



## Tkinter ScrolledText

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**Summary:** in this tutorial, you'll learn how to use the Tkinter `ScrolledText` widget that consists of a Text widget and vertical Scrollbar widget.

## Introduction to the Tkinter ScrolledText widget

So far, you've learned how to create a `Text` (<https://www.pythontutorial.net/tkinter/tkinter-text/>) widget and how to link a vertical `Scrollbar` (<https://www.pythontutorial.net/tkinter/tkinter-scrollbar/>) to the text widget.

To make it more convenient, Tkinter provides you with the `ScrolledText` widget which does the same things as a text widget linked to a vertical scroll bar.

To use the `ScrolledText` widget, you need to import the `ScrolledText` class from the `tkinter.scrolledtext` module.

Technically, the `ScrolledText` class inherits from the `Text` class.

The `ScrolledText` widget uses a `Frame` (<https://www.pythontutorial.net/tkinter/tkinter-frame/>) widget inserted between the container and the `Text` widget to hold the `Scrollbar` widget.

Therefore, the `ScrolledText` has the same properties and methods as the `Text` widget. In addition, the geometry manager methods including `pack` (<https://www.pythontutorial.net/tkinter/tkinter->

`pack()` , `grid` (<https://www.pythontutorial.net/tkinter/tkinter-grid/>) , and `place` (<https://www.pythontutorial.net/tkinter/tkinter-place/>) are restricted to the `Frame` .

## Tkinter ScrolledText widget example

The following program illustrates how to create a `ScrolledText` widget:

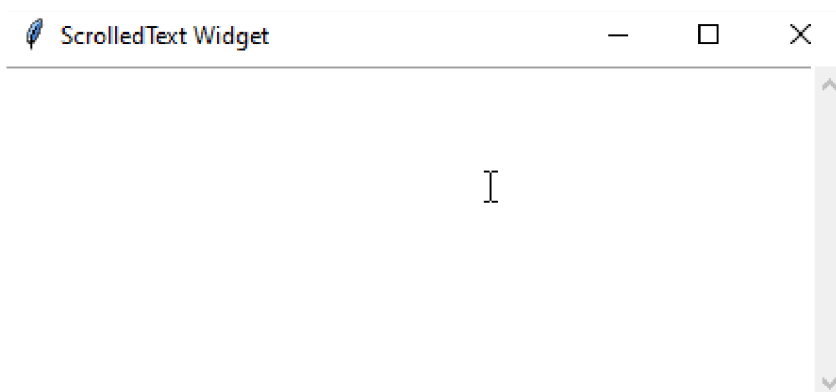
```
import tkinter as tk
from tkinter.scrolledtext import ScrolledText

root = tk.Tk()
root.title("ScrolledText Widget")

st = ScrolledText(root, width=50, height=10)
st.pack(fill=tk.BOTH, side=tk.LEFT, expand=True)

root.mainloop()
```

Output:



How it works.

- First, import the `tkinter` module and the `ScrolledText` class from the `tkinter.scrolledtext` module.
- Second, create the root window and set its title to `'ScrolledText Widget'` .
- Third, create a new `ScrolledText` widget and display it on the root window.

- Finally, start the main loop.

Here's the same program but written using the [object-oriented programming](https://www.pythontutorial.net/python-oop/) (<https://www.pythontutorial.net/python-oop/>) approach:

```
import tkinter as tk

from tkinter.scrolledtext import ScrolledText


class App(tk.Tk):
    def __init__(self):
        super().__init__()
        self.title("ScrolledText Widget")
        st = ScrolledText(self, width=50, height=10)
        st.pack(fill=tk.BOTH, side=tk.LEFT, expand=True)


if __name__ == "__main__":
    app = App()
    app.mainloop()
```

## Summary

- Use the Tkinter `ScrolledText` widget to create a `Text` widget with a vertical `Scrollbar` .