

Mastering Object-Oriented Python

Second Edition

Build powerful applications with reusable code using OOP design patterns and Python 3.7

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Steven F. Lott

Mastering Object Oriented Python Lott Steven F

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Mastering Object Oriented Python Steven Lott, 2014 This book follows a standard tutorial approach with approximately 750 code samples spread through the 19 chapters This amounts to over 5 900 lines of code that illustrate each concept This book is aimed at programmers who have already learned the basics of object oriented Python and need to write more sophisticated flexible code that integrates seamlessly with the rest of Python This book assumes a computer science background with experience of common Python design patterns [Mastering Object-Oriented Python](#) Steven F. Lott, 2019-06-14 Gain comprehensive insights into programming practices and code portability and reuse to build flexible and maintainable apps using object oriented principles Key Features Extend core OOP techniques to increase integration of classes created with Python Explore various Python libraries for handling persistence and object serialization Learn alternative approaches for solving programming problems with different attributes to address your problem domain Book Description Object oriented programming OOP is a relatively complex discipline to master and it can be difficult to see how general principles apply to each language s unique features With the help of the latest edition of Mastering Object Oriented Python you ll be shown how to effectively implement OOP in Python and even explore Python 3 x Complete with practical examples the book guides you through the advanced concepts of OOP in Python and demonstrates how you can apply them to solve complex problems in OOP You will learn how to create high quality Python programs by exploring design alternatives and determining which design offers the best performance Next you ll work through special methods for handling simple object conversions and also learn about hashing and comparison of objects As you cover later chapters you ll discover how essential it is to locate the best algorithms and optimal data structures for developing robust solutions to programming problems with minimal computer processing Finally the book will assist you in leveraging various Python features by implementing object oriented designs in your programs By the end of this book you will have learned a number of alternate approaches with different attributes to confidently solve programming problems in Python What you will learn Explore a variety of different design patterns for the `__init__` method Learn to use Flask to build a RESTful web service Discover SOLID design patterns and principles Use the features of Python 3 s abstract base Create classes for your own applications Design testable code using pytest and fixtures Understand how to design context managers that leverage the with statement Create a new type of collection using standard library and design techniques Develop new number types above and beyond the built in classes of numbers Who this book is for This book is for developers who want to use Python to create efficient programs A good understanding of Python programming is required to make the most out of this book Knowledge of concepts related to object oriented design patterns will also be useful **Mastering Object-oriented Python** Steven F. Lott, 2014-04-22 This book follows a standard tutorial approach with approximately 750 code samples spread through the 19 chapters This amounts to over 5 900 lines of code that illustrate each concept This book is aimed at programmers who have

already learned the basics of object oriented Python and need to write more sophisticated flexible code that integrates seamlessly with the rest of Python This book assumes a computer science background with experience of common Python design patterns

Python Object-Oriented Programming Steven F. Lott,Dusty Phillips,2021-07-02 A comprehensive guide to exploring modern Python through data structures design patterns and effective object oriented techniques Key Features Build an intuitive understanding of object oriented design from introductory to mature programs Learn the ins and outs of Python syntax libraries and best practices Examine a machine learning case study at the end of each chapter Book Description Object oriented programming OOP is a popular design paradigm in which data and behaviors are encapsulated in such a way that they can be manipulated together Python Object Oriented Programming Fourth Edition dives deep into the various aspects of OOP Python as an OOP language common and advanced design patterns and hands on data manipulation and testing of more complex OOP systems These concepts are consolidated by open ended exercises as well as a real world case study at the end of every chapter newly written for this edition All example code is now compatible with Python 3.9 syntax and has been updated with type hints for ease of learning Steven and Dusty provide a comprehensive illustrative tour of important OOP concepts such as inheritance composition and polymorphism and explain how they work together with Python's classes and data structures to facilitate good design In addition the book also features an in depth look at Python's exception handling and how functional programming intersects with OOP Two very powerful automated testing systems unittest and pytest are introduced The final chapter provides a detailed discussion of Python's concurrent programming ecosystem By the end of the book you will have a thorough understanding of how to think about and apply object oriented principles using Python syntax and be able to confidently create robust and reliable programs What you will learn Implement objects in Python by creating classes and defining methods Extend class functionality using inheritance Use exceptions to handle unusual situations cleanly Understand when to use object oriented features and more importantly when not to use them Discover several widely used design patterns and how they are implemented in Python Uncover the simplicity of unit and integration testing and understand why they are so important Learn to statically type check your dynamic code Understand concurrency with asyncio and how it speeds up programs Who this book is for If you are new to object oriented programming techniques or if you have basic Python skills and wish to learn how and when to correctly apply OOP principles in Python this is the book for you Moreover if you are an object oriented programmer coming from other languages or seeking a leg up in the new world of Python you will find this book a useful introduction to Python Minimal previous experience with Python is necessary

