

Expert Python Programming Second Edition

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

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An innovative reference reveals the many capabilities of the Python Standard Library, which is a compilation of commonly used procedures that can be pasted into a Python script, by providing over 300 real-world example scripts. Original. (Intermediate/Advanced)

A practical approach to conquering the complexities of Microservices using the Python tooling ecosystem About This Book A very useful guide for Python developers who are shifting to the new microservices-based development A concise, up-to-date guide to building efficient and lightweight microservices in Python using Flask, Tox, and other tools Learn to use Docker containers, CoreOS, and Amazon Web Services to deploy your services Who This Book Is For This book is for developers who have basic knowledge of Python, the command line, and HTTP-based application principles, and those who want to learn how to build, test, scale, and manage Python 3 microservices. No prior experience of writing microservices in Python is assumed. What You Will Learn Explore what microservices are and how to design them Use Python 3, Flask, Tox, and other tools to build your services using best practices Learn how to use a TDD approach Discover how to document your microservices Configure and package your code in the best way Interact with other services Secure, monitor, and scale your services Deploy your services in Docker containers, CoreOS, and Amazon Web Services In Detail We often deploy our web applications into the cloud, and our code needs to interact with many third-party services. An efficient way to build applications to do this is through microservices architecture. But, in practice, it's hard to get this right due to the complexity of all the pieces interacting with each other. This book will teach you how to overcome these issues and craft applications that are built as small standard units, using all the proven best practices and avoiding the usual traps. It's a practical book: you'll build everything using Python 3 and its amazing tooling ecosystem. You will understand the principles of TDD and apply them. You will use Flask, Tox, and other tools to build your services using best practices. You will learn how to secure connections between services, and how to script Nginx using Lua to build web application firewall features such as rate limiting. You will also familiarize yourself with Docker's role in microservices, and use Docker containers, CoreOS, and Amazon Web Services to deploy your services. This book will take you on a journey, ending with the creation of a complete Python application based on microservices. By the end of the book, you will be well versed with the fundamentals of building, designing, testing, and deploying your Python microservices. Style and approach This book is an linear, easy-to-follow guide on how to best design, write, test, and deploy your microservices. It includes real-world examples that will help Python developers create their own Python microservice using the most efficient methods.

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

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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

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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.

Utilize Python microservices to break down your app development into bitesize pieces and deploy them as cloud services.

Practical Python 3 for experienced developers: use the right idioms, techniques, and features to write great code * *Written from a completely 'Python 3' point of view: teaches best practices for making the most of today's newest version of Python. *Designed to help developers get productive fast... then learn how to write any program, use any library, create any library module. *Includes expert guidance on migrating Python 2 code to Python 3. Around the world, programmers appreciate Python for its simplicity, power, expressiveness, and the sheer pleasure of writing Python code. Python 3.1 is the newest and best version of the language yet: more convenient, more consistent, and easier to use. Mark Summerfield demonstrates how to write code that takes full advantage of the latest Python 3 features and idioms. Programming in Python 3, 2/e, brings together all the knowledge needed to write programs, use any library, and even create new library modules. The book teaches every aspect of the Python 3 language. It covers all the built-in functionality, as well as key components of Python's standard library. Structured so readers can write Python programs from chapter 1, each subsequent chapter provides further depth and broader coverage. Two new chapters have been added to this edition increasing the coverage to include parsing, debugging, testing, and profiling. Readers will master Python procedural and object-oriented techniques; creation of custom modules and packages; writing and reading files; multithreading; networking; database programming; GUIs; regular expressions; application debugging, testing, and profiling; and more. Detailed appendices include coverage of migrating applications from Python 2 to Python 3, plus a complete language reference. All sample code has been tested with the final version of Python 3 on Windows, Linux, and Mac OS X.

