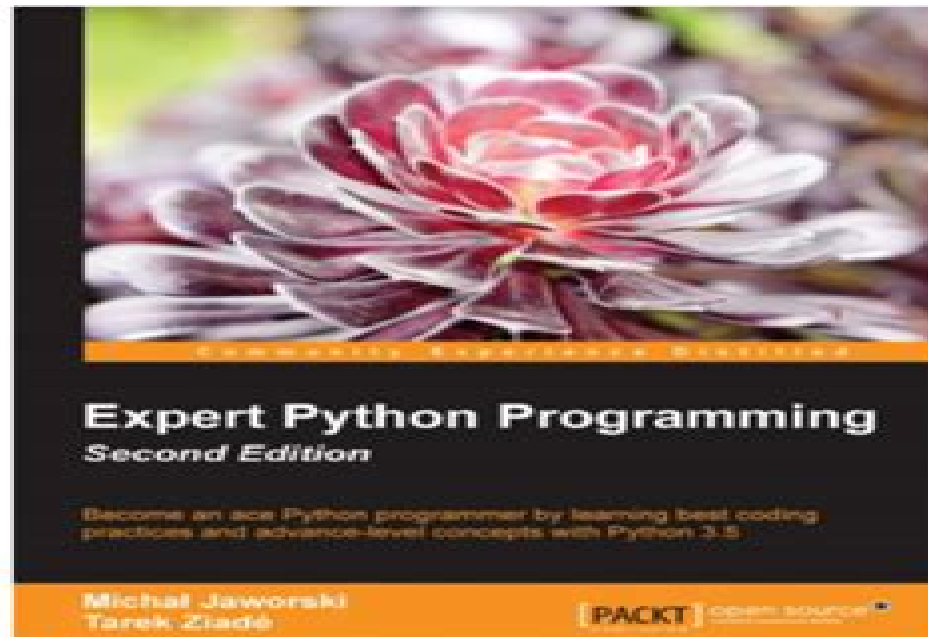


# Expert Python Programming Second Edition Michal Jaworski Tarek Ziade



# Expert Python Programming Ziade Tarek

**Steven F. Lott, Dusty Phillips**



## **Expert Python Programming Ziade Tarek:**

Expert Python Programming Michal Jaworski,Tarek Ziade,2016-05-20 Become an ace Python programmer by learning best coding practices and advance level concepts with Python 3 5 About This Book Based on the latest stable version of Python version 3 5 Creating well manageable code that will run in various environments with different sets of dependencies Packed with advanced concepts and best practices to write efficient Python code Who This Book Is For The book would appeal to web developers and Python programmers who want to start using version 3 5 and write code efficiently Basic knowledge of Python programming is expected What You Will Learn Conventions and best practices that are widely adopted in the python community Package python code effectively for community and production use Easy and lightweight ways to automate code deployment on remote systems Improve your code s quality reliability and performance Write concurrent code in python Extend python with code written in different languages In Detail Python is a dynamic programming language used in a wide range of domains by programmers who find it simple yet powerful Even if you find writing Python code easy writing code that is efficient and easy to maintain and reuse is a challenge The focus of the book is to familiarize you with common conventions best practices useful tools and standards used by python professionals on a daily basis when working with code You will begin with knowing new features in Python 3 5 and quick tricks for improving productivity Next you will learn advanced and useful python syntax elements brought to this new version Using advanced object oriented concepts and mechanisms available in python you will learn different approaches to implement metaprogramming You will learn to choose good names write packages and create standalone executables easily You will also be using some powerful tools such as buildout and virtualenv to release and deploy the code on remote servers for production use Moving on you will learn to effectively create Python extensions with C C cython and pyrex The important factors while writing code such as code management tools writing clear documentation and test driven development are also covered You will now dive deeper to make your code efficient with general rules of optimization strategies for finding bottlenecks and selected tools for application optimization By the end of the book you will be an expert in writing efficient and maintainable code Style and approach An easy to follow guide that covers industry followed best practices in Python programming *Expert Python Programming* Michał Jaworski,Tarek Ziadé,2021-05-28 Gain a deep understanding of building maintaining packaging and shipping robust Python applications Key FeaturesDiscover the new features of Python such as dictionary merge the zoneinfo module and structural pattern matchingCreate manageable code to run in various environments with different sets of dependenciesImplement effective Python data structures and algorithms to write test and optimize codeBook Description This new edition of Expert Python Programming provides you with a thorough understanding of the process of building and maintaining Python apps Complete with best practices useful tools and standards implemented by professional Python developers this fourth edition has been extensively updated Throughout this book you ll get acquainted with the latest Python

