



Tkinter PanedWindow

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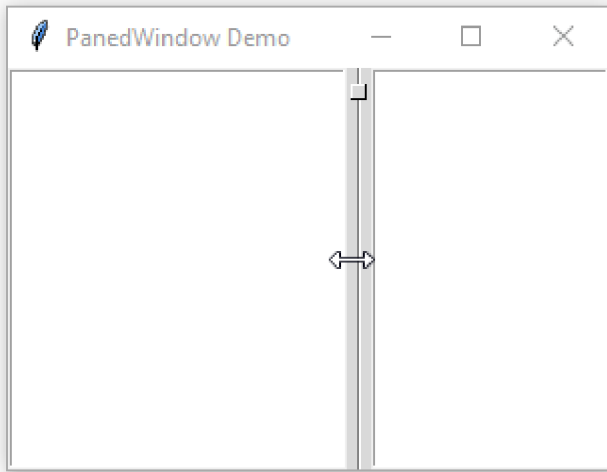
website running.

Summary: in this tutorial, you'll learn how to use the Tkinter PanedWindow widget to divide the space of a frame or a window.

Introduction to the Tkinter PanedWindow widget

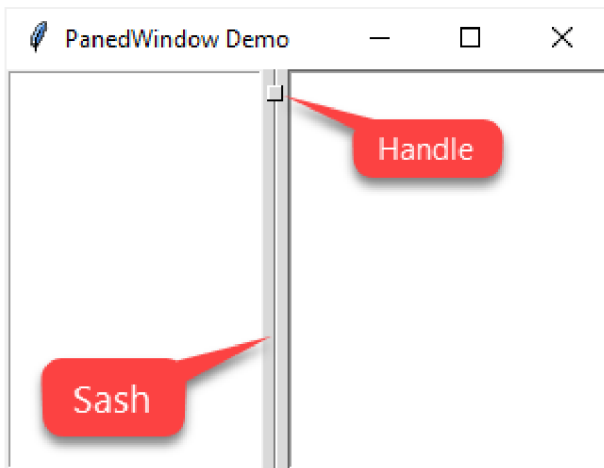
The **PanedWindow** widget divides the space of a **frame** (<https://www.pythontutorial.net/tkinter/tkinter-frame/>) or a **window** (<https://www.pythontutorial.net/tkinter/tkinter-window/>). A **PanedWindow** is like a **Frame** that acts as a container for holding child widgets

Typically, a **PanedWindow** contains a vertical or horizontal stack of child widgets:



A **PanedWindow** uses a bar to separate the child widgets. This bar is called a *sash*.

A *sash* can have a *handle* which is a small square that you can drag it with a mouse:



A *pane* is an area occupied by one child widget.

To create a **PanedWindow** widget, you use the following syntax:

```
ttk.PanedWindow(container, **options)
```

A notable option of a **PanedWindow** widget is the **orient** option.

If you set the **orient** to **tk.HORIZONTAL**, it'll stack child widgets side by side. If **orient** is **tk.VERTICAL**, it'll stack child widgets top to bottom. The **orient** option defaults to **tk.VERTICAL**.

Tkinter PanedWindow widget example

The following example illustrates how to use the `PanedWindow` widget to separate two `Listbox` (<https://www.pythontutorial.net/tkinter/tkinter-listbox/>) widgets:

```
import tkinter as tk
from tkinter import ttk

root = tk.Tk()
root.title('PanedWindow Demo')
root.geometry('300x200')

# change style to classic (Windows only)
# to show the sash and handle
style = ttk.Style()
style.theme_use('classic')

# paned window
pw = ttk.PanedWindow(orient=tk.HORIZONTAL)

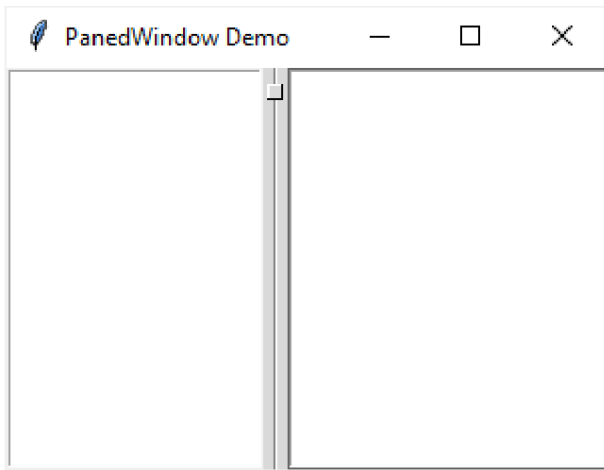
# Left listbox
left_list = tk.Listbox(root)
left_list.pack(side=tk.LEFT)
pw.add(left_list)

# Right listbox
right_list = tk.Listbox(root)
right_list.pack(side=tk.LEFT)
pw.add(right_list)

# place the panedwindow on the root window
pw.pack(fill=tk.BOTH, expand=True)

root.mainloop()
```

Output:



If you run the program on Windows, you're likely will not see the sash and handle displaying. To make it visible, you can set the default theme to `classic`

Summary

- Use the Tkinter `PanedWindow` widget to divide the space of a window or a frame.