Portable, powerful, and a breeze to use, Python is the popular open source object-oriented programming language used for both standalone programs and scripting applications. It is now being used by an increasing number of major organizations, including NASA and Google. Updated for Python 2.4, The Python Cookbook, 2nd Edition offers a wealth of useful code for all Python programmers, not just advanced practitioners. Like its predecessor, the new edition provides solutions to problems that Python programmers face everyday. It now includes over 200 recipes that range from simple tasks, such as working with dictionaries and list comprehensions, to complex tasks, such as monitoring a network and building a templating system. This revised version also includes new chapters on topics such as time, money, and metaprogramming. Here's a list of additional topics covered:

Manipulating text Searching and sorting Working with files and the filesystem Object-oriented programming Dealing with threads

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and processes System administration Interacting with databases Creating user interfaces Network and web programming Processing XML Distributed programming Debugging and testing Another advantage of The Python Cookbook, 2nd Edition is its trio of authors--three well-known Python programming experts, who are highly visible on email lists and in newsgroups, and speak often at Python conferences. With scores of practical examples and pertinent background information, The Python Cookbook, 2nd Edition is the one source you need if you're looking to build efficient, flexible, scalable, and well-integrated systems.

Python Essential Reference, 3rd Edition, is a comprehensive reference to the Python programming language. The focus of this latest edition is to add coverage of significant new features and new library modules added to the language over the past five years. Clearly written with concise organization, the new features covered include new style classes, unification of types and classes, xmlrpclip, intertools, bz2 and optparse, making it the most up-to-date Python book on the market.

Improve your software engineering practices to tackle inefficiencies, errors, and other perils that emerge due to bad code Key Features Enhance your coding skills to increase efficiency as well as reflect the new features introduced in Python 3.9 Understand how to apply microservices to your legacy systems by implementing practical techniques Learn to implement the refactoring techniques and SOLID principles in Python Book Description The Python language is immensely prevalent in numerous areas such as software construction, systems administration, and data processing. Experienced professionals in every field face the challenges of disorganization, poor readability, and testability due to unstructured code. With updated code and revised content aligned to the new features of Python 3.9, this second edition of Clean code in Python will provide you with all the tools you need to overcome these obstacles and manage your projects successfully. The book begins by describing the basic elements of writing clean code and how it plays a key role in Python programming. You will learn about writing efficient and readable code using the Python standard library and best practices for software design. The book delves more deeply into object-oriented programming in Python and shows you how to use objects with descriptors and generators. It will also show you the design principles of software testing and how to resolve problems by implementing software design patterns in your code. In the final chapter, we break down a monolithic application to a microservice one, starting from the code as the basis for a solid platform. By the end of this clean code book, you will be proficient in applying industry-approved coding practices to design clean, sustainable and readable real-world Python code. What You Will Learn Set up a productive development environment by leveraging automatic tools Leverage the magic methods in Python to write better code, abstracting complexity away and encapsulating details Create advanced object-oriented designs using unique features of Python, such as descriptors Eliminate duplicated code by creating powerful abstractions using software engineering principles of object-oriented

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design Create Python-specific solutions using decorators and descriptors Refactor code effectively with the help of unit tests Build the foundations for solid architecture with a clean code base as its cornerstone Who this book is for ?This book will appeal to team leads, software architects, and senior software engineers who want to learn Python coding techniques and work on their legacy systems to save cost and improve efficiency. The book assumes that you have a strong understanding of programming.

Take your Python skills to the next level to develop scalable, real-world applications for local as well as cloud deployment Key Features All code examples have been tested with Python 3.7 and Python 3.8 and are expected to work with any future 3.x release Learn how to build modular and object-oriented applications in Python Discover how to use advanced Python techniques for the cloud and clusters Book Description Python is a multipurpose language that can be used for multiple use cases. Python for Geeks will teach you how to advance in your career with the help of expert tips and tricks. You'll start by exploring the different ways of using Python optimally, both from the design and implementation point of view. Next, you'll understand the life cycle of a large-scale Python project. As you advance, you'll focus on different ways of creating an elegant design by modularizing a Python project and learn best practices and design patterns for using Python. You'll also discover how to scale out Python beyond a single thread and how to implement multiprocessing and multithreading in Python. In addition to this, you'll understand how you can not only use Python to deploy on a single machine but also use clusters in private as well as in public cloud computing environments. You'll then explore data processing techniques, focus on reusable, scalable data pipelines, and learn how to use these advanced techniques for network automation, serverless functions, and machine learning. Finally, you'll focus on strategizing web development design using the techniques and best practices covered in the book. By the end of this Python book, you'll be able to do some serious Python programming for large-scale complex projects. What you will learn Understand how to design and manage complex Python projects Strategize test-driven development (TDD) in Python Explore multithreading and multiprocessing in Python Use Python for data processing with Apache Spark and Google Cloud Platform (GCP) Deploy serverless programs on public clouds such as GCP Use Python to build web applications and application programming interfaces Apply Python for network automation and serverless functions Get to grips with Python for data analysis and machine learning Who this book is for This book is for intermediate-level Python developers in any field who are looking to build their skills to develop and manage large-scale complex projects. Developers who want to create reusable modules and Python libraries and cloud developers building applications for cloud deployment will also find this book useful. Prior experience with Python will help you get the most out of this book.