improvements syntax elements and interesting tools to boost your development efficiency The initial few chapters will allow experienced programmers coming from different languages to transition to the Python ecosystem You will explore common software design patterns and various programming methodologies such as event driven programming concurrency and metaprogramming You will also go through complex code examples and try to solve meaningful problems by bridging Python with C and C writing extensions that benefit from the strengths of multiple languages Finally you will understand the complete lifetime of any application after it goes live including packaging and testing automation By the end of this book you will have gained actionable Python programming insights that will help you effectively solve challenging problems What you will learnExplore modern ways of setting up repeatable and consistent Python development environmentsEffectively package Python code for community and production useLearn modern syntax elements of Python programming such as f strings enums and lambda functionsDemystify metaprogramming in Python with metaclassesWrite concurrent code in PythonExtend and integrate Python with code written in C and C Who this book is for The Python programming book is intended for expert programmers who want to learn Python s advanced level concepts and latest features Anyone who has basic Python skills should be able to follow the content of the book although it might require some additional effort from less experienced programmers It should also be a good introduction to Python 3.9 for those who are still a bit behind and continue to use other older versions

**Expert Python Programming** Michał Jaworski,Tarek Ziadé,2019-04-30 Refine your Python programming skills and build professional grade applications with this comprehensive guide Key FeaturesCreate manageable code that can run in various environments with different sets of dependenciesImplement effective Python data structures and algorithms to write optimized codeDiscover the exciting new features of Python 3.7Book Description Python is a dynamic programming language that s used in a wide range of domains thanks to its simple yet powerful nature Although writing Python code is easy making it readable reusable and easy to maintain is challenging Complete with best practices useful tools and standards implemented by professional Python developers the third edition of Expert Python Programming will help you overcome this challenge The book will start by taking you through the new features in Python 3.7 You ll then learn the advanced components of Python syntax in addition to understanding how to apply concepts of various programming paradigms including object oriented programming functional programming and event driven programming This book will also guide you through learning the best naming practices writing your own distributable Python packages and getting up to speed with automated ways of deploying your software on remote servers You ll discover how to create useful Python extensions with C C Cython and CFFI Furthermore studying about code management tools writing clear documentation and exploring test driven development will help you write clean code By the end of the book you will have become an expert in writing efficient and maintainable Python code What you will learnExplore modern ways of setting up repeatable and consistent development environmentsPackage Python code effectively for community and production useLearn modern syntax elements of Python

programming such as f strings enums and lambda functionsDemystify metaprogramming in Python with metaclassesWrite concurrent code in PythonExtend Python with code written in different languagesIntegrate Python with code written in different languagesWho this book is for This book will appeal to you if you re a programmer looking to take your Python knowledge to the next level by writing efficient code and learning the latest features of version 3 7 and above     **Expert Python Programming, Second Edition** Michal Jaworski,Tarek Ziade,2016-05-20 Become an ace Python programmer by learning best coding practices and advance level concepts with Python 3 5About This Book Based on the latest stable version of Python version 3 5 Creating well manageable code that will run in various environments with different sets of dependencies Packed with advanced concepts and best practices to write efficient Python codeWho This Book Is ForThe book would appeal to web developers and Python programmers who want to start using version 3 5 and write code efficiently Basic knowledge of Python programming is expected What You Will Learn Conventions and best practices that are widely adopted in the python community Package python code effectively for community and production use Easy and lightweight ways to automate code deployment on remote systems Improve your code s quality reliability and performance Write concurrent code in python Extend python with code written in different languagesIn DetailPython is a dynamic programming language used in a wide range of domains by programmers who find it simple yet powerful Even if you find writing Python code easy writing code that is efficient and easy to maintain and reuse is a challenge The focus of the book is to familiarize you with common conventions best practices useful tools and standards used by python professionals on a daily basis when working with code You will begin with knowing new features in Python 3 5 and quick tricks for improving productivity Next you will learn advanced and useful python syntax elements brought to this new version Using advanced object oriented concepts and mechanisms available in python you will learn different approaches to implement metaprogramming You will learn to choose good names write packages and create standalone executables easily You will also be using some powerful tools such as buildout and virtualenv to release and deploy the code on remote servers for production use Moving on you will learn to effectively create Python extensions with C C cython and pyrex The important factors while writing code such as code management tools writing clear documentation and test driven development are also covered You will now dive deeper to make your code efficient with general rules of optimization strategies for finding bottlenecks and selected tools for application optimization By the end of the book you will be an expert in writing efficient and maintainable code Style and approach An easy to follow guide that covers industry followed best practices in Python programming     [Python: Journey from Novice to Expert](#) Fabrizio Romano,Dusty Phillips,Rick van Hattem,2016-08-31 Learn core concepts of Python and unleash its power to script highest quality Python programs About This Book Develop a strong set of programming skills with Python that you will be able to express in any situation on every platform thanks to Python s portability Stop writing scripts and start architecting programs by applying object oriented programming techniques in Python Learn the trickier aspects of

