



Tkinter Themes

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Summary: in this tutorial, you'll learn how to change the Tkinter theme from one to another.

Introduction to Tkinter ttk themes

In Tkinter, a theme determines the "look & feel" of all the widgets. It's a collection of [styles](https://www.pythontutorial.net/tkinter/ttk-style/) (<https://www.pythontutorial.net/tkinter/ttk-style/>) for all the [ttk widgets](https://www.pythontutorial.net/tkinter/ttk-widgets/) ([https://www.pythontutorial.net/tkinter/ttk/](https://www.pythontutorial.net/tkinter/ttk-widgets/)) .

A style specifies the appearance of a widget class e.g., a Button. Each theme comes with a set of styles. It's possible to change the appearance of widgets by:

- Modifying the built-in styles
- or creating new styles

Tkinter allows you to change the current theme to another. When you change the current theme to a new one, Tkinter will apply the styles of that theme to all the [ttk widgets](https://www.pythontutorial.net/tkinter/ttk-widgets/) ([https://www.pythontutorial.net/tkinter/ttk/](https://www.pythontutorial.net/tkinter/ttk-widgets/)) .

To get the available themes, you use the `theme_names()` method of the `ttk.Style` instance.

First, create a new instance of the `ttk.Style` class:

```
style = ttk.Style(root)
```

Second, get the available themes by calling the `theme_names()` method:

```
style.theme_names()
```

To get the current theme, you use the `theme_use()` method:

```
current_theme = style.theme_use()
```

Note that every operating system (OS) such as Windows, macOS, and Linux comes with its own predefined themes. If you use the `theme_names()` and `theme_use()` methods on different OS, you'll get different results.

To change the current theme to a new one, you pass the new theme name to the `theme_use()` method:

```
style.theme_use(theme_name)
```