This second edition of Foundations of Python Network Programming targets Python 2.5 through Python 2.7, the most

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popular production versions of the language. Python has made great strides since Apress released the first edition of this book back in the days of Python 2.3. The advances required new chapters to be written from the ground up, and others to be extensively revised. You will learn fundamentals like IP, TCP, DNS and SSL by using working Python programs; you will also be able to familiarize yourself with infrastructure components like memcached and message queues. You can also delve into network server designs, and compare threaded approaches with asynchronous event-based solutions. But the biggest change is this edition's expanded treatment of the web. The HTTP protocol is covered in extensive detail, with each feature accompanied by sample Python code. You can use your HTTP protocol expertise by studying an entire chapter on screen scraping and you can then test lxml and BeautifulSoup against a real-world web site. The chapter on web application programming now covers both the WSGI standard for component interoperability, as well as modern web frameworks like Django. Finally, all of the old favorites from the first edition are back: E-mail protocols like SMTP, POP, and IMAP get full treatment, as does XML-RPC. You can still learn how to code Python network programs using the Telnet and FTP protocols, but you are likely to appreciate the power of more modern alternatives like the paramiko SSH2 library. If you are a Python programmer who needs to learn the network, this is the book that you want by your side.

This book targets programmers and scientists who have basic Python knowledge and who are keen to perform scientific and numerical computations with SciPy.

Foundations of Python Network Programming, Third Edition, covers all of the classic topics found in the second edition of this book, including network protocols, network data and errors, email, server architecture, and HTTP and web applications, plus updates for Python 3. Some of the new topics in this edition include:

- Extensive coverage of the updated SSL support in Python 3
- How to write your own asynchronous I/O loop.
- An overview of the "asyncio" framework that comes with Python 3.4.
- How the Flask web framework connects URLs to your Python code.
- How cross-site scripting and cross-site request forgery can be used to attack your web site, and how to protect against them.
- How a full-stack web framework like Django can automate the round trip from your database to the screen and back.

If you're a Python programmer who needs a deep understanding of how to use Python for network-related tasks and applications, this is the book for you. From web application developers, to systems integrators, to system administrators—this book has everything that you need to know.

Learn Python Quickly, A Programmer-Friendly Guide DESCRIPTION Most Programmer's learning Python are usually comfortable with some or the other programming language and are not interested in going through the typical learning curve of learning the first programming language. Instead, they are looking for something that can get them off the

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ground quickly. They are looking for similarities and differences in a feature that they have used in other language(s). This book should help them immediately. It guides you from the fundamentals of using module through the use of advanced object orientation. KEY FEATURES Strengthens the foundations, as detailed explanation of programming language concepts are given in simple manner. Lists down all the important points that you need to know related to various topics in an organized manner. Prepares you for coding related interview and theoretical questions. Provides In depth explanation of complex topics and Questions. Focuses on how to think logically to solve a problem. Follows a systematic approach that will help you to prepare for an interview in short duration of time. Exercises are exceptionally useful to complete the reader's understanding of a topic. WHAT WILL YOU LEARN Data types, Control flow instructions, console & File Input/Output Strings, list & tuples, List comprehension Sets & Dictionaries, Functions & Lambdas Dictionary Comprehension Modules, classes and objects, Inheritance Operator overloading, Exception handling Iterators & Generators, Decorators, Command-line Parsing WHO THIS BOOK IS FOR Students, Programmers, researchers, and software developers who wish to learn the basics of Python programming language. Table of Contents 1. Introduction to Python 2. Python Basics 3. Strings 4. Decision Control Instruction 5. Repetition Control Instruction 6. Console Input/Output 7. Lists 8. Tuples 9. Sets 10. Dictionaries 11. Comprehensions 12. Functions 13. Recursion 14. Functional Programming 15. Modules and Packages 16. Namespaces 17. Classes and Objects 18. Intricacies of Classes and Objects 19. Containership and Inheritance 20. Iterators and Generators 21. Exception Handling 22. File Input/Output 23. Miscellany 24. Multi-threading 25. Synchronization

