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# **ttkthemes Documentation**

***Release v2.2.0***

**The ttkthemes authors**

**Nov 14, 2018**



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A group of themes for the ttk extensions for Tkinter gathered together by RedFantom and created by various authors.





The `ttkthemes` package contains many different themes created by many different authors. Some themes are even derived from other software, like `GTK-themes`.

### 1.1 GNU GPLv3 Themes

- `arc`: Copyright (c) 2015 Sergei Golovan
- `equilux`: Copyright (C) 2018 RedFantom
- `itft1`: Copyright (C) 2005 Jelco Huijser
- `ubuntu`: Copyright (C) Regents of the University of California, Sun Microsystems, Inc., Scriptics Corporation, and other parties. Copyright (C) 2018 RedFantom

### 1.2 Tcl-License Themes

- `aquativo`: Copyright (C) 2004 Pat Thoyts
- `black`: Copyright (c) 2007-2008 Mats Bengtsson
- `blue`: Copyright (C) 2004 Pat Thoyts
- `clearlooks`: Copyright Regents of the University of California, Sun Microsystems, Inc., Scriptics Corporation, and other parties
- `elegance`: Copyright Regents of the University of California, Sun Microsystems, Inc., Scriptics Corporation, and other parties
- `keramik` and `keramik_alt`: Copyright (C) 2004 Pat Thoyts
- `kroc`: Copyright (C) 2004 David Zolli
- `plastik`: Copyright (C) 2004 Pat Thoyts

- `radiance`: Copyright Regents of the University of California, Sun Microsystems, Inc., Scriptics Corporation, and other parties
- `smog`: Copyright (C) 2005 Jelco Huijser
- `winxpblue`: Copyright (C) 2004 Pat Thoyts



**class** `ttkthemes.themed_style.ThemedStyle(*args, **kwargs)`

Bases: `ttk.Style`, `ttkthemes._widget.ThemedWidget`

Style that supports setting the theme for a Tk instance. Can be used as a drop-in replacement for normal `ttk.Style` instances. Supports the themes provided by this package.

**\_\_init\_\_** (\*args, \*\*kwargs)

**Parameters** **theme** – Theme to set up initialization completion. If the theme is not available, fails silently.

**theme\_names** ()

Alias of `get_themes()` to allow for a drop-in replacement of the normal `ttk.Style` instance.

**Returns** Result of `get_themes()`

**theme\_use** (theme\_name=None)

Set a new theme to use or return current theme name

**Parameters** **theme\_name** – name of theme to use

**Returns** active theme name

**class** `ttkthemes.themedTk.ThemedTk(*args, **kwargs)`

Bases: `Tkinter.Tk`, `ttkthemes._widget.ThemedWidget`

Tk child class that supports the themes supplied in this package

A theme can be set upon initialization or during runtime. Can be used as a drop-in replacement for the normal Tk class. Additional options:

- Toplevel background color: `toplevel` If True, `ThemedTk` hooks into the `Toplevel.__init__` function to set a default window background color in the options passed. The hook is not removed after the window is destroyed, which is by design because creating multiple Tk instances should not be done in the first place.
- Tk background color: `background` If True, sets the background color of the Tkinter window to the default `TFrame` background color specified by the theme. For a custom background color, the `bg` alias can still be used.

`__init__ (*args, **kwargs)`

**Parameters**

- **theme** (*str*) – Theme to set upon initialization. If theme is not available, fails silently.
- **toplevel** (*bool*) – Control Toplevel background color option
- **background** (*bool*) – Control Tk background color option

**set\_theme** (*theme\_name*, *toplevel=False*, *background=False*)

Redirect the set\_theme call to also set Tk background color

**class** ttkthemes.\_widget.ThemedWidget (*tk\_interpreter*, *gif\_override=False*)

Bases: object

Provides functions to manipulate themes in order to reduce code duplication in the ThemedTk and ThemedStyle classes.

`__init__ (tk_interpreter, gif_override=False)`

Initialize attributes and call \_load\_themes

**Parameters**

- **tk\_interpreter** – tk interpreter for tk.Widget that is being initialized as ThemedWidget. Even if this Widget is just a single widget, the changes affect all widgets with the same parent Tk instance.
- **gif\_override** – Force loading of GIF-themes even if PNG-themes can be loaded

**get\_themes** ()

Return a list of names of available themes

**set\_theme** (*theme\_name*)

Set new theme to use. Uses a direct tk call to allow usage of the themes supplied with this package.

**Parameters** **theme\_name** – name of theme to activate

**set\_theme\_advanced** (*theme\_name*, *brightness=1.0*, *saturation=1.0*, *hue=1.0*, *preserve\_transparency=True*, *output\_dir=None*, *advanced\_name='advanced'*)

Load an advanced theme that is dynamically created

Applies the given modifiers to the images of the theme given and then creates a theme from these new images with the name 'advanced' and then applies this theme. Is not available without support for PNG-based themes, then raises RuntimeError.

**themes**

Property alias of get\_themes()

## CHAPTER 3

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### Example

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Using `ttkthemes` is easiest through the usage of `ThemedTk`. The following example is written for Python 3.

```
from tkinter import ttk # Normal Tkinter.* widgets are not themed!
from ttkthemes import ThemedTk

window = ThemedTk("arc")
ttk.Button(window, text="Quit", command=window.destroy).pack()
window.mainloop()
```



The installation of `ttkthemes` is very simple. There are a few ways to install `ttkthemes`.

### 4.1 PyPI

Installation from PyPI is easiest. Simply use `pip` to fetch the package and install it:

```
python3 -m pip install ttkthemes
```

There is a single installation option available for `ttkthemes`. In order to use the high-quality PNG-themes instead of the GIF-themes, an extension is required under Python 2 and some earlier distributions of Python 3. Simply install the extension with `pip` as well.

```
python3 -m pip install ttkthemes[tkimg]
```

This option installs the separate package `tkimg`, for which more information is available from [here](#).

### 4.2 Source

Installation from git is also possible:

```
python3 -m pip install git+https://github.com/RedFantom/ttkthemes
```



ttkthemes: A group of themes for the ttk extensions of Tcl

- Copyright (C) 2017-2018 RedFantom
- Copyright (C) 2017-2018 Akuli
- Copyright (C) 2004 Pat Thoyts
- Copyright (C) 2004 David Zolli
- Copyright (C) 2007-2008 Mats Bengsston
- Copyright (C) 2015-2018 The materia and equilux authors
- Copyright (C) 2005 Jelco Huijser
- Copyright (C) Regents of the University of California, Sun Microsystems, Inc., Scriptics Corporation, and other parties.

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You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

Please note that while you can use some themes **only** under GPLv3 and that my code is also available **only** under GPLv3, some themes, of which the files have a header explicitly stating this, are also available under the BSD-like 2-clause Tcl license.





## CHAPTER 6

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### Recommendations

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The themes `plastik`, `clearlooks` and `elegance` are recommended to make your UI look nicer on all platforms when using `Tkinter` and the `ttk` extensions in Python. When you are targeting Ubuntu, consider using the great `radiance` theme.



## Symbols

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