The following program shows all themes in your system and allows you to change one theme to another:

```
import tkinter as tk
from tkinter import ttk

class App(tk.Tk):
    def __init__(self):
        super().__init__()

        # root window
        self.title('Theme Demo')
        self.geometry('400x300')
        self.style = ttk.Style(self)
```

```
# label
label = ttk.Label(self, text='Name:')
label.grid(column=0, row=0, padx=10, pady=10, sticky='w')

# entry
textbox = ttk.Entry(self)
textbox.grid(column=1, row=0, padx=10, pady=10, sticky='w')

# button
btn = ttk.Button(self, text='Show')
btn.grid(column=2, row=0, padx=10, pady=10, sticky='w')

# radio button
self.selected_theme = tk.StringVar()
theme_frame = ttk.LabelFrame(self, text='Themes')
theme_frame.grid(padx=10, pady=10, ipadx=20, ipady=20, sticky='w')

for theme_name in self.style.theme_names():
    rb = ttk.Radiobutton(
        theme_frame,
        text=theme_name,
        value=theme_name,
        variable=self.selected_theme,
        command=self.change_theme)
    rb.pack(expand=True, fill='both')

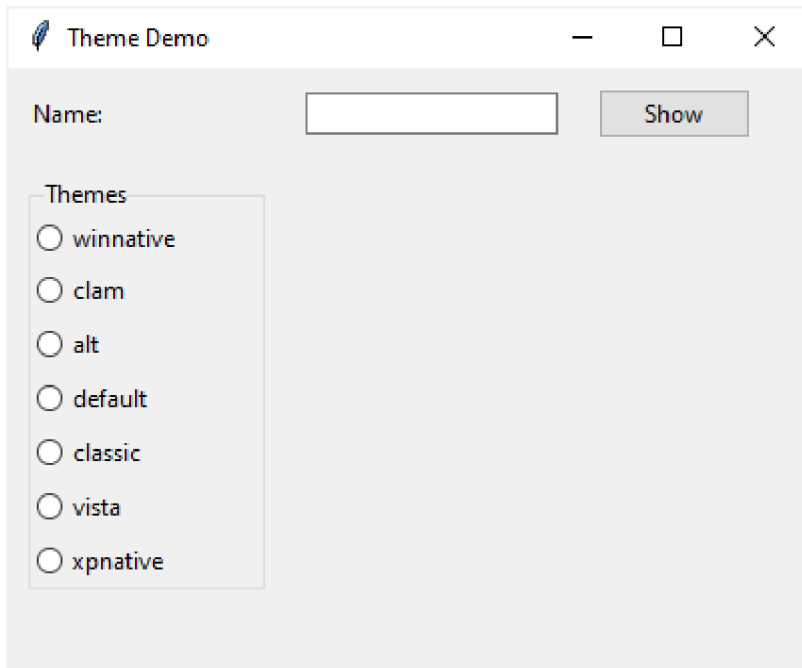
def change_theme(self):
    self.style.theme_use(self.selected_theme.get())

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

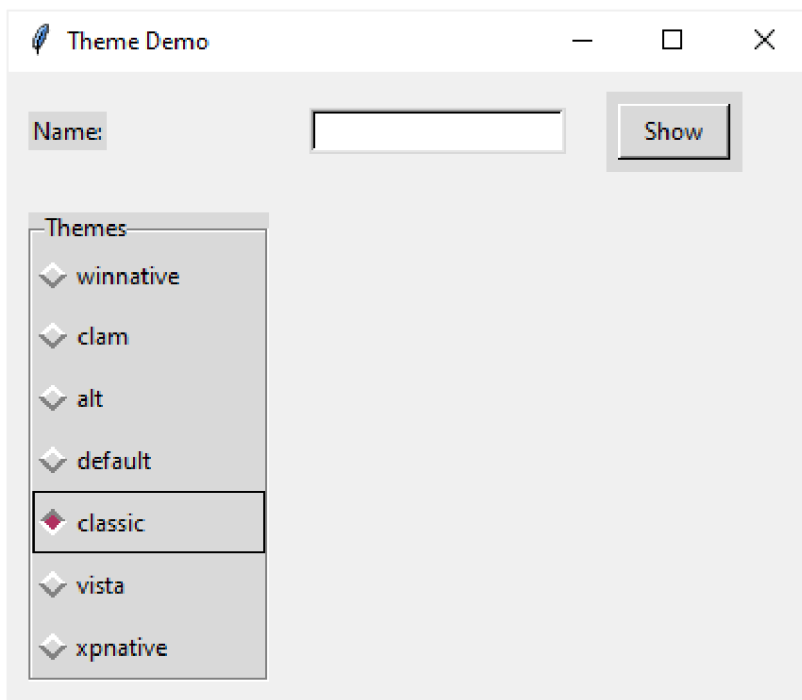
In this example, when you select a theme from the [radio button](#)

(<https://www.pythontutorial.net/tkinter/tkinter-radio-button/>) list, the `change_theme()` method will apply the selected theme.

If you run the program on Windows 10, you'll see the following window:



If you change the theme to classic, you'll see the style of the widgets ([Label](https://www.pythontutorial.net/tkinter/tkinter-label/) (<https://www.pythontutorial.net/tkinter/tkinter-label/>) , [Entry](https://www.pythontutorial.net/tkinter/tkinter-entry/) (<https://www.pythontutorial.net/tkinter/tkinter-entry/>) , [Button](https://www.pythontutorial.net/tkinter/tkinter-button/) (<https://www.pythontutorial.net/tkinter/tkinter-button/>) , [LabelFrame](https://www.pythontutorial.net/tkinter/tkinter-labelframe/) (<https://www.pythontutorial.net/tkinter/tkinter-labelframe/>) , and [Radio Button](https://www.pythontutorial.net/tkinter/tkinter-radio-button/) (<https://www.pythontutorial.net/tkinter/tkinter-radio-button/>)) change to the following:



Summary

- Create an instance of the `ttk.Style` class to access the style database.

- Use the `style.theme_names()` method to get available themes from the Operating System on which the Tkinter application is running.
- Use the `style.theme_use()` method to change the current theme to a new one.