Learn advanced analytical techniques and leverage existing tool kits to make your analytic applications more powerful, precise, and efficient. This book provides the right combination of architecture, design, and implementation information to create analytical systems that go beyond the basics of classification, clustering, and recommendation. Pro Hadoop Data Analytics emphasizes best practices to ensure coherent, efficient development. A complete example system will be developed using standard third-party components that consist of the tool kits, libraries, visualization and reporting code, as well as support glue to provide a working and extensible end-to-end system. The book also highlights the importance of end-to-end, flexible, configurable, high-performance data pipeline systems with analytical components as well as appropriate visualization results. You'll discover the importance of mix-and-match or hybrid systems, using different analytical components in one application. This hybrid approach will be prominent in the examples. What You'll Learn Build big data analytic systems with the Hadoop ecosystem Use libraries, tool kits, and algorithms to make development easier and more effective Apply metrics to measure performance and efficiency of components and systems Connect to standard relational databases, noSQL data sources, and more Follow case studies with example components to create

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your own systems Who This Book Is For Software engineers, architects, and data scientists with an interest in the design and implementation of big data analytical systems using Hadoop, the Hadoop ecosystem, and other associated technologies.

If you are looking for a complete beginners guide to learn Python programming with examples, in just a few hours, this book is for you ***** Second Edition-2018-Limited Time Offer! (Will soon return to \$17 + Special Offer Below) ***** Free Kindle eBook for customers who purchase the print book from Amazon Python Programming for Absolute Beginners Learn Programming with Python, step-by-step in few hours. Why Learn Python? Python is a general-purpose language, which means it can be used to build just about anything, which will be made easy with the right tools/libraries. Python is one of the over 1000 computer programming languages that are known today. Python has also grown tremendously to become one of the leading programming languages. People have liked it for its syntax and semantics which are easy for one to grasp, even those without a background in computer programming. Due to this, Python is taught to juniors in many schools worldwide. Python is also cross-platform, meaning that one can code in Python from various operating systems. Professionally, Python is great for backend web development, data analysis, artificial intelligence, and scientific computing. People, companies and institutions have used Python to develop different applications including web applications, game applications, desktop applications etc. The popularity of Python also continues to rise every day. Why this Book is different? This book explores every aspect of Python programming language. This book may be the best one for an absolute beginner, it's a step by step guide for any person who wants to start learning Python programming from scratch. It will help you in preparing a solid computer programming foundation and learn any other coding language will be easy to you. Book Objectives The author wrote this book with the goal of helping the readers learn every aspect of Python programming. The book will help you: Know more about computer programming and how to get started with Python programming language. Understand the various features of Python programming language and appreciate its power. Transition from a programming beginner to an expert. Target Users The book designed for a variety of target audiences. The most suitable users would include: Newbies in computer programming and Python Programming Professionals in computer programming and software applications development Professors, lecturers or tutors who are looking to find better ways to explain the content to their students in the simplest and easiest way Students and academicians, especially those focusing on computer programming and software development! Is this book for me? If you want to learn computer programming with Python, this book is for you. Experience in computer programming is not required. If this is the first time for you to hear about computer programming, this book is the best for you. What's Inside this Book? Getting Started with Python Basic Python Syntax Python Variables Python Data Types Control Statements Python Functions Python Loops Python Classes and Objects Exception Handling Python Modules File Handling Tkinter Python Operators Accessing MySQL Databases Download your copy today! Python, Python3, learn python, learn python3, python crash course, python for beginners, python machine learning, deep learning, python for data analysis, python tricks, python programming for beginners, python cookbook, python book, python language, python examples, python tutorial

