# Python 3 - Tkinter Button

The Button widget is used to add buttons in a Python application. These buttons can display text or images that convey the purpose of the buttons. You can attach a function or a method to a button which is called automatically when you click the button.

# Syntax

Here is the simple syntax to create this widget -

```
w = Button ( master, option = value, ... )
```

#### **Parameters**

- master This represents the parent window.
- options Here is the list of most commonly used options for this widget. These options
  can be used as key-value pairs separated by commas.

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12	padx
	Additional padding left and right of the text.
13	pady
	Additional padding above and below the text.
14	relief
	Relief specifies the type of the border. Some of the values are SUNKEN, RAISED, GROOVE, and RIDGE.
15	state
	Set this option to DISABLED to gray out the button and make it unresponsive. Has the value ACTIVE when the mouse is over it. Default is NORMAL.
16	underline
	Default is -1, meaning that no character of the text on the button will be underlined. If nonnegative, the corresponding text character will be underlined.
17	width
	Width of the button in letters (if displaying text) or pixels (if displaying an image).
18	wraplength
	If this value is set to a positive number, the text lines will be wrapped to fit within this length.

# Methods

Following are commonly used methods for this widget -

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Sr.No.	Option & Description
1	activebackground Background color when the button is under the cursor.
2	activeforeground  Foreground color when the button is under the cursor.
3	bd  Border width in pixels. Default is 2.
4	bg Normal background color.
5	command Function or method to be called when the button is clicked.
6	fg Normal foreground (text) color.
7	font Text font to be used for the button's label.
8	height Height of the button in text lines (for textual buttons) or pixels (for images).
9	highlightcolor  The color of the focus highlight when the widget has focus.
10	image Image to be displayed on the button (instead of text).
11	justify  How to show multiple text lines: LEFT to left-justify each line; CENTER to center them; or RIGHT to right-justify.

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Sr.No.	Medthod & Description
1	flash()
	Causes the button to flash several times between active and normal colors. Leaves the button in the state it was in originally. Ignored if the button is disabled.
2	invoke()
	Calls the button's callback, and returns what that function returns. Has no effect if the button is disabled or there is no callback.

# Example

Try the following example yourself -

```
# !/usr/bin/python3
from tkinter import *

from tkinter import messagebox

top = Tk()
top.geometry("100x100")
def helloCallBack():
    msg = messagebox.showinfo( "Hello Python", "Hello World")

B = Button(top, text = "Hello", command = helloCallBack)
B.place(x = 50,y = 50)
top.mainloop()
```

### Result

When the above code is executed, it produces the following result -

