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# Python Cookbook Alex Martelli

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[Python Cookbook](#) Pearson Education

Gain the techniques and tools that enable a smooth and efficient software development process in this quick and practical guide on Python continuous integration (CI) and continuous delivery (CD). Based on example applications, this book introduces various kinds of testing and shows you how to set up automated systems that run these tests, and install applications in different environments in controlled ways. Python Continuous Integration and Delivery tackles the technical problems related to software development that are typically glossed over in pure programming texts. After reading this book, you'll see that in today's fast-moving world, no software project can afford to go through development, then an integration phase of unpredictable length and complexity, and finally be shipped to the customer -- just to find out

that the resulting application didn't quite fill their need. Instead, you'll discover that practicing continuous integration and continuous delivery reduces the risks by keeping changes small and automating otherwise painful processes. You will : Carry out various kinds of testing, including unit testing and continuous integration testing, of your Python code using Jenkins Build packages and manage repositories Incorporate Ansible and Go for automated packaging and other deployments Manage more complex and robust deployments.

## The Quick Python Book

"O'Reilly Media, Inc."

Learn how to develop your own applications to monitor or control instrumentation hardware. Whether you need to acquire data from a device or automate its functions, this practical book shows you how to use Python's rapid development capabilities to build interfaces that include everything from software to wiring. You get step-by-step instructions, clear examples, and hands-on tips for interfacing a PC to a variety of devices. Use the book's hardware survey to identify the interface

type for your particular device, and then follow detailed examples to develop an interface with Python and C. Organized by interface type, data processing activities, and user interface implementations, this book is for anyone who works with instrumentation, robotics, data acquisition, or process control. Understand how to define the scope of an application and determine the algorithms necessary, and why it's important Learn how to use industry-standard interfaces such as RS-232, RS-485, and GPIB Create low-level extension modules in C to interface Python with a variety of hardware and test instruments Explore the console, curses, TkInter, and wxPython for graphical and text-based user interfaces Use open source software tools and libraries to reduce costs and avoid implementing functionality from scratch

Python Essential Reference  
Packt Publishing Ltd

Over 60 recipes to help you learn digital forensics and

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leverage Python scripts to amplify your examinations About This Book Develop code that extracts vital information from everyday forensic acquisitions. Increase the quality and efficiency of your forensic analysis.

Leverage the latest resources and capabilities available to the forensic community. Who This Book Is For If you are a digital forensics examiner, cyber security specialist, or analyst at heart, understand the basics of Python, and want to take it to the next level, this is the book for you. Along the way, you will be introduced to a number of libraries suitable for parsing forensic artifacts. Readers will be able to use and build upon the scripts we develop to elevate their analysis.

What You Will Learn Understand how Python can enhance digital forensics and investigations Learn to access the contents of, and process, forensic evidence containers Explore malware through automated static analysis Extract and review message contents from a variety of email formats Add depth and context to discovered IP addresses and domains through various Application Program Interfaces (APIs) Delve into mobile forensics and recover deleted messages

from SQLite databases Index large logs into a platform to better query and visualize datasets In Detail Technology plays an increasingly large role in our daily lives and shows no sign of stopping. Now, more than ever, it is paramount that an investigator develops programming expertise to deal with increasingly large datasets. By leveraging the Python recipes explored throughout this book, we make the complex simple, quickly extracting relevant information from large datasets. You will explore, develop, and deploy Python code and libraries to provide meaningful results that can be immediately applied to your investigations.

Throughout the Python Digital Forensics Cookbook, recipes include topics such as working with forensic evidence containers, parsing mobile and desktop operating system artifacts, extracting embedded metadata from documents and executables, and identifying indicators of compromise. You will also learn to integrate scripts with Application Program Interfaces (APIs) such as VirusTotal and PassiveTotal, and tools such as Axiom, Cellebrite, and EnCase. By the end of the book, you will

have a sound understanding of Python and how you can use it to process artifacts in your investigations. Style and approach Our succinct recipes take a no-frills approach to solving common challenges faced in investigations. The code in this book covers a wide range of artifacts and data sources. These examples will help improve the accuracy and efficiency of your analysis—no matter the situation.