Mastering Object-oriented Python Steven F. Lott,2019 Object oriented programming OOP is a relatively complex discipline to master and it can be difficult to see how general principles apply to each language's unique features With the help of the latest edition of Mastering Objected Oriented Python you ll be shown how to effectively implement OOP in Python and even explore Python 3.x Complete with practical examples the book guides

you through the advanced concepts of OOP in Python and demonstrates how you can apply them to solve complex problems in OOP You will learn how to create high quality Python programs by exploring design alternatives and determining which design offers the best performance Next you ll work through special methods for handling simple object conversions and also learn about hashing and comparison of objects As you cover later chapters you ll discover how essential it is to locate the best algorithms and optimal data structures for developing robust solutions to programming problems with minimal computer processing Finally the book will assist you in leveraging various Python features by implementing object oriented designs in your programs By the end of this book you will have learned a number of alternate approaches with different attributes to confidently solve programming problems in Python *Functional Python Programming* Steven F.

Lott,2018-04-13 Create succinct and expressive implementations with functional programming in Python Key Features Learn how to choose between imperative and functional approaches based on expressiveness clarity and performance Get familiar with complex concepts such as monads concurrency and immutability Apply functional Python to common Exploratory Data Analysis EDA programming problems Book Description If you re a Python developer who wants to discover how to take the power of functional programming FP and bring it into your own programs then this book is essential for you even if you know next to nothing about the paradigm Starting with a general overview of functional concepts you ll explore common functional features such as first class and higher order functions pure functions and more You ll see how these are accomplished in Python 3 6 to give you the core foundations you ll build upon After that you ll discover common functional optimizations for Python to help your apps reach even higher speeds You ll learn FP concepts such as lazy evaluation using Python s generator functions and expressions Moving forward you ll learn to design and implement decorators to create composite functions You ll also explore data preparation techniques and data exploration in depth and see how the Python standard library fits the functional programming model Finally to top off your journey into the world of functional Python you ll at look at the PyMonad project and some larger examples to put everything into perspective What you will learn Use Python s generator functions and generator expressions to work with collections in a non strict or lazy manner Utilize Python library modules including itertools functools multiprocessing and concurrent features to ensure efficient functional programs Use Python strings with object oriented suffix notation and prefix notation Avoid stateful classes with families of tuples Design and implement decorators to create composite functions Use functions such as max min map filter and sorted Write higher order functions Who this book is for This book is for Python developers who would like to perform Functional programming with Python Python Programming knowledge is assumed *Mastering Object-Oriented Python - Second Edition* Steven Lott,2019 Gain comprehensive insights into programming practices and code portability and reuse to build flexible and maintainable apps using object oriented principles Key Features Extend core OOP techniques to increase integration of classes created with Python Explore various Python libraries for handling persistence and object serialization Learn alternative approaches

for solving programming problems with different attributes to address your problem domain

Book Description Object oriented programming OOP is a relatively complex discipline to master and it can be difficult to see how general principles apply to each language's unique features. With the help of the latest edition of *Mastering Object Oriented Python* you'll be shown how to effectively implement OOP in Python and even explore Python 3.x. Complete with practical examples, the book guides you through the advanced concepts of OOP in Python and demonstrates how you can apply them to solve complex problems in OOP. You will learn how to create high quality Python programs by exploring design alternatives and determining which design offers the best performance. Next you'll work through special methods for handling simple object conversions and also learn about hashing and comparison of objects. As you cover later chapters you'll discover how essential it is to locate the best algorithms and optimal data structures for developing robust solutions to programming problems with minimal computer processing. Finally, the book will assist you in leveraging various Python features by implementing object oriented designs in your programs. By the end of this book you will have learned a number of alternate approaches with different attributes to confidently solve programming problems in Python.

What you will learn

- Explore a variety of different design patterns for the `__init__` method
- Learn to use Flask to build a RESTful web service
- Discover SOLID design patterns and principles
- Use the features of Python 3's abstract base classes
- Create classes for your own applications
- Design testable code using `pytest` and `fixtures`
- Understand how to design context managers that leverage the `with` statement
- Create a new type of collection using standard library and design techniques
- Develop new number types above and beyond the built-in classes of numbers

Who this book is for This book is for developers who want to use Python to create efficient programs. A good understanding of Python programming is required.

