

# Unicodedecodeerror Utf8 Codec Cant Decode Byte

*Perform more advanced analysis and manipulation of your data beyond what Power BI can do to unlock valuable insights using Python and R Key Features Get the most out of Python and R with Power BI by implementing non-trivial code Leverage the toolset of Python and R chunks to inject scripts into your Power BI dashboards Implement new techniques for ingesting, enriching, and visualizing data with Python and R in Power BI Book Description Python and R allow you to extend Power BI capabilities to simplify ingestion and transformation activities, enhance dashboards, and highlight insights. With this book, you'll be able to make your artifacts far more interesting and rich in insights using analytical languages. You'll start by learning how to configure your Power BI environment to use your Python and R scripts. The book then explores data ingestion and data transformation extensions, and advances to focus on data augmentation and data visualization. You'll understand how to import data from external sources and transform them using complex algorithms. The book helps you implement personal data de-identification methods such as pseudonymization, anonymization, and masking in Power BI. You'll be able to call external APIs to enrich your data much more quickly using Python programming and R programming. Later, you'll learn advanced Python and R techniques to perform in-depth analysis and extract valuable information using statistics and machine learning. You'll also understand the main statistical features of datasets by*

*plotting multiple visual graphs in the process of creating a machine learning model. By the end of this book, you'll be able to enrich your Power BI data models and visualizations using complex algorithms in Python and R. What you will learn*  
*Discover best practices for using Python and R in Power BI products*  
*Use Python and R to perform complex data manipulations in Power BI*  
*Apply data anonymization and data pseudonymization in Power BI*  
*Log data and load large datasets in Power BI using Python and R*  
*Enrich your Power BI dashboards using external APIs and machine learning models*  
*Extract insights from your data using linear optimization and other algorithms*  
*Handle outliers and missing values for multivariate and time-series data*  
*Create any visualization, as complex as you want, using R scripts*  
*Who this book is for*  
*This book is for business analysts, business intelligence professionals, and data scientists who already use Microsoft Power BI and want to add more value to their analysis using Python and R. Working knowledge of Power BI is required to make the most of this book. Basic knowledge of Python and R will also be helpful.*

*Leverage the features and libraries of Python to administrate your environment efficiently. Key Features*  
*Learn how to solve problems of system administrators and automate routine activities*  
*Learn to handle regular expressions, network administration*  
*Building GUI, web-scraping and database administration including data analytics*  
*Book Description*  
*Python has evolved over time and extended its features in relation to every possible IT operation. Python is simple to learn, yet has powerful libraries that can be used to build powerful Python scripts for solving real-world*

*problems and automating administrators' routine activities. The objective of this book is to walk through a series of projects that will teach readers Python scripting with each project. This book will initially cover Python installation and quickly revise basic to advanced programming fundamentals. The book will then focus on the development process as a whole, from setup to planning to building different tools. It will include IT administrators' routine activities (text processing, regular expressions, file archiving, and encryption), network administration (socket programming, email handling, the remote controlling of devices using telnet/ssh, and protocols such as SNMP/DHCP), building graphical user interface, working with websites (Apache log file processing, SOAP and REST APIs communication, and web scraping), and database administration (MySQL and similar database data administration, data analytics, and reporting). By the end of this book, you will be able to use the latest features of Python and be able to build powerful tools that will solve challenging, real-world tasks What you will learn*

*Understand how to install Python and debug Python scripts*

*Understand and write scripts for automating testing and routine administrative activities*

*Understand how to write scripts for text processing, encryption, decryption, and archiving*

*Handle files, such as pdf, excel, csv, and txt files, and generate reports*

*Write scripts for remote network administration, including handling emails*

*Build interactive tools using a graphical user interface*

*Handle Apache log files, SOAP and REST APIs communication*

*Automate database administration and perform statistical analysis*

*Who this book is for This book would be ideal for users with some basic understanding of Python programming and who are*

*interested in scaling their programming skills to command line scripting and system administration. Prior knowledge of Python would be necessary.*

*Un livre incontournable pour acquérir l'exigeante discipline qu'est l'art de la programmation ! Original et stimulant, cet ouvrage aborde au travers d'exemples attrayants et concrets tous les fondamentaux de la programmation. L'auteur a choisi Pyt*

*A könyv e második kiadása gyakorlatilag egy teljesen új m?vet takar; a cím megegyezik, mivel a téma is, de a teljes átdolgozás során az eredeti szövegb?l szinte alig ?rz?dött meg néhány mondat. És ami még ennél is fontosabb, a könyv a könnyebb olvashatóság érdekében sokkal lazább, tagoltabb szerkezet? lett, miközben az ismeretanyag alaposan megújult és jelent?s mértékben kib?vült. A törzsanyaggal párhuzamosan elhelyezésre kerültek olyan fejezetek, amelyek egy-egy kapcsolódó témát nagyobb részletességgel ismertetnek; és ott vannak azok a fejezetek, amelyek a grafikonok rajzolására szolgáló \*matplotlib\* modul f? funkcióit példákon keresztül bemutatják. Ezeket az egyébként megjelölt részeket az olvasó akár át is ugorhatja, a kihagyásuk nem töri meg a törzsanyag fejezeteinek egymásra épül? logikáját. Az anyag didaktikai felépítése, az ismeretek közlésének sorrendje is teljesen megújult. A könyv rengeteg példát, programkódot mutat be; ezekben?l talán több is van mint kötött szövegb?l. Az író célja, hogy a digitális írástudás elsajátítását, a programozás rejtjelmeinek megismerését azon olvasók számára is lehet?vé tegye, akik még nem rendelkeznek semmilyen programozási el?ismerettel. Ugyanakkor ez nem jelenti azt, hogy könyv csak nekik, a kezd?knek szól; a más programnyelvet már profi módon*