Python Standard Library "O'Reilly Media, Inc."

This text introduces the spirit and theory of hacking as well as the science behind it all; it also provides some core techniques and tricks of hacking so you can think like a hacker, write your own hacks or thwart potential system attacks.

*Rapid GUI Programming with Python and Qt* Apress Whether you're building GUI prototypes or full-fledged cross-platform GUI applications with native look-and-feel, PyQt 4 is your fastest, easiest, most powerful solution. Qt expert Mark Summerfield has written the definitive best-practice guide to PyQt 4 development. With *Rapid GUI Programming with Python and Qt* you'll learn how to build efficient GUI applications that run on all

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major operating systems, including Windows, Mac OS X, Linux, and many versions of Unix, using the same source code for all of them. Summerfield systematically introduces every core GUI development technique: from dialogs and windows to data handling; from events to printing; and more. Through the book's realistic examples you'll discover a completely new PyQt 4-based programming approach, as well as coverage of many new topics, from PyQt 4's rich text engine to advanced model/view and graphics/view programming. Every key concept is illuminated with realistic, downloadable examples—all tested on Windows, Mac OS X, and Linux with Python 2.5, Qt 4.2, and PyQt 4.2, and on Windows and Linux with Qt 4.3 and PyQt 4.3.

*Python Digital Forensics Cookbook* Addison-Wesley Professional

Useful in many roles, from design and prototyping to testing, deployment, and maintenance, Python is consistently ranked among today's most popular programming languages. The third edition of this practical book provides a quick reference to the language—including Python 3.5, 2.7, and highlights of 3.6—commonly used areas

of its vast standard library, and some of the most useful third-party modules and packages. Ideal for programmers with some Python experience, and those coming to Python from other programming languages, this book covers a wide range of application areas, including web and network programming, XML handling, database interactions, and high-speed numeric computing. Discover how Python provides a unique mix of elegance, simplicity, practicality, and sheer power. This edition covers: Python syntax, Object-Oriented Python, standard library modules, and third-party Python packages Python's support for file and text operations, persistence and databases, concurrent execution, and numeric computations Networking basics, event-driven programming, and client-side network protocol modules Python extension modules, and tools for packaging and distributing extensions, modules, and applications

*Python Machine Learning By Example* Packt Publishing Ltd

CD-ROM contains: programming examples from the book and a demo of the PythonWorks IDE. Python in a Nutshell John Wiley & Sons Portable, powerful, and a breeze to use, Python is the popular open source object-oriented programming language used for both standalone programs and scripting applications. It is now being used by an increasing number of major organizations, including NASA and Google. Updated for Python 2.4, *The Python Cookbook, 2nd Edition* offers a wealth of useful code for all Python programmers, not just advanced practitioners. Like its predecessor, the new edition provides solutions to problems that Python programmers face everyday. It now includes over 200 recipes that range from simple tasks, such as working with dictionaries and list comprehensions, to complex tasks, such as monitoring a network and building a templating system. This revised version also includes new chapters on topics such as time, money, and metaprogramming. Here's a list of additional topics covered: Manipulating text Searching and sorting Working with files and the filesystem Object-oriented programming Dealing with threads and processes System administration Interacting with databases Creating user interfaces Network and web programming Processing XML

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Distributed programming  
Debugging and testing Another  
advantage of The Python  
Cookbook, 2nd Edition is its  
trio of authors--three well-  
known Python programming  
experts, who are highly visible  
on email lists and in  
newsgroups, and speak often  
at Python conferences. With  
scores of practical examples  
and pertinent background  
information, The Python  
Cookbook, 2nd Edition is the  
one source you need if you're  
looking to build efficient,  
flexible, scalable, and well-  
integrated systems.