Python Essentials Steven F. Lott, 2015-06-30 *Python Essentials* provides a vital tour of the most critical features of Python. Starting with setup and installation, you will soon dive into exploring built-in library types. Python's rich collection of operators and built-in functions, variables, assignment, and scoping rules. From this foundation, you will explore functions, a crucial aspect of any programming language, including considerable sophistication in defining parameters to a function and providing argument values. Explore advanced functional programming using generator expressions, comprehensions, and generator functions. Handle file input and output using web services and context managers, exception handling, and explore wider popular frameworks. Through this concise and practical guide, you will explore all you need to know to leverage this powerful and industry standard programming language.

Functional Python Programming - Third Edition STEVEN F. LOTT, 2022-12-30 Python isn't all about object oriented programming. Discover a valuable way of thinking about code design through a function first approach and learn when you need to use it. Now with detailed exercises at the end of every chapter. Purchase of the print or Kindle book includes a free eBook in PDF format.

Key Features

- Learn how, when, and why to adopt functional elements in your projects
- Explore the Python modules essential to functional programming like `itertools` and `functools`
- Revised to cover new features of Python 3.10
- 10 exercises at the

end of every chapter and more

Book Description Not enough developers understand the benefits of functional programming or even what it is Author Steven Lott demystifies the approach teaching you how to improve the way you code in Python and make gains in memory use and performance Starting from the fundamentals this book shows you how to apply functional thinking and techniques in a range of scenarios with examples centered around data cleaning and exploratory data analysis You ll learn how to use generator expressions list comprehensions and decorators to your advantage You don t have to abandon object oriented design completely though you ll also see how Python s native object orientation is used in conjunction with functional programming techniques By the end of this book you ll be well versed in the essential functional programming features of Python and understand why and when functional thinking helps You ll also have all the tools you need to pursue any additional functional topics that are not part of the Python language What You Will Learn Use Python s libraries to avoid the complexities of state changing classes Leverage built in higher order functions to avoid rewriting common algorithms Write generator functions to create lazy processing Design and implement decorators for functional composition Make use of Python type annotations to describe parameters and results of functions Apply functional programming to concurrency and web services Explore the PyMonad library for stateful simulations Who this book is for The functional paradigm is very useful for programmers working in data science but any Python developer who wants to create more reliable succinct and expressive code will have much to learn from this book

Object-Oriented Programming

Amany Fawzy Elgamal,2024-01-09 This book explores the concepts of object oriented programming which have become the cornerstone of most programming languages The book introduces the meaning of classes and objects inheritance encapsulation and polymorphism It also contains examples of Unified Modeling Language UML that enable the reader to model systems The book explains these concepts in a simple manner and includes the application of these concepts through a large number of examples in three different programming languages C VB Net and Python The concepts introduced in the book are applicable to any programming language which supports object oriented programming The book is an indispensable resource that will enhance its readers system development skills

Pivot to Python Steven F. Lott,2022-09-13 This book is

aimed at people who know something about programming The idea is provide a quick read with a lot of examples It will get professionals started in a repeatable robust way They will of course have questions around some details of the presentation applying some of their experiences with other shabby programming languages to Python This book will be usable by someone who has a technical background and is interested in exploring programming and Python

Play Among Books Miro

Roman,Alice _ch3n81,2021-12-06 How does coding change the way we think about architecture This question opens up an important research perspective In this book Miro Roman and his AI Alice_ch3n81 develop a playful scenario in which they propose coding as the new literacy of information They convey knowledge in the form of a project model that links the fields of architecture and information through two interwoven narrative strands in an infinite flow of real books Focusing on the

intersection of information technology and architectural formulation the authors create an evolving intellectual reflection on digital architecture and computer science

Python for Secret Agents - Volume II Steven Lott, 2015-12-08

Gather and analyze and decode data to reveal hidden facts using Python the perfect tool for all aspiring secret agents

About This Book Discover the essential features of Python programming statements variables expressions and many of the built in data types Use Python's standard library to do more sophisticated data gathering and analysis

Written by a Python programming expert with over 35 years experience as a consultant teacher author and software developer

Who This Book Is For This book is for Secret Agents who have some exposure to Python Our focus is on the Field Agents who are ready to do more sophisticated and complex programming in Python We'll stick to simple statistics for the most part A steady hand with a soldering iron is not required but a skilled field agent should be able to assemble a working Arduino circuit to gather their own sensor data

