
wx-icons-suru

Release 0.1.2

Suru icon theme for wxPython

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May 13, 2024

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This package provides a wxPython wxArtProvider class with icons from the Suru Icon Theme.

Installation

1.1 from PyPI

```
$ python3 -m pip install wx_icons_suru --user
```

1.2 from GitHub

```
$ python3 -m pip install git+https://github.com/domdfcoding/custom_wx_icons_suru@master --user
```


Documentation

2.1 Usage

To use `wx_icons_suru` in your application:

```
# this package
from wx_icons_suru import wxSuruIconTheme

class MyApp(wx.App):

    def OnInit(self):
        wx.ArtProvider.Push(wxSuruIconTheme())
        self.frame = TestFrame(None, wx.ID_ANY)
        self.SetTopWindow(self.frame)
        self.frame.Show()
        return True
```

And then the icons can be accessed through `wx.ArtProvider`:

```
wx.ArtProvider.GetBitmap("document-new", wx.ART_OTHER, wx.Size(48, 48))
```

Any `FreeDesktop Icon Theme Specification` name can be used.

Currently the `Client ID` is not used, so just pass `wx.ART_OTHER`.

2.2 API Reference

Suru icon theme for wxPython.

Classes:

SuruIconTheme(name, comment, directories[, ...])

wxSuruIconTheme()

Functions:

version()

Returns the version of this package and the icon theme, formatted for printing.

```
class SuruIconTheme(name, comment, directories, inherits=None, scaled_directories=None,
                    hidden=False, example="")
    Bases: HumanityIconTheme
```

Attributes:

`__class_getitem__`

`__slots__`

Methods:

`__copy__()`

`__deepcopy__([memodict])`

`__eq__(other)` Return `self == other`.

`__getstate__()`

rtype `Dict[str, ~_V]`

`__iter__()` Iterate over the attributes of the class.

`__repr__()` Return a string representation of the `IconTheme`.

`__setstate__(state)`

`__str__()` Return `str(self)`.

`create()` Create an instance of the Suru Icon Theme.

`find_icon(icon_name, size, scale[, ...])`

type `icon_name` `str`

`from_configparser(theme_index_path)` Constructs a `IconTheme` from config file.

`__class_getitem__ = <bound method GenericAlias of <class 'wx_icons_suru.SuruIconTheme'>``Type: MethodType``__copy__()``__deepcopy__(memodict={})``__eq__(other)``Return self == other.``Return type bool``__getstate__()``Return type Dict[str, ~_V]``__iter__()``Iterate over the attributes of the class.``Return type Iterator[Tuple[str, ~_V]]``__repr__()``Return a string representation of the IconTheme.``Return type str``__setstate__(state)`

__slots__ = ()
Type: `tuple`

__str__()
 Return `str(self)`.
Return type `str`

classmethod create()
 Create an instance of the Suru Icon Theme.
Return type `SuruIconTheme`

find_icon(*icon_name*, *size*, *scale*, *prefer_this_theme=True*)

Parameters

- **icon_name**(`str`)
- **size**(`int`)
- **scale**(`Any`)
- **prefer_this_theme**(`bool`) –

Return an icon from this theme even if it has to be resized, rather than a correctly sized icon from the parent theme.

Default `True`.

Returns

Return type `Optional[Icon]`

classmethod from_configparser(*theme_index_path*)
 Constructs a `IconTheme` from config file.

Parameters **theme_index_path**(`Union[str, Path, PathLike]`)

Return type `IconTheme`

inherits

Type: `List[str]`

scaled_directories

Type: `List[Directory]`

version()
 Returns the version of this package and the icon theme, formatted for printing.

Return type `str`

class wxSuruIconTheme
 Bases: `wxHumanityIconTheme`

Methods:

<code>CreateBitmap(id, client, size)</code>	Returns the requested resource.
<code>HasNativeProvider()</code>	
	rtype <code>bool</code>
<code>icon2bitmap(icon, size)</code>	Converts an <code>Icon</code> to a <code>wx.Bitmap</code> .

CreateBitmap (*id, client, size*)

Returns the requested resource.

Parameters

- **id** (`Any`) – Unique identifier of the bitmap.
- **client** (`Any`) – Identifier of the client (i.e. who is asking for the bitmap). This only serves as a hint.
- **size** (`Union[Tuple[int], Size]`) – Preferred size of the bitmap. The function may return a bitmap of different dimensions; it will be automatically rescaled to meet client's request.

Return type `Bitmap`

static HasNativeProvider ()

Return type `bool`

static icon2bitmap (*icon, size*)

Converts an `Icon` to a `wx.Bitmap`.

Parameters

- **icon** (`Icon`)
- **size** (`int`) – The desired size of the icon. If the icon isn't scalable the icon is returned in its original size.

