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# Python.Cli2Gui

Use this module to convert a CLI program to a GUI

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## Comparison to similar projects

Do let me know if any of these are incorrect. Some of the comparisons are based off documentation/ the readme

|  |  |  |  |
| --- | --- | --- | --- |
| Argparser | Cli2Gui | Gooey | Quick |
| Argparse | :heavy\_check\_mark: | :heavy\_check\_mark: | X |
| Optparse | :heavy\_check\_mark: | X | X |
| DocOpt | :heavy\_check\_mark: | X | X |
| Click | X [Planned] | X | :heavy\_check\_mark: |
| GetOpt | :heavy\_check\_mark: | X | X |

|  |  |  |  |
| --- | --- | --- | --- |
| Basic GUI | Cli2Gui | Gooey | Quick |
| Override name/ description | :heavy\_check\_mark: | :heavy\_check\_mark: | ? |
| Theming | :heavy\_check\_mark: | Limited | ? |
| DarkMode | :heavy\_check\_mark: | X | :heavy\_check\_mark: |
| Window Size | :heavy\_check\_mark: | :heavy\_check\_mark: | X |
| Element Size | :heavy\_check\_mark: | X | X |
| Custom Images | :heavy\_check\_mark: | :heavy\_check\_mark: | ? |

Cli2Gui is pretty lacking in these features and will probably remain that way to ease maintainability - the primary aim is to support multiple argparse libraries over fancy widgets

|  |  |  |  |
| --- | --- | --- | --- |
| Advanced GUI | Cli2Gui | Gooey | Quick |
| Dropdown | :heavy\_check\_mark: | :heavy\_check\_mark: | :heavy\_check\_mark: |
| Slider | X | :heavy\_check\_mark: | :heavy\_check\_mark: |
| Tabs | X | :heavy\_check\_mark: | :heavy\_check\_mark: |
| Menus | X | :heavy\_check\_mark: | X |
| Max Args before Scroll | :heavy\_check\_mark: | X | X |

## Roadmap

For completed components, see the changelog (link below)

|  |  |  |
| --- | --- | --- |
| Feature | Description | Status |
| Click | https://github.com/pallets/click | Created file with TODO |
| Gui-Menus | Menu with help text and readme | - |

## Changelog

See the [CHANGELOG](/CHANGELOG.md) for more information.

## Decorator

@Cli2Gui(run\_function, auto\_enable=False, argparser="argparse", theme=None, darkTheme=None, sizes=None, image=None,  
program\_name=None, program\_description=None, max\_args\_shown=5, \*\*kwargs):

## Using the decorator in your project

### run\_function (optional)

The name of the function to call eg. main(args). Defaults to None. If not specified, program continues as normal (can only run once)

def main(args):  
 print(args.arg)  
  
@Cli2Gui(run\_function=main)  
def cli():  
 parser = argparse.ArgumentParser(description="this is an example parser")  
 parser.add\_argument("arg", type=str,  
 help="positional arg")  
 args = parser.parse\_args()  
 main(args)

### auto\_enable (optional)

Enable the GUI by default. If enabled by default requires --disable-cli2gui, otherwise requires --cli2gui

@Cli2Gui(auto\_enable=False)

### argparser (optional)

Override the argparser to use, defaults to argparse. Current options are: “argparse”, “getopt”, “optparse”, “docopt”

@Cli2Gui(argparser="argparse")

### theme (optional)

Set a base24 theme. Can also pass a base24 scheme file. eg. one-light.yaml

@Cli2Gui(theme=["#e7e7e9", "#dfdfe1", "#cacace", "#a0a1a7", "#696c77",  
 "#383a42", "#202227", "#090a0b", "#ca1243", "#c18401", "#febb2a",  
 "#50a14f", "#0184bc", "#4078f2", "#a626a4", "#986801", "#f0f0f1",  
 "#fafafa", "#ec2258", "#f4a701", "#6db76c", "#01a7ef", "#709af5",  
 "#d02fcd",])

### darkTheme (optional)

Set a base24 dark theme variant. Can also pass a base24 scheme file. eg. one-dark.yaml

@Cli2Gui(darkTheme=["#282c34", "#3f4451", "#4f5666", "#545862", "#9196a1",  
 "#abb2bf", "#e6e6e6", "#ffffff", "#e06c75", "#d19a66", "#e5c07b",  
 "#98c379", "#56b6c2", "#61afef", "#c678dd", "#be5046", "#21252b",  
 "#181a1f", "#ff7b86", "#efb074", "#b1e18b", "#63d4e0", "#67cdff",  
 "#e48bff",])

### sizes (optional)

Set the UI sizes such as the button size

@Cli2Gui(sizes={  
 "title\_size": 28,  
 "label\_size": (30, None),  
 "input\_size": (30, 1),  
 "button":(10, 1),  
 "padding":(5, 10),  
 "helpText\_size": 14,  
 "text\_size": 11  
 })

### image (optional)

Set the program icon. File extensions can be any that PIL supports

@Cli2Gui(image="path/to/image.png")

### program\_name (optional)

Override the program name

@Cli2Gui(program\_name="custom name")

### program\_description (optional)

Override the program description

@Cli2Gui(program\_description="this is a custom description")

### max\_args\_shown (optional)

Maximum number of args shown before using a scrollbar

@Cli2Gui(max\_args\_shown=5)

## Install With PIP

pip install cli2gui

Head to https://pypi.org/project/cli2gui/ for more info

## Language information

### Built for

This program has been written for Python 3 and has been tested with Python version 3.8.0 <https://www.python.org/downloads/release/python-380/>.

## Install Python on Windows

### Chocolatey

choco install python

### Download

To install Python, go to <https://www.python.org/> and download the latest version.

## Install Python on Linux

### Apt

sudo apt install python3.8

## How to run

### With VSCode

1. Open the .py file in vscode
2. Ensure a python 3.8 interpreter is selected (Ctrl+Shift+P > Python:Select Interpreter > Python 3.8)
3. Run by pressing Ctrl+F5 (if you are prompted to install any modules, accept) ### From the Terminal

./[file].py

## Download

### Clone

#### Using The Command Line

1. Press the Clone or download button in the top right
2. Copy the URL (link)
3. Open the command line and change directory to where you wish to clone to
4. Type ‘git clone’ followed by URL in step 2

$ git clone https://github.com/FredHappyface/Python.Cli2Gui

More information can be found at <https://help.github.com/en/articles/cloning-a-repository>

#### Using GitHub Desktop

1. Press the Clone or download button in the top right
2. Click open in desktop
3. Choose the path for where you want and click Clone

More information can be found at <https://help.github.com/en/desktop/contributing-to-projects/cloning-a-repository-from-github-to-github-desktop>

### Download Zip File

1. Download this GitHub repository
2. Extract the zip archive
3. Copy/ move to the desired location

## Licence

MIT License (See the [LICENSE](/LICENSE.md) for more information.)

## Screenshots

### Desktop

### Themes

|  |  |  |
| --- | --- | --- |
| Light | Dark | Black |
|  |  |  |