



# Ttk Widgets

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**Summary:** in this tutorial, you'll learn about Tk themed widgets by using the `Tkinter.ttk` module.

## Introduction to Tk themed widgets

Tkinter has two generations of widgets:

- The old classic `tk` widgets. Tkinter introduced them in 1991.
- The newer themed `ttk` widgets added in 2007 with Tk 8.5. The newer Tk themed widgets replace many (but not all) classic widgets.

Note that `ttk` stands for Tk themed. Therefore, Tk themed widgets are the same as `ttk` widgets

The `tkinter.ttk` module contains all the new `ttk` widgets. It's a good practice to always use themed widgets whenever they're available.

The following statements import the classic and the new Tk themed widgets:

```
import tkinter as tk
from tkinter import ttk
```

And the following program illustrates how to create classic and themed labels:

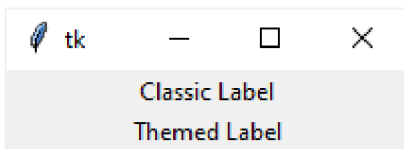
```
import tkinter as tk
from tkinter import ttk

root = tk.Tk()

tk.Label(root, text='Classic Label').pack()
ttk.Label(root, text='Themed Label').pack()

root.mainloop()
```

Output:



They look similar. However, their appearances depend on the platform on which the program runs.

## Advantages of using Tk themed widgets

By using the Tk themed widgets, you gain the following advantages:

- Separating the widget's behavior and appearance – the ttk widgets attempt to separate the code that implements the widgets' behaviors from their appearance through the [styling system](https://www.pythontutorial.net/tkinter/ttk-style/) (<https://www.pythontutorial.net/tkinter/ttk-style/>) .
- Native look & feel – the ttk widgets have the native look and feel of the platform on which the program runs.
- Simplify the state-specific widget behaviors – the ttk widgets simplify and generalize the [state-specific widget behavior](https://www.pythontutorial.net/tkinter/ttk-style-map/) (<https://www.pythontutorial.net/tkinter/ttk-style-map/>) .

## The ttk widgets

The following **ttk** widgets replace the Tkinter widgets with the same names:

- [Button](https://www.pythontutorial.net/tkinter/tkinter-button/) (<https://www.pythontutorial.net/tkinter/tkinter-button/>)

- [Checkbox](https://www.pythontutorial.net/tkinter/tkinter-checkbox/) (<https://www.pythontutorial.net/tkinter/tkinter-checkbox/>)
- [Entry](https://www.pythontutorial.net/tkinter/tkinter-entry/) (<https://www.pythontutorial.net/tkinter/tkinter-entry/>)
- [Frame](https://www.pythontutorial.net/tkinter/tkinter-frame/) (<https://www.pythontutorial.net/tkinter/tkinter-frame/>)
- [Label](https://www.pythontutorial.net/tkinter/tkinter-label/) (<https://www.pythontutorial.net/tkinter/tkinter-label/>)
- [LabelFrame](https://www.pythontutorial.net/tkinter/tkinter-labelframe/) (<https://www.pythontutorial.net/tkinter/tkinter-labelframe/>)
- [Menubutton](https://www.pythontutorial.net/tkinter/tkinter-menubutton/) (<https://www.pythontutorial.net/tkinter/tkinter-menubutton/>)
- [PanedWindow](https://www.pythontutorial.net/tkinter/tkinter-panedwindow/) (<https://www.pythontutorial.net/tkinter/tkinter-panedwindow/>)
- [Radiobutton](https://www.pythontutorial.net/tkinter/tkinter-radio-button/) (<https://www.pythontutorial.net/tkinter/tkinter-radio-button/>)
- [Scale](https://www.pythontutorial.net/tkinter/tkinter-slider/) (<https://www.pythontutorial.net/tkinter/tkinter-slider/>)
- [Scrollbar](https://www.pythontutorial.net/tkinter/tkinter-scrollbar/) (<https://www.pythontutorial.net/tkinter/tkinter-scrollbar/>)
- [Spinbox](https://www.pythontutorial.net/tkinter/tkinter-spinbox/) (<https://www.pythontutorial.net/tkinter/tkinter-spinbox/>)

And the following widgets are new and specific to `ttk` :

- [Combobox](https://www.pythontutorial.net/tkinter/tkinter-combobox/) (<https://www.pythontutorial.net/tkinter/tkinter-combobox/>)
- [Notebook](https://www.pythontutorial.net/tkinter/tkinter-notebook/) (<https://www.pythontutorial.net/tkinter/tkinter-notebook/>)
- [Progressbar](https://www.pythontutorial.net/tkinter/tkinter-progressbar/) (<https://www.pythontutorial.net/tkinter/tkinter-progressbar/>)
- [Separator](https://www.pythontutorial.net/tkinter/tkinter-separator/) (<https://www.pythontutorial.net/tkinter/tkinter-separator/>)
- [Sizegrip](https://www.pythontutorial.net/tkinter/tkinter-sizegrip/) (<https://www.pythontutorial.net/tkinter/tkinter-sizegrip/>)
- [Treeview](https://www.pythontutorial.net/tkinter/tkinter-treeview/) (<https://www.pythontutorial.net/tkinter/tkinter-treeview/>)

## Summary

- Tkinter has both classic and themed widgets. The Tk themed widgets are also known as `ttk` widgets.
- The `tkinter.ttk` module contains all the `ttk` widgets.
- Do use `ttk` widgets whenever they're available.