# Python 3 - Tkinter PanedWindow

A PanedWindow is a container widget that may contain any number of panes, arranged horizontally or vertically.

Each pane contains one widget and each pair of panes is separated by a moveable (via mouse movements) sash. Moving a sash causes the widgets on either side of the sash to be resized.

## Syntax

Here is the simple syntax to create this widget −

```
w = PanedWindow( 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 | **bg**<br>The color of the slider and arrowheads when the mouse is not over them. |
| 2 | **bd**<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. |
| 3 | **borderwidth**<br>Default is 2. |
| 4 | **cursor**<br>The cursor that appears when the mouse is over the window. |
| 5 | **handlepad**<br>Default is 8. |
| 6 | **handlesize**<br>Default is 8. |
| 9 | **height**<br>No default value. |
| 10 | **orient**<br>Default is HORIZONTAL. |
| 11 | **relief**<br>Default is FLAT. |
| 12 | **sashcursor**<br>No default value. |
| 13 | **sashrelief**<br>Default is RAISED. |
| 14 | **sashwidth**<br>Default is 2. |
| 15 | **showhandle**<br>No default value |
| 16 | **width**<br>No default value. |

## Methods

PanedWindow objects have these methods −

| Sr.No. | Method & Description |
|---|---|
| 1 | **add(child, options)**<br>Adds a child window to the paned window. |
| 2 | **get(startindex [,endindex])**<br>This method returns a specific character or a range of text. |
| 3 | **config(options)**<br>Modifies one or more widget options. If no options are given, the method returns a dictionary containing all current option values. |

## Example

Try the following example yourself. Here's how to create a 3-pane widget −

```
# !/usr/bin/python3
from tkinter import *

m1 = PanedWindow()
m1.pack(fill = BOTH, expand = 1)

left = Entry(m1, bd = 5)
m1.add(left)

m2 = PanedWindow(m1, orient = VERTICAL)
m1.add(m2)

top = Scale( m2, orient = HORIZONTAL)
m2.add(top)

bottom = Button(m2, text = "OK")
m2.add(bottom)

mainloop()
```

## Result

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