

# Python Essential Reference (Developer's Library)

Python has grown into one of the world's most popular programming languages, with a wealth of reference information available for it. For Python programmers, the richness of modern Python presents new challenges. It can be overwhelming to know where to begin--or even whether you're coding in a reasonable style. Problems like these are the foundation for Dave Beazley's new Python Distilled. Focusing solely on the latest versions of Python

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(3.5 and higher), this title returns to the roots of Beazley's classic Python Essential Reference. This new book is a concise but powerfully useful handbook on effective Python programming. Rather than trying to document everything, Beazley now focuses on what is truly essential. In so doing, he reflects all he's learned through years of teaching Python to scientists, engineers, and software professionals, as well as writing software libraries and pushing the envelope of what Python makes possible. Beazley covers abstraction techniques, program structure, data, functions, objects, modules, and other topics selected to serve

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programmers working on Python projects of any size. He never forgets that productivity isn't enough; programming ought to capture the magic that lives inside the computer. It should be fun, too.

An understanding of psychology—specifically the psychology behind how users behave and interact with digital interfaces—is perhaps the single most valuable nondesign skill a designer can have. The most elegant design can fail if it forces users to conform to the design rather than working within the "blueprint" of how humans perceive and process the world around them. This practical guide

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explains how you can apply key principles in psychology to build products and experiences that are more intuitive and human-centered. Author Jon Yablonski deconstructs familiar apps and experiences to provide clear examples of how UX designers can build experiences that adapt to how users perceive and process digital interfaces. You'll learn:

- How aesthetically pleasing design creates positive responses
- The principles from psychology most useful for designers
- How these psychology principles relate to UX heuristics
- Predictive models including Fitts's law, Jakob's law, and Hick's law
- Ethical implications of using psychology

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in design A framework for applying these principles

The Definitive Guide to Using, Programming, and Administering MySQL 5.0 and 5.1 MySQL is an open source relational database management system that has experienced a phenomenal growth in popularity and use. Known for its speed and ease of use, MySQL has proven itself to be particularly well-suited for developing database-backed websites and applications. In MySQL, Paul DuBois provides a comprehensive guide to using and administering MySQL effectively and productively. He describes everything from the basics of getting information into a

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database and formulating queries, to using MySQL with PHP or Perl to generate dynamic web pages, to writing your own programs that access MySQL databases, to administering MySQL servers.

The fourth edition of this bestselling book has been meticulously revised and updated to thoroughly cover the latest features and capabilities of MySQL 5.0, as well as to add new coverage of features introduced with MySQL 5.1. "One of the best technical books I have read on any subject." -Gregory Haley, C Vu, The Association of C & C++ Users "A top-notch user's guide and reference manual, and in my opinion, the only book you'll need

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for the daily operation and maintenance of MySQL databases.” -Eugene Kim, Web Techniques Introduction 1 Part I: General MySQL Use Chapter 1: Getting Started with MySQL 13 Chapter 2: Using SQL to Manage Data 101 Chapter 3: Data Types 201 Chapter 4: Stored Programs 289 Chapter 5: Query Optimization 303 Part II: Using MySQL Programming Interfaces Chapter 6: Introduction to MySQL Programming 341 Chapter 7: Writing MySQL Programs Using C 359 Chapter 8: Writing MySQL Programs Using Perl DBI 435 Chapter 9: Writing MySQL Programs Using PHP 527 Part III: MySQL Administration Chapter

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are accessible either by registering this book at [informit.com/register](http://informit.com/register) or by visiting [www.kitebird.com/mysql-book](http://www.kitebird.com/mysql-book). Appendix G: C API Reference 1121 Appendix H: Perl DBI API Reference 1177 Appendix I: PHP API Reference 1207 Index 1225

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, idiomatic Python code by leveraging its best—and possibly most neglected—features. Author Luciano Ramalho takes you through Python's core language

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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 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

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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 and asyncio packages

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

THE #1 BESTSELLING BOOK ON OBJECTIVE-C 2.0 Programming in Objective-C 2.0 provides the new

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programmer a complete, step-by-step introduction to Objective-C, the primary language used to develop applications for the iPhone, iPad, and Mac OS X platforms. The book does not assume previous experience with either C or object-oriented programming languages, and it includes many detailed, practical examples of how to put Objective-C to use in your everyday iPhone/iPad or Mac OS X programming tasks. A powerful yet simple object-oriented programming language that's based on the C programming language, Objective-C is widely available not only on OS X and the iPhone/iPad platform but across

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many operating systems that support the gcc compiler, including Linux, Unix, and Windows systems. The second edition of this book thoroughly covers the latest version of the language, Objective-C 2.0. And it shows not only how to take advantage of the Foundation framework's rich built-in library of classes but also how to use the iPhone SDK to develop programs designed for the iPhone/iPad platform.

