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Saying that it was finally time for the community to bid a “fond but firm farewell to Python 2”, core developer Benjamin ... the 2.x branch of the popular programming language.

Core Devs Say A Fond But Firm Farewell To Python 2  
The chapters guide the reader through: a complete

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beginners' course to programming in Python, with an introduction to computing jargon; descriptions of core bioinformatics ... real-world applications ...

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Python provides high-level data structures and an object-

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oriented programming approach, and can be used as an extension language for customizable applications such as AutoCAD ... including Revit and ...

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Screens for All Seasons Displays designed for use in embedded systems keep evolving. Today ' s crop of display products feature tiny form factors, sunlight-r ...

Embedded Displays Offer New Features and Formats

In future, Kotlin will greatly extend its capacity to work with complex data to rival with languages like Python and JavaScript. Additionally, the language will improve its meta-programming ...

Kotlin at Ten. Interview with JetBrains ' Roman Elizarov

To run the demo program, you must have Python installed on your machine. The demo program was developed on Windows 10 using the Anaconda 2020.02 64-bit distribution (which contains Python 3.7.6). The ...

Wasserstein Distance Using C# and Python

Microsoft has open sourced a .NET 5 C# Language Extension for SQL Server, allowing developers to work with relational data in the company ' s flagship programming language. The new tool joins similar ...

Microsoft Open Sources .NET 5 C# Language Extension for SQL Server — Visual Studio Magazine

“ Our motive was to create a programming language that would combine the simplicity of Python with the performance of C. This benefit enables many entrepreneurs to build powerful applications in ...

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Entrepreneur Viral B Shah talks about starting up in the open-source computing industry

Financial technology giant Square has joined the Open Invention Network, an organization committed to protecting open-source software and promoting "patent nonaggression," OIN said Tuesday.

Square Joins IP Nonaggression Group For Open-Source Tech  
Bosch Rexroth will present full details around a broad range of automation and manufacturing technology solutions for the packaging and processing industry in booth C-5214 at PACK EXPO 2021 ...

Bosch Rexroth Presents New World of Automation Solutions at PACK EXPO 2021 Las Vegas

The fully funded scholarships cover a range of core tech competencies ... The successful candidates will be able to select courses on topics such as AI Programming with Python, Java Programming, Data ...

Nokia makes scholarships pledge to improve representation of underrepresented communities in technology

The programs cover a broad range of core tech competencies ... will be able to select courses on topics such as AI Programming with Python, Java Programming, Data Structures and Algorithms ...

Praise for Core Python Programming The Complete Developer's Guide to Python New to Python? The definitive guide to Python development for experienced programmers Covers core language features thoroughly, including those found in the latest Python releases—learn more than just

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the syntax! Learn advanced topics such as regular expressions, networking, multithreading, GUI, Web/CGI, and Python extensions Includes brand-new material on databases, Internet clients, Java/Jython, and Microsoft Office, plus Python 2.6 and 3 Presents hundreds of code snippets, interactive examples, and practical exercises to strengthen your Python skills Python is an agile, robust, expressive, fully object-oriented, extensible, and scalable programming language. It combines the power of compiled languages with the simplicity and rapid development of scripting languages. In Core Python Programming, Second Edition , leading Python developer and trainer Wesley Chun helps you learn Python quickly and comprehensively so that you can immediately succeed with any Python project. Using practical code examples, Chun introduces all the fundamentals of Python programming: syntax, objects and memory management, data types, operators, files and I/O, functions, generators, error handling and exceptions, loops, iterators, functional programming, object-oriented programming and more. After you learn the core fundamentals of Python, he shows you what you can do with your new skills, delving into advanced topics, such as regular expressions, networking programming with sockets, multithreading, GUI development, Web/CGI programming and extending Python in C. This edition reflects major enhancements in the Python 2.x series, including 2.6 and tips for migrating to 3. It contains new chapters on database and Internet client programming, plus coverage of many new topics, including new-style classes, Java and Jython, Microsoft Office (Win32 COM Client) programming, and much more. Learn professional Python style, best practices, and good programming habits Gain a deep understanding of Python's objects and memory model as well as its OOP features, including those found in Python's new-style classes

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Build more effective Web, CGI, Internet, and network and other client/server applications Learn how to develop your own GUI applications using Tkinter and other toolkits available for Python Improve the performance of your Python applications by writing extensions in C and other languages, or enhance I/O-bound applications by using multithreading Learn about Python's database API and how to use a variety of database systems with Python, including MySQL, Postgres, and SQLite Features appendices on Python 2.6 & 3, including tips on migrating to the next generation!

