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Object Oriented Python By
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This book presents a balanced and flexible approach to the incorporation of object-oriented principles in introductory courses using Python. Familiarizes readers with the terminology of object-oriented programming, the concept of an object's underlying state information, and its menu of available behaviors. Includes an exclusive, easy-to-use custom graphics

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library that helps readers grasp both basic and more advanced concepts. Lays the groundwork for transition to other languages such as Java and C++. For those interested in learning more about object-oriented programming using Python. Understand the constructs of the Python programming language and use them to build data science projects

Key Features Learn the basics of developing applications with Python and deploy your first data application Take your first steps in Python programming by understanding and using data structures, variables, and loops Delve into

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Jupyter, NumPy, Pandas,

SciPy, and sklearn to explore the data science ecosystem in Python Book Description Python is the most widely used programming language for building data science applications.

Complete with step-by-step instructions, this book contains easy-to-follow tutorials to help you learn Python and develop real-world data science projects. The “secret sauce” of the book is its curated list of topics and solutions, put together using a range of real-world projects, covering initial data collection, data analysis, and production. This Python

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book starts by taking you through the basics of programming, right from variables and data types to classes and functions. You'll learn how to write idiomatic code and test and debug it, and discover how you can create packages or use the range of built-in ones. You'll also be introduced to the extensive ecosystem of Python data science packages, including NumPy, Pandas, scikit-learn, Altair, and Datashader. Furthermore, you'll be able to perform data analysis, train models, and interpret and communicate the results. Finally, you'll get to grips with structuring and

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scheduling scripts using Luigi and sharing your machine learning models with the world as a microservice. By the end of the book, you'll have learned not only how to implement Python in data science projects, but also how to maintain and design them to meet high programming standards. What you will learn

- Code in Python using Jupyter and VS Code
- Explore the basics of coding – loops, variables, functions, and classes
- Deploy continuous integration with Git, Bash, and DVC
- Get to grips with Pandas, NumPy, and scikit-learn
- Perform data visualization with

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Matplotlib, Altair, and
Datashader Create a package
out of your code using
poetry and test it with
PyTest Make your machine
learning model accessible to
anyone with the web API Who
this book is for If you want
to learn Python or data
science in a fun and
engaging way, this book is
for you. You'll also find
this book useful if you're a
high school student,
researcher, analyst, or
anyone with little or no
coding experience with an
interest in the subject and
courage to learn, fail, and
learn from failing. A basic
understanding of how
computers work will be

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useful.

If you are an undergraduate or graduate student, a beginner to algorithmic development and research, or a software developer in the financial industry who is interested in using Python for quantitative methods in finance, this is the book for you. It would be helpful to have a bit of familiarity with basic Python usage, but no prior experience is required.

Python's simplicity lets you become productive quickly, but this often means you aren't using everything it has to offer. With this hands-on guide, you'll learn how to write effective,

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idiomatic Python code by leveraging its best—and possibly most neglected—features. Author Luciano Ramalho takes you through Python’s core language features and libraries, and shows you how to make your code shorter, faster, and more readable at the same time. Many experienced programmers try to bend Python to fit patterns they learned from other languages, and never discover Python features outside of their experience. With this book, those Python programmers will thoroughly learn how to become proficient in Python 3. This book covers: Python data

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model: understand how special methods are the key to the consistent behavior of objects Data structures: take full advantage of built-in types, and understand the text vs bytes duality in the Unicode age Functions as objects: view Python functions as first-class objects, and understand how this affects popular design patterns Object-oriented idioms: build classes by learning about references, mutability, interfaces, operator overloading, and multiple inheritance Control flow: leverage context managers, generators, coroutines, and concurrency with the concurrent.futures

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and asyncio packages

Metaprogramming: understand
how properties, attribute
descriptors, class
decorators, and metaclasses
work

Python Cookbook

An Agile Primer

Fluent Python

Mastering C++ Programming
Language

Python GUI Programming
Cookbook

Mastering Large Datasets
with Python

Exploit various design patterns
to master the art of solving
problems using Python Key
Features Master the application
design using the core design
patterns and latest features of

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Python 3.7 Learn tricks to solve common design and architectural challenges Choose the right plan to improve your programs and increase their productivity

Book Description Python is an object-oriented scripting language that is used in a wide range of categories. In software engineering, a design pattern is an elected solution for solving software design problems. Although they have been around for a while, design patterns remain one of the top topics in software engineering, and are a ready source for software developers to solve the problems they face on a

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regular basis. This book takes you through a variety of design patterns and explains them with real-world examples. You will get to grips with low-level details and concepts that show you how to write Python code, without focusing on common solutions as enabled in Java and C++. You'll also find sections on corrections, best practices, system architecture, and its designing aspects. This book will help you learn the core concepts of design patterns and the way they can be used to resolve software design problems. You'll focus on most of the Gang of Four (GoF) design patterns, which

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are used to solve everyday problems, and take your skills to the next level with reactive and functional patterns that help you build resilient, scalable, and robust applications. By the end of the book, you'll be able to efficiently address commonly faced problems and develop applications, and also be comfortable working on scalable and maintainable projects of any size. What you will learn Explore Factory Method and Abstract Factory for object creation Clone objects using the Prototype pattern Make incompatible interfaces compatible using the

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Adapter pattern Secure an interface using the Proxy pattern Choose an algorithm dynamically using the Strategy pattern Keep the logic decoupled from the UI using the MVC pattern Leverage the Observer pattern to understand reactive programming Explore patterns for cloud-native, microservices, and serverless architectures Who this book is for This book is for intermediate Python developers. Prior knowledge of design patterns is not required to enjoy this book. Refine your Python programming skills and build professional grade applications

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with this comprehensive guide
Key Features Create
manageable code that can run
in various environments with
different sets of
dependencies Implement
effective Python data
structures and algorithms to
write optimized code Discover
the exciting new features of
Python 3.7 Book Description
Python is a dynamic
programming language that's
used in a wide range of
domains thanks to its simple
yet powerful nature. Although
writing Python code is easy,
making it readable, reusable,
and easy to maintain is
challenging. Complete with

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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

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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

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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 Python with code written in different languages
Integrate Python with code written in different languages
Who this book is for
This book will appeal to you if you're a programmer looking to take your Python knowledge

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to the next level by writing efficient code and learning the latest features of version 3.7 and above.