What You Will Learn Upgrade Python to the latest version and discover its latest and greatest tools Use Python libraries to extract data from log files that are designed more for people to read than for automated analysis Summarize log files and extract meaningful information Gather data from social networking sites and leverage your experience of analyzing log files to summarize the data you find Extract text and images from social networking sites Parse the complex and confusing data structures in a PDF file to extract meaningful text that we can analyze Connect small intelligent devices to our computer to use them as remote sensors Use Python to analyze measurements from sensors to calibrate them and use sensors efficiently

In Detail Python is easy to learn and extensible programming language that allows any manner of secret agent to work with a variety of data Agents from beginners to seasoned veterans will benefit from Python's simplicity and sophistication The standard library provides numerous packages that move beyond simple beginner missions The Python ecosystem of related packages and libraries supports deep information processing This book will guide you through the process of upgrading your Python based toolset for intelligence gathering analysis and communication You'll explore the ways Python is used to analyze web logs to discover the trails of activities that can be found in web and database servers We'll also look at how we can use Python to discover details of the social network by looking at the data available from social networking websites Finally you'll see how to extract history from PDF files which opens up new sources of data and you'll learn about the ways you can gather data using an Arduino based sensor device

Style and approach Each chapter will include a background briefing that covers an essential Python technology After some in depth exploration of the features the chapter will conclude with a mission that is a concrete application of the Python tools and techniques covered

Modern Python Cookbook Steven F. Lott, 2016-11-30

The latest in modern Python recipes for the busy modern programmer

About This Book Develop succinct expressive programs in Python Learn the best practices and common idioms through carefully explained and structured recipes Discover new ways to apply Python for the new age of development

Who This Book Is For The book is for web developers programmers enterprise programmers engineers big data scientist and so on If you are a beginner Python

Cookbook will get you started If you are experienced it will expand your knowledge base A basic knowledge of programming would help What You Will Learn See the intricate details of the Python syntax and how to use it to your advantage Improve your code readability through functions in Python Manipulate data effectively using built in data structures Get acquainted with advanced programming techniques in Python Equip yourself with functional and statistical programming features Write proper tests to be sure a program works as advertised Integrate application software using Python In Detail Python is the preferred choice of developers engineers data scientists and hobbyists everywhere It is a great scripting language that can power your applications and provide great speed safety and scalability By exposing Python as a series of simple recipes you can gain insight into specific language features in a particular context Having a tangible context helps make the language or standard library feature easier to understand This book comes with over 100 recipes on the latest version of Python The recipes will benefit everyone ranging from beginner to an expert The book is broken down into 13 chapters that build from simple language concepts to more complex applications of the language The recipes will touch upon all the necessary Python concepts related to data structures OOP functional programming as well as statistical programming You will get acquainted with the nuances of Python syntax and how to effectively use the advantages that it offers You will end the book equipped with the knowledge of testing web services and configuration and application integration tips and tricks The recipes take a problem solution approach to resolve issues commonly faced by Python programmers across the globe You will be armed with the knowledge of creating applications with flexible logging powerful configuration and command line options automated unit tests and good documentation Style and approach This book takes a recipe based approach where each recipe addresses specific problems and issues The recipes provide discussions and insights and an explanation of the problems

Learning Python Network Programming Dr. M. O. Faruque Sarker, Sam Washington, 2015-06-17 Network programming has always been a demanding task With full featured and well documented libraries all the way up the stack Python makes network programming the enjoyable experience it should be Starting with a walkthrough of today s major networking protocols with this book you ll learn how to employ Python for network programming how to request and retrieve web resources and how to extract data in major formats over the Web You ll utilize Python for e mailing using different protocols and you ll interact with remote systems and IP and DNS networking As the book progresses socket programming will be covered followed by how to design servers and the pros and cons of multithreaded and event driven architectures You ll develop practical client side applications including web API clients e mail clients SSH and FTP These applications will also be implemented through existing web application frameworks

Groovy for Domain-specific Languages Fergal Dearle, 2015-09-28 Extend and enhance your Java applications with domain specific scripting in Groovy About This Book Build domain specific mini languages in Groovy that integrate seamlessly with your Java apps with this hands on guide Increase stakeholder participation in the development process with domain specific scripting in Groovy Get up to speed with

the newest features in Groovy using this second edition and integrate Groovy based DSLs into your existing Java applications

Who This Book Is For This book is for Java software developers who have an interest in building domain scripting into their Java applications No knowledge of Groovy is required although it will be helpful This book does not teach Groovy but quickly introduces the basic ideas of Groovy An experienced Java developer should have no problems with these and move quickly on to the more involved aspects of creating DSLs with Groovy No experience of creating a DSL is required