Python and put it in a structured context for deeper understanding of the language Who This Book Is For This course is meant for programmers who wants to learn Python programming from a basic to an expert level The course is mostly self contained and introduces Python programming to a new reader and can help him become an expert in this trade What You Will Learn Get Python up and running on Windows Mac and Linux in no time Grasp the fundamental concepts of coding along with the basics of data structures and control flow Understand when to use the functional or the object oriented programming approach Extend class functionality using inheritance Exploit object oriented programming in key Python technologies such as Kivy and Django Understand how and when to use the functional programming paradigm Use the multiprocessing library not just locally but also across multiple machines In Detail Python is a dynamic and powerful programming language having its application in a wide range of domains It has an easy to use simple syntax and a powerful library which includes hundreds of modules to provide routines for a wide range of applications thus making it a popular language among programing enthusiasts This course will take you on a journey from basic programming practices to high end tools and techniques giving you an edge over your peers It follows an interesting learning path divided into three modules As you complete each one you ll have gained key skills and get ready for the material in the next module The first module will begin with exploring all the essentials of Python programming in an easy to understand way This will lay a good foundation for those who are interested in digging deeper It has a practical and example oriented approach through which both the introductory and the advanced topics are explained Starting with the fundamentals of programming and Python it ends by exploring topics like GUIs web apps and data science In the second module you will learn about object oriented programming techniques in Python Starting with a detailed analysis of object oriented technique and design you will use the Python programming language to clearly grasp key concepts from the object oriented paradigm This module fully explains classes data encapsulation inheritance polymorphism abstraction and exceptions with an emphasis on when you can use each principle to develop well designed software With a good foundation of Python you will move onto the third module which is a comprehensive tutorial covering advanced features of the Python language Start by creating a project specific environment using venv This will introduce you to various Pythonic syntax and common pitfalls before moving onto functional features and advanced concepts thereby gaining an expert level knowledge in programming and teaching how to script highest quality Python programs Style and approach This course follows a theory cum practical approach having all the ingredients that will help you jump into the field of Python programming as a novice and grow up as an expert The aim is to create a smooth learning path that will teach you how to get started with Python and carry out expert level programming techniques at the end of course

**Python GUI Programming Cookbook** Burkhard A. Meier,2015-12-01 Over 80 object oriented recipes to help you create mind blowing GUIs in Python About This Book Use object oriented programming to develop amazing GUIs in Python Create a working GUI project as a central resource for developing your Python GUIs Packed with easy to follow

