

Bhaskar Chaudhary

Tkinter GUI Application Development Blueprints

Second Edition

Build nine projects by working with widgets, geometry management, event handling, and more



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Tkinter GUI Application Development Blueprints Bhaskar Chaudhary, 2015-11-30 Master GUI programming in Tkinter as you design implement and deliver ten real world applications from start to finish About This Book Conceptualize and build state of art GUI applications with Tkinter Tackle the complexity of just about any size GUI application with a structured and scalable approach A project based practical guide to get hands on into Tkinter GUI development Who This Book Is For Software developers scientists researchers engineers students or programming hobbyists with basic familiarity in Python will find this book interesting and informative People familiar with basic programming constructs in other programming language can also catch up with some brief reading on Python No GUI programming experience is expected What You Will Learn Get to know the basic concepts of GUI programming such as Tkinter top level widgets geometry management event handling using callbacks custom styling and dialogs Create apps that can be scaled in size or complexity without breaking down the core Write your own GUI framework for maximum code reuse Build apps using both procedural and OOP styles understanding the strengths and limitations of both styles Learn to structure and build large GUI applications based on Model View Controller MVC architecture Build multithreaded and database driven apps Create apps that leverage resources from the network Learn basics of 2D and 3D animation in GUI applications Develop apps that can persist application data with object serialization and tools such as configparser In Detail Tkinter is the built in GUI package that comes with standard Python distributions It is a cross platform package which means you build once and deploy everywhere It is simple to use and intuitive in nature making it suitable for programmers and non programmers alike This book will help you master the art of GUI programming It delivers the bigger picture of GUI programming by building real world productive and fun applications such as a text editor drum machine game of chess media player drawing application chat application screen saver port scanner and many more In every project you will build on the skills acquired in the previous project and gain more expertise You will learn to write multithreaded programs network programs database driven programs and more You will also get to know the modern best practices involved in writing GUI apps With its rich source of sample code you can build upon the knowledge gained with this book and use it in your own projects in the discipline of your choice Style and approach An easy to follow guide full of hands on examples of real world GUI programs The first chapter is a must read as it explains most of the things you need to get started with writing GUI programs with Tkinter Each subsequent chapter is a stand alone project that discusses some aspects of GUI programming in detail These chapters can be read sequentially or randomly depending upon the readers experience with Python

Tkinter GUI Application Development Blueprints, Second Edition
Bhaskar Chaudhary, 2018-03-20 Geometry Management Event Handling and more Key Features A Practical guide to learn the application of Python and GUI programming with tkinter Create multiple cross platform real world projects by integrating host of third party libraries and tools Learn to build beautiful and highly interactive user interfaces targeting multiple devices

Book Description Tkinter is the built in GUI package that comes with standard Python distributions It is a cross platform package which means you build once and deploy everywhere It is simple to use and intuitive in nature making it suitable for programmers and non programmers alike This book will help you master the art of GUI programming It delivers the bigger picture of GUI programming by building real world productive and fun applications such as a text editor drum machine game of chess audio player drawing application piano tutor chat application screen saver port scanner and much more In every project you will build on the skills acquired in the previous project and gain more expertise You will learn to write multithreaded programs network programs database driven programs asyncio based programming and more You will also get to know the modern best practices involved in writing GUI apps With its rich source of sample code you can build upon the knowledge gained with this book and use it in your own projects in the discipline of your choice What you will learn A Practical guide to help you learn the application of Python and GUI programming with Tkinter Create multiple cross platform real world projects by integrating a host of third party libraries and tools Learn to build beautiful and highly interactive user interfaces targeting multiple devices Who this book is for This book is for a beginner to intermediate level Pythonists who want to build modern cross platform GUI applications with the amazingly powerful Tkinter Prior knowledge of Tkinter is required

Tkinter GUI Application Development Cookbook Alejandro Rodas de Paz,2018-03-30 As one of the more versatile programming languages Python is well known for its batteries included philosophy which includes a rich set of modules in its standard library Tkinter is the library included for building desktop applications Due to this Tkinter is a common choice for rapid GUI development and more complex applications can

Python GUI Programming with Tkinter Alan D. Moore,2018-05-15 Find out how to create visually stunning and feature rich applications by empowering Python s built in Tkinter GUI toolkit Key Features Explore Tkinter s powerful features to easily design and customize your GUI application Learn the basics of 2D and 3D animation in GUI applications Learn to integrate stunning Data Visualizations using Tkinter Canvas and Matplotlib Book Description Tkinter is a lightweight portable and easy to use graphical toolkit available in the Python Standard Library widely used to build Python GUIs due to its simplicity and availability This book teaches you to design and build graphical user interfaces that are functional appealing and user friendly using the powerful combination of Python and Tkinter After being introduced to Tkinter you will be guided step by step through the application development process Over the course of the book your application will evolve from a simple data entry form to a complex data management and visualization tool while maintaining a clean and robust design In addition to building the GUI you ll learn how to connect to external databases and network resources test your code to avoid errors and maximize performance using asynchronous programming You ll make the most of Tkinter s cross platform availability by learning how to maintain compatibility mimic platform native look and feel and build executables for deployment across popular computing platforms By the end of this book you will have the skills and confidence to design and build powerful high end GUI applications to

solve real world problems What you will learn Implement the tools provided by Tkinter to design beautiful GUIs Discover cross platform development through minor customizations in your existing application Visualize graphs in real time as data comes in using Tkinter s animation capabilities Use PostgreSQL authentication to ensure data security for your application Write unit tests to avoid regressions when updating code Who this book is for This book will appeal to developers and programmers who would like to build GUI based applications Knowledge of Python is a prerequisite

Tkinter GUI Application Development Hotshot Bhaskar Chaudhary,2013-10 Practical real world example projects Start with the topics that grab your attention or work through each project in sequence If you have just started with GUI programming this book is ideal for you This book is also great if you are an experienced software developer scientist researcher engineer student or hobbyist

[Tkinter GUI Application Development Projects](#) Bhaskar Chaudhary,2016 Tkinter is the built in GUI package that comes with standard Python distributions It is a cross platform package which means you build once and deploy everywhere It is simple to use and intuitive in nature making it suitable for programmers and non programmers alike This video will help you master the art of GUI programming You will learn to write multi threaded programs network programs database driven programs and more You will also get to know the modern best practices involved in writing GUI apps With its rich source of sample code you can build upon the knowledge gained with this video and use it in your own projects in the discipline of your choice Resource description page

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