Become an expert at using Python for advanced statistical analysis of data using real-world examples About This Book Clean, format, and explore data using graphical and numerical summaries Leverage the IPython environment to efficiently analyze data with Python Packed with easy-to-follow examples to develop advanced computational skills for the analysis of complex data Who This Book Is For If you are a competent Python developer

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who wants to take your data analysis skills to the next level by solving complex problems, then this advanced guide is for you. Familiarity with the basics of applying Python libraries to data sets is assumed. What You Will Learn Read, sort, and map various data into Python and Pandas Recognise patterns so you can understand and explore data Use statistical models to discover patterns in data Review classical statistical inference using Python, Pandas, and SciPy Detect similarities and differences in data with clustering Clean your data to make it useful Work in Jupyter Notebook to produce

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publication ready figures to be included in reports In Detail Python, a multi-paradigm programming language, has become the language of choice for data scientists for data analysis, visualization, and machine learning. Ever imagined how to become an expert at effectively approaching data analysis problems, solving them, and extracting all of the available information from your data? Well, look no further, this is the book you want! Through this comprehensive guide, you will explore data and present results and conclusions from statistical analysis in a

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meaningful way. You'll be able to quickly and accurately perform the hands-on sorting, reduction, and subsequent analysis, and fully appreciate how data analysis methods can support business decision-making. You'll start off by learning about the tools available for data analysis in Python and will then explore the statistical models that are used to identify patterns in data. Gradually, you'll move on to review statistical inference using Python, Pandas, and SciPy. After that, we'll focus on performing regression using computational tools and you'll get to understand the problem

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of identifying clusters in data in an algorithmic way. Finally, we delve into advanced techniques to quantify cause and effect using Bayesian methods and you'll discover how to use Python's tools for supervised machine learning. Style and approach This book takes a step-by-step approach to reading, processing, and analyzing data in Python using various methods and tools. Rich in examples, each topic connects to real-world examples and retrieves data directly online where possible. With this book, you are given the knowledge and tools to explore any data on your own,

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encouraging a curiosity befitting all data scientists. Summary Modern data science solutions need to be clean, easy to read, and scalable. In Mastering Large Datasets with Python, author J.T. Wolohan teaches you how to take a small project and scale it up using a functionally influenced approach to Python coding. You'll explore methods and built-in Python tools that lend themselves to clarity and scalability, like the high-performing parallelism method, as well as distributed technologies that allow for high data throughput. The abundant hands-on exercises in this

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practical tutorial will lock in these essential skills for any large-scale data science project. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Programming techniques that work well on laptop-sized data can slow to a crawl—or fail altogether—when applied to massive files or distributed datasets. By mastering the powerful map and reduce paradigm, along with the Python-based tools that support it, you can write data-centric applications that scale efficiently without requiring

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codebase rewrites as your requirements change. About the book Mastering Large Datasets with Python teaches you to write code that can handle datasets of any size. You'll start with laptop-sized datasets that teach you to parallelize data analysis by breaking large tasks into smaller ones that can run simultaneously. You'll then scale those same programs to industrial-sized datasets on a cluster of cloud servers. With the map and reduce paradigm firmly in place, you'll explore tools like Hadoop and PySpark to efficiently process massive distributed datasets, speed up

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decision-making with machine learning, and simplify your data storage with AWS S3. What's inside An introduction to the map and reduce paradigm Parallelization with the multiprocessing module and pathos framework Hadoop and Spark for distributed computing Running AWS jobs to process large datasets About the reader For Python programmers who need to work faster with more data. About the author J. T. Wolohan is a lead data scientist at Booz Allen Hamilton, and a PhD researcher at Indiana University, Bloomington. Table of Contents: PART 1 1 |

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Building Machine Learning
Systems with Python

Leverage Python scripts and
libraries to overcome
networking and security issues

***Object-oriented analysis
and design (OOAD) has
over the years, become a
vast field, encompassing***

such diverse topics as design process and principles, documentation tools, refactoring, and design and architectural patterns. For most students the learning experience is incomplete without implementation. This new textbook provides a comprehensive introduction to OOAD. The salient points of its coverage are: • A sound footing on object-oriented concepts such as classes, objects, interfaces, inheritance, polymorphism, dynamic

linking, etc. • A good introduction to the stage of requirements analysis. • Use of UML to document user requirements and design. • An extensive treatment of the design process. • Coverage of implementation issues. • Appropriate use of design and architectural patterns. • Introduction to the art and craft of refactoring. • Pointers to resources that further the reader's knowledge. All the main case-studies used for this book have

been implemented by the authors using Java. The text is liberally peppered with snippets of code, which are short and fairly self-explanatory and easy to read. Familiarity with a Java-like syntax and a broad understanding of the structure of Java would be helpful in using the book to its full potential.