recipes to help you develop code using the latest released version of Python Who This Book Is For If you are a Python programmer with intermediate level knowledge of GUI programming and want to learn how to create beautiful effective and responsive GUIs using the freely available Python GUI frameworks this book is for you What You Will Learn Create amazing GUIs with Python s built in Tkinter module Customize the GUIs by using layout managers to arrange the GUI widgets Advance to an object oriented programming style using Python Develop beautiful charts using the free Matplotlib Python module Use threading in a networked environment to make the GUIs responsive Discover ways to connect the GUIs to a database Understand how unit tests can be created and internationalize the GUI Extend the GUIs with free Python frameworks using best practices In Detail Python is a multi domain interpreted programming language It is a widely used general purpose high level programming language It is often used as a scripting language because of its forgiving syntax and compatibility with a wide variety of different eco systems Its flexible syntax enables developers to write short scripts while at the same time they can use object oriented concepts to develop very large projects Python GUI Programming Cookbook follows a task based approach to help you create beautiful and very effective GUIs with the least amount of code necessary This book uses the simplest programming style using the fewest lines of code to create a GUI in Python and then advances to using object oriented programming in later chapters If you are new to object oriented programming OOP this book will teach you how to take advantage of the OOP coding style in the context of creating GUIs written in Python Throughout the book you will develop an entire GUI application building recipe upon recipe connecting the GUI to a database In the later chapters you will explore additional Python GUI frameworks using best practices You will also learn how to use threading to ensure your GUI doesn t go unresponsive By the end of the book you will be an expert in Python GUI programming to develop a common set of GUI applications Style and approach Every recipe in this programming cookbook solves a problem you might encounter in your programming career At the same time most of the recipes build on each other to create an entire real life GUI application

Advanced Python Programming Quan Nguyen,2022-03-25 Write fast robust and highly reusable applications using Python s internal optimization state of the art performance benchmarking tools and cutting edge libraries Key FeaturesBenchmark profile and accelerate Python programs using optimization toolsScale applications to multiple processors with concurrent programmingMake applications robust and reusable using effective design patternsBook Description Python s powerful capabilities for implementing robust and efficient programs make it one of the most sought after programming languages In this book you ll explore the tools that allow you to improve performance and take your Python programs to the next level This book starts by examining the built in as well as external libraries that streamline tasks in the development cycle such as benchmarking profiling and optimizing You ll then get to grips with using specialized tools such as dedicated libraries and compilers to increase your performance at number crunching tasks including training machine learning models The book covers concurrency a major solution to making programs more efficient and scalable and

various concurrent programming techniques such as multithreading multiprocessing and asynchronous programming You'll also understand the common problems that cause undesirable behavior in concurrent programs Finally you'll work with a wide range of design patterns including creational structural and behavioral patterns that enable you to tackle complex design and architecture challenges making your programs more robust and maintainable By the end of the book you'll be exposed to a wide range of advanced functionalities in Python and be equipped with the practical knowledge needed to apply them to your use cases What you will learn Write efficient numerical code with NumPy pandas and Xarray Use Cython and Numba to achieve native performance Find bottlenecks in your Python code using profilers Optimize your machine learning models with JAX Implement multithreaded multiprocessing and asynchronous programs Solve common problems in concurrent programming such as deadlocks Tackle architecture challenges with design patterns Who this book is for This book is for intermediate to experienced Python programmers who are looking to scale up their applications in a systematic and robust manner Programmers from a range of backgrounds will find this book useful including software engineers scientific programmers and software architects

[Learn Python Programming](#) Fabrizio Romano, Heinrich Kruger, 2021-10-29 Get up and running with Python 3.9 through concise tutorials and practical projects in this fully updated third edition Purchase of the print or Kindle book includes a free eBook in PDF format Key Features Extensively revised with richer examples Python 3.9 syntax and new chapters on APIs and packaging and distributing Python code Discover how to think like a Python programmer Learn the fundamentals of Python through real world projects in API development GUI programming and data science

**Book Description** Learn Python Programming Third Edition is both a theoretical and practical introduction to Python an extremely flexible and powerful programming language that can be applied to many disciplines This book will make learning Python easy and give you a thorough understanding of the language You'll learn how to write programs build modern APIs and work with data by using renowned Python data science libraries This revised edition covers the latest updates on API management packaging applications and testing There is also broader coverage of context managers and an updated data science chapter The book empowers you to take ownership of writing your software and become independent in fetching the resources you need You will have a clear idea of where to go and how to build on what you have learned from the book Through examples the book explores a wide range of applications and concludes by building real world Python projects based on the concepts you have learned What you will learn Get Python up and running on Windows Mac and Linux Write elegant reusable and efficient code in any situation Avoid common pitfalls like duplication complicated design and over engineering Understand when to use the functional or object oriented approach to programming Build a simple API with FastAPI and program GUI applications with Tkinter Get an initial overview of more complex topics such as data persistence and cryptography Fetch clean and manipulate data making efficient use of Python's built in data structures Who this book is for This book is for everyone who wants to learn Python from scratch as well as experienced programmers looking for a



reference book Prior knowledge of basic programming concepts will help you follow along but it s not a prerequisite