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Do you wish to develop further your journey to becoming an expert Python programmer and achieve your goals? Are you looking to refine your Python programming skills and build professional grade applications? If so then your search ends here! Learning new skills is a process made from two big components: the first one is just your own will to learn and the second one is a good source of information, and lucky for you, you've come to the right place! Python is a dynamic programming language that, due to its simple but efficient nature, is used in a wide range of domains. While writing Python code is easy, it is challenging to make it readable, reusable and easy to maintain. This third edition on Expert Python Programming will help you overcome this challenge, complete with best practices, necessary and useful tools and standards applied by experienced Python developers. In addition to learning how to implement principles from different programming paradigms, including object-oriented programming, functional programming and event-driven programming, you can learn the specialized components of Python syntax. By the end of the book, you will have become an expert in writing efficient and maintainable Python code. What you will learn getting up to speed with automated ways of deploying your software on remote servers. create useful Python extensions with C, C++, Cython, and CFFI. studying about code management tools, writing clear documentation, and exploring test driven development which will help you write clean code. Explore modern ways of setting up repeatable and consistent development environments Package Python code effectively for community and production use Learn modern syntax elements of Python programming such as f-strings, enums, and lambda functions Write concurrent code in Python Extend and integrate Python with code written in different languages And so much more There are countless books on the market on this topic promising better understanding of the subject and immeasurable success but this carefully sought out guide will teach you the advanced concepts you most definitely need so you can be on your way to becoming a master of the Python programming language. Becoming a Python expert takes time, but over time you'll master this beautiful programming language. It's worth it! Now then, what are you waiting for? Scroll up and click on the 'Buy Now' button and unleash the python programmer in you, today!

Beginning Python Games Development, Second Edition teaches you how to create compelling games using Python and the PyGame games development library. It will teach you how to create visuals, do event handling, create 3D games, add media elements, and integrate OpenGL into your Python game. In this update to the first ever book to cover the popular open source PyGame games development library, you'll stand to gain valuable technical insights and follow along with the creation of a real-world, freely downloadable video game. Written by industry veterans and Python experts Will McGugan and Harrison Kinsley, this is a comprehensive, practical introduction to games development in Python. You can also capitalize upon numerous tips and tricks the authors have accumulated over their careers creating games for some of the world's largest game developers.

TAGLINE Learn to be a Python expert in ten easy lessons! **DESCRIPTION** This book is intended for the professional programmer who wants to learn Python for their place of business, or simply to extend their knowledge. You will learn the basics of the language--from how to define variables and implement looping and conditional constructs, to working with existing code. Once we have established the baseline for writing code in Python, you'll learn how to create your own functions and classes, how to extend

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existing code, and how to work with Python-specific things like comprehensions and generators. With a solid foundation, you will then move on to learn about the existing Python libraries, called packages, and how to use them, as well as discovering little tips and tricks that will make you a hit with all the programmers at work, and really aid you in nailing that programming interview. KEY FEATURES Acquire knowledge of Python programming simply and easily. Learn about object-oriented programming and how it applies to Python. Make a splash with list comprehensions, generators, and decorators. Learn about file processing with Python, and how it makes JSON easy to deal with. Work with dictionaries and sets quickly and easily. Learn about what others have made available in the Python world. Pick up tricks and tips that will make you look like a Python expert in no time. WHAT WILL YOU LEARN By the time you have finished this book, you will know enough to write complex Python programs and work with existing Python code. You will find out about the packages that make Python one of the most popular programming languages and will understand the “Pythonic” way of thinking and programming. WHO THIS BOOK IS FOR This book is designed for programmers who have experience in at least one programming language. No prior Python experience is necessary, but it is assumed that you understand the basics of loops, conditionals and object-oriented constructs, such as classes. You should have or have access to a system that runs Python 3 (any version). Table of Contents 1. The history and installation of Python 2. Python types and constructs 3. The Nuts and Bolts 4. Structuring your Python projects 5. Object-oriented programming with Python 6. Advanced manipulations 7. File input and output 8. Imports and Exports 9. Miscellaneous 10. Not re-inventing the wheel 11. Tips and Tricks ??????Java????57?????????????,????10?,?????:????????????????????????????????C????????????????????????

If you are new to the Raspberry Pi, the Arduino, or home automation and wish to develop some amazing projects using these tools, then this book is for you. Any experience in using the Raspberry Pi would be an added advantage.

