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Expert Python Programming

Second Edition

Become an ace Python programmer by learning best coding practices and advance-level concepts with Python 3.5

Michał Jaworski
Tarek Ziadé

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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, 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 3.5 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/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 Ziade, 2021-05-28 Gain a deep understanding of building, maintaining, packaging and shipping robust Python applications

Key Features Discover the new features of Python such as dictionary merge, the zoneinfo module and structural pattern matching Create manageable code to run in various environments with different sets of dependencies Implement effective Python data structures and algorithms to write test and optimize code

Book 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 learn

Explore modern ways of setting up repeatable and consistent Python development environments Effectively package

Python code for community and production use Learn modern syntax elements of Python programming such as f strings enums and lambda functions Demystify metaprogramming in Python with metaclasses Write concurrent code in Python Extend 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 Ziade, 2019-04-30 Refine your Python programming skills and build professional grade applications with this comprehensive guide Key Features Create manageable code that can run in various environments with different sets of dependencies Implement effective Python data structures and algorithms to write optimized code Discover the exciting new features of Python 3.7 Book 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 learn 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 Demystify metaprogramming in Python with metaclasses Write concurrent code in Python Extend Python with code written in different languages Integrate Python with code written in different languages Who 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

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

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Python Programming Professional Made Easy Sam Key, 2015-05-18 Python Programming Professional Made Easy 2nd Edition Sam Key back at it again with his upgraded version of Python Going from beginner to professional Want to skip the learning curve Need the jargon removed so you can understand in your terms From various programming

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Pro Hadoop Data Analytics Kerry Koitzsch, 2016-12-29 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 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

Introduction to Computing and Programming in Python, A Multimedia Approach, Second Edition Barbara Ericson,2012

Programming the Raspberry Pi, Second Edition: Getting Started with Python Simon Monk,2015-10-05 An updated guide to programming your own Raspberry Pi projects Learn to create inventive programs and fun games on your powerful Raspberry Pi with no programming experience required This practical TAB book has been revised to fully cover the new Raspberry Pi 2 including upgrades to the Raspbian operating system Discover how to configure hardware and software write Python scripts create user friendly GUIs and control external electronics DIY projects include a hangman game RGB LED controller digital clock and RasPiRobot complete with an ultrasonic rangefinder Set up your Raspberry Pi and explore its features Navigate files folders and menus Write Python programs using the IDLE editor Use strings lists functions and dictionaries Work with modules classes and methods Create user friendly games using Pygame Build intuitive user interfaces with Tkinter Attach external electronics through the GPIO port Add powerful Web features to your projects

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Expert Python Programming - Third Edition Michal Jaworski,Tarek Ziade,2019 Refine your Python programming skills and build professional grade applications with this comprehensive guide Key Features Create manageable code that can run in various environments with different sets of

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[Learning Python](#) Mark Lutz, David Ascher, 2003-12-23 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

Python Programming Patterns Thomas W. Christopher, 2002 The real world guide to enterprise class Python development The right way to write Python using modularization toolkits frameworks abstract data types and object oriented techniques Includes more than 20 proven object oriented patterns for large scale Python development Detailed coverage of persistence concurrent programming metaprogramming functional programming and more Python isn t just a tool for creating short Web scripts and simple prototypes its advantages are equally compelling in large scale development In this book Thomas Christopher shows developers the best ways to write large programs with Python introducing powerful design patterns that deliver unprecedented levels of robustness scalability and reuse Python Programming Patterns teaches both the Python programming language and how to program in the large in Python using object oriented techniques Thomas Christopher demonstrates how to write Python code that leverages programming in the large software structuring techniques including modularization toolkits frameworks abstract data types and especially object orientation He presents more than 20 powerful object oriented design patterns for Python including creational structural and behavior patterns The

book includes detailed coverage of key topics such as persistence concurrent programming and metaprogramming Python s term for reflection or introspection Christopher also presents useful fun **Dr. Dobb's Journal** ,2000 *Python Programming Professional Made Easy* Sam Key,2015-08-09 Python Programming Professional Made Easy 2nd Edition Sam Key back at it again with his upgraded version of Python Going from beginner to professional Want to skip the learning curve Need the jargon removed so you can understand in your terms From various programming languages to statements and Basic Operators Everything you need to know with functions and flow controls Don t waste anytime and jump on board of Python Start your programming right now **Programming the Web with Visual Basic .NET** Lynn Torkelson,Constance Petersen,Zac Torkelson,2002-07-30 Programming the Web with Visual Basic NET is a comprehensive guide to building web applications and services using Visual Basic NET It is written especially for experienced Visual Basic programmers who use Visual Studio NET for their development work even those who have never written a web application before Because the NET Framework simply blows away the archaic tools previously available to web programmers the authors predict that many Visual Basic programmers who successfully avoided Web programming in the past will now bring their expertise to the Web However even experienced web programmers will greatly benefit from the authors thorough coverage of the ASP NET namespaces and their clear coverage of the ADO NET classes most important to Web applications that use relational databases for data storage All developers will benefit from the authors extensive practical advice based on their unique professional backgrounds about how to produce create high quality code and how to create professional usable websites After reading Programming the Web with Visual Basic NET you ll understand how to build and deploy top quality professionally designed highly usable web applications using Visual Basic NET **Python Programming Advanced** Eric Matthews,Lewis Taylor,2019-10-16 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

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CISSP All-in-One Exam Guide, Ninth Edition Fernando Maymi, Shon Harris, 2021-11-12 A new edition of Shon Harris bestselling exam prep guide fully updated for the 2021 version of the CISSP exam Thoroughly updated for the latest release of the Certified Information Systems Security Professional exam this comprehensive resource covers all objectives in the 2021 CISSP exam developed by the International Information Systems Security Certification Consortium ISC 2 CISSP All in One Exam Guide Ninth Edition features learning objectives at the beginning of each chapter exam tips practice questions and in depth explanations Written by leading experts in information security certification and training this completely up to date self study system helps you pass the exam with ease and also serves as an essential on the job reference Covers all 8 CISSP domains Security and risk management Asset security Security architecture and engineering Communication and network security Identity and access management IAM Security assessment and testing Security operations Software development security Online content includes 1400 practice exam questions Graphical question quizzes Test engine that provides full length practice exams and customizable quizzes by chapter or exam domain Access to Flash cards

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