Learn the most popular software programming language in easy steps KEY FEATURES Extensive coverage on fundamentals and core concepts of Python programming.

A complete reference guide to crack Python Interviews and exams. Includes ample MCQs and solved examples to prepare you for theory and practical exams. Easy-to-understand text with explanatory illustrations. DESCRIPTION Basic Core Python Programming is an absolute beginners book. It focuses on the fundamentals of Python programming and simplifies coding concepts. This book makes it easy to learn the concepts of Python variables, Expressions, Decision structures, and Iteration. Equipped with a lot of exercises and Q&As, you don ' t just practice the programming but also gain an in-depth understanding of the basic concepts of Python. You will start your journey right from how to go about Python installation and start using its interactive development environment and go on to learn how to build logic and implement it with coding. You will explore different types of data, operators, and in-built functions. This book covers numerous coding examples that will help you understand the importance of each data type, how to work with each one of them, and when to use them.

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You can learn some more practical useful concepts like how to implement control structures and use them for decision making and controlling the program flow. **WHAT YOU WILL LEARN** Stronghold on Python variables, expressions, decision structures, and iterations. Practical knowledge on how to work with various data types, operators, and in-built functions. Learn to implement strings, lists, arrays, and control structures. Learn how to control the program flow and how to use it for decision-making. A great reference book on Python basics for software programmers. **WHO THIS BOOK IS FOR** This book is highly appealing to all tech-savvy students, programming enthusiasts, IT undergraduates, and computer science students. You do not need any prior knowledge of programming to begin with this book as long as you have the interest to learn to program. **TABLE OF CONTENTS** 1. Introduction 2. Python Basics 3. Numbers, Operators, and In-built Functions 4. Strings 5. Lists and Arrays 6. Tuples and Dictionaries 7. Sets and Frozen Sets 8. Program Flow Control in Python

Demonstrates the programming language's strength as a Web development tool, covering such topics as regular expressions, Django, cloud computing, and Web services, and includes real world examples.

This is the eBook version of the printed book. If the print book includes a CD-ROM, this content is not included within the eBook version. **The Complete Developer's Guide to Python** New to Python? The definitive guide.

Using the simple, robust, Python-based Django framework, you can build powerful Web solutions with remarkably few

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lines of code. In Python Web Development with Django®, three experienced Django and Python developers cover all the techniques, tools, and concepts you need to make the most of Django 1.0, including all the major features of the new release. The authors teach Django through in-depth explanations, plus provide extensive sample code supported with images and line-by-line explanations. You ' ll discover how Django leverages Python ' s development speed and flexibility to help you solve a wide spectrum of Web development problems and learn Django best practices covered nowhere else. You ' ll build your first Django application in just minutes and deepen your real-world skills through start-to-finish application projects including Simple Web log (blog) Online photo gallery Simple content management system Ajax-powered live blogger Online source code sharing/syntax highlighting tool How to run your Django applications on the Google App Engine This complete guide starts by introducing Python, Django, and Web development concepts, then dives into the Django framework, providing a deep understanding of its major components (models, views, templates), and how they come together to form complete Web applications. After a discussion of four independent working Django applications, coverage turns to advanced topics, such as caching, extending the template system, syndication, admin customization, and testing. Valuable reference appendices cover using the command-line, installing and configuring Django, development tools, exploring existing Django applications, the Google App Engine, and how to get more involved with the Django community. Introduction 1 Part I: Getting Started Chapter 1: Practical Python for Django 7 Chapter 2: Django for the Impatient: Building a Blog 57 Chapter 3: Starting Out 77 Part II: Django in Depth Chapter 4: Defining and Using Models 89 Chapter 5: URLs, HTTP

