

# Python The Python Quickstart Guide The Ultimate Guide To Python Programming

Python is a remarkably powerful dynamic programming language used in a wide variety of situations such as Web, database access, desktop GUIs, game and software development, and network programming. Fans of Python use the phrase "batteries included" to describe the standard library, which covers everything from asynchronous processing to zip files. The language itself is a flexible powerhouse that can handle practically any application domain. This task-based tutorial on Python is for those new to the language and walks you through the fundamentals. You'll learn about arithmetic, strings, and variables; writing programs; flow of control, functions; strings; data structures; input and output; and exception handling. At the end of the book, a special section walks you through a longer, realistic application, tying the concepts of the book together.

Leverage the power of Tensorflow to Create powerful software agents that can self-learn to perform real-world tasks Key Features Explore efficient Reinforcement Learning algorithms and code them using TensorFlow and Python Train Reinforcement Learning agents for problems, ranging from computer games to autonomous driving. Formulate and devise selective algorithms and techniques in your applications in no time. Book Description Advances in reinforcement learning algorithms have made it possible to use them for optimal

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control in several different industrial applications. With this book, you will apply Reinforcement Learning to a range of problems, from computer games to autonomous driving. The book starts by introducing you to essential Reinforcement Learning concepts such as agents, environments, rewards, and advantage functions. You will also master the distinctions between on-policy and off-policy algorithms, as well as model-free and model-based algorithms. You will also learn about several Reinforcement Learning algorithms, such as SARSA, Deep Q-Networks (DQN), Deep Deterministic Policy Gradients (DDPG), Asynchronous Advantage Actor-Critic (A3C), Trust Region Policy Optimization (TRPO), and Proximal Policy Optimization (PPO). The book will also show you how to code these algorithms in TensorFlow and Python and apply them to solve computer games from OpenAI Gym. Finally, you will also learn how to train a car to drive autonomously in the Torcs racing car simulator. By the end of the book, you will be able to design, build, train, and evaluate feed-forward neural networks and convolutional neural networks. You will also have mastered coding state-of-the-art algorithms and also training agents for various control problems. What you will learn Understand the theory and concepts behind modern Reinforcement Learning algorithms Code state-of-the-art Reinforcement Learning algorithms with discrete or continuous actions Develop Reinforcement Learning algorithms and apply them to training agents to play computer games Explore DQN, DDQN, and Dueling architectures to play Atari's Breakout using TensorFlow Use A3C to play CartPole

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and LunarLander Train an agent to drive a car autonomously in a simulator Who this book is for Data scientists and AI developers who wish to quickly get started with training effective reinforcement learning models in TensorFlow will find this book very useful. Prior knowledge of machine learning and deep learning concepts (as well as exposure to Python programming) will be useful.

Named after the Monty Python comedy troupe, Python is an interpreted, open-source, object-oriented programming language. It's also free and runs portably on Windows, Mac OS, Unix, and other operating systems. Python can be used for all manner of programming tasks, from CGI scripts to full-fledged applications. It is gaining popularity among programmers in part because it is easier to read (and hence, debug) than most other programming languages, and it's generally simpler to install, learn, and use. Its line structure forces consistent indentation. Its syntax and semantics make it suitable for simple scripts and large programs. Its flexible data structures and dynamic typing allow you to get a lot done in a few lines. To learn it, you'll need is some basic programming experience and a copy of Python: Visual QuickStart Guide. In patented Visual QuickStart Guide fashion, the book doesn't just tell you how to use Python to develop applications, it shows you, breaking Python into easy-to-digest, step-by-step tasks and providing example code. Python: Visual QuickStart Guide emphasizes the core language and libraries, which are the building blocks for programs. Author Chris Fehily starts with the basics - expressions,

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statements, numbers, strings - then moves on to lists, dictionaries, functions, and modules before wrapping things up with straightforward discussions of exceptions and classes. Some additional topics covered include: - Object-oriented programming- Working in multiple operating systems- Structuring large programs- Comparing Python to C, Perl, and Java- Handling errors gracefully.

There are many more people who want to study programming other than aspiring computer scientists with a passing grade in advanced calculus. This guide appeals to your intelligence and ability to solve practical problems, while gently teaching the most recent revision of the programming language Python. You can learn solid software design skills and accomplish practical programming tasks, like extending applications and automating everyday processes, even if you have no programming experience at all. Authors Tim Hall and J-P Stacey use everyday language to decode programming jargon and teach Python 3 to the absolute beginner.

"Have you always wanted to learn computer programming but are afraid it'll be too difficult for you? Or perhaps you know other programming languages but are interested in learning the Python language fast? This book is for you"--Page 4 of cover.