*ismer?k is igényes alapossággal kidolgozott tananyagot kapnak. Programozni megtanulni komoly munka, ami azonban egyidej?leg élvezetes foglalatosságot is jelenthet. A könyv a középiskola els? évfolyamától kezdve ajánlott, de nem csak a diákok és a tanárok számára, hanem a szélesebb olvasóközönség részére is. A nem informatikát oktató tanárok is haszonnal forgathatják, és a számos kidolgozott feladattól ötleteket meríthetnek szaktárgyuk tanításához. A programozási eljárások és módszerek a Python 3 nyelv megismertetésével kerülnek bemutatásra, amelyik a 21. században az egyik leggyorsabban terjed? programozási nyelv. A teljesen kezd? szint?l induló olvasó a m? ért? végigolvasása után, a példák és a feladatok áttanulmányozásával, átfogó tudásra tehet szert, amit képes lesz a tanulmányai vagy munkája során felmerül? feladatok megoldásához segítségül hívni.*

*Python para análise de dados*

*Clear, Concise, and Effective Programming*

*Real-World Python*

*Programming PyTorch for Deep Learning*

*Infrastructure as Python*

*Powerful Object-Oriented Programming*

*Avec 60 pages d'exercices corrigés !*

Описан базовый синтаксис языка Python: типы данных, операторы, условия, циклы, регулярные выражения, встроенные функции, объектно-ориентированное программирование, часто используемые модули стандартной библиотеки. Даны основы SQLite, описан интерфейс доступа к базам данных SQLite и MySQL. Рассмотрены работа с изображениями с помощью библиотеки PIL и получение данных из Интернета. Книга

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содержит более двухсот практических примеров, помогающих начать программировать на языке Python самостоятельно. Весь материал тщательно подобран, хорошо структурирован и компактно изложен, что позволяет использовать книгу как удобный справочник. Прилагаемый DVD содержит листинги описанных в книге примеров и видеоролики. Файлы для книги можно скачать по ссылке <ftp://ftp.bhv.ru/9785977506144.zip>

*A project-based approach to learning Python programming for beginners. Intriguing projects teach you how to tackle challenging problems with code. You've mastered the basics. Now you're ready to explore some of Python's more powerful tools. Real-World Python will show you how. Through a series of hands-on projects, you'll investigate and solve real-world problems using sophisticated computer vision, machine learning, data analysis, and language processing tools. You'll be introduced to important modules like OpenCV, NumPy, Pandas, NLTK, Bokeh, Beautiful Soup, Requests, HoloViews, Tkinter, turtle, matplotlib, and more. You'll create complete, working programs and think through intriguing projects that show you how to:*

- Save shipwrecked sailors with an algorithm designed to prove the existence of God
- Detect asteroids and comets moving against a starfield
- Program a sentry gun to shoot your enemies and spare your friends
- Select landing sites for a Mars probe using real NASA maps
- Send unbreakable messages based on a book code
- Survive a zombie outbreak

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*using data science • Discover exoplanets and alien megastructures orbiting distant stars • Test the hypothesis that we're all living in a computer simulation • And more! If you're tired of learning the bare essentials of Python Programming with isolated snippets of code, you'll relish the relevant and geeky fun of Real-World Python!*

*В курсе рассматриваются теоретические основы современных технологий и методов программирования, практические вопросы создания программ, а также основные алгоритмические конструкции и их реализация на языке высокого уровня Python. Рассмотрение теоретических основ программирования сопровождается большим количеством примеров, иллюстрирующих приемы создания программ, а также заданиями для самостоятельного выполнения, позволяющими сформировать у студентов практические навыки программирования. Соответствует актуальным требованиям федерального государственного образовательного стандарта высшего образования. Для студентов высших учебных заведений, обучающихся по инженерно-техническим направлениям.*

*Deep learning is changing everything. This machine-learning method has already surpassed traditional computer vision techniques, and the same is happening with NLP. If you're looking to bring deep learning into your domain, this practical book will bring you up to speed on key concepts using Facebook's PyTorch framework. Once author Ian Pointer*

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helps you set up PyTorch on a cloud-based environment, you'll learn how use the framework to create neural architectures for performing operations on images, sound, text, and other types of data. By the end of the book, you'll be able to create neural networks and train them on multiple types of data. Learn how to deploy deep learning models to production Explore PyTorch use cases in companies other than Facebook Learn how to apply transfer learning to images Apply cutting-edge NLP techniques using a model trained on Wikipedia Lernen und professionell anwenden. Das umfassende Praxisbuch

Python Eficaz  
Fluent Python  
Professional Python  
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*Erfahren Sie alles über das Manipulieren, Bereinigen, Verarbeiten und Aufbereiten von Datensätzen mit Python: Aktualisiert auf Python 3.6, zeigt Ihnen dieses konsequent praxisbezogene Buch anhand konkreter Fallbeispiele, wie Sie eine Vielzahl von typischen Datenanalyse-Problemen effektiv lösen. Gleichzeitig lernen Sie die neuesten Versionen von pandas, NumPy, IPython und Jupyter kennen. Geschrieben von Wes McKinney, dem Begründer des pandas-Projekts, bietet Datenanalyse mit Python einen praktischen Einstieg in die Data-Science-Tools von Python. Das Buch eignet sich sowohl für Datenanalysten, für die Python Neuland ist, als auch für Python-Programmierer, die sich in Data Science und*



*Scientific Computing* einarbeiten wollen. Daten und zugehöriges Material des Buchs sind auf GitHub verfügbar. Aus dem Inhalt: Nutzen Sie die IPython-Shell und Jupyter Notebook für das explorative Computing Lernen Sie Grundfunktionen und fortgeschrittene Features von NumPy kennen Setzen Sie die Datenanalyse-Tools der pandasBibliothek ein Verwenden Sie flexible Werkzeuge zum Laden, Bereinigen, Transformieren, Zusammenführen und Umformen von Daten Erstellen Sie interformative Visualisierungen mit matplotlib Wenden Sie die GroupBy-Mechanismen von pandas an, um Datensätzen zurechtzuschneiden, umzugestalten und zusammenzufassen Analysieren und manipulieren Sie verschiedenste Zeitreihen-Daten Für diese aktualisierte 2. Auflage wurde der gesamte Code an Python 3.6 und die neuesten Versionen der pandas-Bibliothek angepasst. Neu in dieser Auflage: Informationen zu fortgeschrittenen pandas-Tools sowie eine kurze Einführung in statsmodels und scikit-learn.

