Py

# Geometry Manager : grid

- Its the most common and simple layout manager
- It arrange the widget in the grid form I.e, in rows and column as shown below


- The options for grid is as follows

| Option |
| --- |
| column |
| row |
| columnspan |
| rowspan |
| padx, pady |
| ipadx, ipady |
| sticky |

- You can mention the row and column number where you want to place the widget by using column and row option
- padx, pady are external padding where as iPadx and iPady are internal padding
- The sticky option is same as side which we looked in the pack layout manager i.e, sticky sticks the component inside the cell N,S,E,W

- An example of this is

```
l1 = Label(win, text='Label 1', bg='lightblue', fg='blue')
l2 = Label(win, text='Label 2', bg='lightblue', fg='blue')
l3 = Label(win, text='Label 3', bg='lightblue', fg='blue')
l4 = Label(win, text='Label 4', bg='lightblue', fg='blue')
l5 = Label(win, text='Label 5', bg='lightblue', fg='blue')
l6 = Label(win, text='Label 6', bg='lightblue', fg='blue')
l7 = Label(win, text='Label 7', bg='lightblue', fg='blue')
l8 = Label(win, text='Label 8', bg='lightblue', fg='blue')
l9 = Label(win, text='Label 9', bg='lightblue', fg='blue')

l1.grid(row=0, column=0, padx=5, pady=5)
l2.grid(row=0, column=1, padx=5, pady=5)
l3.grid(row=0, column=2, padx=5, pady=5)

l4.grid(row=1, column=0, padx=5, pady=5)
l5.grid(row=1, column=1, padx=5, pady=5)
l6.grid(row=1, column=2, padx=5, pady=5)

l7.grid(row=2, column=0, padx=5, pady=5)
l8.grid(row=2, column=1, padx=5, pady=5)
l9.grid(row=2, column=2, padx=5, pady=5)
```

- If you want to occupy more then one cell for a single widget in a grid vertically then it is called rowspan likewise for columnspan for horizontal

```
l1.grid(row=0, column=0, columnspan=2, padx=5, pady=5)
#l2.grid(row=0, column=1, padx=5, pady=5)
l3.grid(row=0, column=2, padx=5, pady=5)

l4.grid(row=1, column=0, rowspan=2, padx=5, pady=5)
l5.grid(row=1, column=1, padx=5, pady=5)
l6.grid(row=1, column=2, padx=5, pady=5)

#l7.grid(row=2, column=0, padx=5, pady=5)
l8.grid(row=2, column=1, padx=5, pady=5)
l9.grid(row=2, column=2, padx=5, pady=5)
```