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[Data Wrangling with Pandas, NumPy, and IPython](#)

"O'Reilly Media, Inc."

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!

Fluent Python Packt Publishing Ltd

Praise for Core Python Programming The Complete Developer's Guide to Python New to Python? The definitive guide to Python development for experienced programmers Covers core language features

thoroughly, including those found in the latest Python releases—learn more than just the syntax! Learn advanced topics such as regular expressions, networking, multithreading, GUI, Web/CGI, and Python extensions Includes brand-new material on databases, Internet clients, Java/Jython, and Microsoft Office, plus Python 2.6 and 3 Presents hundreds of code snippets, interactive examples, and practical exercises to strengthen your Python skills Python is an agile, robust, expressive, fully object-oriented, extensible, and scalable programming language. It combines the power of compiled languages with the simplicity and rapid development of scripting languages. In Core Python Programming, Second Edition , leading Python developer and trainer Wesley Chun helps you learn Python quickly and comprehensively so that you can immediately succeed with any Python project. Using practical code examples, Chun introduces all the fundamentals of Python programming: syntax, objects and memory management, data types, operators, files and I/O, functions, generators, error handling and exceptions, loops, iterators, functional programming, object-oriented programming and more. After you learn the core fundamentals of Python, he shows you what you can do with your new skills, delving

into advanced topics, such as regular expressions, networking programming with sockets, multithreading, GUI development, Web/CGI programming and extending Python in C. This edition reflects major enhancements in the Python 2.x series, including 2.6 and tips for migrating to 3. It contains new chapters on database and Internet client programming, plus coverage of many new topics, including new-style classes, Java and Jython, Microsoft Office (Win32 COM Client) programming, and much more. Learn professional Python style, best practices, and good programming habits Gain a deep understanding of Python's objects and memory model as well as its OOP features, including those found in Python's new-style classes Build more effective Web, CGI, Internet, and network and other client/server applications Learn how to develop your own GUI applications using Tkinter and other toolkits available for Python Improve the performance of your Python applications by writing extensions in C and other languages, or enhance I/O-bound applications by using multithreading Learn about Python's database API and how to use a variety of database systems with Python, including MySQL, Postgres, and SQLite Features appendices on Python 2.6 & 3, including tips on migrating to the next generation!

Python Essential Reference Packt Publishing Ltd

This book is a collection of notes and tutorial examples written by the author while he was learning molecules and related tools. Topics include understanding atoms, bonds and molecules; introduction of atomic isotopes and elements; introduction of proteins and amino acids; introduction of protein kinases; molecule SDF (Structure Data File) format; generating PNG pictures from molecule SDF files; installing RDkit as molecule tool; visualizing molecule structure in 3-D with PyMol; generating molecule movie with PyMol. Updated in 2021 (Version v1.25)

with minor updates. For latest updates and free sample chapters, visit <http://www.herongyang.com/Molecule>.

Python Programming with Raspberry Pi SAGE Publications

Learn how to leverage MongoDB with your Python applications, using the hands-on recipes in this book. You get complete code samples for tasks such as making fast geo queries for location-based apps, efficiently indexing your user documents for social-graph lookups, and many other scenarios. This guide explains the basics of the document-oriented database and shows you how to set up a Python environment with it. Learn how to read and write to MongoDB, apply idiomatic MongoDB and Python patterns, and use the database with several popular Python web frameworks. You ' ll discover how to model your data, write effective queries, and avoid concurrency problems such as race conditions and deadlocks. The recipes will help you: Read, write, count, and sort documents in a MongoDB collection Learn how to use the rich MongoDB query language Maintain data integrity in replicated/distributed MongoDB environments Use embedding to efficiently model your data without joins Code defensively to avoid keyerrors and other bugs Apply atomic operations to update game scores, billing systems, and more with the fast accounting pattern Use MongoDB with the Pylons 1.x, Django, and Pyramid web frameworks *Made Fun and Easier* Packt Publishing Ltd