This book follows a standard tutorial approach with approximately 750 code samples spread through the 19 chapters. This

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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. Gain comprehensive insights into programming practices,

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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 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. What you will

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***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***

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***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 t...***

***Learn how to write
Python code that's more
robust, efficient,
maintainable, and
elegant--whether you're
new to the language or
you've been coding for***

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years. Python

***Programming with Design
Patterns combines a
clear, modern
introduction to modern
Python with visual,
example-driven
explanations of 23 proven
patterns for writing
outstanding object-
oriented code. Through
these patterns and
examples, best-selling
patterns author James W.
Cooper introduces
modern techniques for
creating Python objects
that interact effectively to
make powerful, flexible***

programs. Cooper's wide-ranging coverage includes abstract classes, multiple inheritance, GUI programming and widgets, graphical classes, drawing and plotting, math libraries, database programming, Python decorators, images, threads, iterators, creating executable code from Python programs, and much more. He covers the use of six leading Python development environments, and provides complete

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***downloadable code on
Github for every example
program. Throughout,
Cooper's informal, visual
presentation makes
patterns easier than ever
to understand and use--so
you can confidently build
large, complex programs
that benefit from
everything Python has to
offer.***

***Mastering Machine
Learning with Python in
Six Steps***

***A Very Simple
Introduction to the
Terrifyingly Beautiful
World of Computers and***

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Code

A Practical

Implementation Guide to Predictive Data Analytics Using Python

Mastering GUI

Programming with Python

Mastering Python for Finance

Develop impressive cross- platform GUI applications with PyQt

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

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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

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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. If you need help writing programs in Python 3, or want to update older Python 2 code, this book is just the ticket. Packed with practical recipes written and tested with Python 3.3, this unique cookbook is for experienced Python programmers who want to focus on modern tools and idioms. Inside, you'll find complete recipes for more than a dozen topics, covering the

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core Python language as well as tasks common to a wide variety of application domains. Each recipe contains code samples you can use in your projects right away, along with a discussion about how and why the solution works. Topics include: Data Structures and Algorithms Strings and Text Numbers, Dates, and Times Iterators and Generators Files and I/O Data Encoding and Processing Functions Classes and Objects Metaprogramming Modules and Packages Network and Web Programming Concurrency Utility Scripting and System Administration Testing, Debugging, and Exceptions C Extensions

This book is for Python programmers with an intermediate background and

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an interest in design patterns implemented in idiomatic Python. Programmers of other languages who are interested in Python can also benefit from this book, but it would be better if they first read some introductory materials that explain how things are done in Python.

Unlike some guides that give you just the basics that you need to get started, this book teaches you everything you need to know about using Python, including what you can use it for.

Python is a diverse language and is the foundation of much of what we use in the world today. The reader will be happy to know that this programming language is relatively easy to learn. The book is divided into five sections to make the journey easy for the student:

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? Part 1 - Data Structures and Algorithms ? Part 2 - Machine Learning ? Part 3 - Django ? Part 4 - ArcGIS Programming ? Part 5 - Software Development and Testing

If you want to master python, order your copy today.

Learn Python by Building Data Science Applications

Mastering Object-Oriented Python - Second Edition

Object-Oriented Analysis and Design
Master OOP by Building Games and GUIs

An Effective Project Based Approach
Including Web Development, Data Structures, GUI Programming and Object Oriented Programming
(Beginner to Advanced)

Learning Python

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Unleash the power of Python 3 objects About This Book Stop writing scripts and start architecting programs Learn the latest Python syntax and libraries A practical, hands-on tutorial that teaches you all about abstract design patterns and how to implement them in Python 3 Who This Book Is For If you're new to object-oriented programming techniques, or if you have basic Python skills and wish to learn in depth how and when to correctly apply object-oriented programming in Python to design software, this is the book for you. What You Will Learn Implement objects in Python by creating

classes and defining methods

Separate related objects into a taxonomy of classes and describe the properties and behaviors of those objects via the class

interface Extend class

functionality using inheritance

Understand when to use object-oriented features, and more

importantly when not to use them

Discover what design patterns are and why they are different in

Python Uncover the simplicity of unit testing and why it's so

important in Python Grasp

common concurrency techniques

and pitfalls in Python 3 Exploit

object-oriented programming in key Python technologies such as

Kivy and Django. Object-oriented programming concurrently with asyncio In Detail Python 3 is more versatile and easier to use than ever. It runs on all major platforms in a huge array of use cases. Coding in Python minimizes development time and increases productivity in comparison to other languages. Clean, maintainable code is easy to both read and write using Python's clear, concise syntax. Object-oriented programming is a popular design paradigm in which data and behaviors are encapsulated in such a way that they can be manipulated together. Many modern programming

languages utilize the powerful concepts behind object-oriented programming and Python is no exception. Starting with a detailed analysis of object-oriented analysis and design, you will use the Python programming language to clearly grasp key concepts from the object-oriented paradigm. This book 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. You'll get an in-depth analysis of many common object-oriented design patterns that are more

suitable to Python's unique style. This book will not just teach Python syntax, but will also build your confidence in how to program. You will also learn how to create maintainable applications by studying higher level design patterns. Following this, you'll learn the complexities of string and file manipulation, and how Python distinguishes between binary and textual data. Not one, but two very powerful automated testing systems will be introduced in the book. After you discover the joy of unit testing and just how easy it can be, you'll study higher level libraries such as database connectors and GUI

toolkits and learn how they uniquely apply object-oriented principles. You'll learn how these principles will allow you to make greater use of key members of the Python eco-system such as Django and Kivy. This new edition includes all the topics that made Python 3 Object-oriented Programming an instant Packt classic. It's also packed with updated content to reflect recent changes in the core Python library and covers modern third-party packages that were not available on the Python 3 platform when the book was first published. Style and approach Throughout the book you will learn key object-

oriented programming techniques demonstrated by comprehensive case studies in the context of a larger project.