- Bewährte Verfahren, Tipps und Tricks für robusten, leistungsfähigen und wartungsfreundlichen Code
- Grundlegende Aufgaben besser und effektiver erledigen
- Lösungen für das Debuggen, Testen und Optimieren zur Verbesserung von Qualität und Performance

Der Einstieg in die Python-Programmierung ist einfach, daher ist die Sprache auch so beliebt. Pythons einzigartige Stärken und Ausdrucksmöglichkeiten sind allerdings nicht immer offensichtlich. Zudem gibt es diverse verborgene Fallstricke, über die man leicht stolpern kann. Dieses Buch vermittelt insbesondere eine Python-typische Herangehensweise an die Programmierung. Brett Slatkin nutzt dabei die Vorzüge von Python zum Schreiben von außerordentlich stabilem und

*schnellem Code. Er stellt 90 bewährte Verfahren, Tipps und Tricks vor, die er anhand praxisnaher Codebeispiele erläutert. Er setzt dabei den kompakten, an Fallbeispielen orientierten Stil von Scott Meyers populärem Buch »Effektiv C++ programmieren« ein. Auf Basis seiner jahrelangen Erfahrung mit der Python-Infrastruktur bei Google demonstriert Slatkin weniger bekannte Eigenarten und Sprachelemente, die großen Einfluss auf das Verhalten des Codes und die Performance haben. Sie erfahren, wie sich grundlegende Aufgaben am besten erledigen lassen, damit Sie leichter verständlichen, wartungsfreundlicheren und einfach zu verbessernden Code schreiben können.*

*Programming Python Powerful Object-Oriented  
Programming "O'Reilly Media, Inc."*

*"It's easy to start writing code with Python: that's why the language is so immensely popular. However, Python has unique strengths, charms, and expressivity that can be hard to grasp at first -- as well as hidden pitfalls that can easily trip you up if you aren't aware of them. Effective Python will help you harness the full power of Python to write exceptionally robust, efficient, maintainable, and well-performing code. Utilizing the concise, scenario-driven style pioneered in Scott Meyers's best-selling Effective C++, Brett Slatkin brings together 53 Python best practices, tips, shortcuts, and realistic code examples from expert programmers. Through realistic examples, Slatkin uncovers little-known Python quirks, intricacies, and idioms that powerfully impact code behavior and performance. You'll learn how to choose the most efficient and effective way to accomplish key tasks when multiple options exist, and how to write code that's easier to understand, maintain, and improve. Drawing on his deep*

*understanding of Python's capabilities, Slatkin offers practical advice for each major area of development with both Python 3.x and Python 2.x. Coverage includes: \* Algorithms \* Objects \* Concurrency \* Collaboration \* Built-in modules \* Production techniques \* And more Each section contains specific, actionable guidelines organized into items, each with carefully worded advice supported by detailed technical arguments and illuminating examples. Using Effective Python, you can systematically improve all the Python code you write: not by blindly following rules or mimicking incomprehensible idioms, but by gaining a deep understanding of the technical reasons why they make sense."--[Source inconnue].*

*Learning Python for Forensics*

*Effektiv Python programmieren*

*The Python 3 Standard Library by Example*

*Programming Python*

*Python for Data Analysis*

*75 Python automation ideas for web scraping, data wrangling, and processing Excel, reports, emails, and more, 2nd Edition*  
*Python????????????? ??????????????????????*

***Python es el mejor lenguaje de programación tanto para novatos como para veteranos. Es usado en empresas y start-ups de primer nivel, y cada día es más demandado y reconocido mundialmente. Gracias a su carácter polivalente, Python se emplea en las FANG (Facebook, Amazon, Netflix y Google), en scripts simples, aplicaciones de domótica, programación de aplicaciones de escritorio o aplicaciones web complejas que soportan miles de usuarios por segundo, como Instagram o YouTube. Si quiere conocer a fondo este maravilloso lenguaje de programación, aprender a programar en un lenguaje de primer nivel y expandir su conocimiento***

**sobre los lenguajes que conoce, este es su libro. En él se exploran todo tipo de conceptos sobre Python: - Orígenes y evolución del lenguaje. - Conceptos fundamentales de programación: tipos y estructuras de datos, funciones, generadores, decoradores, excepciones, etc. - Programación orientada a objetos en Python. - Programación funcional. - Creación de scripts. - Manejo de bases de datos de diferentes tipos (SQL y noSQL) y ejemplos prácticos de cada una. - Gestión de dependencias, creación y manipulación de paquetes de Python. Asimismo, en este libro encontrará todo lo que necesita para ir un paso más allá y expandir su conocimiento, pues comprende los conceptos esenciales sobre protocolos de Internet, paralelismo y concurrencia en Python, desarrollo de aplicaciones web o de aplicaciones de escritorio, entre otros. Todo ello se acompaña de una aplicación de ejemplo, explicada de forma clara y extensa en cada apartado. Además, el libro cuenta con multitud de casos e incluye un repositorio de código para entrar en profundidad en los ejemplos desarrollado. Si quiere conocer todo el potencial que ofrece este lenguaje, mejorar su conocimiento y aumentar sus cualidades como programador, no lo dude, este libro le guiará en el camino para convertirse en pythonista. Óscar Ramírez es ingeniero en Informática y pythonista experimentado, que ha orientado su carrera profesional al desarrollo de aplicaciones en Python en múltiples campos desde 2013. Ha contribuido al desarrollo de proyectos en empresas privadas y de software libre en proyectos como Apertium o Django. Es también autor del sitio web [www.elpythonista.com](http://www.elpythonista.com) y conferenciante en eventos de programación nacionales e internacionales, como PyConEs o Codemotion. Provides information and tutorials on Python's**