Learn the fundamentals of Python (3.7) and how to apply it to data science, programming, and web development. Fully updated to include hands-on tutorials and projects. Key Features Learn the fundamentals of Python programming with interactive projects Apply Python to data science with tools such as IPython and Jupyter Utilize Python for web development and build a real-world app using Django Book Description Learn Python Programming is a quick, thorough, and practical introduction to Python - an

extremely flexible and powerful programming language that can be applied to many disciplines. Unlike other books, it doesn't bore you with elaborate explanations of the basics but gets you up-and-running, using the language. You will begin by learning the fundamentals of Python so that you have a rock-solid foundation to build upon. You will explore the foundations of Python programming and learn how Python can be manipulated to achieve results. Explore different programming paradigms and find the best approach to a situation; understand how to carry out performance optimization and effective debugging; control the flow of a program; and utilize an interchange format to exchange data. You'll also walk through cryptographic services in Python and understand secure tokens. Learn Python Programming will give you a thorough understanding of the Python language. You'll learn how to write programs, build websites, and work with data by harnessing Python's renowned data science libraries. Filled with real-world examples and projects, the book covers various types of applications, and concludes by building real-world projects based on the concepts you have learned. What you will learn Get Python up and running on Windows, Mac, and Linux Explore fundamental concepts of coding using data structures and control flow Write elegant, reusable, and efficient code in any situation

Understand when to use the functional or OOP approach Cover the basics of security and concurrent/asynchronous programming Create bulletproof, reliable software by writing tests Build a simple website in Django Fetch, clean, and manipulate data Who this book is for Learn Python Programming is for individuals with relatively little experience in coding or Python. It's also ideal for aspiring programmers who need to write scripts or programs to accomplish tasks. The book shows you how to create a full-fledged application.

Professional Heroku Programming Apress
Normal 0 21 false false false
MicrosoftInternetExplorer4 Start Here: Python 3x
Programming is a great place for the total beginner to learn how to become a programmer. Python is one of the best languages to choose for the beginning programmer. This course takes you from knowing nothing to creating your first arcade style game including graphics, sound, and music. You will learn to apply a version system, some software design, how to choose a license, and how to package your first installation exe. This course uses humor, visual, and experiential learning to make learning more fun. /* Style Definitions */
table.MsoNormalTable {mso-style-name:"Table Normal"; mso-tstyle-rowband-size:0; mso-tstyle-colband-size:0; mso-style-noshow:yes; mso-style-parent:""; mso-padding-alt:0in 5.4pt 0in 5.4pt; mso-para-margin:0in; mso-para-margin-bottom:.0001pt; mso-pagination:widow-orphan; font-size:10.0pt; font-

```
family:"Times New Roman"; mso-fareast-font-  
family:"Times New Roman"; mso-ansi-language:#0400;  
mso-fareast-language:#0400; mso-bidi-  
language:#0400;}
```

Molecule Tutorials - Herong's Tutorial Examples CRC
Press

Become a master of Python programming using the
small yet powerful Raspberry Pi Zero About This
Book This is the first book on the market that
teaches Python programming with Raspberry Pi Zero
Develop exciting applications such as a mobile
robot and home automation controller using Python
This step-by-step guide helps you make the most out
of Raspberry Pi Zero using Python programming Who
This Book Is For This book is aimed at hobbyists
and programmers who want to learn Python
programming and develop applications using the Pi
Zero. They should have basic familiarity with
electronics. What You Will Learn Configure
Raspberry Pi using Python Control loops to blink an
LED using simple arithmetic operations Understand
how interface sensors, actuators, and LED displays
work Get to grips with every aspect of Python
programming using practical examples Explore
machine vision, data visualization, and scientific
computations Build a mobile robot using the
Raspberry Pi as the controller Build a voice-
activated home automation controller In Detail
Raspberry Pi Zero is a super-small and super-
affordable product from Raspberry Pi that is packed
with a plethora of features and has grabbed the
notice of programmers, especially those who use
Python. This step-by-step guide will get you