*IPython Interactive Computing  
and Visualization Cookbook*  
Packt Publishing Ltd  
Want to learn the Python  
language without slogging  
your way through how-to  
manuals? With *Head First  
Python*, you'll quickly grasp  
Python's fundamentals,  
working with the built-in data  
structures and functions. Then  
you'll move on to building  
your very own webapp,  
exploring database  
management, exception  
handling, and data wrangling.  
If you're intrigued by what you  
can do with context managers,  
decorators, comprehensions,  
and generators, it's all here.  
This second edition is a  
complete learning experience  
that will help you become a  
bonafide Python programmer  
in no time. Why does this book  
look so different? Based on  
the latest research in cognitive  
science and learning theory,  
*Head First Python* uses a  
visually rich format to engage  
your mind, rather than a text-

heavy approach that puts you  
to sleep. Why waste your time  
struggling with new concepts?  
This multi-sensory learning  
experience is designed for the  
way your brain really works.

**Python Interviews** Packt  
Publishing Ltd  
Introduces the  
programming language's  
syntax, control flow, and  
basic data structures and  
covers its interaction with  
applications and  
mangement of large  
collections of code.

**Hacking- The art Of  
Exploitation** "O'Reilly Media,  
Inc."  
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.

**Taming PYTHON By  
Programming** oshean  
collins  
This book is a mini-course  
for researchers in the  
atmospheric and oceanic  
sciences. "We assume  
readers will already know  
the basics of programming...

in some other language." -  
Back cover.

**Python in a Nutshell**  
"O'Reilly Media, Inc."  
Master efficient parallel  
programming to build  
powerful applications  
using Python About This  
Book Design and  
implement efficient  
parallel software Master  
new programming  
techniques to address and  
solve complex  
programming problems  
Explore the world of  
parallel programming with  
this book, which is a go-to  
resource for different  
kinds of parallel  
computing tasks in  
Python, using examples  
and topics covered in  
great depth Who This  
Book Is For Python  
Parallel Programming  
Cookbook is intended for  
software developers who  
are well versed with  
Python and want to use  
parallel programming  
techniques to write  
powerful and efficient  
code. This book will help  
you master the basics and  
the advanced of parallel  
computing. What You Will  
Learn Synchronize  
multiple threads and  
processes to manage  
parallel tasks Implement  
message passing

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communication between processes to build parallel applications Program your own GPU cards to address complex problems Manage computing entities to execute distributed computational tasks Write efficient programs by adopting the event-driven programming model Explore the cloud technology with Django and Google App Engine Apply parallel programming techniques that can lead to performance improvements In Detail Parallel programming techniques are required for a developer to get the best use of all the computational resources available today and to build efficient software systems. From multi-core to GPU systems up to the distributed architectures, the high computation of programs throughout requires the use of programming tools and software libraries. Because of this, it is becoming increasingly important to know what the parallel programming techniques are. Python is commonly used as even non-experts can easily

deal with its concepts. This book will teach you parallel programming techniques using examples in Python and will help you explore the many ways in which you can write code that allows more than one process to happen at once. Starting with introducing you to the world of parallel computing, it moves on to cover the fundamentals in Python. This is followed by exploring the thread-based parallelism model using the Python threading module by synchronizing threads and using locks, mutex, semaphores queues, GIL, and the thread pool. Next you will be taught about process-based parallelism where you will synchronize processes using message passing along with learning about the performance of MPI Python Modules. You will then go on to learn the asynchronous parallel programming model using the Python asyncio module along with handling exceptions. Moving on, you will discover distributed computing with Python, and learn how to install a broker, use Celery Python