Deep learning is often viewed as the exclusive domain of math PhDs and big tech companies. But as this hands-on guide demonstrates, programmers comfortable with Python can achieve impressive results in deep learning with little math background, small amounts of data, and minimal code. How? With fastai, the first library to provide a consistent interface to the most frequently used deep learning applications. Authors Jeremy Howard and Sylvain

Gugger, the creators of fastai, show you how to train a model on a wide range of tasks using fastai and PyTorch. You'll also dive progressively further into deep learning theory to gain a complete understanding of the algorithms behind the scenes. Train models in computer vision, natural language processing, tabular data, and collaborative filtering Learn the latest deep learning techniques that matter most in practice Improve accuracy, speed, and reliability by understanding how deep learning models work Discover how to turn your models into web applications Implement deep learning algorithms from

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**scratch Consider the ethical
implications of your work Gain
insight from the foreword by
PyTorch cofounder, Soumith
Chintala**

**Build sophisticated web
applications by mastering the art
of Object-Oriented Javascript
About This Book Learn popular
Object-Oriented programming
(OOP) principles and design
patterns to build robust apps
Implement Object-Oriented
concepts in a wide range of
frontend architectures Capture
objects from real-world elements
and create object-oriented code
that represents them Learn the
latest ES6 features and how to test**

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and debug issues with JavaScript code using various modern mechanisms Who This Book Is For JavaScript developers looking to enhance their web developments skills by learning object-oriented programming. What You Will Learn Get acquainted with the basics of JavaScript language constructs along with object-oriented programming and its application. Learn to build scalable server application in JavaScript using Node.js Generate instances in three programming languages: Python, JavaScript, and C# Work with a combination of access modifiers, prefixes, properties,

fields, attributes, and local variables to encapsulate and hide data Master DOM manipulation, cross-browser strategies, and ES6 Identify and apply the most common design patterns such as Singleton, Factory, Observer, Model-View-Controller, and Mediator Patterns Design applications using a modular architecture based on SOLID principles In Detail JavaScript is the behavior, the third pillar in today's paradigm that looks at web pages as something that consists of : content (HTML), presentation (CSS), and behavior (JavaScript). Using JavaScript, you can create interactive web

pages along with desktop widgets, browser, and application extensions, and other pieces of software. Object-oriented programming, which is popularly known as OOP, is basically based on the concept of objects rather than actions. The first module will help you master JavaScript and build futuristic web applications. You will start by getting acquainted with the language constructs and how to organize code easily. You develop concrete understanding of variable scoping, loops, and best practices on using types and data structures, as well as the coding style and recommended code

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organization patterns in

JavaScript. The book will also teach you how to use arrays and objects as data structures. By the end of the book, you will understand how reactive JavaScript is going to be the new paradigm. The second module is an easy-to-follow course, which includes hands-on examples of solutions to common problems with object-oriented code. It will help to identify objects from real-life scenarios, to protect and hide data with the data encapsulation features of Python, JavaScript, and C#. You will discover the advantage of duck typing in both Python and JavaScript, while you

work with interfaces and generics in C#. With a fair understanding of interfaces, multiple inheritance, and composition, you will move on to refactor existing code and to organize your source for easy maintenance and extension. The third module takes you through all the in-depth and exciting futures hidden behind the facade. You should read through this course if you want to be able to take your JavaScript skills to a new level of sophistication. Style and approach This course is a comprehensive guide where each chapter consists of best practices, constructive advice, and few easy-to-follow examples that will build

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up your skills as you advance through the book. Get object oriented with this course, which takes you on a journey to get acquainted with few useful hands-on tools, features, and ways to enhance your productivity using OOP techniques. It will also act as a reference guide with useful examples on resolving problems with object-oriented code in Python, JavaScript, and C#. 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

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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

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**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 Data-Driven Finance
Python Programming with Design
Patterns**

**Parallelize and Distribute Your
Python Code**

**Build Powerful Applications with
Reusable Code Using OOP Design**

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Patterns and Python 3.7, Second Edition

Learn Python 3 the Hard Way

**A guide to creating smart,
efficient, and reusable software,
2nd Edition**

You Will Learn Python 3! Zed Shaw has perfected the world's best system for learning Python 3. Follow it and you will succeed—just like the millions of beginners Zed has taught to date! You bring the discipline, commitment, and persistence; the author supplies everything else. In *Learn Python 3 the Hard Way*, you'll learn Python by working through 52 brilliantly crafted exercises. Read them. Type

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their code precisely. (No copying and pasting!) Fix your mistakes. Watch the programs run. As you do, you'll learn how a computer works; what good programs look like; and how to read, write, and think about code. Zed then teaches you even more in 5+ hours of video where he shows you how to break, fix, and debug your code—live, as he's doing the exercises. Install a complete Python environment Organize and write code Fix and break code Basic mathematics Variables Strings and text Interact with users Work with files Looping and logic Data structures using lists and

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dictionaries Program design
Object-oriented programming
Inheritance and composition
Modules, classes, and objects
Python packaging Automated
testing Basic game
development Basic web
development It'll be hard at
first. But soon, you'll just get
it—and that will feel great!
This course will reward you for
every minute you put into it.
Soon, you'll know one of the
world's most powerful, popular
programming languages.
You'll be a Python
programmer. This Book Is
Perfect For Total beginners
with zero programming
experience Junior developers

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who know one or two languages
Returning professionals who haven't written code in years
Seasoned professionals looking for a fast, simple, crash course in Python 3
The Complete Guide to Writing More Maintainable, Manageable, Pleasing, and Powerful Ruby Applications
Ruby's widely admired ease of use has a downside: Too many Ruby and Rails applications have been created without concern for their long-term maintenance or evolution. The Web is awash in Ruby code that is now virtually impossible to change or extend. This text