developing practical applications in Python using a
Raspberry Pi Zero. It will become a valuable
resource as you learn the essential details of
interfacing sensors and actuators to a Raspberry Pi,
as well as acquiring and displaying data. You will
get started by writing a Python program that blinks
an LED at 1-second intervals. Then you will learn to
write simple logic to execute tasks based upon
sensor data (for example, to control a motor) and
retrieve data from the web (such as to check e-mails
to provide a visual alert). Finally, you will learn
to build a home automation system with Python where
different appliances are controlled using the
Raspberry Pi. The examples discussed in each chapter
of this book culminate in a project that help
improve the quality of people's lives. Style and
approach This will be a learning, step-by-step guide
to teach Python programming using the famous
Raspberry Pi Zero. The book is packed with practical
examples at every step along with tips and tricks
for the Raspberry Pi fans

**The no-nonsense, beginner's guide to
programming, data science, and web development
with Python 3.7, 2nd Edition** Simon and Schuster

We geeks love puzzles and solving them. The
Python programming language is a simple one,
but like all other languages it has quirks.
This book uses those quirks as teaching
opportunities via 30 simple Python programs
that challenge your understanding of Python.
The teasers will help you avoid mistakes, see
gaps in your knowledge, and become better at

what you do. Use these teasers to impress your co-workers or just to pass the time in those boring meetings. Teasers are fun! At the beginning of each chapter I'll show you a short Python program and will ask you to guess the output. The possible answers can be: Syntax error Exception Hang Some output (e.g. `[1 2 3]`) Here's how to approach the puzzles. Read through the code. Before moving on to the answer and the explanation, go ahead and guess the output. After guessing the output, run the code and see the output yourself. Finally proceed to read the solution and the explanation. The puzzles are short enough to solve on a coffee break, so carry them with you, have fun, and share them with co-workers. People who make mistakes during the learning process learn better than people who don't. If you use this approach at work when fixing bugs, you'll find you enjoy bug hunting more and become a better developer after each bug you fix. Many of these puzzles are from the author's lessons learned (and others) of shipping bugs to production. He often uses the puzzles as quizzes during conferences and meetups, and they tend to create a buzz of excitement. What You Need: You need to know Python at some level and have experience programming with it. NOTE: The book uses Python version 3.8.2 to run the code; the output `_could_` change in future versions. You will need a working Python environment, you can download it from `python.org`:<https://www.python.org/downloads/>. You will probably want a good IDE for python, two of the most popular ones are "Visual Studio Code":<https://code.visualstudio.com/> and "PyCharm":<https://www.jetbrains.com/pycharm/>. *Crafting Visual Transformation Scripts* Apress 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 Programming Concurrency Utility Scripting and System Administration Testing, Debugging, and Exceptions C Extensions

Learning Python Learn Python ProgrammingThe no-nonsense, beginner's guide to programming, data science, and web development with Python 3.7, 2nd Edition

Python Essential Reference is the definitive reference guide to the Python programming language – the one authoritative handbook that reliably untangles and explains both the core Python language and the most essential parts of the Python library. Designed for the professional programmer, the book is concise, to the point, and highly accessible. It also includes detailed information on the Python library and many advanced subjects that is not available in either the official Python documentation or any other single reference source. Thoroughly updated to reflect the significant new programming language features and library modules that have been introduced in Python 2.6 and Python 3, the fourth edition of Python Essential Reference is the definitive guide for programmers who need to modernize existing Python code or who are planning an eventual migration to Python 3. Programmers starting a new Python project will find detailed coverage of contemporary Python programming idioms. This fourth edition of Python Essential Reference features numerous improvements, additions, and updates: Coverage of new language features, libraries, and

modules Practical coverage of Python's more advanced features including generators, coroutines, closures, metaclasses, and decorators Expanded coverage of library modules related to concurrent programming including threads, subprocesses, and the new multiprocessing module Up-to-the-minute coverage of how to use Python 2.6's forward compatibility mode to evaluate code for Python 3 compatibility Improved organization for even faster answers and better usability Updates to reflect modern Python programming style and idioms Updated and improved example code Deep coverage of low-level system and networking library modules – including options not covered in the standard documentation