***application domains and its use in databases, networking, scripting layers, and text processing. Solve business problems with data-driven techniques and easy-to-follow Python examples KEY FEATURES ? Essential coverage on statistics and data science techniques. ? Exposure to Jupyter, PyCharm, and use of GitHub. ? Real use-cases, best practices, and smart techniques on the use of data science for data applications. DESCRIPTION This book begins with an introduction to Data Science followed by the Python concepts. The readers will understand how to interact with various database and Statistics concepts with their Python implementations. You will learn how to import various types of data in Python, which is the first step of the data analysis process. Once you become comfortable with data importing, you will clean the dataset and after that will gain an understanding about various visualization charts. This book focuses on how to apply feature engineering techniques to make your data more valuable to an algorithm. The readers will get to know various Machine Learning Algorithms, concepts, Time Series data, and a few real-world case studies. This book also presents some best practices that will help you to be industry-ready. This book focuses on how to practice data science techniques while learning their concepts using Python and Jupyter. This book is a complete answer to the most common question that how can you get started with Data Science instead of explaining Mathematics and Statistics behind the Machine Learning Algorithms. WHAT YOU WILL LEARN ? Rapid understanding of Python concepts for data science applications. ? Understand and practice how to run data analysis with data science techniques and algorithms. ? Learn feature engineering, dealing with different***

**datasets, and most trending machine learning algorithms. ? Become self-sufficient to perform data science tasks with the best tools and techniques. WHO THIS BOOK IS FOR This book is for a beginner or an experienced professional who is thinking about a career or a career switch to Data Science. Each chapter contains easy-to-follow Python examples. TABLE OF CONTENTS**

- 1. Data Science Fundamentals**
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**Einführung in alle Sprachgrundlagen: Klassen, Objekte, Vererbung, Kollektionen, Dictionaries**  
**Benutzungsoberflächen und Multimediaanwendungen mit PyQt, Datenbanken, XML und Internet-Programmierung mit CGI, WSGI und Django**  
**Wissenschaftliches Rechnen mit NumPy, parallele Verarbeitung großer Datenmengen, Datenvisualisierung mit Matplotlib** Übungen mit Musterlösungen zu jedem Kapitel Die Skriptsprache Python ist mit ihrer einfachen Syntax hervorragend für Einsteiger geeignet, um modernes Programmieren zu lernen. Mit diesem Buch erhalten Sie einen umfassenden Einstieg in Python 3 und lernen darüber hinaus auch weiterführende Anwendungsmöglichkeiten kennen. Michael Weigend

***behandelt Python von Grund auf und erläutert die wesentlichen Sprachelemente. Er geht dabei besonders auf die Anwendung von Konzepten der objektorientierten Programmierung ein. Insgesamt liegt der Schwerpunkt auf der praktischen Arbeit mit Python. Ziel ist es, die wesentlichen Techniken und dahinterstehenden Ideen anhand zahlreicher anschaulicher Beispiele verständlich zu machen. Zu typischen Problemstellungen werden Schritt für Schritt Lösungen erarbeitet. So erlernen Sie praxisorientiert die Programmentwicklung mit Python und die Anwendung von Konzepten der objektorientierten Programmierung.***

***Alle Kapitel enden mit einfachen und komplexen Übungsaufgaben mit vollständigen Musterlösungen. Das Buch behandelt die Grundlagen von Python 3 (Version 3.7) und zusätzlich auch weiterführende Themen wie die Gestaltung grafischer Benutzungsoberflächen mit tkinter und PyQt, Threads und Multiprocessing, Internet-Programmierung, CGI, WSGI und Django, automatisiertes Testen, Datenmodellierung mit XML und JSON, Datenbanken, Datenvisualisierung mit Matplotlib und wissenschaftliches Rechnen mit NumPy. Der Autor wendet sich sowohl an Einsteiger als auch an Leser, die bereits mit einer höheren Programmiersprache vertraut sind. Aus dem Inhalt: Datentypen, Kontrollstrukturen, Funktionen, Generatoren Modellieren mit Sequenzen, Dictionaries und Mengen Klassen, Objekte, Vererbung, Polymorphie Module nutzen und auf PyPI veröffentlichen Zeichenketten und reguläre Ausdrücke Datenmodellierung, Datenbanken, XML und JSON Grafische Benutzungsoberflächen mit tkinter und PyQt Threads und Events, Bildverarbeitung mit PIL Systemfunktionen, Testen und Performance-Analyse***

*CGI, WSGI und Rapid Web-Development mit Django*  
*Wissenschaftliche Projekte mit NumPy*  
*Datenvisualisierung mit Matplotlib und*  
*Messwerterfassung Parallele Programmierung: Pipes,*  
*Queues, Pools*  
*Apprendre à programmer avec Python 3*  
*Creating and Deploying Deep Learning Applications*  
*Python*  
*Data Science with Jupyter*  
*Effective Python*  
*Python 3*  
*Write scripts and automate them for real-world*  
*administration tasks using Python*

**This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Master the Powerful Python 3 Standard Library through Real Code Examples “The genius of Doug’s approach is that with 15 minutes per week, any motivated programmer can learn the Python Standard Library. Doug’s guided tour will help you flip the switch to fully power-up Python’s batteries.” -Raymond Hettinger, Distinguished Python Core Developer The Python 3 Standard Library contains hundreds of modules for interacting with the operating system, interpreter, and Internet-all extensively tested and ready**