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helps you solve that problem by using powerful real-world object-oriented design techniques, which it thoroughly explains using simple and practical Ruby examples. Sandi Metz has distilled a lifetime of conversations and presentations about object-oriented design into a set of Ruby-focused practices for crafting manageable, extensible, and pleasing code. She shows you how to build new applications that can survive success and repair existing applications that have become impossible to change. Each technique is illustrated

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with extended examples, all downloadable from the companion Web site, poodr.info. The first title to focus squarely on object-oriented Ruby application design, *Practical Object-Oriented Design in Ruby* will guide you to superior outcomes, whatever your previous Ruby experience. Novice Ruby programmers will find specific rules to live by; intermediate Ruby programmers will find valuable principles they can flexibly interpret and apply; and advanced Ruby programmers will find a common language they can

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use to lead development and guide their colleagues. This guide will help you

- Understand how object-oriented programming can help you craft Ruby code that is easier to maintain and upgrade
- Decide what belongs in a single Ruby class
- Avoid entangling objects that should be kept separate
- Define flexible interfaces among objects
- Reduce programming overhead costs with duck typing
- Successfully apply inheritance
- Build objects via composition
- Design cost-effective tests
- Solve common problems associated with poorly designed Ruby code

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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 fifth 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 both Python 2.7 and 3.3— the latest releases in the 3.X and 2.X

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lines—plus all other releases in common use today. You'll also learn some advanced language features that recently have become more common in Python code. Explore Python's major built-in object types such as numbers, lists, and dictionaries Create and process objects with Python statements, and learn Python's general syntax model Use functions to avoid code redundancy and package code for reuse Organize statements, functions, and other tools into larger components with modules Dive into classes: Python's object-oriented programming tool for

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structuring code Write large programs with Python's exception-handling model and development tools Learn advanced Python tools, including decorators, descriptors, metaclasses, and Unicode processing Explore fundamental to advanced Python 3 topics in six steps, all designed to make you a worthy practitioner. This updated version's approach is based on the "six degrees of separation" theory, which states that everyone and everything is a maximum of six steps away and presents each topic in two parts: theoretical concepts and practical

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implementation using suitable Python 3 packages. You'll start with the fundamentals of Python 3 programming language, machine learning history, evolution, and the system development frameworks. Key data mining/analysis concepts, such as exploratory analysis, feature dimension reduction, regressions, time series forecasting and their efficient implementation in Scikit-learn are covered as well. You'll also learn commonly used model diagnostic and tuning techniques. These include optimal probability cutoff point for class creation, variance,

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bias, bagging, boosting, ensemble voting, grid search, random search, Bayesian optimization, and the noise reduction technique for IoT data. Finally, you'll review advanced text mining techniques, recommender systems, neural networks, deep learning, reinforcement learning techniques and their implementation. All the code presented in the book will be available in the form of iPython notebooks to enable you to try out these examples and extend them to your advantage. What You'll Learn Understand machine learning development and

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frameworks Assess model
diagnosis and tuning in
machine learning Examine text
mining, natural language
processing (NLP), and
recommender systems Review
reinforcement learning and
CNN Who This Book Is For
Python developers, data
engineers, and machine
learning engineers looking to
expand their knowledge or
career into machine learning
area.

Python for Finance
Machine Learning, Data
Structures, Django, Object
Oriented Programming and
Software Engineering
(Including Programming

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Interview Questions) [2nd
Edition]

Mastering Python for
Networking and Security
Mastering Python Design
Patterns

Expert Python Programming
Become a master in Python by
learning coding best practices
and advanced programming
concepts in Python 3.7, 3rd
Edition

Gain a thorough understanding of
operating in a Python development
environment, and some of the most
important advanced topics with Daniel
Arbuckle. This dynamic, concise book is
full of real-world solutions for Python 3.6
problems, and advanced-level concepts
such as reactive programming,
microservices, ctypes and Cython. About

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This Book Covers the latest and advanced concepts of Python such as parallel processing with Python 3.6 Explore the Python language from its basic installation and setup to concepts such as reactive programming and microservices Get introduced to the mechanism for rewriting code in a compiled language along with ctypes and Cython tools Who This Book Is For If you are a programmer and are familiar with the basics of Python, and you want to broaden your knowledge base to develop projects better and faster, this book is for you. Even if you are not familiar with Python, Daniel Arbutle's Mastering Python starts with the basics and takes you on a journey to become an expert in the technology. What You Will Learn Get to grips with the basics of operating in a Python development environment Build Python packages to efficiently create reusable code Become

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proficient at creating tools and utility programs in Python Use the Git version control system to protect your development environment from unwanted changes Harness the power of Python to automate other software Distribute computational tasks across multiple processors Handle high I/O loads with asynchronous I/O to get a smoother performance Take advantage of Python's metaprogramming and programmable syntax features Get acquainted with the concepts behind reactive programming and RxPy In Detail Daniel Arbuckle's Mastering Python covers the basics of operating in a Python development environment, before moving on to more advanced topics. Daniel presents you with real-world solutions to Python 3.6 and advanced-level concepts, such as reactive programming, microservices, ctypes, and Cython tools. You don't need to be

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familiar with the Python language to use this book, as Daniel starts with a Python primer. Throughout, Daniel highlights the major aspects of managing your Python development environment, shows you how to handle parallel computation, and helps you to master asynchronous I/O with Python 3.6 to improve performance. Finally, Daniel will teach you the secrets of metaprogramming and unit testing in Python, helping you acquire the perfect skillset to be a Python expert. Daniel will get you up to speed on everything from basic programming practices to high-end tools and techniques, things that will help set you apart as a successful Python programmer. Style and Approach Daniel Arbuckle's Mastering Python covers basic to advanced-level concepts in computer science. If you are a beginner, then Daniel will help you get started. If you are experienced, he will expand your

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knowledge base.