**Python 3 Object-oriented Programming** Dusty Phillips, 2015-08-20 Unleash the power of Python 3 objects About This Book Stop writing scripts and start architecting programs Learn the latest Python syntax and libraries A practical hands on tutorial that teaches you all about abstract design patterns and how to implement them in Python 3 Who This Book Is For If you re new to object oriented programming techniques or if you have basic Python skills and wish to learn in depth how and when to correctly apply object oriented programming in Python to design software this is the book for you What You Will Learn Implement objects in Python by creating classes and defining methods Separate related objects into a taxonomy of classes and describe the properties and behaviors of those objects via the class interface Extend class functionality using inheritance Understand when to use object oriented features and more importantly when not to use them Discover what design patterns are and why they are different in Python Uncover the simplicity of unit testing and why it s so important in Python Grasp common concurrency techniques and pitfalls in Python 3 Exploit object oriented programming in key Python technologies such as Kivy and Django Object oriented programming concurrently with asyncio In Detail Python 3 is more versatile and easier to use than ever It runs on all major platforms in a huge array of use cases Coding in Python minimizes development time and increases productivity in comparison to other languages Clean maintainable code is easy to both read and write using Python s clear concise syntax Object oriented programming is a popular design paradigm in which data and behaviors are encapsulated in such a way that they can be manipulated together Many modern programming languages utilize the powerful concepts behind object oriented programming and Python is no exception Starting with a detailed analysis of object oriented analysis and design you will use the Python programming language to clearly grasp key concepts from the object oriented paradigm This book fully explains classes data encapsulation inheritance polymorphism abstraction and exceptions with an emphasis on when you can use each principle to develop well designed software You ll get an in depth analysis of many common object oriented design patterns that are more suitable to Python s unique style This book will not just teach Python syntax but will also build your confidence in how to program You will also learn how to create maintainable applications by studying higher level design patterns Following this you ll learn the complexities of string and file manipulation and how Python distinguishes between binary and textual data Not one but two very powerful automated testing systems will be introduced in the book After you discover the joy of unit testing and just how easy it can be you ll study higher level libraries such as database connectors and GUI toolkits and learn how they uniquely apply object oriented principles You ll learn how these principles will allow you to make greater use of key members of the Python eco system such as Django and Kivy This new edition includes all the topics that made Python 3 Object oriented Programming an instant Packt classic It s also packed with updated content to reflect recent changes in the core Python library and covers modern third party packages that were not available on the Python 3 platform when the book was first published Style and approach

Throughout the book you will learn key object oriented programming techniques demonstrated by comprehensive case studies in the context of a larger project

*The Definitive Guide to Plone* Andy McKay, 2009-09-17 The Definitive Guide to Plone Second Edition has been completely updated to cover version 3 of Plone and its newest features This book provides a complete and detailed overview of Plone It is divided into three parts which cover using configuring and developing and customizing Plone After the coverage of Plone s features the case studies in the final part of the book reveal the true power of Plone These case studies demonstrate Plone s ability to handle all kinds of requirements while retaining an easy to use interface for users As when you re working with Plone itself you can choose where to start in this book and how best to apply it to your own needs With Plone anyone can manage a website or work with an efficient intranet Start reading The Definitive Guide to Plone Second Edition right away and the World Wide Web will be yours Fully covers content management with Plone in Windows Mac OS X and Linux Shows how to configure administer and maintain Plone Details the development of custom applications with Plone Includes case studies that show how Plone is already being deployed across networks and businesses

**Step By Step Database Programming using Python GUI & MySQL** Hamzan Wadi, This book provides a practical explanation of database programming using Python GUI MySQL The discussion in this book is presented in step by step so that it will help readers understand each material and also will make it easier for the readers to follow all of the instructions This book is very suitable for students programmers and anyone who want to learn database programming using Python GUI MySQL from scratch This book is divided into two parts The first part of this book will discuss about the fundamentals of database programming using Python GUI MySQL This part will discuss in detail about how to setup your working environment and how to understand GUI programming using Python This part will also discuss in detail about how to start your database programming using Python GUI MySQL This part will discuss in detail about the basic of database programming using Python GUI MySQL The second part of this book will discuss about how to build database application using Python GUI MySQL This part will discuss in detail about how to build Multiple Document Interface MDI database application through real project based example This part will discuss in detail about how to design and create database for Library Management System application and how to create all forms for the application The final objective of this book is that the readers are able to create real database application using Python GUI MySQL Here are the materials that you will learn in this book