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Part I: The Objective-C 2.0 Language

2 Programming in Objective-C

3 Classes, Objects, and Methods

4 Data Types and Expressions

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6 Making Decisions

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Programming in Objective-C 2.0

MySQL

A Problem-Solver's Guide to

Building Real-World Intelligent

Systems

Clear, Concise, and Effective

Programming

Using Psychology to Design Better

Products & Services

***Python Essentials***

***provides a vital tour of***

***the most critical***

***features of Python.***

***Starting with setup and***

***installation, you will***

***soon dive into exploring***

***built-in-library types,***

***Python's rich collection***

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*of operators and built-in functions, variables, assignment and scoping rules. From this foundation, you will explore functions, a crucial aspect of any programming language, including considerable sophistication in defining parameters to a function and providing argument values. Explore advanced functional programming using generator expressions, comprehensions, and generator functions. Handle file input and*



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*output using web services and context managers, exception handling and explore wider, popular frameworks. Through this concise and practical guide, you will explore all you need to know to leverage this powerful, and industry-standard, programming language. Portable, powerful, and a breeze to use, Python is the popular open source object-oriented programming language used for both standalone programs and scripting*

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*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*

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*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-*

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*oriented programming  
Dealing with threads and  
processes System  
administration  
Interacting with  
databases Creating user  
interfaces Network and  
web programming  
Processing XML  
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*

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*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. Python 3 is the best version of the language yet: It is more powerful, convenient, consistent, and expressive than ever before. Now, leading Python programmer Mark*

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*Summerfield demonstrates how to write code that takes full advantage of Python 3's features and idioms. The first book written from a completely "Python 3" viewpoint, Programming in Python 3 brings together all the knowledge you need to write any program, use any standard or third-party Python 3 library, and create new library modules of your own. Summerfield draws on his many years of Python experience to share deep*

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*insights into Python 3 development you won't find anywhere else. He begins by illuminating Python's "beautiful heart": the eight key elements of Python you need to write robust, high-performance programs. Building on these core elements, he introduces new topics designed to strengthen your practical expertise—one concept and hands-on example at a time. This book's coverage includes*

*Developing in Python*

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*using procedural, object-oriented, and functional programming paradigms*

*Creating custom packages and modules Writing and reading binary, text, and XML files, including optional compression, random access, and text and XML parsing*

*Leveraging advanced data types, collections, control structures, and functions Spreading program workloads across multiple processes and threads Programming SQL databases and key-value DBM files Utilizing*





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*Python's regular expression mini-language and module Building usable, efficient, GUI-based applications Advanced programming techniques, including generators, function and class decorators, context managers, descriptors, abstract base classes, metaclasses, and more Programming in Python 3 serves as both tutorial and language reference, and it is accompanied by extensive downloadable example code—all of it*

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*tested with the final version of Python 3 on Windows, Linux, and Mac OS X.*

*Buy It Now and let your Customers get addicted to this amazing book!  55% OFF for BOOKSTORES!*

* Python Programming Language- The Ultimate Tool To Progress Your Python Programming From Good To Great While Making Coding In Scratch Look Easy Curious To Know More About Programming And Improve Your Skills? Then This Python Data Science*

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*Handbook Will Enable You To Quickly Progress Ahead! When it comes to the IT world, there are various options for programming platforms to choose from and start building a career. Then how to choose which one to go after? Your first guess might be one that is relatively simple, easy to use, and perhaps compatible with other software. Then, there should be good resources that you can lean on so that you can actually start coding as soon as*

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*possible. Guess What? Python Combines All Of These Features, and With The Help Of This Great Handbook, In A Matter Of Weeks, You Will Be Writing Your Own Coding And Even Performing Errands! Going through This Book, you will: - Quickly Understand How Python Works and how much advantageous its functionalities are compared to other programming languages - Find A Step-By-Step Process On Python Installation and have it*