Portable, powerful, and a breeze to use, Python is the popular open source object-oriented programming language used for both standalone programs and scripting applications. It is now being used by an increasing number of major organizations, including NASA and Google. Updated for Python 2.4, The Python Cookbook, 2nd Edition offers a wealth of useful code for all Python programmers, not just advanced practitioners. Like its predecessor, the new edition provides solutions to problems that Python programmers face everyday. It now includes over 200 recipes that range from simple tasks, such as working with dictionaries and list comprehensions, to complex tasks, such as monitoring a network and building a templating system. This revised version also includes new chapters on topics such as time, money, and metaprogramming. Here's a list of additional topics covered:

Manipulating text Searching and sorting Working with files and the filesystem Object-oriented programming Dealing with threads and processes System administration Interacting with databases Creating user interfaces Network and web programming Processing XML Distributed programming Debugging and testing Another advantage of The Python Cookbook, 2nd Edition is its trio of authors--three well-known Python programming experts, who are highly visible on email lists and in newsgroups, and speak often at Python conferences. With scores of practical examples and pertinent background information, The Python Cookbook, 2nd Edition is the one source you need if you're looking to build efficient, flexible, scalable, and well-integrated systems.

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on how to start Programming in Python 3. Q: Can I loan this ebook? A: Yes for sure, you can lend this ebook for a duration of 14 days. Q: Will I be able to program with Python after reading this book? A: Yes, this book is perfect for the user that wants to start coding with Python. Unfortunately, as soon as you will get more experienced you won't need to read books but more advanced materials such as courses and exercises, a lot of exercises... Q: Does this book contains codes examples? A: Yes, a lot of them Please note that this book will focus a lot on exercises and codes allowing the reader to learn Python as fast as possible in a practical manner. here some points covered by this book: -How to install Python (Windows, Mac, Linux...) -Modules -Types of data (tuple, lists, sets and so on...) -Python Syntax and much more inside the guide

This book has two objectives--to provide a comprehensive reference on using XML with Python; and to illustrate the practical applications of these technologies in an enterprise environment with examples.

Portable, powerful, and a breeze to use, Python is the popular open source object-oriented programming language used for both standalone programs and scripting applications. Python is considered easy to learn, but there's no quicker way to mastery of the language than learning from an expert teacher. This edition of Learning Python puts you in the hands of two expert teachers, Mark Lutz and David Ascher, whose friendly, well-structured prose has guided many a programmer to proficiency with the language. Learning Python, Second Edition, offers programmers a comprehensive learning tool for Python and object-oriented programming. Thoroughly updated for the numerous language and class presentation changes that have taken place since the release of the first edition in 1999, this guide introduces the basic elements of the latest release of Python 2.3 and covers new features, such as list comprehensions, nested scopes, and iterators/generators. Beyond language features, this edition of Learning Python also includes new context for less-experienced programmers, including fresh overviews of object-oriented programming and dynamic typing, new discussions of program launch and configuration options, new coverage of documentation sources, and more. There are also new use cases throughout to make the application of language features more concrete. The first part of Learning Python gives programmers all the information they'll need to understand and construct programs in the Python language, including types, operators, statements, classes, functions, modules and exceptions. The authors then present more advanced material, showing how Python performs common tasks by offering real applications and the libraries available for those applications. Each chapter ends with a series of exercises that will test your Python skills and measure your understanding. Learning Python, Second Edition is a self-paced book that allows readers to focus on the core Python language in depth. As you work through the book, you'll gain a deep and complete understanding of the Python language that will help you to understand the larger application-level examples that you'll encounter on your own. If you're interested in learning Python--and want to do so quickly and efficiently--then Learning Python, Second Edition is your best choice.

Being familiar with object-oriented design is an essential part of programming in Python. This new edition includes all the topics that made Python Object-Oriented Programming an instant Packt classic. Moreover, it's packed with updated content to reflect more recent changes in the core Python libraries and cover modern third-party packages.

Machine learning is eating the software world. Understand and work at the cutting edge of machine learning, neural networks, and deep learning with this second edition of Sebastian Raschka's bestselling book, Python Machine Learning. Modernized and extended to include the latest open source technologies, including scikit-learn, Keras, and TensorFlow, Python Machine Learning Second Edition offers the practical knowledge and techniques you need to create effective machine learning and deep learning applications in Python. Sebastian Raschka and

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Vahid Mirjalili's unique insight and expertise introduce you to machine learning and deep learning algorithms, before progressing to advanced topics in data analysis. This book combines the theoretical principles of machine learning with a hands-on coding approach for a thorough grasp of machine learning theory and implementation using Python.

