

I'm not robot!

This is the code repository for Python GUI Programming Cookbook - Third Edition , published by Packt. Develop functional and responsive user interfaces with tkinter and PyQt5 What is this book about? Python is a multi-domain, interpreted programming language that is easy to learn and implement. With its wide support for frameworks to develop GUIs, you can build interactive and beautiful GUI-based applications easily using Python. This third edition of Python GUI Programming Cookbook follows a task-based approach to help you create effective GUIs with the smallest amount of code. Every recipe in this book builds upon the last to create an entire, real-life GUI application. These recipes also help you solve problems that you might encounter while developing GUIs. This book mainly focuses on using Python's built-in tkinter GUI framework. You'll learn how to create GUIs in Python using simple programming styles and object-oriented programming (OOP). As you add more widgets and expand your GUI, you will learn how to connect to networks, databases, and graphical libraries that greatly enhance the functionality of your GUI. You'll also learn how to use threading to ensure that your GUI doesn't become unresponsive. Toward the end, you'll learn about the versatile PyQt GUI framework, which comes along with its own visual editor that allows you to design GUIs using drag and drop features. By the end of the book, you'll be an expert in designing Python GUIs and be able to develop a variety of GUI applications with ease. This book covers the following exciting features: Create amazing GUIs with Python's built-in tkinter module Customize GUIs using layout managers to arrange GUI widgets Advance from the typical waterfall coding style to an OOP style using Python Develop beautiful charts using the free Matplotlib Python module Use threading in a networked environment to make GUIs responsive Discover ways to connect GUIs to a MySQL database Understand how unit tests can be created and internationalize GUI Delve into the world of GUI creation using PyQt5 If you feel this book is for you, get your copy today! Instructions and Navigations All of the code is organized into folders. For example, Chapter02. The code will look like the following: action = ttk.Button(win, text="Click Me!", command=click_me) action.grid(column=2, row=1) Following is what you need for this book: If you're a programmer or developer looking to enhance your Python skills by writing powerful GUI applications, this book is for you. Familiarity with the Python programming language is necessary to get the most out of the book. With the following software and hardware list you can run all code files present in the book (Chapter 1-11). Software and Hardware List Chapter Software required OS required 1-11 Python 3.7 Windows, Mac OS X, and Linux (Any) We also provide a PDF file that has color images of the screenshots/diagrams used in this book. Click here to download it. Related products Get to Know the Author Burkhard Meier has more than 19 years of professional experience working in the software industry as a software tester and developer, specializing in software test automation development, execution, and analysis. He has a very strong background in Python 3 software test automation development, as well as in SQL relational database administration, the development of stored procedures, and debugging code. His previous jobs include working as a senior test automation engineer and designer for InfoGenesis (now Agilysys), QAD, InTouch Health, and FLIR Systems. Over the past three years, he has also developed several video courses on Python for Packt, the latest course being Mastering Object-Oriented Programming with Python. Other books by the authors Python GUI Programming Cookbook - Second Edition Suggestions and Feedback Click here if you have any feedback or suggestions. This is the second instructable in the Python Programming Series. These two links are essential references to better understand the fundamentals:Python Programming - Environment SetupDigital Logic Gates (Part 1)Booleans are either True or False.The three logical operators defined on Booleans are:1. not 2. and 3. or These logical operators are listed in their order of operation as well. Also, the first figure in this step shows the rules of boolean algebra. As seen in the second figure, I have used the Python interpreter to do some examples in order to understand the function of each logical operator.Examples>>> not True False>>> False and True False >>>True or False True >>> True and not False TrueIt is also important to know that Python has a boolean interpretation for non-boolean values. For instance, any non zero value is interpreted as True and zero is interpreted as False.Furthermore, the following comparison operators are supported in Python:1. == (equal)2. != (not equal)3. > (strictly greater than)4. < (strictly less than)5. >= (greater than or equal)6. >> amount\$ = 50SyntaxError: invalid syntaxUnlike a variable, a constant refers to an identifier whose value is not supposed to change. There is no mechanism in Python that recognizes constants or treats them differently than variables. However, the convention is to use uppercase letters for the names of constants in order to be easily recognized. For example:LENGTH= 100MAX_WEIGHT = 5Explicitly identifying constant in our programs is a good practice because it makes our code more readable and maintainable. Distinguishing the difference between the assignment operator (=) and the comparison operator (==).Here is an example:>>> weight = 10weight is a variable that is assigned to the value 10. The "=" sign is an assignment operator >>> weight == 1False "=" is a comparison operator, and weight == 1 is equivalent to "Is weight equal to 1?"Also, "weight == 1" is just a comparison expression, and thus it does not change the value of the variable. Thank you for checking out this instructable. Please feel free to share any feedback, comments, or questions in the comments section. In the next instructable, I will cover:1. Strings.2. Conversion functions. 3. Input and output. 4. Comments and documentation.

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