



Community Experience Distilled

Expert Python Programming

Second Edition

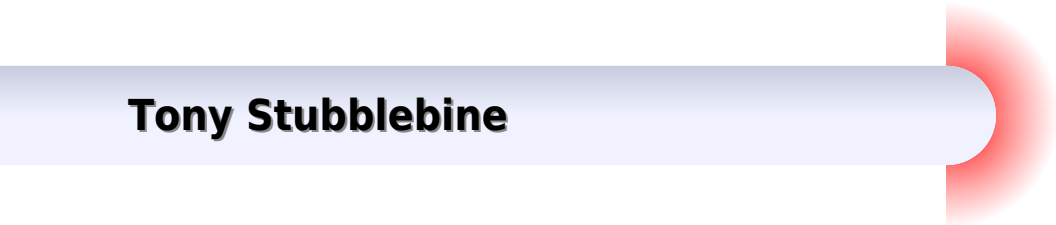
Become an ace Python programmer by learning best coding practices and advance-level concepts with Python 3.5

Michał Jaworski
Tarek Ziadé

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Expert Python Programming Second Edition

Tony Stubblebine



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 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 Ziadé, 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

Python: Journey from Novice to Expert Fabrizio Romano, Dusty Phillips, Rick van Hattem, 2016-08-31

Learn core concepts of Python and unleash its power to script highest quality Python programs
About This Book
Develop a strong set of programming skills with Python that you will be able to express in any situation on every platform thanks to Python's portability
Stop writing scripts and start architecting programs by applying object oriented programming techniques in Python
Learn the trickier aspects of Python and put it in a structured context for deeper understanding of the language
Who This Book Is For
This course is meant for programmers who want 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

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 Ziade,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

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 is 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 will 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 will 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 and integrate Python with code written in different languages Who this book is for This book will appeal to you if you are 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-Edition>

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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 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 *Dr. Dobb's Journal* ,2000 *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 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 **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.

Adopting the Beat of Appearance: An Mental Symphony within **Expert Python Programming Second Edition**

In a world used by screens and the ceaseless chatter of instantaneous connection, the melodic beauty and psychological symphony produced by the published word often diminish in to the backdrop, eclipsed by the persistent noise and interruptions that permeate our lives. However, located within the pages of **Expert Python Programming Second Edition** an enchanting literary treasure full of raw emotions, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, that interesting masterpiece conducts visitors on a mental journey, skillfully unraveling the concealed melodies and profound influence resonating within each carefully constructed phrase. Within the depths of the touching review, we will investigate the book is central harmonies, analyze its enthralling writing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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Expert Python Programming Second Edition Introduction

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