**to jump-start application development. Now, Python expert Doug Hellmann introduces every major area of the Python 3.x library through concise source code and output examples. Hellmann's examples fully demonstrate each feature and are designed for easy learning and reuse. You'll find practical code for working with text, data structures, algorithms, dates/times, math, the file system, persistence, data exchange, compression, archiving, crypto, processes/threads, networking, Internet capabilities, email, developer and language tools, the runtime, packages, and more. Each section fully covers one module, with links to additional resources, making this book an ideal tutorial and reference. The Python 3 Standard Library by Example introduces Python 3.x's new libraries, significant functionality changes, and new layout and naming conventions. Hellmann also provides expert porting guidance for moving code from 2.x Python standard library modules to their Python 3.x equivalents. Manipulate text with string, textwrap, re (regular expressions), and difflib Use data**

**structures: enum, collections, array, heapq, queue, struct, copy, and more  
Implement algorithms elegantly and concisely with functools, itertools, and contextlib  
Handle dates/times and advanced mathematical tasks  
Archive and data compression  
Understand data exchange and persistence, including json, dbm, and sqlite  
Sign and verify messages cryptographically  
Manage concurrent operations with processes and threads  
Test, debug, compile, profile, language, import, and package tools  
Control interaction at runtime with interpreters or the environment**

**É fácil começar a programar em Python, e esse é o motivo de a linguagem ser tão popular. Contudo, os pontos fortes, aspectos belos e expressividade únicos do Python podem ser um tanto difíceis de entender, e há armadilhas que podem fazer tropeçar o programador desavisado. Python Eficaz ajudará o leitor a dominar o mais verdadeiro estilo "pythônico" da arte de programar, empregando todo o potencial do Python para escrever códigos robustos e de desempenho exemplar. Usando o estilo conciso e baseado em cenários, visto no**

**best-seller C++ Eficaz, de Scott Meyers, o autor Brett Slatkin reúne 59 das melhores práticas e dicas em Python, e as explica com exemplos realistas de código. Com anos de experiência ajudando a construir a infraestrutura do Google em Python, Slatkin revela trechos simples de código e peculiaridades da linguagem que causam profundo impacto no comportamento e desempenho do código. Serão mostradas as melhores maneiras de realizar tarefas cruciais e, dessa forma, escrever códigos fáceis de entender, manter e aprimorar. O livro inclui Instruções práticas para todas as principais áreas de desenvolvimento em Python 3.x e 2.x, com explicações detalhadas e exemplos**

**Melhores práticas para escrever funções claras, que incentivam sua reutilização e evitam erros**

**Explicação sobre como expressar comportamentos com precisão usando classes e objetos**

**Orientação para evitar armadilhas com metaclasses e atributos dinâmicos**

**Abordagem mais eficiente para implementar simultaneidade e paralelismo**

**Técnicas e expressões mais adequadas para uso dos módulos nativos do Python**

**Ferramentas e melhores**

**práticas para o desenvolvimento colaborativo Soluções para depuração, testes e otimização de forma a melhorar a qualidade e o desempenho**  
**Learn the art of designing, developing, and deploying innovative forensic solutions through Python About This Book This practical guide will help you solve forensic dilemmas through the development of Python scripts Analyze Python scripts to extract metadata and investigate forensic artifacts Master the skills of parsing complex data structures by taking advantage of Python libraries Who This Book Is For If you are a forensics student, hobbyist, or professional that is seeking to increase your understanding in forensics through the use of a programming language, then this book is for you. You are not required to have previous experience in programming to learn and master the content within this book. This material, created by forensic professionals, was written with a unique perspective and understanding of examiners who wish to learn programming What You Will Learn Discover how to perform Python script development Update yourself by learning**

**the best practices in forensic programming Build scripts through an iterative design Explore the rapid development of specialized scripts Understand how to leverage forensic libraries developed by the community Design flexibly to accommodate present and future hurdles Conduct effective and efficient investigations through programmatic pre-analysis Discover how to transform raw data into customized reports and visualizations In Detail This book will illustrate how and why you should learn Python to strengthen your analysis skills and efficiency as you creatively solve real-world problems through instruction-based tutorials. The tutorials use an interactive design, giving you experience of the development process so you gain a better understanding of what it means to be a forensic developer. Each chapter walks you through a forensic artifact and one or more methods to analyze the evidence. It also provides reasons why one method may be advantageous over another. We cover common digital forensics and incident response scenarios, with scripts that can be used**

**to tackle case work in the field. Using built-in and community-sourced libraries, you will improve your problem solving skills with the addition of the Python scripting language. In addition, we provide resources for further exploration of each script so you can understand what further purposes Python can serve. With this knowledge, you can rapidly develop and deploy solutions to identify critical information and fine-tune your skill set as an examiner. Style and approach The book begins by instructing you on the basics of Python, followed by chapters that include scripts targeted for forensic casework. Each script is described step by step at an introductory level, providing gradual growth to demonstrate the available functionalities of Python. 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 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**
- 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**

**Learning Python**

**los fundamentos del lenguaje**

**DevOps in Python**

**Pyth 3 Stan Libr Exam \_2**

**59 maneiras de programar melhor em**

**Python**

**Программирование на языке высокого**

**уровня Python 3-е изд., пер. и доп.**

**Учебное пособие для СПО**

**Das Python-Praxisbuch**

"Based on author Mark Lutz's popular training course, this updated fifth edition will help you quickly write efficient, high-quality code with Python. It's an ideal way to begin, whether you're new to programming or a professional developer versed in other languages."--Provided by publisher.