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*set-up in no time - Get To Use Python Shell and navigate through writing your very first program (it's used to execute commands - you simply make an input, the code does the rest) - Practice The Material You Just Learned With Provided Exercises to ensure you got everything properly (practice makes perfect) - Reveal A Complete List In Terms Of Data Type and use it as a solution as per the respective circumstance (numbers,*

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*strings, tuples, booleans... all is in there) Python Programming language, Python Algorithms, Python Machine Learning... - And There's Much More! Struggling to find the proper approach to completing a project might bring along frustration, but... This should not be the case here. Having the right tools at your fingertips and knowing that your back's covered... all the support you need is*

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*right here, delivered by Python, and the cautious Handbook you are about to get your hands on. Ah, and another thing... don't worry if you are new to Python - This Guide Will Fill In The Gaps And Make Your Project Successful! Buy It Now and let your Customers get addicted to this amazing book! [?]*

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*Make the Leap From Beginner to Intermediate in Python... Python Basics: A Practical*

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*Introduction to Python 3  
Your Complete Python  
Curriculum—With  
Exercises, Interactive  
Quizzes, and Sample  
Projects* What should you  
learn about Python in  
the beginning to get a  
strong foundation? With  
*Python Basics*, you'll  
not only cover the core  
concepts you really need  
to know, but you'll also  
learn them in the most  
efficient order with the  
help of practical  
exercises and  
interactive quizzes.  
You'll know enough to be



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*dangerous with Python, fast! Who Should Read This Book If you're new to Python, you'll get a practical, step-by-step roadmap on developing your foundational skills. You'll be introduced to each concept and language feature in a logical order. Every step in this curriculum is explained and illustrated with short, clear code samples. Our goal with this book is to educate, not to impress or intimidate.*

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*If you're familiar with some basic programming concepts, you'll get a clear and well-tested introduction to Python. This is a practical introduction to Python that jumps right into the meat and potatoes without sacrificing substance. If you have prior experience with languages like VBA, PowerShell, R, Perl, C, C++, C#, Java, or Swift the numerous exercises within each chapter will fast-track your progress. If you're a*

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*seasoned developer, you'll get a Python 3 crash course that brings you up to speed with modern Python programming. Mix and match the chapters that interest you the most and use the interactive quizzes and review exercises to check your learning progress as you go along. If you're a self-starter completely new to coding, you'll get practical and motivating examples. You'll begin by installing Python and*

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*setting up a coding environment on your computer from scratch, and then continue from there. We'll get you coding right away so that you become competent and knowledgeable enough to solve real-world problems, fast. Develop a passion for programming by solving interesting problems with Python every day! If you're looking to break into a coding or data-science career, you'll pick up the*

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*practical foundations with this book. We won't just dump a boat load of theoretical information on you so you can "sink or swim"-instead you'll learn from hands-on, practical examples one step at a time. Each concept is broken down for you so you'll always know what you can do with it in practical terms. If you're interested in teaching others "how to Python," this will be your guidebook. If you're looking to stoke the*

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*coding flame in your coworkers, kids, or relatives—use our material to teach them. All the sequencing has been done for you so you'll always know what to cover next and how to explain it. What Python Developers Say About The Book: "Go forth and learn this amazing language using this great book." – Michael Kennedy, Talk Python*

*"The wording is casual, easy to understand, and makes the information flow well." – Thomas*

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*Wong, Pythonista "I floundered for a long time trying to teach myself. I slogged through dozens of incomplete online tutorials. I snoozed through hours of boring screencasts. I gave up on countless crufty books from big-time publishers. And then I found Real Python. The easy-to-follow, step-by-step instructions break the big concepts down into bite-sized chunks written in plain English. The authors*

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*never forget their audience and are consistently thorough and detailed in their explanations. I'm up and running now, but I constantly refer to the material for guidance."*

*- Jared Nielsen,*

*Pythonista*

*The Hitchhiker's Guide to Python*

*Recipes for Mastering Python 3*

*Introduction to Android Application Development*

*A Complete Introduction to the Python Language*

*Python Phrasebook*



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### *Python Tutorial*

**Provides information on the Python 2.7 library offering code and output examples for working with such tasks as text, data types, algorithms, math, file systems, networking, XML, email, and runtime.**