Bioinformatics Programming in Python Apress
Would you like to gather big datasets, analyze them, and visualize the results, all in one program? If this describes you, then *Introduction to Python Programming for Business and Social Science Applications* is the book for you. Authors Frederick Kaefer and Paul Kaefer walk you through each step of the Python package installation and analysis process, with frequent exercises throughout so you can immediately try out the functions you've learned. Written in straightforward language for those with no

programming background, this book will teach you how to use Python for your research and data analysis. Instead of teaching you the principles and practices of programming as a whole, this application-oriented text focuses on only what you need to know to research and answer social science questions. The text features two types of examples, one set from the General Social Survey and one set from a large taxi trip dataset from a major metropolitan area, to help readers understand the possibilities of working with Python. Chapters on installing and working within a programming environment, basic skills, and necessary commands will get you up and running quickly, while chapters on programming logic, data input and output, and data frames help you establish the basic framework for conducting analyses. Further chapters on web scraping, statistical analysis, machine learning, and data visualization help you apply your skills to your research. More advanced information on developing graphical user interfaces (GUIs) help you create functional data products using Python to inform general users of data who don't work within Python.

MongoDB and Python John Wiley & Sons

Do you have a biological question that could be readily answered by computational techniques, but little experience in programming? Do you want to learn more about the core techniques used in computational biology and bioinformatics? Written in an accessible style, this guide provides a foundation for both newcomers to computer programming and those interested in learning more about computational biology. The chapters guide the reader through: a complete beginners' course to programming in Python, with an introduction to computing jargon; descriptions of core bioinformatics methods with working Python examples; scientific computing techniques, including image analysis, statistics and machine learning. This book also functions as a language reference written in straightforward English, covering the most common Python language elements and a glossary of computing and biological terms. This title will teach undergraduates, postgraduates and professionals working in the life sciences how to program with Python, a powerful, flexible and easy-to-use language.

Understand key data structures and use Python in object-oriented programming

"O'Reilly Media, Inc."

A complete guide to building and deploying web apps with Heroku A cloud application platform, Heroku is currently the only approved platform for creating apps

within Facebook, and its number of users is growing at rapid pace. However, there are very few books on the market that offer professional-level coverage of this platform, until now. The author duo begins with an introduction to the Heroku platform and its associated core concepts and then goes on to explain how writing for this platform differs from that of traditional development systems. Example applications, additional resources, and advice for your next steps round out this resource, making it a thorough, indispensable guide. Features information not found anywhere else, as both authors work for Heroku. Explains the inner workings of Heroku with special emphasis placed on building web and mobile applications. Introduces GIT-based development workflow and the process model within the Heroku platform. Details coding, building, deploying, and scaling effectively using the Heroku tool base. Providing you with fully functional code and downloadable code examples, Professional Heroku Programming is your complete guide to mastering this platform.

Build clever, collaborative, and powerful automation systems with the Raspberry Pi and Python. Key Features Create your own Pi-Rover or Pi-Hexipod robots Develop practical applications in Python using Raspberry Pi Build your own Jarvis, a highly advanced computerized AI Book Description This Learning Path takes you on a journey in the world of robotics and teaches you all that you can achieve with Raspberry Pi and Python. It teaches you to harness the power of Python with the Raspberry Pi 3 and the Raspberry Pi zero to build superlative automation systems that can transform your business. You will learn to create text classifiers, predict sentiment in words, and develop applications with the Tkinter library. Things will get more interesting when you build a human face detection and recognition system and a home automation system in Python, where different appliances are controlled using the Raspberry Pi. With such diverse robotics projects, you'll grasp the basics of robotics and its functions, and understand the integration of robotics with the IoT environment. By the end of this Learning Path, you will have covered everything from configuring a robotic

controller, to creating a self-driven robotic vehicle using Python. Raspberry Pi 3 Cookbook for Python Programmers - Third Edition by Tim Cox, Dr. Steven Lawrence Fernandes Python Programming with Raspberry Pi by Sai Yamanoor, Srihari Yamanoor Python Robotics Projects by Prof. Diwakar Vaish What you will learn Build text classifiers and predict sentiment in words with the Tkinter library Develop human face detection and recognition systems Create a neural network module for optical character recognition Build a mobile robot using the Raspberry Pi as a controller Understand how to interface sensors, actuators, and LED displays work Apply machine learning techniques to your models Interface your robots with Bluetooth Who this book is for This Learning Path is specially designed for Python developers who want to take their skills to the next level by creating robots that can enhance people's lives. Familiarity with Python and electronics will aid understanding the concepts in this Learning Path.