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Python è un linguaggio di programmazione multiplatforma, robusto e maturo, a cui si affidano le più prestigiose aziende e organizzazioni a livello mondiale, come Google, la NASA, YouTube, Intel e Yahoo! Il suo successo è legato sia al fatto che favorisce la produttività, rendendo semplice lo sviluppo di sistemi software anche molto complessi, sia al fatto che ha molteplici ambiti di utilizzo: applicazioni web, giochi e multimedia, interfacce grafiche, networking, applicazioni scientifiche, intelligenza artificiale, programmazione di sistema e tanto altro ancora. Questo libro è la più completa, moderna e dettagliata guida a Python attualmente disponibile, aggiornata all'ultima release del linguaggio (Python 3.4) rilasciata nel gennaio 2014. La trattazione è molto dettagliata e segue un percorso graduale costruito attorno a una ricca serie di esempi ed esercizi: si parte dalle basi del linguaggio, senza dare nulla per scontato, sino ad arrivare agli argomenti considerati ostici anche

dai programmatori più esperti.

Programmare con Python

A Hacker's Guide to Solving Problems  
with Code

Guida completa

Mastering Python Scripting for System  
Administrators

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Python Automation Cookbook

Második kiadás

Easy to understand and fun to read, this updated edition of *Introducing Python* is ideal for beginning programmers as well as those new to the language. Author Bill Lubanovic takes you from the basics to more involved and varied topics, mixing tutorials with cookbook-style code recipes to explain concepts in Python 3. End-of-chapter exercises help you practice what you've learned. You'll gain a strong foundation in the language, including best practices for testing, debugging, code reuse, and other development tips. This book also shows you how to use Python for applications in business, science, and the arts, using various Python tools and open source packages.

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Master the secret tools every Python programmer needs to know Professional Python goes beyond the basics to teach beginner- and intermediate-level Python programmers the little-known tools and constructs that build concise, maintainable code. Design better architecture and write easy-to-understand code using highly adoptable techniques that result in more robust and efficient applications. Coverage includes Decorators, Context Managers, Magic Methods, Class Factories, Metaclasses, Regular

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Expressions, and more, including advanced methods for unit testing using asynio and CLI tools. Each topic includes an explanation of the concept and a discussion on applications, followed by hands-on tutorials based on real-world scenarios. The "Python 3 first" approach covers multiple current versions, while ensuring long-term relevance. Python offers many tools and techniques for writing better code, but often confusing documentation leaves many programmers in the dark about how to use them. This book shines a light on these incredibly useful methods, giving you clear guidance toward building stronger applications. Learn advanced Python functions, classes, and libraries Utilize better development and testing tools Understand the "what," "when," "why," and "how" More than just theory or a recipe-style walk-through, this guide helps you learn — and understand — these little-known tools and techniques. You'll streamline your workflow while improving the quality of your output, producing more robust applications with cleaner code and stronger architecture. If you're ready to take your Python skills to the next level, Professional Python is the invaluable guide that will get you there.

Step-by-step guide to practising data science techniques with Jupyter notebooks

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Modern businesses are awash with data, making data driven decision-making tasks increasingly complex. As a result, relevant technical expertise and analytical skills are required to do such tasks. This book aims to equip you with just enough knowledge of Python in conjunction with skills to use powerful tool such as Jupyter Notebook in order to succeed in the role of a data scientist. The book starts with a brief introduction to the world of data science and the opportunities you may come across along with an overview of the key topics covered in the book. You will learn how to setup Anaconda installation which comes with Jupyter and preinstalled Python packages. Before diving in to several supervised, unsupervised and other machine learning techniques, you'll learn how to use basic data structures, functions, libraries and packages required to import, clean, visualize and process data. Several machine learning techniques such as regression, classification, clustering, time-series etc have been explained with the use of practical examples and by comparing the performance of various models. By the end of the book, you will come across few case studies to put your knowledge to practice and solve real-life business problems such as building a movie recommendation engine, classifying spam messages, predicting the

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ability of a borrower to repay loan on time and time series forecasting of housing prices. Remember to practice additional examples provided in the code bundle of the book to master these techniques.

**Audience** The book is intended for anyone looking for a career in data science, all aspiring data scientists who want to learn the most powerful programming language in Machine Learning or working professionals who want to switch their career in Data Science. While no prior knowledge of Data Science or related technologies is assumed, it will be helpful to have some programming experience.

**Key Features**

- Acquire Python skills to do independent data science projects
- Learn the basics of linear algebra and statistical science in Python way
- Understand how and when they're used in data science
- Build predictive models, tune their parameters and analyze performance in few steps
- Cluster, transform, visualize, and extract insights from unlabelled datasets
- Learn how to use matplotlib and seaborn for data visualization
- Implement and save machine learning models for real-world business scenarios

**Table of Contents**

- 1 ) Data Science Fundamentals
- 2 ) Installing Software and Setting up
- 3 ) Lists and Dictionaries
- 4 ) Function and Packages
- 5 ) NumPy Foundation
- 6 ) Pandas and Dataframe
- 7 ) Interacting with Databases
- 8 )

Thinking Statistically in Data Science 9 ) How to import data in Python? 10 ) Cleaning of imported data 11 ) Data Visualization 12 ) Data Pre-processing 13 ) Supervised Machine Learning 14 ) Unsupervised Machine Learning 15 ) Handling Time-Series Data 16 ) Time-Series Methods 17 ) Case Study – 1 18 ) Case Study – 2 19 ) Case Study – 3 20 ) Case Study – 4

Extending Power BI with Python and R Explore Data Cleaning, Pre-processing, Data Wrangling, Feature Engineering and Machine Learning using Python and Jupyter (English Edition)

Python 2 and 3 Compatibility

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Auswertung von Daten mit Pandas, NumPy und IPython

Becoming an Enterprise Django Developer

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**создания программ, а также заданиями для самостоятельного выполнения, позволяющими сформировать у студентов практические навыки программирования. Пособие соответствует актуальным требованиям Федерального государственного образовательного стандарта высшего образования. Для студентов высших учебных заведений, обучающихся по инженерно-техническим направлениям.**

