# Python 3 - Tkinter Checkbutton

The Checkbutton widget is used to display a number of options to a user as toggle buttons. The user can then select one or more options by clicking the button corresponding to each option.

You can also display images in place of text.

#### Syntax

Here is the simple syntax to create this widget -

```
w = Checkbutton ( master, option, ... )
```

### 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.

22	state
	The default is state = NORMAL, but you can use state = DISABLED to gray out the control and make it unresponsive. If the cursor is currently over the checkbutton, the state is ACTIVE.
23	text
	The label displayed next to the checkbutton. Use newlines ("\n") to display multiple lines of text.
24	underline
	With the default value of -1, none of the characters of the text label are underlined. Set this option to the index of a character in the text (counting from zero) to underline that character.
25	variable
	The control variable that tracks the current state of the checkbutton. Normally this variable is an IntVar, and 0 means cleared and 1 means set, but see the offvalue and onvalue options above.
26	width
	The default width of a checkbutton is determined by the size of the displayed image or text. You can set this option to a number of characters and the checkbutton will always have room for that many characters.
27	wraplength
	Normally, lines are not wrapped. You can set this option to a number of characters and all lines will be broken into pieces no longer than that number.

# Methods

Following are commonly used methods for this widget -

Sr.No.	Option & Description
1	activebackground
	Background color when the checkbutton is under the cursor.
2	activeforeground
	Foreground color when the checkbutton is under the cursor.
3	bg
	The normal background color displayed behind the label and indicator.
4	bitmap
	To display a monochrome image on a button.
5	bd
	The size of the border around the indicator. Default is 2 pixels.
6	command
	A procedure to be called every time the user changes the state of this checkbutton.
7	cursor
	If you set this option to a cursor name (arrow dot etc.), the mouse cursor will change that pattern when it is over the checkbutton.
8	disabledforeground
	The foreground color used to render the text of a disabled checkbutton. The default is stippled version of the default foreground color.
9	font
	The font used for the text.
10	fg
	The color used to render the text.
11	height
	The number of lines of text on the checkbutton. Default is 1.

Sr.No.	Medthod & Description
1	deselect() Clears (turns off) the checkbutton.
2	flash() Flashes the checkbutton a few times between its active and normal colors, but leaves it the way it started.
3	invoke() You can call this method to get the same actions that would occur if the user clicked on the checkbutton to change its state.
4	select() Sets (turns on) the checkbutton.
5	toggle() Clears the checkbutton if set, sets it if cleared.

# Example

Try the following example yourself -

12	highlightcolor  The color of the focus highlight when the checkbutton has the focus.
13	image To display a graphic image on the button.
14	justify If the text contains multiple lines, this option controls how the text is justified: CENTER LEFT, or RIGHT.
15	offvalue  Normally, a checkbutton's associated control variable will be set to 0 when it is clearer (off). You can supply an alternate value for the off state by setting offvalue to that value.
16	onvalue  Normally, a checkbutton's associated control variable will be set to 1 when it is set (on) You can supply an alternate value for the on state by setting onvalue to that value.
17	padx  How much space to leave to the left and right of the checkbutton and text. Default is pixel.
18	pady  How much space to leave above and below the checkbutton and text. Default is 1 pixel.
19	relief  With the default value, relief = FLAT, the checkbutton does not stand out from it background. You may set this option to any of the other styles
20	selectcolor  The color of the checkbutton when it is set. Default is selectcolor = "red".
21	selectimage  If you set this option to an image, that image will appear in the checkbutton when it is set.

## Result

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