**The Hitchhiker's Guide to Python takes the journeyman Pythonista to true expertise. More than any other language, Python was created with the philosophy of simplicity and parsimony. Now 25 years old, Python has become the primary or secondary language (after SQL) for**

**many business users. With popularity comes diversity—and possibly dilution. This guide, collaboratively written by over a hundred members of the Python community, describes best practices currently used by package and application developers. Unlike other books for this audience, The Hitchhiker's Guide is light on reusable code and heavier on design philosophy, directing the reader to excellent sources that already exist. Demonstrates the programming language's strength as a Web**

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**development tool, covering such topics as regular expressions, Django, cloud computing, and Web services, and includes real world examples.**

**"Python Essential Reference, 3rd Edition, "is a comprehensive reference to the Python programming language. The focus of this latest edition is to add coverage of significant new features and new library modules added to the language over the past five years. Clearly written with concise organization, the new features covered include new style classes,**

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**unification of types and classes, xmlrpclip, intertools, bz2 and optparse, making it the most up-to-date Python book on the market.**

**“Hellmann’s writing has become an indispensable resource for me and many others as it fills a critical gap in Python**

**Documentation with examples.” — Jesse Noller, Python Core Developer and PSF Board Member Master the Powerful Python Standard Library through Real Code Examples The Python Standard Library contains hundreds of**

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**modules for interacting with the operating system, interpreter, and Internet—all extensively tested and ready to jump-start your application development. The Python Standard Library by Example introduces virtually every important area of the Python 2.7 library through concise, stand-alone source code/output examples, designed for easy learning and reuse. Building on his popular Python Module of the Week blog series, author and Python expert Doug Hellmann focuses on**

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**“showing” not “telling.” He explains code behavior through downloadable examples that fully demonstrate each feature. You’ll find practical code for working with text, data types, algorithms, math, file systems, networking, the Internet, XML, email, cryptography, concurrency, runtime and language services, and much more. Each section fully covers one module, and links to valuable additional resources, making this book an ideal tutorial and reference. Coverage includes Manipulating text**

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**with string, textwrap, re, and difflib Implementing data structures: collections, array, queue, struct, copy, and more Reading, writing, and manipulating files and directories Regular expression pattern matching Exchanging data and providing for persistence Archiving and data compression Managing processes and threads Using application “building blocks”: parsing command-line options, prompting for passwords, scheduling events, and logging Testing, debugging, and compilation**

**Controlling runtime configuration Using module and package utilities** If you're new to Python, this book will quickly give you access to a whole new world of functionality. If you've worked with Python before, you'll discover new, powerful solutions and better ways to use the modules you've already tried.

**Taming PYTHON By Programming Essential Code and Commands**

**A Practical Introduction to Python 3 Programming in Go**



## **Python Programming Language**

### **Python Web Programming**

*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,*

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*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.*

*Winner of the 2014 Jolt Award for "Best Book" "Whether you are an experienced programmer or are starting your career, Python in Practice is full of valuable advice and example to help you improve your craft by thinking about problems from different perspectives, introducing tools, and detailing techniques to create more effective solutions." —Doug*

*Hellmann, Senior Developer, DreamHost*  
*If you're an experienced Python programmer, Python in Practice will help you improve the quality, reliability, speed, maintainability, and usability of all your Python programs. Mark Summerfield focuses on four key themes: design patterns for coding elegance, faster*

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*processing through concurrency and compiled Python (Cython), high-level networking, and graphics. He identifies well-proven design patterns that are useful in Python, illuminates them with expert-quality code, and explains why some object-oriented design patterns are irrelevant to Python. He also explodes several counterproductive myths about Python programming—showing, for example, how Python can take full advantage of multicore hardware. All examples, including three complete case studies, have been tested with Python 3.3 (and, where possible, Python 3.2 and 3.1) and crafted to maintain compatibility with future Python 3.x versions. All code has been tested on Linux, and most code has also been tested on OS X and Windows. All code may be downloaded at [www.qtrac.eu/pipbook.html](http://www.qtrac.eu/pipbook.html). Coverage includes Leveraging Python's most*