Module, and create a worker. You will also understand the StarCluster framework, Pycsp, Scoop, and Disco modules in Python. Further on, you will learn GPU programming with Python using the PyCUDA module along with evaluating performance limitations. Next you will get acquainted with the cloud computing concepts in Python, using Google App Engine (GAE), and building your first application with GAE. Lastly, you will learn about grid computing concepts in Python and using PyGlobus toolkit, GFTP and GASS COPY to transfer files, and service monitoring in PyGlobus. Style and approach A step-by-step guide to parallel programming using Python, with recipes accompanied by one or more programming examples. It is a practically oriented book and has all the necessary underlying parallel computing concepts. **Cleaning Data for Effective Data Science** "O'Reilly Media, Inc." This is a great book for Python Beginner and Advanced Learner which

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covers Basics to Advanced Python Programming where each topic is explained with the help of Illustrations and Examples. More than 450 solved programs of this book are tested in Python 3.4.3 for windows. The range of Python Topics covered makes this book unique which can be used as a self study material or for instructor assisted teaching. This books covers Python Syllabus of all major national and international universities. Also it includes frequently asked questions for interviews and examination which are provided at the end of each chapter.

*Learning Python* Manning Publications Company

A comprehensive guide to get you up to speed with the latest developments of practical machine learning with Python and upgrade your understanding of machine learning (ML) algorithms and techniques Key Features Dive into machine learning algorithms to solve the complex challenges faced by data scientists today Explore cutting edge content reflecting deep learning and reinforcement learning developments Use updated Python libraries such as TensorFlow, PyTorch, and scikit-learn to track machine

learning projects end-to-end Book Description Python Machine Learning By Example, Third Edition serves as a comprehensive gateway into the world of machine learning (ML). With six new chapters, on topics including movie recommendation engine development with Naïve Bayes, recognizing faces with support vector machine, predicting stock prices with artificial neural networks, categorizing images of clothing with convolutional neural networks, predicting with sequences using recurring neural networks, and leveraging reinforcement learning for making decisions, the book has been considerably updated for the latest enterprise requirements. At the same time, this book provides actionable insights on the key fundamentals of ML with Python programming. Hayden applies his expertise to demonstrate implementations of algorithms in Python, both from scratch and with libraries. Each chapter walks through an industry-adopted application. With the help of realistic examples, you will gain an understanding of the mechanics of ML techniques in areas such as exploratory data analysis, feature engineering, classification, regression, clustering, and NLP. By the end of this ML Python book, you will have gained a broad picture of the ML ecosystem and will be well-versed in the best practices of applying ML techniques to solve problems. What you will learn Understand

the important concepts in ML and data science Use Python to explore the world of data mining and analytics Scale up model training using varied data complexities with Apache Spark Delve deep into text analysis and NLP using Python libraries such as NLTK and Gensim Select and build an ML model and evaluate and optimize its performance Implement ML algorithms from scratch in Python, TensorFlow 2, PyTorch, and scikit-learn Who this book is for If you're a machine learning enthusiast, data analyst, or data engineer highly passionate about machine learning and want to begin working on machine learning assignments, this book is for you. Prior knowledge of Python coding is assumed and basic familiarity with statistical concepts will be beneficial, although this is not necessary.

*Flask Framework Cookbook* Apress

\* Totaling 900 pages and covering all of the topics important to new and intermediate users, *Beginning Python* is intended to be the most comprehensive book on the Python ever written. \* The 15 sample projects in *Beginning Python* are attractive to novice programmers interested in learning by creating applications of timely interest, such as a P2P

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file-sharing application, Web-based bulletin-board, and an arcade game similar to the classic Space Invaders. \* The author Magnus Lie Hetland, PhD, is author of Apress' well-received 2002 title, Practical Python, ISBN: 1-59059-006-6. He's also author of the popular online guide, Instant Python Hacking (<http://www.hetland.org>), from which both Practical Python and Beginning Python are based.

