Learning Python Powerful Object Oriented Programming

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get a comprehensive in depth introduction to the core python language with this hands on book based on author mark lutz s popular training course this updated sixth edition will help you quickly write efficient high quality code with python it s an ideal way to begin whether you re new to programming or a professional developer versed in other

languages complete with quizzes exercises and helpful illustrations this easy to follow self paced tutorial gets you started with python 3 12 and all other releases in use today with a pragmatic focus on what you need to know it also introduces some advanced language features that have become increasingly common in python code this book helps you explore python s built in object types such as strings lists dictionaries and files create and process objects with python statements and learn python s syntax model use functions and functional programming to avoid redundancy and maximize reuse organize code into larger components with modules and packages code robust programs with python s exception handling and development tools apply object oriented programming and classes to make code customizable survey advanced python tools including decorators descriptors and metaclasses write idiomatic python code that runs portably across a wide variety of platforms

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 scope 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

portable powerful and a breeze to use python is ideal for both standalone programs and scripting applications with this hands on book you can master the fundamentals of the core python language quickly and efficiently whether you re new to programming or just new to python once you finish you will know enough about the language to use it in any application domain you choose learning python is based on material from author mark lutz s popular training courses which he s taught over the past decade each chapter is a self contained lesson that helps you thoroughly understand a key component of python before you continue along with plenty of annotated examples illustrations and chapter summaries every chapter also contains brain builder a unique section with practical exercises and review quizzes that let you practice new skills and test your understanding as you go this book covers types and operations python s major built in object types in depth numbers lists dictionaries and more statements and syntax the code you type to create and process objects in python along with python s general syntax model functions python s basic procedural tool for structuring and reusing code modules packages of statements functions and other tools organized into larger components classes and oop python s optional object oriented programming tool for structuring code for customization and reuse exceptions and tools exception handling model and statements plus a look at development tools for writing larger programs learning python gives you a deep and complete understanding of the language that will help you comprehend any application level examples of python that you later encounter if you re ready to discover what google and youtube see in python this book is the best way to get started

quickly learn how to automate unit testing of python 3 code with python 3 automation libraries such as doctest unittest nose nose2 and pytest this book explores the important concepts in software testing and their implementation in python 3 and shows you how to automate organize and execute unit tests for this language this knowledge is often acquired by reading source code manuals and posting questions on community forums

which tends to be a slow and painful process python unit test automation will allow you to quickly ramp up your understanding of unit test libraries for python 3 th practical use of code examples and exercises all of which makes this book a great resource for software developers and testers who want to get started with unit test automation in python 3 and compare the differences with python 2 this short work is your must have quick start guide to mastering the essential concepts of software testing in python what you ll learn essential concepts in software testing various test automation libraries for python such as doctest unittest nose no development and best practices for test automation in python code examples and exercises who this book is for python developers software testers open source enthusiasts and contributors to the python community

even experienced python programmers often write code that works but isn t as maintainable efficient or reusable as it could be mastering python is an advanced level guide that helps bridge that gap it goes beyond the basics to show how to use python in a more pythonic way employing newer features and best practices so your code is cleaner faster and more robus writing pythonic code adopting style idioms and syntax that are considered best practice in modern python development functional programming features decorators generators coroutines metaclasses performance optimization efficient use of cpu and memory profiling concurrency asyncio multiprocessing testing debugging using pytest unittest doctest debugging tools like pdb etc extending python calling c c code accessing lower level system features scientific data science tools use of numpy scipy pandas tensorflow etc barnes noble 2amazon 2 packaging and distributing code making sizable projects maintainable and shareable

write your own digital image processing programs with the use of pillow scipy ndimage and matplotlib in python 3 with raspberry pi 3 as the hardware platform this concise quick start guide provides working code examples and exercises learn how to interface raspberry pi with various image sensors what you ll learn understand raspberry pi concepts and setup understand digital image processing concepts study pillow the friendly pil fork explore scipy ndimage and matplotlib master use of the pi camera and webcam who this book is for raspberry pi and iot enthusiasts digital image processing enthusiasts python and open source enthusiasts and professionals

build an inexpensive cluster of multiple raspberry pi computers and install all the required