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*effective creational, structural, and behavioral design patterns Supporting concurrency with Python's multiprocessing, threading, and concurrent.futures modules Avoiding concurrency problems using thread-safe queues and futures rather than fragile locks Simplifying networking with high-level modules, including xmlrpclib and RPyC Accelerating Python code with Cython, C-based Python modules, profiling, and other techniques Creating modern-looking GUI applications with Tkinter Leveraging today's powerful graphics hardware via the OpenGL API using pygame and PyOpenGL*

*Python Essential Reference Addison-Wesley Professional*

*Get complete instructions for manipulating, processing, cleaning, and crunching datasets in Python. Updated for Python 3.6, the second edition of this*

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*hands-on guide is packed with practical case studies that show you how to solve a broad set of data analysis problems effectively. You'll learn the latest versions of pandas, NumPy, IPython, and Jupyter in the process. Written by Wes McKinney, the creator of the Python pandas project, this book is a practical, modern introduction to data science tools in Python. It's ideal for analysts new to Python and for Python programmers new to data science and scientific computing. Data files and related material are available on GitHub. Use the IPython shell and Jupyter notebook for exploratory computing Learn basic and advanced features in NumPy (Numerical Python) Get started with data analysis tools in the pandas library Use flexible tools to load, clean, transform, merge, and reshape data Create informative visualizations with matplotlib Apply the*

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*pandas groupby facility to slice, dice, and summarize datasets Analyze and manipulate regular and irregular time series data Learn how to solve real-world data analysis problems with thorough, detailed examples*

*Presents a guide to the features and library modules of the Python programming language.*

*Data Wrangling with Pandas, NumPy, and IPython*

*Python Web Development with Django*

*Python in Practice*

*Release 3. 6. 6rc1*

*The Quick Python Book*

*Mastering Python*

*Master the essential skills needed to recognize and solve complex problems with machine learning and deep learning.*

*Using real-world examples that*

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*leverage the popular Python machine learning ecosystem, this book is your perfect companion for learning the art and science of machine learning to become a successful practitioner. The concepts, techniques, tools, frameworks, and methodologies used in this book will teach you how to think, design, build, and execute machine learning systems and projects successfully. Practical Machine Learning with Python follows a structured and comprehensive three-tiered approach packed with hands-on examples and code. Part 1 focuses on understanding*

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*machine learning concepts and tools. This includes machine learning basics with a broad overview of algorithms, techniques, concepts and applications, followed by a tour of the entire Python machine learning ecosystem. Brief guides for useful machine learning tools, libraries and frameworks are also covered. Part 2 details standard machine learning pipelines, with an emphasis on data processing analysis, feature engineering, and modeling. You will learn how to process, wrangle, summarize and visualize data in its various forms. Feature engineering and selection methodologies will be*



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*covered in detail with real-world datasets followed by model building, tuning, interpretation and deployment. Part 3 explores multiple real-world case studies spanning diverse domains and industries like retail, transportation, movies, music, marketing, computer vision and finance. For each case study, you will learn the application of various machine learning techniques and methods. The hands-on examples will help you become familiar with state-of-the-art machine learning tools and techniques and understand what algorithms are best suited for any problem. Practical Machine*

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*Learning with Python will empower you to start solving your own problems with machine learning today! What You'll Learn*

- Execute end-to-end machine learning projects and systems*
- Implement hands-on examples with industry standard, open source, robust machine learning tools and frameworks*
- Review case studies depicting applications of machine learning and deep learning on diverse domains and industries*
- Apply a wide range of machine learning models including regression, classification, and clustering.*
- Understand and apply the latest models and methodologies from*

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*deep learning including CNNs, RNNs, LSTMs and transfer learning. Who This Book Is For IT professionals, analysts, developers, data scientists, engineers, graduate students Python is an intergrated, object-orientated development language for use in computer programming. This text is split into distinct sections, each concentrating on a core angle of the language. The book also contains sections for Web and application development, the two most popular uses for Python. It is designed to teach a programmer how to use Python by explaining the mechanics of*

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*Python. The appendixes offer a quick guide to the main features of the Python language, as well as additional guides to non-essential systems such as the IDLE development environment and general guidelines for migrating from another language. 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*

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*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 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*

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*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 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*  
*A valuable programming reference provides a complete introduction to the Go programming language, covering all of Go's clean and easy to*

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*understand syntax and its built-in arrays, maps, slices and Unicode strings. Original.*

