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

Expert Python Programming Second Edition

Lynn Torkelson,Constance Petersen,Zac Torkelson

Expert Python Programming Second Edition:

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 vitualenv 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 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 vitualenv 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   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 Pyhton 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 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 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 PURCHASE NOW DO NOT WAIT GRAB YOUR COPY OF SUCCESS RIGHT NOW   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   *Power Query Cookbook* Andrea Janicijevic,2021-10-15 Leverage your source data from hundreds of different connections perform millions of different transformations and easily manage highly complex data lifecycles with Power Query Key FeaturesCollect combine and transform data using Power Query s data connectivity and data preparation featuresOvercome the problems faced while accessing data from multiple sources and reshape it to meet your business requirementsExplore how the M language can be used to write your own customized solutionsBook Description Power Query is a data preparation tool that enables data engineers and business users to connect reshape enrich and transform their data to facilitate relevant business insights and analysis With Power Query s wide range of features you can perform no code transformations and complex M code functions at the same time to get the most out of your data This Power Query book will help you to connect to data sources achieve intuitive transformations and get to grips with preparation practices Starting with a general overview of Power Query and what it can do the book advances to cover more complex topics such as M code and performance optimization You ll learn how to extend these capabilities by gradually stepping away from the Power Query GUI and into the M programming language Additionally the book also shows you how to use Power Query Online within Power BI Dataflows By the end of the book you ll be able to leverage your source data understand your data better and enrich it with a full stack of no code and custom features that you ll learn to design by yourself for your business requirements What you will learnUnderstand how to use Power Query to connect and explore dataExplore ways to reshape and enrich dataDiscover the potential of Power Query across the Microsoft platformBuild complex and custom transformationsUse M code to write new queries against data sourcesUse the Power Query Online tool within Power BI DataflowsImplement best practices such as reusing dataflows optimizing expanding table operations and field mappingWho this book is for This book is for data analysts BI developers data engineers and anyone looking for a desk reference guide to learn how Power Query can be used with different Microsoft products to handle data of varying complexity Beginner level knowledge of Power BI and the M Language will help you to get the best out of this book   *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 *Deep Learning with PyTorch, Second Edition* Luca Antiga,Eli Stevens,Howard Huang,Thomas Viehmann,2026-03-24 PyTorch core developer Howard Huang updates the bestselling original Deep Learning with PyTorch with new insights into the transformers architecture and generative AI models Instantly familiar to anyone who knows PyData tools like NumPy PyTorch simplifies deep learning without sacrificing advanced features In this book you ll learn how to create your own neural network and deep learning systems and take full advantage of PyTorch s built in tools for automatic differentiation hardware acceleration distributed training and more You ll discover how easy PyTorch makes it to build your entire DL pipeline including using the PyTorch Tensor API loading data in Python monitoring training and visualizing results Each new technique you learn is put into action with practical code examples in each chapter culminating into you building your own convolution neural networks transformers and even a real world medical image classifier In Deep Learning with PyTorch Second Edition you ll find Deep learning fundamentals reinforced with hands on projects Mastering PyTorch s flexible APIs for neural network development Implementing CNNs transformers and diffusion models Optimizing models for training and deployment Generative AI models to create images and text About the technology The powerful PyTorch library makes deep learning simple without sacrificing the features you need to create efficient neural networks LLMs and other ML models Pythonic by design it s instantly familiar to users of NumPy Scikit learn and other ML frameworks This thoroughly revised second edition covers the latest PyTorch innovations including how to create and refine generative AI models About the book Deep Learning with PyTorch Second Edition shows you how to build neural network models using the latest version of PyTorch Clear explanations and practical projects help you master the fundamentals and explore advanced architectures including transformers and LLMs Along the way you ll learn techniques for training using augmented data improving model architecture and fine tuning What s inside PyTorch APIs for neural network development LLMs transformers and diffusion models Model training and deployment About the reader For Python programmers with a background in machine learning About the author Howard Huang is a software engineer and developer on the PyTorch library focusing on large scale distributed training Eli Stevens Luca Antiga and Thomas Viehmann authored the first edition of Deep Learning with PyTorch Table of Contents Part 1 1 Introducing deep

learning and the PyTorch library 2 Pretrained networks 3 It starts with a tensor 4 Real world data representation using tensors 5 The mechanics of learning 6 Using a neural network to fit the data 7 Telling birds from airplanes Learning from images 8 Using convolutions to generalize Part 2 9 How transformers work 10 Diffusion models for images 11 Using PyTorch to fight cancer 12 Combining data sources into a unified dataset 13 Training a classification model to detect suspected tumors 14 Improving training with metrics and augmentation 15 Using segmentation to find suspected nodules 16 Training models on multiple GPU **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 *Learn Aspen Plus in 24 Hours, Second Edition* Thomas A. Adams II,2022-01-07 Quickly start using the current version of Aspen Plus to solve chemical engineering problems Discover how to solve chemical engineering problems with Aspen Plus in just 24 hours with no prior experience Thoroughly revised for the latest distribution this self learning guide features detailed mathematical models for a wide range of chemical process equipment including heat exchangers pumps compressors turbines distillation columns and chemical reactors Divided into 12 two hour lessons Learn Aspen Plus in 24 Hours Second Edition shows step by step how to build process models and simulations without performing tedious calculations You will also get downloadable Aspen Plus simulation files and helpful quick starter templates Inside you will learn how to Get up and running with Aspen Plus Accurately model physical property Work with Aspen Plus problem solving tools Create equilibrium and rate based distillation models Build chemical reactor models Incorporate connections to Microsoft Excel and Python in your Aspen Plus models Estimate capital costs Optimize heat exchanger networks Simulate electrolyte chemistry and CO_2 capture Employ parallel computing and optimization Choose property packages **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 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 naming best practices writing your own distributable Python packages and getting up to speed with automated ways to deploy your software on remote servers You ll discover how to create useful Python extensions with C 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 and 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 Downloading the example code for this ebook You can download the example code files for this ebook on GitHub at the following link https github com PacktPublishing Expert Python Programming Third Edi   CompTIA PenTest+ Certification All-in-One Exam Guide, Second Edition (Exam PT0-002) Heather Linn,Raymond Nutting,2022-04-01 This fully updated guide delivers complete coverage of every topic on the current version of the CompTIA PenTest certification exam Get complete coverage of all the objectives included on the CompTIA PenTest certification exam PT0 002 from this comprehensive resource Written by expert penetration testers the book provides learning objectives at the beginning of each chapter hands on exercises exam tips and practice questions with in depth explanations Designed to help you pass the exam with ease this definitive volume also serves as an essential on the job reference Covers all exam topics including Planning and engagement Information gathering Vulnerability scanning Network based attacks Wireless and radio frequency attacks Web and database attacks Cloud attacks Specialized and fragile systems Social Engineering and physical attacks Post exploitation tools and techniques Post engagement activities Tools and code analysis And more Online content includes 170 practice exam questions Interactive performance based questions Test engine that provides full length practice exams or customizable quizzes by chapter or exam objective   **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 **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 Professional Made Easy* Sam Key,2015-08-09 Python Programming Professional Made Easy

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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

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