libraries to write parallel and scientific programs in python 3 this book covers setting up your raspberry pis installing the necessary software and making a cluster of multiple pis once the cluster is built its power has to be exploited by means of programs to run on it so raspberry pi supercomputing and scientific programming teaches you to code the cluster with the mpi4py library of python 3 along the way you will learn the concepts of the message passing interface mpi standards and will explore the fundamentals of parallel programming on your inexpensive cluster this will make this book a great starting point for supercomputing enthusiasts who want to get started with parallel programming the book finishes with details of symbolic mathematics and scientific and numerical programming in python using sympi scipy numpy and matplotlib you ll see how to process signals and images carry out calculations using linear algebra and visualize your results all using python code with the power of a raspberry pi supercomputer at your fingertips data intensive scientific programming becomes a reality at home what you will learn discover the essentials of supercomputing build a low cost cluster of raspberry pis at home harness the power of parallel programming and the message passing interface mpi use your raspberry pi for symbolic numerical and scientific programming who this book is for python 3 developers who seek the knowledge of pa raspberry pi enthusiasts researchers and the scientific python community

in this new and improved third edition of the highly popular game engine architecture jason gregory draws on his nearly two decades of experience at midway electronic arts and naughty dog to present both the theory and practice of game engine software development in this book the broad range of technologies and techniques used by aaa game studios are each explained in detail and their roles within a real industrial strength game engine are illustrated new to the third edition this third edition offers the same comprehensive coverage of game engine architecture provided by previous editions along with updated coverage of computer and cpu hardware and memory caches compiler optimizations c language standardization the ieee 754 floating point representation 2d user interfaces plus an entirely new chapter on hardware parallelism and concurrent programming this book is intended to serve as an introductory text but it also offers the experienced game programmer a useful perspective on aspects of game development technology with which they may not have deep experience as always copious references and citations are provided in this edition making it an excellent jumping off point for those who wish to dig deeper into any particular aspect of the game development process key features covers both the theory and practice of game engine software

development examples are grounded in specific technologies but discussion extends beyond any particular engine or api includes all mathematical background needed comprehensive text for beginners and also has content for senior engineers

provides information and tutorials on python s application domains and its use in databases networking scripting layers and text processing

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this book offers practical applications and code to help users get up to speed with this innovative programming language by providing recipes of python programs and scripts users are able to get their programs running faster with less hassle cd features python code programs and full a text version of the book

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description this book is meant for wide range of readers who wish to learn the basics of python programming language it can be helpful for students programmers researchers and software developers the basic concepts of python programming are dealt in detail the various concepts of python language such as object oriented features operators native data types control structures functions exception handling file handling etc are discussed in detail with the authentic programming illustration of each presently python programming is a hot topic among academicians researchers and program developers as a result the book is designed to give an in depth knowledge of programming in python this book can be used as hand book as well as a guide for students of all computer science stream at any grade beginning from 10 1 to research in phd to conclude we hope that the readers will find this book a helpful guide and valuable source of information about python programming salient features of the book detailed explanation of python programming language concepts detailed comparisons and differentiation of python language from other most popular languages c c java authentic and extensive set of programming illustrations in every chapter of the book broad study on all the programming constructs of the python programming language such as native data types looping decision making exception handling file handling etc broad study of python object

oriented programming features with illustrations numerous review questions and exercises at the end of every chapter a compact disc containing all the programming codes written in this book is included within the book table of contents introduction to python languagepython data types and input outputoperators and expressionscontrol structurespython native data typespython functionspython modulesexception handlingfile management in pythonclasses and objectsinheritancepython operator overloadingappendix ibibliographyindex

python object oriented programming for beginners learn the secrets of clean reusable code with python s object oriented paradigm build powerful python applications the smart way are you ready to take your python skills to the next level and start coding like a pro it s time to say goodbye to spaghetti code and hello to clean structured and scalable programs using object oriented programming oop the secret weapon of expert developers and elite coders across the globe this isn t just another python book this is your step by step roadmap to mastering object oriented programming from the ground up even if you ve never written a class or method in your life what you ll discover inside the core concepts of oop made stupidly simple classes objects inheritance encapsulation polymorphism all explained with clarity and real life examples write less do more learn how oop helps you create reusable modular and maintainable code like a seasoned software engineer crack the code of real world application design from planning to execution you ll be guided on how to structure your python apps like a professional hands on projects practical examples cement your knowledge by building actual projects as you go boost your career coding confidence whether you re preparing for a job launching your own apps or contributing to open source oop gives you the edge this book is perfect for complete python beginners ready to level up developers who ve heard of oop but never truly got it students self learners and career switchers anyone who wants to write code that s not just functional but elegant and bulletproof why oop with python python is the language of the future and object oriented programming is the foundation of clean software engineering together they re an unstoppable force by learning python oop you ll unlock a deeper understanding of how professional grade apps are built giving you the ability to not just code but to create scale and innovate ready to code like a pro if you re serious about writing smarter faster and cleaner python code this is the only book you need grab your copy of python object oriented programming for beginners right now and transform the way you write code forever

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