**Beginning Python** "O'Reilly Media, Inc."

Google and YouTube use Python because it's highly adaptable, easy to maintain, and allows for rapid development. If you want to write high-quality, efficient code that's easily integrated with other languages and tools, this hands-on book will help you be productive with Python quickly -- whether you're new to programming or just new to Python. It's an easy-to-follow self-paced tutorial, based on author and Python expert Mark Lutz's popular training course. Each chapter contains a stand-alone lesson on a key component of the language, and includes a unique Test Your Knowledge section with practical exercises and

quizzes, so you can practice new skills and test your understanding as you go. You'll find lots of annotated examples and illustrations to help you get started with Python 3.0. Learn about Python's major built-in object types, such as numbers, lists, and dictionaries Create and process objects using Python statements, and learn Python's general syntax model Structure and reuse code using functions, Python's basic procedural tool Learn about Python modules: packages of statements, functions, and other tools, organized into larger components Discover Python's object-oriented programming tool for structuring code Learn about the exception-handling model, and development tools for writing larger programs Explore advanced Python tools including decorators, descriptors, metaclasses, and Unicode processing

Real World Instrumentation with Python Packt Publishing Ltd

This volume offers Python programmers a straightforward guide to the important tools and modules of this open source language. It deals with the most frequently used parts of the standard

library as well as the most popular and important third party extensions.

Python Algorithms Packt Publishing Ltd

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 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

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Programming Concurrency  
Utility Scripting and  
System Administration  
Testing, Debugging, and  
Exceptions C Extensions  
**Introducing Python**  
"O'Reilly Media, Inc."  
Learn to effectively  
manage data and execute  
data science projects from  
start to finish using Python  
Key Features Understand  
and utilize data science  
tools in Python, such as  
specialized machine  
learning algorithms and  
statistical modeling Build a  
strong data science  
foundation with the best  
data science tools  
available in Python Add  
value to yourself, your  
organization, and society  
by extracting actionable  
insights from raw  
data Book Description  
Practical Data Science  
with Python teaches you  
core data science  
concepts, with real-world  
and realistic examples,  
and strengthens your grip  
on the basic as well as  
advanced principles of  
data preparation and  
storage, statistics,  
probability theory,  
machine learning, and  
Python programming,  
helping you build a solid  
foundation to gain  
proficiency in data

science. The book starts  
with an overview of basic  
Python skills and then  
introduces foundational  
data science techniques,  
followed by a thorough  
explanation of the Python  
code needed to execute  
the techniques. You'll  
understand the code by  
working through the  
examples. The code has  
been broken down into  
small chunks (a few lines  
or a function at a time) to  
enable thorough  
discussion. As you  
progress, you will learn  
how to perform data  
analysis while exploring  
the functionalities of key  
data science Python  
packages, including  
pandas, SciPy, and scikit-  
learn. Finally, the book  
covers ethics and privacy  
concerns in data science  
and suggests resources  
for improving data science  
skills, as well as ways to  
stay up to date on new  
data science  
developments. By the end  
of the book, you should be  
able to comfortably use  
Python for basic data  
science projects and  
should have the skills to  
execute the data science  
process on any data  
source. What you will  
learn Use Python data

science packages  
effectively Clean and  
prepare data for data  
science work, including  
feature engineering and  
feature selection Data  
modeling, including classic  
statistical models (such as  
t-tests), and essential  
machine learning  
algorithms, such as  
random forests and  
boosted models Evaluate  
model  
performance Compare and  
understand different  
machine learning  
methods Interact with  
Excel spreadsheets  
through Python Create  
automated data science  
reports through Python Get  
to grips with text analytics  
techniques Who this book  
is for The book is intended  
for beginners, including  
students starting or about  
to start a data science,  
analytics, or related  
program (e.g. Bachelor's,  
Master's, bootcamp,  
online courses), recent  
college graduates who  
want to learn new skills to  
set them apart in the job  
market, professionals who  
want to learn hands-on  
data science techniques in  
Python, and those who  
want to shift their career to  
data science. The book  
requires basic familiarity



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with Python. A "getting started with Python" section has been included to get complete novices up to speed.