Gain comprehensive insights into programming practices, and code portability and reuse to build flexible and maintainable apps using object-oriented principles

Key Features

- Extend core OOP techniques to increase integration of classes created with Python
- Explore various Python libraries for handling persistence and object serialization
- Learn alternative approaches for solving programming problems, with different attributes to address your problem domain

Book Description

Object-oriented programming (OOP) is a relatively complex discipline to master, and it can be difficult to see how general principles apply to each language's unique features. With the help of the latest edition of *Mastering Object-Oriented Python*, you'll be shown how to effectively implement OOP in Python, and even explore Python 3.x. Complete with practical examples, the book guides you through the advanced concepts of OOP in Python, and demonstrates how you can apply them to solve complex problems in OOP. You will learn how to create high-quality Python programs by exploring design alternatives and determining which design offers the best performance. Next, you'll work through special methods for handling simple object conversions and also learn about hashing and comparison of objects. As you cover later chapters, you'll discover how essential it is to locate the best algorithms and optimal data structures for developing robust solutions to programming problems with minimal computer processing. Finally, the book will assist you in leveraging various Python features by implementing object-oriented designs in your programs. By the end of this book, you will have learned a number of alternate approaches with different attributes to confidently solve programming problems in Python. What you will learn

- Explore a variety of different design patterns for the `__init__()` method
- Learn to use Flask to build a RESTful web service
- Discover SOLID design patterns and principles
- Use the features of Python 3's abstract base classes
- Create classes for your own applications
- Design testable code using `pytest` and fixtures
- Understand how to design context managers that leverage the 'with' statement
- Create a new type of collection using standard library and design techniques
- Develop new number types above and beyond the built-in classes of numbers

Who this book is for

This book is for developers who want to use Python to create efficient programs. A good understanding of Python programming is required to make the most out of this book. Knowledge of concepts related to object-oriented design patterns will also be useful.

Unlock the power of Python by learning effective application development strategies

About This Video

Covers the latest and advanced concepts of Python such as parallel processing with the all new Python 3.5

Explore the Python language from its basic installation and setup to concepts such as reactive programming and microservices

Get introduced to the mechanism of rewriting code in a compiled language along with `ctypes` and `Cython` tools

In Detail

Python is one of the most powerful, flexible, and popular programming languages in the world. It comes with all new features in version 3.5. With Python, you can write code that is efficient, maintainable, and reusable. In this second edition of the course, we cover the basics of operating in a Python development environment as well as the advanced topics. We present you with real-world solutions to Python 3.5 and advanced-level concepts such as reactive programming and microservices, introduce `ctypes` and `Cython` tools. You don't need to be familiar with the Python language as we start with Python primer and move on to explain what's new in Python 3.5. You'll get ready to install, create packages, and run them on the command line. Throughout the journey, we'll highlight the major aspects of managing your Python development environment, show you how to handle parallel computation, and help you to master asynchronous I/O with new Python 3.5 to improve the performance of your system. Finally, you'll learn the secrets of metaprogramming and unit testing in Python--arming you with the perfect skillset to be a Python expert. This course will get you up to speed in everything from basic

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programming practices to high-end tools and techniques, things that will help you set apart as a successful Python programmer. 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 programming 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. 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-

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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

Python Essential Reference, Second Edition, is the definitive guide to the Python programming language. Designed for programmers, it covers the core language, more than 100 modules in the standard library, and the techniques used to extend Python with compiled procedures in C or C++. Coverage expands upon and clarifies existing Python documentation - especially for advanced topics, including operating system interfaces, threads, network programming, and Unicode. Concise, to the point, and extensively indexed, readers will find this volume packed with information not previously available in any other single reference source. Updated for Python 2.1, it is a must-have for any serious programmer wanting to develop advanced Python applications. As a comprehensive reference to the Python programming language, this book will help you:

- Learn about the features in Python 2.0 and 2.1
- Master the details of Python types, operators, and the execution model
- Discover the details of Unicode and internationalization support
- Learn the details of operating system interfaces, threads, and network-programming modules
- Build C/C++ extensions to Python
- Make effective use of the Python library
- Find the information you need to start developing advanced Python applications.

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