**Get the definitive handbook for manipulating, processing, cleaning, and crunching datasets in Python. Updated for Python 3.9 and pandas 1.2, the third 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, 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 Jupyter notebook and IPython shell for exploratory computing**

**Learn basic and advanced features in NumPy**

**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**

**Ingest, transform, enrich, and visualize data using the power of analytical languages**

**Как устроен Python. Гид для разработчиков,  
программистов и интересующихся**

**Datenanalyse mit Python**

**59 Specific Ways to Write Better Python**

**Master Data Science skills with easy-to-follow Python  
examples**

**Der große Profi-Leitfaden für Programmierer  
With Six and Python-Future Libraries**

A Python web developer's guide to exploring the Django development lifecycle - beyond the basics Key Features Expert tips to help you use the right packages, tools, and libraries and understand their scope for your project Gain a thorough understanding of the essential components that comprise a large-scale Python web app Learn best practices for creating a project structure for better performance Book Description Django is a powerful framework but choosing the right add-ons that match the scale and scope of your enterprise projects can be tricky. This book will help you explore the multifarious options available for enterprise Django development. Countless organizations are already using Django and more migrating to it, unleashing the power of Python with many different packages and dependencies, including AI technologies. This practical guide will help you understand practices, blueprints, and design decisions to put Django to work

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the way you want it to. You'll learn various ways in which data can be rendered onto a page and discover the power of Django for large-scale production applications. Starting with the basics of getting an enterprise project up and running, you'll get to grips with maintaining the project throughout its lifecycle while learning what the Django application lifecycle is. By the end of this book, you'll have learned how to build and deploy a Django project to the web and implement various components into the site. What you will learn

- Use Django to develop enterprise-level apps to help scale your business
- Understand the steps and tools used to scale up a proof-of-concept project to production without going too deep into specific technologies
- Explore core Django components and how to use them in different ways to suit your app's needs
- Find out how Django allows you to build RESTful APIs
- Extract, parse, and migrate data from an old database system to a new system with Django and Python
- Write and run a test using the built-in testing tools in Django

Who this book is for This book is for Django developers who want to learn the full-stack enterprise app development lifecycle. If you are a Python web developer looking to learn how to

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maintain a production website and explore Django beyond the basics, this book is for you. The book assumes intermediate-level knowledge of Python programming and the Django framework.

Get a firm grip on the core processes including browser automation, web scraping, Word, Excel, and GUI automation with Python 3.8 and higher

**Key Features**

- Automate integral business processes such as report generation, email marketing, and lead generation
- Explore automated code testing and Python's growth in data science and AI automation in three new chapters
- Understand techniques to extract information and generate appealing graphs, and reports with Matplotlib

**Book Description**

In this updated and extended version of Python Automation Cookbook, each chapter now comprises the newest recipes and is revised to align with Python 3.8 and higher. The book includes three new chapters that focus on using Python for test automation, machine learning projects, and for working with messy data. This edition will enable you to develop a sharp understanding of the fundamentals required to automate business processes through real-world tasks, such as developing your first web scraping application, analyzing information to generate

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spreadsheet reports with graphs, and communicating with automatically generated emails. Once you grasp the basics, you will acquire the practical knowledge to create stunning graphs and charts using Matplotlib, generate rich graphics with relevant information, automate marketing campaigns, build machine learning projects, and execute debugging techniques. By the end of this book, you will be proficient in identifying monotonous tasks and resolving process inefficiencies to produce superior and reliable systems. What you will learn

Learn data wrangling with Python and Pandas for your data science and AI projects

Automate tasks such as text classification, email filtering, and web scraping with Python

Use Matplotlib to generate a variety of stunning graphs, charts, and maps

Automate a range of report generation tasks, from sending SMS and email campaigns to creating templates, adding images in Word, and even encrypting PDFs

Master web scraping and web crawling of popular file formats and directories with tools like BeautifulSoup

Build cool projects such as a Telegram bot for your marketing campaign, a reader from a news RSS feed, and a machine learning model to classify emails to the correct department based on their

contentCreate fire-and-forget automation tasks by writing cron jobs, log files, and regexes with Python scriptingWho this book is for Python Automation Cookbook - Second Edition is for developers, data enthusiasts or anyone who wants to automate monotonous manual tasks related to business processes such as finance, sales, and HR, among others. Working knowledge of Python is all you need to get started with this book.

Discover clean ways to write code that will run on both Python 2 and 3.This book is tutorial-oriented with detailed examples of how to convert existing Python 2-compatible code to code that will run reliably on both Python 2 and 3. Although Python 3 is considered the future of Python, Python 2.x will be maintained for several more years, alongside Python 3, which is not backwards compatible. For those who need to support both versions, this book guides you through the process. Python 2 and 3 Compatibility explains the syntactical differences between Python 2 and 3, and how to use Python packages Python-Future and Six to implement neutral compatibility. Developers working on either small, medium, or large projects will appreciate the author's clear explanations, detailed examples, and clean techniques to

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help them extend support for both versions to their existing Python 2-compatible projects. What You'll Learn Understand the syntactical differences between Python 2 and 3 Use the Six and Future libraries Review the new features in Python 3 Choose which Python versions to support when doing neutral support Decide on whether to port or provide support for both versions Who This Book Is For Professional Python developers and enthusiasts that want to implement Python 3 support for their existing Python 2 compatible code.

