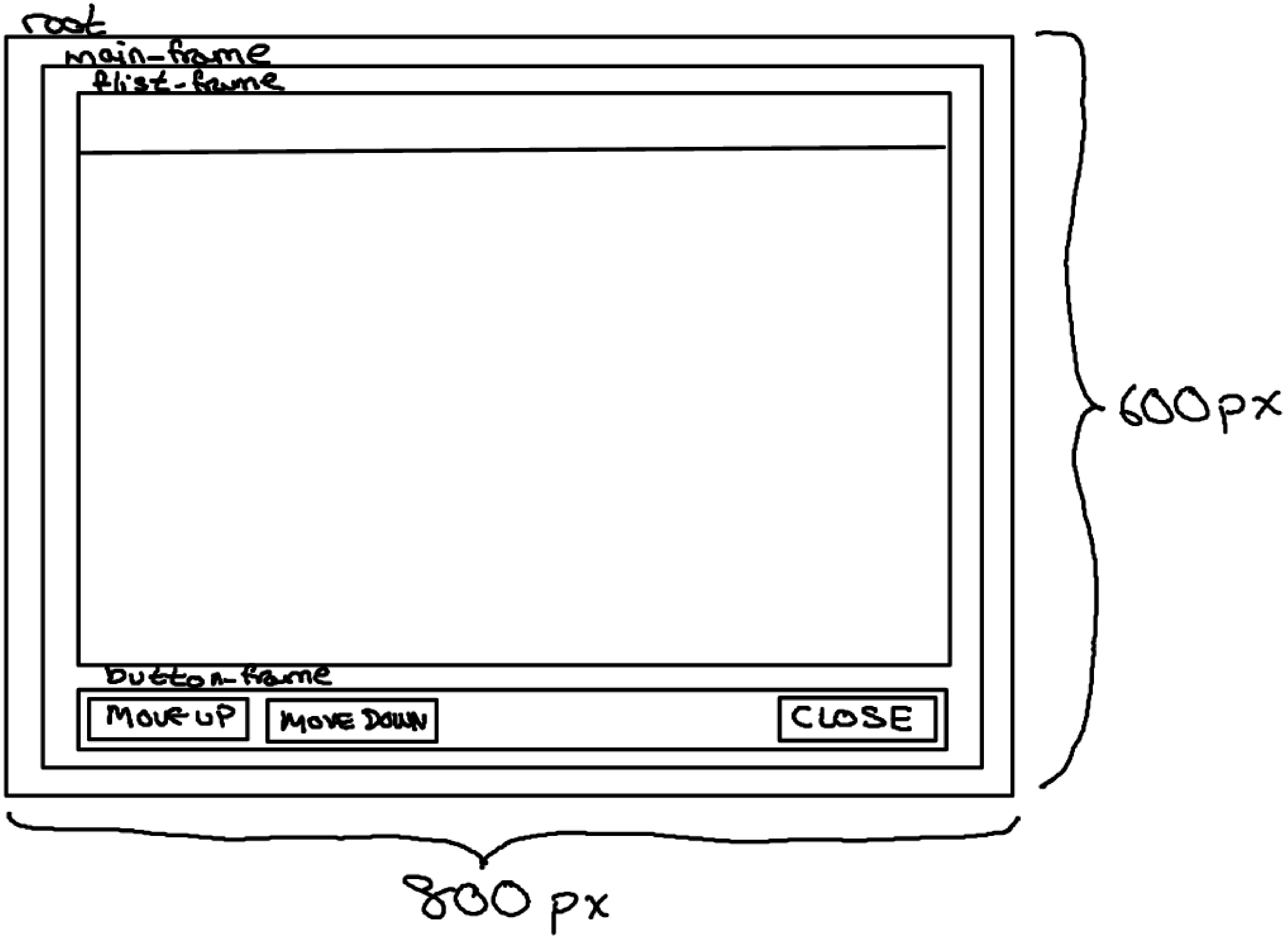

root: geometry = "400×400"

main_frame: Frame(root), pack(fill=both)
background="green", height=400, width=400

flist_frame: Frame(main_frame), pack(side=top, fill=both, ~)
background="white", width=790, height=550
{padx=5, pady=5}
borderwidth=3 relief="ridge"

button_frame: Frame(main_frame), pack(side=top, fill=both)
background="orange", width=790 height=30
Padx=5 pady=5

up_button: Button(button_frame), pack(side=Left, fill=X)
, text="Move Up", width=9
height="30p", padx=4, pady=4

down_button: Button(button_frame), pack(side=Left, fill=X)
, text="Move Down", width=9
height="30p", padx=4, pady=4

```
close_button: Button(buttons_frame), pack(side=RIGHT, fill=X)
                          text="Close", width=9,
      height="30px", padx=1, pady=0
```

```
FLIST
dir_label: Label(flist_frame), background. "Yellow"
        padx=0, pady=0, height=2
     width=50,
      text="[Current Directory Here]".
    Pack(side=TOP, fill=BOTH)
scroll_list_frame: Frame(flist_frame), background: "blue"
      padx=0, pady=0, side=BOTTOM, fill=BOTH, → Pack properties
    width=790, height=530,
file_list: Listbox(flist_frame),
      activestyle="dotbox", padx=0, pady=0, width=50,
      background="White"                  height=26
    * listvariable=StringVar() ← Don't worry.
      YScrollcommand= scrollbar(parent, orient=tk.VERTICAL).
  Pack(side=LEFT, fill=BOTH)      selectmode=tk.SINGLE Set.
file_scroll : Scrollbar(flist_frame)
        orient = tk. VERTICAL          pack(side=RIGHT, fill=BOTH)
        'command' = file_list.yview
```

Class Modolarization: It is ok.

Now for event binding:

```
self.curdir = os.getcwd()
self.pardir = OS.path.dirname(self.curdir)
self._ch_iter = os.listdir(self.curdir) →
                StringVar( self.scroll_list_frame,          )
```

```
_init_dir_info(dir):  <- os.getcwd()
    self.curdir = dir
    self._pardir = os.path.dirname(dir)
    self.fstringvar = StringVar(self.scroll_list_frame.widget,
    self.flist = os.listdir(dir) os.listdir(dir))        ↕ update

_set_dir_info():
    self.dir_label.widget.configure(text=self.curdir)
    self.fscroll_list.listbox.configure(listvariable=self.fstringvar)
     if len(self.flist) is not 0:
         self.fscroll_list.listbox.selection_set(0)

 _init_pd_booleans():
   self.up_button_pd = False
   self.down_button_pd = False
   self.close_button_pd = False

 _up_pd_callback(event):
   self.up_button_pd = True
 _up_pu_callback(event):
   if  self.up_button_pd is True:
       self.up_button_pd = false
       self.update dir info (self.pardir)

_set_button_callbacks():
   self.upbutton.widget.bind('<Button-1>', lambda: self.up_button_pd=True)
   self.upbutton.widget.bind('<ButtonRelease-1', self_up_pu_callback)
  OR COMMAND BINDING
   self.upbutton.widget.configure(*command=self._up_callback)
   self.upbutton.widget. configure(*command=self._up_callback)
```

```
make_widget(data, parent)
    widget = data.widget_type(parent)
    widget.configure(**data.attrs)
    widget.pack(**data.pack_attrs)
    return widget.
```

data → Empty Class or Dictionary.