*A pocket guide jam-packed with immediately useful and essential code phrases for the Python developer's everyday use!*

*Head First Python*

*Python in a Nutshell*

*Core Python Applications Programming*

*Practical Machine Learning with Python*

*Over 100 recipes to fully leverage the features of the standard library in Python*

*Programming in Python 3*

*Revised edition of first part of: Android wireless*

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*application development / Shane Conder, Lauren Darcey. c2010.*

*Using the simple, robust, Python-based Django framework, you can build powerful Web solutions with remarkably few lines of code. In Python Web Development with Django®, three experienced Django and Python developers cover all the techniques, tools, and concepts you need to make the most of Django 1.0, including all the major features of the new release. The authors teach Django through in-depth explanations, plus*



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*provide extensive sample code supported with images and line-by-line explanations. You'll discover how Django leverages Python's development speed and flexibility to help you solve a wide spectrum of Web development problems and learn Django best practices covered nowhere else. You'll build your first Django application in just minutes and deepen your real-world skills through start-to-finish application projects including Simple Web log (blog) Online photo*

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*gallery Simple content management system Ajax-powered live blogger Online source code sharing/syntax highlighting tool How to run your Django applications on the Google App Engine This complete guide starts by introducing Python, Django, and Web development concepts, then dives into the Django framework, providing a deep understanding of its major components (models, views, templates), and how they come together to form complete Web applications.*

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*After a discussion of four independent working Django applications, coverage turns to advanced topics, such as caching, extending the template system, syndication, admin customization, and testing. Valuable reference appendices cover using the command-line, installing and configuring Django, development tools, exploring existing Django applications, the Google App Engine, and how to get more involved with the Django community.*

*Introduction 1 Part I:  
Getting Started Chapter 1:*

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*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 analysts through Python libraries and tools for building financial applications and interactive financial analytics. Using practical*

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*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.*

*Introduces the programming language's syntax, control flow, and basic data structures and covers its interaction with applications and management of large collections of code.*

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*Based on the authors' market leading data structures books in Java and C++, this textbook offers a comprehensive, definitive introduction to data structures in Python by authoritative authors. Data Structures and Algorithms in Python is the first authoritative object-oriented book available for the Python data structures course. Designed to provide a comprehensive introduction to data structures and algorithms, including their design, analysis, and implementation, the*



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*text will maintain the same general structure as Data Structures and Algorithms in Java and Data Structures and Algorithms in C++.*

*Data Structures and Algorithms in Python  
Powerful Object-Oriented Programming*

*Python*

*A Brain-Friendly Guide  
Mastering Data-Driven Finance*

*Python for Finance*

Updated for both Python 3.4 and 2.7, this convenient pocket guide is the perfect on-the-job quick reference. You'll find concise, need-to-know information on Python types and statements, special method names,

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built-in functions and exceptions, commonly used standard library modules, and other prominent Python tools. The handy index lets you pinpoint exactly what you need. Written by Mark Lutz—widely recognized as the world's leading Python trainer—Python Pocket Reference is an ideal companion to O'Reilly's classic Python tutorials, *Learning Python* and *Programming Python*, also written by Mark. This fifth edition covers:

- Built-in object types, including numbers, lists, dictionaries, and more
- Statements and syntax for creating and processing objects
- Functions and modules for structuring and reusing code
- Python's object-oriented programming tools
- Built-in functions, exceptions, and attributes
- Special operator overloading methods
- Widely used standard library modules and extensions
- Command-line options

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and development tools Python idioms and hints The Python SQL Database API

Learn how to program with Python from beginning to end. This book is for beginners who want to get up to speed quickly and become intermediate programmers fast!

Python is an easy to learn, powerful programming language. It has efficient high-level data structures and a simple but effective approach to object-oriented programming. Python's elegant syntax and dynamic typing, together with its interpreted nature, make it an ideal language for scripting and rapid application development in many areas on most platforms. The Python interpreter and the extensive standard library are freely available in source or binary form for all major platforms from the Python Web site, <https://www.python.org/>:

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[//www.python.org/](http://www.python.org/), and may be freely distributed. The same site also contains distributions of and pointers to many free third party Python modules, programs and tools, and additional documentation. The Python interpreter is easily extended with new functions and data types implemented in C or C++ (or other languages callable from C). Python is also suitable as an extension language for customizable applications. This tutorial introduces the reader informally to the basic concepts and features of the python language and system. It helps to have a Python interpreter handy for hands-on experience, but all examples are self contained, so the tutorial can be read off-line as well. For a description of standard objects and modules, see [library-index](#). [reference-index](#) gives a more formal definition of the language.