Return type `Bitmap`

2.3 Overview

`wx_icons_suru` uses `tox` to automate testing and packaging, and `pre-commit` to maintain code quality.

Install `pre-commit` with `pip` and install the git hook:

```
$ python -m pip install pre-commit
$ pre-commit install
```

2.4 Coding style

`formate` is used for code formatting.

It can be run manually via `pre-commit`:

```
$ pre-commit run formate -a
```

Or, to run the complete autoformatting suite:

```
$ pre-commit run -a
```

2.5 Automated tests

Tests are run with `tox` and `pytest`. To run tests for a specific Python version, such as Python 3.6:

```
$ tox -e py36
```

To run tests for all Python versions, simply run:

```
$ tox
```

2.6 Type Annotations

Type annotations are checked using `mypy`. Run `mypy` using `tox`:

```
$ tox -e mypy
```

2.7 Build documentation locally

The documentation is powered by Sphinx. A local copy of the documentation can be built with `tox`:

```
$ tox -e docs
```

2.8 Downloading source code

The `wx_icons_suru` source code is available on GitHub, and can be accessed from the following URL: https://github.com/domdfcoding/custom_wx_icons_suru

If you have `git` installed, you can clone the repository with the following command:

```
$ git clone https://github.com/domdfcoding/custom_wx_icons_suru
```

```
Cloning into 'custom_wx_icons_suru'...
remote: Enumerating objects: 47, done.
remote: Counting objects: 100% (47/47), done.
remote: Compressing objects: 100% (41/41), done.
remote: Total 173 (delta 16), reused 17 (delta 6), pack-reused 126
Receiving objects: 100% (173/173), 126.56 KiB | 678.00 KiB/s, done.
Resolving deltas: 100% (66/66), done.
```

Alternatively, the code can be downloaded in a ‘zip’ file by clicking:

Clone or download → Download Zip

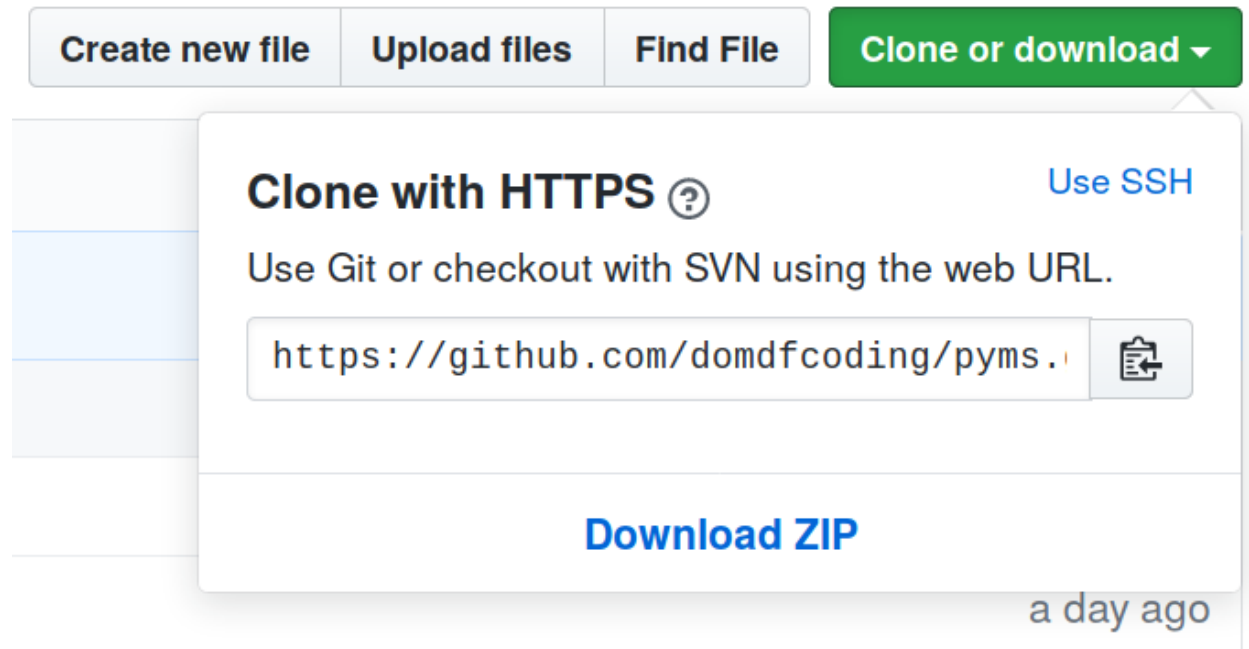


Fig. 1: Downloading a ‘zip’ file of the source code

2.8.1 Building from source

The recommended way to build `wx_icons_suru` is to use `tox`:

```
$ tox -e build
```

The source and wheel distributions will be in the directory `dist`.

If you wish, you may also use `pep517.build` or another **PEP 517**-compatible build tool.

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```

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