What You Will Learn

- Familiarize yourself with Groovy scripting and work with Groovy closures
- Use the meta programming features in Groovy to build mini languages
- Employ Groovy mark up and builders to simplify application development
- Familiarize yourself with Groovy mark up and build your own Groovy builders
- Build effective DSLs with operator overloading command chains builders and a host of other Groovy language features
- Integrate Groovy with your Java and JVM based applications

In Detail

The times when developing on the JVM meant you were a Java programmer have long passed The JVM is now firmly established as a polyglot development environment with many projects opting for alternative development languages to Java such as Groovy Scala Clojure and JRuby In this pantheon of development languages Groovy stands out for its excellent DSL enabling features which allows it to be manipulated to produce mini languages that are tailored to a project s needs A comprehensive tutorial on designing and developing mini Groovy based Domain Specific Languages this book will guide you through the development of several mini DSLs that will help you gain all the skills needed to develop your own Groovy based DSLs with confidence and ease Starting with the bare basics this book will focus on how Groovy can be used to construct domain specific mini languages and will go through the more complex meta programming features of Groovy including using the Abstract Syntax Tree AST Practical examples are used throughout this book to demystify these seemingly complex language features and to show how they can be used to create simple and elegant DSLs Packed with examples including several fully worked DSLs this book will serve as a springboard for developing your own DSLs

Style and approach This book is a hands on guide that will walk you through examples for building DSLs with Groovy rather than just talking about metaprogramming with Groovy The examples in this book have been designed to help you gain a good working knowledge of the techniques involved and apply these to producing your own Groovy based DSLs

Python for Secret Agents Steven F. Lott, 2014-08-26 If you are a Python beginner who is looking to learn the language through interesting projects this book is for you A basic knowledge of programming and statistics is beneficial to get the most out of the book

Test-Driven Python Development Siddharta Govindaraj, 2015-04-29 This book is intended for Python developers who want to use the principles of test driven development TDD to create efficient and robust applications In order to get the best out of this book you should have development experience with Python

Python Real-World Projects Steven F. Lott, 2023-09-15 Develop Python applications using an enterprise based approach with unit and acceptance tests by following agile methods to create a minimum viable product MVP and iteratively add features

Key Features Master Python and related technologies by working

on 12 hands on projects Accelerate your career by building a personal project portfolio Explore data acquisition preparation and analysis applications Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionIn today s competitive job market a project portfolio often outshines a traditional resume Python Real World Projects empowers you to get to grips with crucial Python concepts while building complete modules and applications With two dozen meticulously designed projects to explore this book will help you showcase your Python mastery and refine your skills Tailored for beginners with a foundational understanding of class definitions module creation and Python s inherent data structures this book is your gateway to programming excellence You ll learn how to harness the potential of the standard library and key external projects like JupyterLab Pydantic pytest and requests You ll also gain experience with enterprise oriented methodologies including unit and acceptance testing and an agile development approach Additionally you ll dive into the software development lifecycle starting with a minimum viable product and seamlessly expanding it to add innovative features By the end of this book you ll be armed with a myriad of practical Python projects and all set to accelerate your career as a Python programmer What you will learn Explore core deliverables for an application including documentation and test cases Discover approaches to data acquisition such as file processing RESTful APIs and SQL queries Create a data inspection notebook to establish properties of source data Write applications to validate clean convert and normalize source data Use foundational graphical analysis techniques to visualize data Build basic univariate and multivariate statistical analysis tools Create reports from raw data using JupyterLab publication tools Who this book is forThis book is for beginner to intermediate level Python programmers looking to enhance their resume by adding a portfolio of 12 practical projects A basic understanding of the Python language and its aligned technologies is a must The book helps you polish your Python skills and project building prowess without delving into basic Python fundamentals *Bootstrap for Rails* Syed Fazle Rahman,2015-02-24 If you are a web developer who has a basic understanding of Ruby on Rails this is the book for you You should definitely have previous knowledge about HTML and how it works However CSS and JavaScript knowledge is optional for this book

Ignite the flame of optimism with Crafted by is motivational masterpiece, Fuel Your Spirit with **Mastering Object Oriented Python Lott Steven F** . In a downloadable PDF format (PDF Size: *), this ebook is a beacon of encouragement. Download now and let the words propel you towards a brighter, more motivated tomorrow.

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Mastering Object Oriented Python Lott Steven F Introduction

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