A könyv kitűzött célja, hogy elvezesse az Olvasót a Python nyelven történő programozáshoz nélkülözhetetlenül szükséges számítástechnikai alapismeretektől olyan tudásszintig, amellyel önállóan meg tud írni konzolos vagy grafikus felhasználói felülettel rendelkező teljes értékű asztali alkalmazást. A könyv teljesen az alapoktól indul, és az egyes fejezetek egymásra épülnek. Ezért a számítógépes programozással és a Python nyelvvel megismerkedni kívánó kezdők tankönyvként használhatják. Éppen ezért, hasznos lehet középiskolai, egyetemi és tanfolyami hallgatóknak vagy hobbi programozóknak. Ugyanakkor, mivel a közölt ismeretanyag fokozatosan mélyül, és a nyelv



használatának egyre finomabb részleteibe is elvezet, ezért ajánlott oktatóknak, szoftverfejlesztőknek, mérnököknek, adatelemzőknek és mesterséges intelligenciával foglalkozóknak egyaránt. A haladóbb szintű Olvasókat a könyv oly módon segíti, hogy nem csak a Pythonba bevezető szakkönyvként, hanem kézikönyvként is használható. Ez utóbbi azt jelenti, hogy ha a programozói munka során bizonyos nyelvi elemekkel, azok egyes részletével kapcsolatban kérdés merül fel, akkor vissza lehet keresni és újra elolvasni. Ez a hivatalos dokumentáció értelmezését is megkönnyíti. Annyiban viszont nem kézikönyvről van szó, hogy nem egy tömör nyelvi összefoglaló, hiszen az elsődleges cél az alapelvek és koncepciók biztos megértése, a nyelvi tudás fokozatos elsajátítása, valamint saját Python programok megalkotásában megnyilvánuló gyakorlati alkalmazói tudás megszerzése. Az ismeretek könnyebb elsajátítása és rögzülése érdekében a számos ábra, diagram és táblázat mellett való életből vett egyszerű hasonlatok és metaforák is kerültek több helyen a szövegbe. Ezek elsősorban azon részeknél szerepelnek, amelyek alapvető elvi vagy koncepcionális tartalommal bírnak, és ezért megértésük különösen fontos a

továbbhaladáshoz. Ami a tartalmat illeti, a programozás és szoftverfejlesztés fontosabb alapelvei mellett a Python nyelv azon része került ismertetésre, amely valószínűleg nem, vagy nem jelentősen változik a jövőben, így a könyv hosszabb időn keresztül tudja szolgálni az olvasóját. Az Olvasó fokozatosan ismerkedhet meg olyan fontos fogalmakkal és nyelvi koncepciókkal, mint például az objektum, konténer, iterátor és generátor, függvény és korutin, függvény- és osztálydekorátor, closure, osztály, absztrakt osztály, mixin osztály, adatosztály, protokoll, adat- és metódusattribútum, metódusfeloldási sorrend, tulajdonság, attribútum-leíró, egyszeres és többszörös öröklés, modul, csomag, polimorfizmus, statikus és dinamikus típuskezelés, erős és gyenge típusosság, típusutalások és ezeken alapuló statikus típusellenőrzés. Az alapvető nyelvi építőelemek és szerkezetek mellett a szabványos könyvtár számos, gyakran használt modulja is bemutatásra kerül egy-egy problémakörhöz kapcsolódóan. Ennek során olyan modulok részletes ismertetése is megtörténik, amelyek a hivatalos dokumentációból nem biztos, hogy mindenki számára könnyen értelmezhetőek, mint például a pontos matematikai számításokat támogató

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decimal és a grafikus felhasználói felület készítését lehetővé tevő tkinter modul. Az Olvasó tehát egyetlen könyvben koherens és konzisztens felépítésben lényegében három könyv anyagát kapja: alapvető koncepciók és nyelvi építőelemek ismertetése, szabványos könyvtár gyakran használt általános moduljainak használata, valamint grafikus felhasználó felület készítése.

Do it! □□ □ □□□

Tratamento de dados com Pandas, NumPy e IPython

Modern Computing in Simple Packages

Python tudásépítés lépcsőről lépésre az alapoktól az első asztali alkalmazásig

Discover best practices, tooling, and solutions for writing and organizing Django applications in production

Introducing Python

90 Wege für bessere Python-Programme

Obtenha instruções completas para manipular, processar, limpar e extrair informações de conjuntos de dados em Python. Atualizada para Python 3.6, este guia prático está repleto de casos de estudo práticos que mostram como resolver um amplo conjunto de problemas de análise de dados de forma eficiente. Você conhecerá as versões mais recentes do pandas, da NumPy, do IPython e do Jupyter no processo. Escrito por Wes McKinney, criador do projeto Python pandas, este livro contém uma introdução prática e moderna às

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ferramentas de ciência de dados em Python. É ideal para analistas, para quem Python é uma novidade, e para programadores Python iniciantes nas áreas de ciência de dados e processamento científico. Os arquivos de dados e materiais relacionados ao livro estão disponíveis no GitHub. Utilize o shell IPython e o Jupyter Notebook para processamentos exploratórios; • conheça os recursos básicos e avançados da NumPy (Numerical Python); • comece a trabalhar com ferramentas de análise de dados da biblioteca pandas; • utilize ferramentas flexíveis para carregar, limpar, transformar, combinar e reformatar dados; • crie visualizações informativas com a matplotlib; • aplique o recurso groupby do pandas para processar e sintetizar conjuntos de dados; • analise e manipule dados de séries temporais regulares e irregulares; • aprenda a resolver problemas de análise de dados do mundo real com exemplos completos e detalhados.

Explore and apply best practices for efficient application deployment. This book draws upon author Moshe Zadka's years of Dev Ops experience and focuses on the parts of Python, and the Python ecosystem, that are relevant for DevOps engineers. You'll start by writing command-line scripts and automating simple DevOps-style tasks. You'll then move on to more advanced cases, like using Jupyter as an auditable remote-control panel, and writing Ansible and Salt extensions. This work also covers how to use the AWS API to manage cloud infrastructure, and how to manage Python programs and environments on remote machines. Python was invented as a systems management language for distributed operating systems, which makes it an ideal tool for DevOps. Assuming a basic understanding of Python concepts, this



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