PART I THE FUNDAMENTAL OF DATABASE PROGRAMMING USING PYTHON GUI MySQL

CHAPTER 1 The discussion in this chapter will guide you in preparing what software are needed to start your database programming using Python GUI This chapter will guide you to install all software including Python MySQL and Qt Designer In addition this chapter also will discuss about how to understand and use Qt Designer for user interface design and how to create a GUI application using Python and Qt Designer

CHAPTER 2 The discussion in this chapter will guide you to start your database programming using Python GUI MySQL This chapter will discuss in detail about the basic of database programming using

Python GUI MySQL The discussion in this chapter will talk about how to create and drop database how to create and drop table how to insert data into table how to display data from table how to update data in table and how to delete data in table All discussions in this chapter will give you deep understanding of database programming using Python GUI MySQL PART II BUILDING DATABASE APPLICATION USING PYTHON GUI MySQL CASE STUDY LIBRARY MANAGEMENT SYSTEM APPLICATION CHAPTER 3 The discussion in this chapter will guide you to design and create database for library management system application This is the first step that must be taken to create database application using Python GUI MySQL This chapter will discuss in detail about how to design the Entity Relationship Diagram ERD for library management system application The discussion in this chapter will also talk about how to create database and its tables based on the ERD design using MySQL server CHAPTER 4 The discussion in this chapter will guide you to create main form and login form for the application This chapter will discuss in detail about how to create these two forms These forms are the first two forms that we will create in building library management system application This chapter will also discuss about how to run the application CHAPTER 5 The discussion in this chapter will guide you to create user accounts form and members form for Library Management System application This chapter will discuss in detail about how to create these two forms This chapter will also discuss about how to add these two forms as MDI sub windows of the main form And the final discussion of this chapter will guide you to use the forms to manage user accounts and members data of Library Management System application CHAPTER 6 The discussion in this chapter will guide you to create authors form genres form and books form for Library Management System application This chapter will discuss in detail about how to create these three forms This chapter will also discuss about how to add books form as MDI sub window of the main form And the final discussion of this chapter will guide you to use the forms to manage authors genres and books data in Library Management System application CHAPTER 7 The discussion in this chapter will guide you to create member search form book search form and loan transaction form for Library Management System application This chapter will discuss in detail about how to create these three forms This chapter will also discuss about how to add loan transaction form as MDI sub window of the main form And the final discussion of this chapter will guide you to use the forms to manage loan transactions in Library Management System application CHAPTER 8 The discussion in this chapter will guide you to create members statistic form books statistic form and loan statistic form for Library Management System application This chapter will discuss in detail about how to create these three forms This chapter will also discuss about how to add all of the forms as MDI sub windows of the main form And the final discussion of this chapter will guide you to use all of the forms to display the statistics in the library

**PySide GUI Application Development** Gopinath Jaganmohan,Venkateshwaran Loganathan,2016-01-28 Develop more dynamic and robust GUI applications using PySide an open source cross platform UI framework About This Book Designed for beginners to help you get started with GUI application development Develop your own applications by creating

customized widgets and dialogs Written in a simple and elegant structure so you easily understand how to program various GUI components Who This Book Is For This book is written for Python programmers who want to learn about GUI programming It is also suitable for those who are new to Python but are familiar with object oriented programming What You Will Learn Program GUI applications in an easy and efficient way Download and install PySide a cross platform GUI development toolkit for Python Create menus toolbars status bars and child windows Develop a text editor application on your own Connect your GUI to a database and manage it Execute SQL queries by handling databases In Detail Elegantly built GUI applications are always a massive hit among users PySide is an open source software project that provides Python bindings for the Qt cross platform UI framework Combining the power of Qt and Python PySide provides easy access to the Qt framework for Python developers and also acts as an excellent rapid application development platform This book will take you through everything you need to know to develop UI applications You will learn about installing and building PySide in various major operating systems as well as the basics of GUI programming The book will then move on to discuss event management signals and slots and the widgets and dialogs available with PySide Database interaction and manipulation is also covered By the end of this book you will be able to program GUI applications efficiently and master how to develop your own applications and how to run them across platforms Style and approach This is an accessible and practical guide to developing GUIs for Python applications

