



Tkinter Scrollbar

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Summary: in this tutorial, you'll learn about the Tkinter Scrollbar widget and how to link it to a scrollable widget.

Introduction to the Tkinter scrollbar widget

A scrollbar allows you to view all parts of another widget whose content is typically larger than the available space.

Tkinter scrollbar widget is not a part of any other widgets such as [Text](#)

(<https://www.pythontutorial.net/tkinter/tkinter-text/>) and [Listbox](#) (<https://www.pythontutorial.net/tkinter/tkinter-listbox/>)

. Instead, a scrollbar is an independent widget.

To use the scrollbar widget, you need to:

- First, create a scrollbar widget.
- Second, link the scrollbar with a scrollable widget.

The following shows how to create a scrollbar widget using the `ttk.Scrollbar` constructor:

```
scrollbar = ttk.Scrollbar(  
    container,
```

```
orient='vertical',
command=widget.yview
)
```

In this syntax:

- The **container** is the **window** (<https://www.pythontutorial.net/tkinter/tkinter-window/>) or **frame** (<https://www.pythontutorial.net/tkinter/tkinter-frame/>) on which the scrollbar locates.
- The **orient** argument specifies whether the scrollbar needs to scroll horizontally or vertically.
- The **command** argument allows the scrollbar widget to communicate with the scrollable widget.

The scrollable widget also needs to communicate back to the scrollbar about the percentage of the entire content area that is currently visible.

Every scrollable widget has a **yscrollcommand** and/or **xscrollcommand** options. And you can assign the **scrollbar.set** method to it:

```
widget['yscrollcommand'] = scrollbar.set
```

Tkinter scrollbar widget example

The **Text** widgets are one of several types of scrollable widgets. The following program illustrates a simple user interface that consists of **Text** and **Scrollbar** widgets:

```
import tkinter as tk
from tkinter import ttk

root = tk.Tk()
root.resizable(False, False)
root.title("Scrollbar Widget Example")

# apply the grid layout
root.grid_columnconfigure(0, weight=1)
root.grid_rowconfigure(0, weight=1)
```

```
# create the text widget
text = tk.Text(root, height=10)
text.grid(row=0, column=0, sticky=tk.EW)

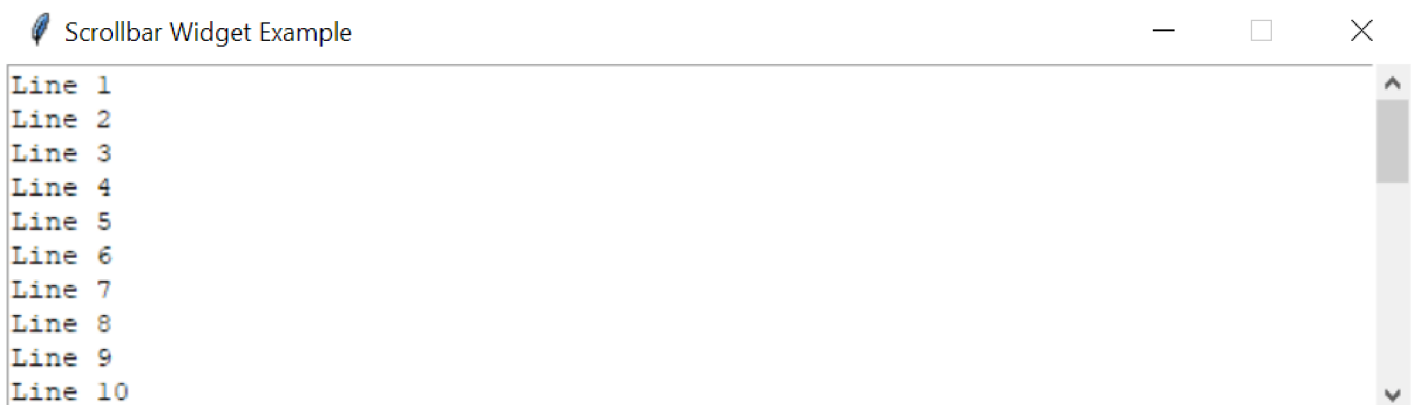
# create a scrollbar widget and set its command to the text widget
scrollbar = ttk.Scrollbar(root, orient='vertical', command=text.yview)
scrollbar.grid(row=0, column=1, sticky=tk.NS)

# communicate back to the scrollbar
text['yscrollcommand'] = scrollbar.set

# add sample text to the text widget to show the screen
for i in range(1,50):
    position = f'{i}.0'
    text.insert(position, f'Line {i}\n');

root.mainloop()
```

Output:



Summary

- Create a scrollbar with `ttk.Scrollbar(orient, command)`
- The orient can be `'vertical'` or `'horizontal'`
- The command can be `yview` or `xview` property of the scrollable widget that links to the scrollbar.
- Set the `yscrollcommand` property of the scrollable widget so it links to the scrollbar.