IronPython in Action Packt Publishing Ltd
Get complete instructions for manipulating, processing, cleaning, and crunching datasets in

Python. Updated for Python 3.6, the second edition of this 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 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

Python Projects Cambridge University Press
Learn Python Programming The no-nonsense, beginner's guide to programming, data science, and web development with Python 3.7, 2nd Edition Packt Publishing Ltd

Python Brain Teasers HerongYang.com

* Quick start to learning python—very example oriented approach * Book has its own Web site established by the author: <http://diveintopython.org/> Author is well known in the Open Source community and the book has a unique quick approach to learning an object oriented language.

Leverage the scripts and libraries of Python version 3.7 and beyond to overcome networking and security issues Springer Science & Business Media

This book describes the process of creating a Cognito user pool to manage our users, deploying a simple Python application to Lambda, integrating all these systems with API Gateway, and consuming the resulting endpoint from a simple JavaScript web application.

A practical guide for learning Python, complete with real-world projects for you to explore "O'Reilly Media, Inc."

Don't waste time bending Python to fit patterns you've learned in other languages. Python's simplicity lets you become productive quickly, but often this means you aren't using everything the language has to offer. With the updated edition of this

hands-on guide, you'll learn how to write effective, modern Python 3 code by leveraging its best ideas. Discover and apply idiomatic Python 3 features beyond your past experience. Author Luciano Ramalho guides you through Python's core language features and libraries and teaches you how to make your code shorter, faster, and more readable. Complete with major updates throughout, this new edition features five parts that work as five short books within the book: Data structures: Sequences, dicts, sets, Unicode, and data classes Functions as objects: First-class functions, related design patterns, and type hints in function declarations Object-oriented idioms: Composition, inheritance, mixins, interfaces, operator overloading, protocols, and more static types Control flow: Context managers, generators, coroutines, async/await, and thread/process pools Metaprogramming: Properties, attribute descriptors, class decorators, and new class metaprogramming hooks that replace or simplify metaclasses Over 100 recipes to progress from smart data analytics to deep learning using real-world datasets, 2nd Edition "O'Reilly Media, Inc."

In 2005, Microsoft quietly announced an initiative to bring dynamic languages to the .NET platform. The starting point for this project was a .NET implementation of Python, dubbed IronPython. After a couple years of incubation, IronPython is ready for real-world use. It blends the simplicity, elegance, and dynamism of Python with the power of the .NET framework. IronPython in Action offers a comprehensive, hands-on introduction to Microsoft's exciting new approach for programming the .NET framework. It approaches IronPython as a first class .NET language, fully integrated with the .NET environment, Visual Studio, and even the open-source Mono implementation. You'll learn how IronPython can be embedded as a ready-made scripting language into C# and VB.NET programs, used for writing full applications or for web development with ASP. Even better, you'll see how IronPython works in Silverlight for client-side web programming. IronPython opens up exciting new possibilities. Because it's a dynamic language, it permits programming paradigms not easily available in VB and C#. In this book, authors Michael Foord and Christian Muirhead explore the world of functional

programming, live introspection, dynamic typing and duck typing , metaprogramming, and more. IronPython in Action explores these topics with examples, making use of the Python interactive console to explore the .NET framework with live objects. The expert authors provide a complete introduction for programmers to both the Python language and the power of the .NET framework. The book also shows how to extend IronPython with C#, extending C# and VB.NET applications with Python, using IronPython with .NET 3.0 and Powershell, IronPython as a Windows scripting tool, and much more. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.