**Python GUI Programming with Tkinter** Alan D. Moore, 2021-10-28 Transform your evolving user requirements into feature rich Tkinter applications Key Features Extensively revised with new content on RESTful networking classes in Tkinter and the Notebook widget Take advantage of Tkinter's lightweight portable and easy to use features Build better organized code and learn to manage an evolving codebase Book Description Tkinter is widely used to build GUIs in Python due to its simplicity In this book you'll discover Tkinter's strengths and overcome its challenges as you learn to develop fully featured GUI applications Python GUI Programming with Tkinter Second Edition will not only provide you with a working knowledge of the Tkinter GUI library but also a valuable set of skills that will enable you to plan implement and maintain larger applications You'll build a full blown data entry application from scratch learning how to grow and improve your code in response to continually changing user and business needs You'll develop a practical understanding of tools and techniques used to manage this evolving codebase and go beyond the default Tkinter widget capabilities You'll implement version control and unit testing separation of concerns through the MVC design pattern and object oriented programming to organize your code more cleanly You'll also gain experience with technologies often used in workplace applications such as SQL databases network services and data visualization libraries Finally you'll package your application for wider distribution and tackle the challenge of maintaining cross platform compatibility What you will learn Produce well organized functional and responsive GUI applications Extend the functionality of existing widgets using classes and OOP Plan wisely for the expansion of your app using MVC and version control Make sure your app works as intended through widget

validation and unit testing Use tools and processes to analyze and respond to user requests Become familiar with technologies used in workplace applications including SQL HTTP Matplotlib threading and CSV Use PostgreSQL authentication to ensure data security for your application Who this book is for This book is for programmers who understand the syntax of Python but do not yet have the skills techniques and knowledge to design and implement a complete software application A fair grasp of basic Python syntax is required

*Python Object-Oriented Programming* Steven F. Lott, Dusty Phillips, 2021-07-02 A comprehensive guide to exploring modern Python through data structures design patterns and effective object oriented techniques Key Features Build an intuitive understanding of object oriented design from introductory to mature programs Learn the ins and outs of Python syntax libraries and best practices Examine a machine learning case study at the end of each chapter Book Description Object oriented programming OOP is a popular design paradigm in which data and behaviors are encapsulated in such a way that they can be manipulated together Python Object Oriented Programming Fourth Edition dives deep into the various aspects of OOP Python as an OOP language common and advanced design patterns and hands on data manipulation and testing of more complex OOP systems These concepts are consolidated by open ended exercises as well as a real world case study at the end of every chapter newly written for this edition All example code is now compatible with Python 3.9 syntax and has been updated with type hints for ease of learning Steven and Dusty provide a comprehensive illustrative tour of important OOP concepts such as inheritance composition and polymorphism and explain how they work together with Python's classes and data structures to facilitate good design In addition the book also features an in depth look at Python's exception handling and how functional programming intersects with OOP Two very powerful automated testing systems unittest and pytest are introduced The final chapter provides a detailed discussion of Python's concurrent programming ecosystem By the end of the book you will have a thorough understanding of how to think about and apply object oriented principles using Python syntax and be able to confidently create robust and reliable programs What you will learn Implement objects in Python by creating classes and defining methods Extend class functionality using inheritance Use exceptions to handle unusual situations cleanly Understand when to use object oriented features and more importantly when not to use them Discover several widely used design patterns and how they are implemented in Python Uncover the simplicity of unit and integration testing and understand why they are so important Learn to statically type check your dynamic code Understand concurrency with asyncio and how it speeds up programs Who this book is for If you are new to object oriented programming techniques or if you have basic Python skills and wish to learn how and when to correctly apply OOP principles in Python this is the book for you Moreover if you are an object oriented programmer coming from other languages or seeking a leg up in the new world of Python you will find this book a useful introduction to Python Minimal previous experience with Python is necessary

