

Day - 40 OCTOBER 2025 02/07/25

## Tkinter Layout Management

THURSDAY

- Widgets are arranged or placed within the Tkinter window
- pack(), grid(), place()
- geometry management!
- how widgets are arranged

### Pack():

Side (top, bottom, left, right)

OB FRIDAY

fill (both, x, y, none)

expand : A boolean indicating whether the widget should expand to fill available space.

label.pack(side="top")

label.pack(side="bottom", fill="x")

bg = "blue", fg = "white", font = ("Arial", 24)

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URDAY 04 grid():  
label.grid (row=0, column=0)  
↑ rows  
| columns  
south (bottom)

sticky : N, S, E, W — west  
| (left)  
North East  
(top) (right)

label.grid (row=0, column=0, sticky="w")

while using padding we  
can use 2 directions,  
eg: EW, NW

place() x, y (pixels)

v) relx, rely, anchor='w')  
↳ relative to y.  
↳ Relative to x.

default  $\Rightarrow$  center.  
(NSEW)

## Event Handling: OCTOBER 2025

- Buttons
- Binding Events to Widgets  
(Keyboard, Mouse, etc)

06 MONDAY

Widget.bind ("", on\_key\_press)

↓  
f^n.

(event.keysym)

↳ print key pressed

## Windows Management:

07 TUESDAY

resized by the user

root.geometry("Widthxheight")

root.resizable(width, height).

Boolean Value

root.resizable(False, False)

(Disable resizing) ↑

Default Width and Height of a  
Window in tkinter

The default window size is based  
on the widgets added  
or set using geometry.

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WEDNESDAY 08 changing Window Title and icon :

root.title ("window title")

root.iconbitmap ("logo.ico")

Geometry with Window Size and position

root.geometry ("500x400+200+200")

$\underbrace{w \times h}_{\text{Size}}$  +  $\underbrace{x + y}_{\text{Position}}$ )

Size Position

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Entry Widgets

10 FRIDAY

→ need to create a text field

entry - widget - tk.Entry(master, options)

entry = tk.Entry(root, width=20)

entry.pack()

Handling user input validation

Validating input

re - regular expression  
module.

r - raw string

for using \ (back slash)  
as not escape sequence

n - negate

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SUNDAY 12 Text Widgets

→ multi line i/p.

text = tk.Text(root, height=5,  
width=30)

text.pack()

<sup>rows</sup>

width=30)

<sup>columns</sup>

Text manipulation

Insert - text insert at

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'particular position.

Delete - text delete at  
particular position

Get - get i/p.

Label widgets;

Dynamically : config method.