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To write extensions in C or C++, read [extending-index](#) and [c-api-index](#). There are also several books covering Python in depth. This tutorial does not attempt to be comprehensive and cover every single feature, or even every commonly used feature. Instead, it introduces many of Python's most noteworthy features, and will give you a good idea of the language's flavor and style. After reading it, you will be able to read and write Python modules and programs, and you will be ready to learn more about the various Python library modules described in [library-index](#). The Glossary is also worth going through. This is a great book for Python Beginner and Advanced Learner which covers Basics to Advanced Python Programming where each topic is explained with the help of Illustrations and Examples. More than 450 solved

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

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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 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

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code using Sphinx Learn how to track and optimize application performance, both memory and 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, 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



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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 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

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advanced scripts and take on bigger challenges. **Style and Approach** This book is a comprehensive guide that covers advanced features of the Python language, and communicate them with an authoritative understanding of the underlying rationale for how, when, and why to use them.

Python Cookbook

Modern Python Standard Library Cookbook

A Comprehensive Guide to Building, Programming, and Administering PostgreSQL Databases

Creating Applications for the 21st Century

Laws of UX

Best Practices for Development

If you need help writing programs in Python 3, or want to update older

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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

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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,

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Debugging, and Exceptions C Extensions Demonstrates the programming language's strength as a Web development tool, covering syntax, data types, built-ins, the Python standard module library, and real world examples.

Build optimized applications in Python by smartly implementing the standard library Key Features Strategic recipes for effective application development in Python Techniques to

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create GUIs and implement security through cryptography  
Best practices for developing readily scalable, production-ready applications  
Book Description The Python 3 Standard Library is a vast array of modules that you can use for developing various kinds of applications. It contains an exhaustive list of libraries, and this book will help you choose the best one to address specific programming problems in

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Python. The Modern Python Standard Library Cookbook begins with recipes on containers and data structures and guides you in performing effective text management in Python. You will find Python recipes for command-line operations, networking, filesystems and directories, and concurrent execution. You will learn about Python security essentials in Python and get to grips with various development

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tools for debugging, benchmarking, inspection, error reporting, and tracing. The book includes recipes to help you create graphical user interfaces for your application. You will learn to work with multimedia components and perform mathematical operations on date and time. The recipes will also show you how to deploy different searching and sorting algorithms on your data. By the end of the book,



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you will have acquired the skills needed to write clean code in Python and develop applications that meet your needs. What you will learn

- Store multiple values per key in associative containers
- Create interactive character-based user interfaces
- Work with native time and display data for your time zone
- Read/write SGML family languages, both as a SAX and DOM parser to meet file sizes and other

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requirements Group  
equivalent items using  
itertools and sorted  
features together Use  
partials to create unary  
functions out of multi-  
argument functions  
Implement hashing  
algorithms to store  
passwords in a safe way  
Who this book is for If  
you are a developer who  
wants to write highly  
responsive, manageable,  
scalable, and resilient  
code in Python, this  
book is for you. Prior  
programming knowledge in  
Python will help you

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make the most out of the book.

An innovative reference reveals the many capabilities of the Python Standard Library, which is a compilation of commonly used procedures that can be pasted into a Python script, by providing over 300 real-world example scripts.

Original.

(Intermediate/Advanced)

A Python community leader teaches professionals how to integrate web

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applications with Python.

Create Better Programs

Using Concurrency,

Libraries, and Patterns

Python Standard Library

Python Pocket Reference

Python for Data Analysis

Python In Your Pocket

Python Essential

Reference

*"PostgreSQL" leads users through the internals of an open-source database. Throughout the book are explanations of data structures and algorithms, each backed by a concrete example from the actual source code. Each section contains information about performance implications,*

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*debugging techniques, and pointers to more information (on the Web and in book form).*

*PostgreSQL*

*The Python 3 Standard Library by Example*

*Fluent Python*

*Python Essentials*

*The Complete Reference*

*The Python Standard Library by Example*