**Git for Programmers** Jesse Liberty, Jon Galloway, 2021-06-30 Learn to track branch merge and manage code revisions for real world development scenarios Key Features Master Git and maintain

your projects better through version control  
Get to grips with Git's typical workflows, advanced functions and their implementations  
Learn the key Git commands to better manage your repository  
Book Description  
Whether you're looking for a book to deepen your understanding of Git or a refresher, this book is the ultimate guide to Git. Git for Programmers comprehensively equips you with actionable insights on advanced Git concepts in an engaging and straightforward way. As you progress through the chapters, you'll gain expertise and confidence on Git with lots of practical use cases. After a quick refresher on Git history and installation, you'll dive straight into the creation and cloning of your repository. You'll explore Git places, branching and GUIs to get familiar with the fundamentals. Then you'll learn how to handle merge conflicts, rebase, amend, interactive rebase and use the log as well as explore important Git commands for managing your repository. The troubleshooting part of this Git book will include detailed instructions on how to bisect, blame and several other problem handling techniques that will complete your newly acquired Git arsenal. By the end of this book, you'll be using Git with confidence. Saving, sharing, managing files as well as undoing mistakes and basically rewriting history will be a breeze. What you will learn  
Create remote and local repositories and learn how to clone them  
Understand the difference between local and remote repositories  
Use manage and merge branches back into the main branch  
Utilize tools to manage merge conflicts  
Manage commits on your local machine through interactive rebasing  
Use the log to gain control over all the data in your repository  
Use bisect, blame and other tools to undo Git mistakes  
Who this book is for  
If you have basic understanding of Git and want to strengthen your command over advanced techniques and navigate different functions, this book is for you. Knowing the fundamentals of Git will help you get the most out of this book, but beginners willing to invest some extra effort will be able to follow along as well.

[Python: Real-World Data Science](#) Dusty Phillips, Fabrizio Romano, Phuong Vo.T.H, Martin Czygan, Robert Layton, Sebastian Raschka, 2016-06-10  
Unleash the power of Python and its robust data science capabilities  
About This Book  
Unleash the power of Python 3 objects. Learn to use powerful Python libraries for effective data processing and analysis. Harness the power of Python to analyze data and create insightful predictive models. Unlock deeper insights into machine learning with this vital guide to cutting edge predictive analytics.  
Who This Book Is For  
Entry level analysts who want to enter in the data science world will find this course very useful to get themselves acquainted with Python's data science capabilities for doing real world data analysis.  
What You Will Learn  
Install and setup Python  
Implement objects in Python by creating classes and defining methods  
Get acquainted with NumPy to use it with arrays and array oriented computing in data analysis  
Create effective visualizations for presenting your data using Matplotlib  
Process and analyze data using the time series capabilities of pandas  
Interact with different kind of database systems such as file disk format Mongo and Redis  
Apply data mining concepts to real world problems  
Compute on big data including real time data from the Internet  
Explore how to use different machine learning models to ask different questions of your data  
In Detail  
The Python Real World Data Science course will take you on a journey to become an efficient data science practitioner by

thoroughly understanding the key concepts of Python This learning path is divided into four modules and each module are a mini course in their own right and as you complete each one you ll have gained key skills and be ready for the material in the next module The course begins with getting your Python fundamentals nailed down After getting familiar with Python core concepts it s time that you dive into the field of data science In the second module you ll learn how to perform data analysis using Python in a practical and example driven way The third module will teach you how to design and develop data mining applications using a variety of datasets starting with basic classification and affinity analysis to more complex data types including text images and graphs Machine learning and predictive analytics have become the most important approaches to uncover data gold mines In the final module we ll discuss the necessary details regarding machine learning concepts offering intuitive yet informative explanations on how machine learning algorithms work how to use them and most importantly how to avoid the common pitfalls Style and approach This course includes all the resources that will help you jump into the data science field with Python and learn how to make sense of data The aim is to create a smooth learning path that will teach you how to get started with powerful Python libraries and perform various data science techniques in depth

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The book delves into Expert Python Programming Ziade Tarek. Expert Python Programming Ziade Tarek is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Expert Python Programming Ziade Tarek, encompassing both the fundamentals and more intricate discussions.

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- Chapter 2: Essential Elements of Expert Python Programming Ziade Tarek
- Chapter 3: Expert Python Programming Ziade Tarek in Everyday Life
- Chapter 4: Expert Python Programming Ziade Tarek in Specific Contexts
- Chapter 5: Conclusion

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6. In chapter 5, this book will draw a conclusion about Expert Python Programming Ziade Tarek. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Expert Python Programming Ziade Tarek.

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