

Python 3 - Tkinter Spinbox

The Spinbox widget is a variant of the standard Tkinter Entry widget, which can be used to select from a fixed number of values.

Syntax

Here is the simple syntax to create this widget –

```
w = Spinbox( 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.

| Sr.No. | Option & Description  |
|--------|---|
| 1      | <b>activebackground</b><br>The color of the slider and arrowheads when the mouse is over them.  |
| 2      | <b>bg</b><br>The color of the slider and arrowheads when the mouse is not over them.  |
| 3      | <b>bd</b><br>The width of the 3-d borders around the entire perimeter of the trough, and also the width of the 3-d effects on the arrowheads and slider. Default is no border around the trough, and a 2-pixel border around the arrowheads and slider. |
| 4      | <b>command</b><br>A procedure to be called whenever the scrollbar is moved.   |
| 5      | <b>cursor</b><br>The cursor that appears when the mouse is over the scrollbar.  |
| 6      | <b>disabledbackground</b><br>The background color to use when the widget is disabled.   |
| 7      | <b>disabledforeground</b><br>The text color to use when the widget is disabled.   |
| 8      | <b>fg</b><br>Text color.  |
| 9      | <b>font</b><br>The font to use in this widget.  |
| 10     | <b>format</b><br>Format string. No default value.   |
| 11     | <b>from_</b><br>The minimum value. Used together with to to limit the spinbox range.  |

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| 12 | <b>justify</b><br>Default is LEFT   |
| 13 | <b>relief</b><br>Default is SUNKEN.   |
| 14 | <b>repeatdelay</b><br>Together with repeatinterval, this option controls button auto-repeat. Both values are given in milliseconds. |
| 15 | <b>repeatinterval</b><br>See repeatdelay.   |
| 16 | <b>state</b><br>One of NORMAL, DISABLED, or "readonly". Default is NORMAL.  |
| 17 | <b>textvariable</b><br>No default value.  |
| 18 | <b>to</b><br>See from.  |
| 19 | <b>validate</b><br>Validation mode. Default is NONE.  |
| 20 | <b>validatecommand</b><br>Validation callback. No default value.  |
| 21 | <b>values</b><br>A tuple containing valid values for this widget. Overrides from/to/increment.                                      |
| 22 | <b>vcmd</b><br>Same as validatecommand.   |
|    |   |

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| 23 | <b>width</b><br>Widget width, in character units. Default is 20.  |
| 24 | <b>wrap</b><br>If true, the up and down buttons will wrap around.   |
| 25 | <b>xscrollcommand</b><br>Used to connect a spinbox field to a horizontal scrollbar. This option should be set to the set method of the corresponding scrollbar. |

Methods

Spinbox objects have these methods –

| Sr.No. | Methods and Description   |
|--------|---|
| 1      | <b>delete(startindex [,endindex])</b><br>This method deletes a specific character or a range of text. |
| 2      | <b>get(startindex [,endindex])</b><br>This method returns a specific character or a range of text.    |
| 3      | <b>identify(x, y)</b><br>Identifies the widget element at the given location.                         |
| 4      | <b>index(index)</b><br>Returns the absolute value of an index based on the given index.               |
| 5      | <b>insert(index [,string]..)</b><br>This method inserts strings at the specified index location.      |
| 6      | <b>invoke(element)</b><br>Invokes a spinbox button.   |

Example

Try the following example yourself –

```
from Tkinter import *

master = Tk()

w = Spinbox(master, from_ = 0, to = 10)
w.pack()

mainloop()
```

Result

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