Over 80 object-oriented recipes to help you create mind-blowing GUIs in Python
About This Book Use object-oriented programming to develop amazing GUIs in Python Create a working GUI project as a central resource for developing your Python GUIs Packed with easy-to-follow recipes to help you develop code using the latest released version of Python Who This Book Is For If you are a Python programmer with intermediate level knowledge of GUI programming and want to learn how to create beautiful, effective, and responsive GUIs using the freely available Python GUI frameworks, this book is for you. What You Will Learn Create amazing GUIs with Python's built-in Tkinter module Customize the GUIs by using layout managers to arrange the GUI widgets Advance to an object-oriented programming style using Python Develop

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beautiful charts using the free Matplotlib Python module Use threading in a networked environment to make the GUIs responsive Discover ways to connect the GUIs to a database Understand how unit tests can be created and internationalize the GUI Extend the GUIs with free Python frameworks using best practices In Detail Python is a multi-domain, interpreted programming language. It is a widely used general-purpose, high-level programming language. It is often used as a scripting language because of its forgiving syntax and compatibility with a wide variety of different eco-systems. Its flexible syntax enables developers to write short scripts while at the same time, they can use object-oriented concepts to develop very large projects. Python GUI Programming Cookbook follows a task-based approach to help you create beautiful and very effective GUIs with the least amount of

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code necessary. This book uses the simplest programming style, using the fewest lines of code to create a GUI in Python, and then advances to using object-oriented programming in later chapters. If you are new to object-oriented programming (OOP), this book will teach you how to take advantage of the OOP coding style in the context of creating GUIs written in Python. Throughout the book, you will develop an entire GUI application, building recipe upon recipe, connecting the GUI to a database. In the later chapters, you will explore additional Python GUI frameworks, using best practices. You will also learn how to use threading to ensure your GUI doesn't go unresponsive. By the end of the book, you will be an expert in Python GUI programming to develop a common set of GUI applications. Style and approach
Every recipe in this programming

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cookbook solves a problem you might encounter in your programming career. At the same time, most of the recipes build on each other to create an entire, real-life GUI application.

Nowadays, configuring a network and automating security protocols are quite difficult to implement. However, using Python makes it easy to automate this whole process. This book explains the process of using Python for building networks, detecting network errors, and performing different security protocols using Python Scripting.

Being familiar with object-oriented design is an essential part of programming in Python. This new edition includes all the topics that made Python Object-Oriented Programming an instant Packt classic. Moreover, it's packed with updated content to reflect more recent changes in the core Python libraries and cover

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modern third-party packages.

A fun, project-based guide to learning
Python 3 while building real-world apps
Javascript: Object Oriented Programming
Clear, Concise, and Effective
Programming

Mastering Python

Practical Object-oriented Design in Ruby
Mastering Object-Oriented Programming
with Python

Become an expert in
implementing advanced,
network-related tasks with
Python. About This Book

Build the skills to
perform all networking
tasks using Python with
ease Use Python for
network device automation,
DevOps, and software-
defined networking Get

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practical guidance to
networking with Python Who
This Book Is For If you
are a network engineer or
a programmer who wants to
use Python for networking,
then this book is for you.
A basic familiarity with
networking-related
concepts such as TCP/IP
and a familiarity with
Python programming will be
useful. What You Will
Learn Review all the
fundamentals of Python and
the TCP/IP suite Use
Python to execute commands
when the device does not
support the API or
programmatic interaction

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with the device Implement automation techniques by integrating Python with Cisco, Juniper, and Arista eAPI Integrate Ansible using Python to control Cisco, Juniper, and Arista networks Achieve network security with Python Build Flask-based web-service APIs with Python Construct a Python-based migration plan from a legacy to scalable SDN-based network. In Detail This book begins with a review of the TCP/ IP protocol suite and a refresher of the core elements of the Python language. Next, you

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will start using Python and supported libraries to automate network tasks from the current major network vendors. We will look at automating traditional network devices based on the command-line interface, as well as newer devices with API support, with hands-on labs. We will then learn the concepts and practical use cases of the Ansible framework in order to achieve your network goals. We will then move on to using Python for DevOps, starting with using open source tools to

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test, secure, and analyze your network. Then, we will focus on network monitoring and visualization. We will learn how to retrieve network information using a polling mechanism, flow-based monitoring, and visualizing the data programmatically. Next, we will learn how to use the Python framework to build your own customized network web services. In the last module, you will use Python for SDN, where you will use a Python-based controller with OpenFlow in a hands-on lab

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to learn its concepts and applications. We will compare and contrast OpenFlow, OpenStack, OpenDaylight, and NFV. Finally, you will use everything you've learned in the book to construct a migration plan to go from a legacy to a scalable SDN-based network. Style and approach An easy-to-follow guide packed with hands-on examples of using Python for network device automation, DevOps, and SDN.

While other books only touch on the subject, this book is designed to

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provide in-depth guidance so that the reader can become a java master.

There are lots of examples as this book guides the reader from a beginner to advanced level. The reader will learn: Chapter 1:

Java Basics Chapter 2:

Java Data Structures and

Algorithms Chapter 3: Java

Web Development Chapter 4:

Java GUI Programming

Chapter 5: Object-Oriented

Programming Chapter 6:

Java Interview Questions

Build robust and

maintainable applications

with object-oriented

programming in Python

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About This Video Write your own logging classes and documentation and unit-test your code Use Python's special methods to integrate seamlessly with built-in features and the Standard library Design classes to support object persistence in JSON, YAML, Pickle, CSV, XML, Shelve, and SQL In Detail Object-oriented programming--combined with Python's flexibility and power and accompanied by improvements in design, coding, and software maintenance--makes difficult tasks much more