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Summary This third revision of Manning's popular The Quick Python Book offers a clear, crisp updated introduction to the elegant Python programming language and its famously easy-to-read syntax. Written for programmers new to Python, this latest edition includes new exercises throughout. It covers features common to other languages concisely, while introducing Python's comprehensive standard functions library and unique features in detail. Foreword by Nicholas Tollervey, Python Software Foundation. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Initially Guido van Rossum's 1989 holiday project, Python has grown into an amazing computer language. It's a joy to learn and read, and powerful enough to handle everything from low-level system resources to advanced applications like deep learning. Elegantly simple and complete, it also boasts a massive ecosystem of libraries and frameworks. Python programmers are in high demand/—;you can't afford

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not to be fluent! About the Book The Quick Python Book, Third Edition is a comprehensive guide to the Python language by a Python authority, Naomi Ceder. With the personal touch of a skilled teacher, she beautifully balances details of the language with the insights and advice you need to handle any task. Extensive, relevant examples and learn-by-doing exercises help you master each important concept the first time through. Whether you're scraping websites or playing around with nested tuples, you'll appreciate this book's clarity, focus, and attention to detail.

What's Inside Clear coverage of Python 3 Core libraries, packages, and tools In-depth exercises Five new data science-related chapters About the Reader Written for readers familiar with programming concepts--no Python experience assumed. About the Author Naomi Ceder is chair of the Python Software Foundation. She has been learning, using, and teaching Python since 2001.

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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

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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

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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.

Whether you're building GUI prototypes or full-fledged cross-platform GUI applications with native look-and-feel, PyQt 4 is your fastest, easiest, most powerful solution. Qt expert Mark Summerfield has written the definitive best-practice guide to PyQt 4 development. With *Rapid GUI Programming with Python and Qt* you'll learn how to build efficient GUI applications that run on all major operating systems, including Windows, Mac OS X, Linux, and many versions of Unix, using the same source code for all of them. Summerfield systematically introduces every core GUI development technique: from dialogs and windows to data handling; from events to printing; and more. Through the book's realistic examples you'll discover a completely new PyQt 4-based programming approach, as well as coverage of many new topics, from PyQt 4's rich text engine to advanced model/view and graphics/view programming. Every key concept is illuminated with realistic, downloadable examples—all tested on Windows, Mac OS X, and Linux with Python 2.5, Qt 4.2, and PyQt 4.2, and on Windows and Linux with Qt 4.3 and PyQt 4.3.

Build it with Python, the popular and batteries-included programming tool **Key Features** Get familiar with the

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fundamentals of Python. Understand the OOP paradigm and learn to write your custom object classes. Explore tools and techniques to measure code execution for Performance Optimization. Understand how Python is used in the main Cryptographic mechanisms. Description “ Python In-Depth ” gives you a detailed presentation of the possibilities for solving everyday problems, even complex ones using Python. You will begin by setting up Python in your system and then learn about the fundamentals of Python so that you have a rock-solid foundation to build upon. You will explore the foundations of Python programming, such as the built-in data types, functions, objects and classes, files, etc. You will then explore the different programming paradigms such as OOP, Functional, and Concurrent, and find the best approach given a situation. You will also learn how to utilize an interchange format to exchange data and understand how to carry out performance optimization, effective debugging, and security, among other techniques. Towards the end, you will enjoy two chapters dedicated to two domains where Python usage is currently very strong: Data Science and Web Development. What will you learn Learn how to improve your Python Code Quality. Explore the techniques and frameworks for Python GUI Programming.

Solve Data Science and Machine Learning problems using Python. Get familiar with Python web frameworks; Django and Flask. Who this book is for This book is for anyone who is new to Software Development and wants to learn Python. Existing Python users can also use this book for a quick reference for the fundamentals and the features introduced in Python 3.7. Table of Contents 1. Getting Started with Python 2. Program Flow and Error Handling 3. Functions, Modules, and Functional Programming 4. Useful Modules and Libraries 5. Object Orientation 6. Decorators

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