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manageable. This course offers deep insights into object-oriented programming (OOP) to help you develop expert-level, object-oriented Python skills. Starting with a detailed analysis of object-oriented analysis and design, you will quickly master classes, data encapsulation, inheritance, polymorphism, abstraction, and exceptions. We show you how to use JSON, YAML, Pickle, CSV, XML, Shelve, and SQL to create persistent objects and transmit objects between

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processes. We iterate over collections, using properties and class methods; explore closures and mix-ins; and command-line arguments. By the end of this course, you will find that programming in OOP clears the mind and makes your code reusable, readable, and extendable as well as easy to maintain. Beginning by looking at a range of design patterns for the `__init__()` method, you will learn how to effectively use a range of Python's special methods to create classes that integrate

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with Python's built-in features, and find detailed explorations and demonstrations of callables and contexts, containers and collections, numbers and decorators, and mixins, with a focus on best practices for effective and successful design. The video also features information that demonstrates how to create persistent objects using JSON, YAML, Pickle, CSV, XML, Shelve, and SQL and shows you how to transmit objects between processes. Going further into OOP,

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you'll find expert information on logging, warnings, unit testing, and working with the command line. Structured in 3 parts to make OOP's complexity more manageable (Pythonic Classes via Special Methods; Persistence, Serialization, and Testing; and, Debugging, Deploying, and Maintaining), this course provides deep insights into OOP that will help you develop expert-level, object-oriented Python skills. Downloading the example code for this

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course: You can download the example code files for this course on GitHub at t...

An advanced guide to creating powerful high-performance GUIs for modern, media-rich applications in various domains such as business and game development

Key Features

- Gain comprehensive knowledge of Python GUI development using PyQt 5.12
- Explore advanced topics including multithreaded programming, 3D animation, and SQL databases
- Build cross-platform GUIs for Windows,

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macOS, Linux, and

Raspberry PiBook

Description PyQt5 has long
been the most powerful and
comprehensive GUI

framework available for

Python, yet there is a

lack of cohesive resources

available to teach Python

programmers how to use it.

This book aims to remedy

the problem by providing

comprehensive coverage of

GUI development with

PyQt5. You will get

started with an

introduction to PyQt5,

before going on to develop

stunning GUIs with modern

features. You will then

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learn how to build forms using QWidgets and learn about important aspects of GUI development such as layouts, size policies, and event-driven programming. Moving ahead, you'll discover PyQt5's most powerful features through chapters on audio-visual programming with QtMultimedia, database-driven software with QtSQL, and web browsing with QtWebEngine. Next, in-depth coverage of multithreading and asynchronous programming will help you run tasks asynchronously and build

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high-concurrency processes with ease. In later chapters, you'll gain insights into QOpenGLWidget, along with mastering techniques for creating 2D graphics with QPainter. You'll also explore PyQt on a Raspberry Pi and interface it with remote systems using QtNetwork. Finally, you will learn how to distribute your applications using setuptools and PyInstaller. By the end of this book, you will have the skills you need to develop robust GUI

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applications using PyQt.

What you will learnGet to

grips with the inner

workings of PyQt5Learn how

elements in a GUI

application communicate

with signals and

slotsLearn techniques for

styling an

applicationExplore

database-driven

applications with the

QtSQL moduleCreate 2D

graphics with

QPainterDelve into 3D

graphics with

QOpenGLWidgetBuild network

and web-aware applications

with QtNetwork and

QtWebEngineWho this book

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is for This book is for programmers who want to create attractive, functional, and powerful GUIs using the Python language. You'll also find this book useful if you are a student, professional, or anyone who wants to start exploring GUIs or take your skills to the next level. Although prior knowledge of the Python language is assumed, experience with PyQt, Qt, or GUI programming is not required.

Functional Python
Programming

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Mastering Python Data
Analysis

Mastering Object-oriented
Python

A Beginner's Guide

Mastering Java

The Rust Programming
Language (Covers Rust
2018)

The financial industry has recently adopted Python at a tremendous rate, with some of the largest investment banks and hedge funds using it to build core trading and risk management systems. Updated for Python 3, the second edition of this hands-on book helps you get started with the language, guiding developers and quantitative

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**analysts through Python
libraries and tools for building
financial applications and
interactive financial analytics.
Using practical examples
throughout the book, author
Yves Hilpisch also shows you
how to develop a full-fledged
framework for Monte Carlo
simulation-based derivatives
and risk analytics, based on a
large, realistic case study.
Much of the book uses
interactive IPython
Notebooks.**

**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**

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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

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***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***

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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

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problems and issues. The recipes provide discussions and insights and an explanation of the problems. 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 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

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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.

C++ was created as a superset of C, retaining C's efficiency and notational ease but adding type checking, data abstraction, operator overloading, and object-oriented programming capabilities. C++ is still a

popular programming language because of its versatility. Unlike most other programming languages, C++ has been able to adapt as its demands have changed, allowing it to remain relevant, contemporary, and essential. C++, unlike other languages, is flexible and has evolved quickly to meet the demands of programmers and software. It is now one of the most excellent options for rapid applications, with alternatives such as Rust or Perl severely missing ecosystem support for many use cases. More important, C++ is a programming language with varied uses. Knowing how to write code in C++ can help

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you understand how software and hardware interact. This is valuable information to have regardless of which path you take in technology. If you want to work in technology, C++ is an excellent language to learn. In this book, you will discover a brief introduction to C++, memory management, C++ functions, preprocessing and compilation, coroutines, and lazy generators. Mastering C++ Programming Language: A Beginner's Guide sets the standard for C++ learning while solving the problems given in a typical C++ scenario. This book explores the design, portability, and efficiency of C++ applications

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in the real world. Mastering C++ Programming Language offers an outstanding supply of tested, usable, and documented C++ code by providing complete, functional solutions to each problem and paying close attention to efficiency and portability. As a beginner's guide, Mastering C++ Programming Language contains several examples and substantial code to aid all programmers who wish to expand their C++ language skills. As a result, Mastering C++ Programming Language offers at-length reading for students and professionals interested in the most recent advances in C++. It includes

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models that are particularly useful for individuals studying the language on their own. Plus, it also discusses the recent updates to the C++ language by comparing different versions and the various standards that are currently in use. Mastering C++ Programming Language is an ideal beginner's companion for learning the fantastic programming language that is C++. If you are looking to quickly and efficiently learn C++ coding, this is the ultimate book for you! Learn more about our other Mastering titles at: <http://www.routledge.com/Mastering-Computer-Science/book-series/MCS>

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***Build robust and maintainable
object-oriented Python
applications and libraries, 4th
Edition***

***Mastering Python Networking
Recipes for Mastering Python
3***

***Powerful Object-Oriented
Programming***

***Discover the power of
functional programming,
generator functions, lazy
evaluation, the built-in
itertools library, and monads,
2nd Edition***

***Object-oriented Programming
in Python***

Master the art of writing beautiful
and powerful Python by using all
of the features that Python 3.5
offers About This Book Become

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familiar with the most important and advanced parts of the Python code style Learn the trickier aspects of Python and put it in a structured context for deeper understanding of the language Offers an expert's-eye overview of how these advanced tasks fit together in Python as a whole along with practical examples Who This Book Is For Almost anyone can learn to write working script and create high quality code but they might lack a structured understanding of what it means to be 'Pythonic'. If you are a Python programmer who wants to code efficiently by getting the syntax and usage of a

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few intricate Python techniques exactly right, this book is for you. What You Will Learn Create a virtualenv and start a new project Understand how and when to use the functional programming paradigm Get familiar with the different ways the decorators can be written in Understand the power of generators and coroutines without digressing into lambda calculus Create metaclasses and how it makes working with Python far easier Generate HTML documentation out of documents and code using Sphinx Learn how to track and optimize application performance, both memory and

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cpu Use the multiprocessing library, not just locally but also across multiple machines Get a basic understanding of packaging and creating your own libraries/applications In Detail Python is a dynamic programming language. It is known for its high readability and hence it is often the first language learned by new programmers. Python being multi-paradigm, it can be used to achieve the same thing in different ways and it is compatible across different platforms. Even if you find writing Python code easy, writing code that is efficient, easy to maintain,

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and reuse is not so straightforward. This book is an authoritative guide that will help you learn new advanced methods in a clear and contextualised way. It starts off by creating a project-specific environment using venv, introducing you to different Pythonic syntax and common pitfalls before moving on to cover the functional features in Python. It covers how to create different decorators, generators, and metaclasses. It also introduces you to functools.wraps and coroutines and how they work. Later on you will learn to use asyncio module for

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asynchronous clients and servers. You will also get familiar with different testing systems such as py.test, doctest, and unittest, and debugging tools such as Python debugger and faulthandler. You will learn to optimize application performance so that it works efficiently across multiple machines and Python versions. Finally, it will teach you how to access C functions with a simple Python call. By the end of the book, you will be able to write more advanced scripts and take on bigger challenges. Style and Approach This book is a comprehensive guide that covers advanced features of the Python

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language, and communicate them with an authoritative understanding of the underlying rationale for how, when, and why to use them.

This is a tutorial-driven and practical, but well-grounded book showcasing good Machine Learning practices. There will be an emphasis on using existing technologies instead of showing how to write your own implementations of algorithms. This book is a scenario-based, example-driven tutorial. By the end of the book you will have learnt critical aspects of Machine Learning Python projects and experienced the power of ML-

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based systems by actually working on them. This book primarily targets Python developers who want to learn about and build Machine Learning into their projects, or who want to pro.

Power up your Python with object-oriented programming and learn how to write powerful, efficient, and re-usable code. Object-Oriented Python is an intuitive and thorough guide to mastering object-oriented programming from the ground up. You'll cover the basics of building classes and creating objects, and put theory into practice using the pygame

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package with clear examples that help visualize the object-oriented style. You'll explore the key concepts of object-oriented programming — encapsulation, polymorphism, and inheritance — and learn not just how to code with objects, but the absolute best practices for doing so.

Finally, you'll bring it all together by building a complex video game, complete with full animations and sounds. The book covers two fully functional Python code packages that will speed up development of graphical user interface (GUI) programs in Python.

The official book on the Rust

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programming language, written by the Rust development team at the Mozilla Foundation, fully updated for Rust 2018. The Rust Programming Language is the official book on Rust: an open source systems programming language that helps you write faster, more reliable software. Rust offers control over low-level details (such as memory usage) in combination with high-level ergonomics, eliminating the hassle traditionally associated with low-level languages. The authors of The Rust Programming Language, members of the Rust Core Team, share their knowledge

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and experience to show you how to take full advantage of Rust's features--from installation to creating robust and scalable programs. You'll begin with basics like creating functions, choosing data types, and binding variables and then move on to more advanced concepts, such as:

- Ownership and borrowing, lifetimes, and traits
- Using Rust's memory safety guarantees to build fast, safe programs
- Testing, error handling, and effective refactoring
- Generics, smart pointers, multithreading, trait objects, and advanced pattern matching
- Using Cargo, Rust's

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built-in package manager, to build, test, and document your code and manage dependencies

- How best to use Rust's advanced compiler with compiler-led programming techniques

You'll find plenty of code examples throughout the book, as well as three chapters dedicated to building complete projects to test your learning: a number guessing game, a Rust implementation of a command line tool, and a multithreaded server. New to this edition: An extended section on Rust macros, an expanded chapter on modules, and appendixes on Rust development tools and

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editions.

Python 3 Object-oriented
Programming
Modern Python Cookbook