"THE BEST PYTHON BOOK FOR BEGINNERS IN 2021 - HANDS DOWN!" Be a pro with a step-by-step guide to learning Python programming and get real results. Python is a high-level, open-source programming language designed for use with a wide variety of

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operating systems. Due to its dynamic and diversified nature, it is regarded as the most robust programming language. With simple syntax, Python is easy-to-use and people who learn it for the first time find it very easy to catch the concepts. Having used pioneering websites such as YouTube, DropBox, Python is in high market demand. Get a copy of this book if you'd like to take full advantage of Python. Python Quickstart Guide, the book is combined with comprehensive traditional supplements and Jupyter Notebooks supplements, including the most recent coverage of subjects and applications. Real-world datasets and artificial intelligence technologies enable students to work on projects making a difference in an enterprise, government, industry and academia on projects that make a difference. This book (Python QuickStart Guide) is intended for practitioners, beginners, and hobbyists who want to learn and apply Python to solve difficult real-world issues. It will help if you already know common programming topics, such as variables, if-else statements, and functions, although this is a beginner's book. It is advantageous to have experience with another object-oriented application, but not mandatory.

Key Features

- \*What is Computer Programming
- \*Types of Programming Languages
- \*Choosing a Programming Language to Learn
- \*Reasons Why You Need to Use Python
- \*Step-by-Step Guide to Learn Python
- \*What is Python programming language?
- \*How to Install Python on Windows
- \* What I? Data?
- \*Python Data Type
- \*Namespaces And Scope In Python
- \*Structuring Python Programs
- \*Introduction To Math Functions In Python
- \*Control Flow Tools
- \*Python

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Exercises and many more. Grab your copy now!! Get a comprehensive, in-depth introduction to the core Python language with this hands-on book. Based on author Mark Lutz's popular training course, this updated fifth edition will help you quickly write efficient, high-quality code with Python. It's an ideal way to begin, whether you're new to programming or a professional developer versed in other languages. Complete with quizzes, exercises, and helpful illustrations, this easy-to-follow, self-paced tutorial gets you started with both Python 2.7 and 3.3—the latest releases in the 3.X and 2.X lines—plus all other releases in common use today. You'll also learn some advanced language features that recently have become more common in Python code. Explore Python's major built-in object types such as numbers, lists, and dictionaries Create and process objects with Python statements, and learn Python's general syntax model Use functions to avoid code redundancy and package code for reuse Organize statements, functions, and other tools into larger components with modules Dive into classes: Python's object-oriented programming tool for 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 guide to the Python computer language covers such topics as strings and variables, functions, data structures, exception handling, and object-oriented programming.

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The book serves as a first introduction to computer programming of scientific applications, using the high-level Python language. The exposition is example and problem-oriented, where the applications are taken from mathematics, numerical calculus, statistics, physics, biology and finance. The book teaches "Matlab-style" and procedural programming as well as object-oriented programming. High school mathematics is a required background and it is advantageous to study classical and numerical one-variable calculus in parallel with reading this book. Besides learning how to program computers, the reader will also learn how to solve mathematical problems, arising in various branches of science and engineering, with the aid of numerical methods and programming. By blending programming, mathematics and scientific applications, the book lays a solid foundation for practicing computational science. From the reviews: Langtangen ... does an excellent job of introducing programming as a set of skills in problem solving. He guides the reader into thinking properly about producing program logic and data structures for modeling real-world problems using objects and functions and embracing the object-oriented paradigm. ... Summing Up: Highly recommended. F. H. Wild III, Choice, Vol. 47 (8), April 2010 Those of us who have learned scientific programming in Python 'on the streets' could be a little jealous of students who have the opportunity to take a course out of Langtangen's Primer." John D. Cook, The Mathematical Association of America, September 2011 This book goes through Python in particular, and programming in general, via

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tasks that scientists will likely perform. It contains valuable information for students new to scientific computing and would be the perfect bridge between an introduction to programming and an advanced course on numerical methods or computational science. Alex Small, IEEE, CiSE Vol. 14 (2), March /April 2012 “This fourth edition is a wonderful, inclusive textbook that covers pretty much everything one needs to know to go from zero to fairly sophisticated scientific programming in Python...” Joan Horvath, Computing Reviews, March 2015

A simplified and elegantly crafted book, designed to turn you into an expert in no time! - Don't wait another minute and order your copy today! - Ready yourself to catapult your mind into the beautiful world of Python

Programming! Utilizing the updated version Mark Zack's, The Ultimate Python Quick Start Guide - From Beginner to Intermediate (Hands-on Projects, Machine Learning, Learn Coding Fast), you will be able to transcend yourself into: Learning a programming language that is just as versatile as Java or C++, while being much friendlier and accessible to new budding programmers! Familiarizing the different concepts of Python ranging from data modification, operator and mathematical manipulation, functions, method to the more advanced concepts of objects and classes. Knowing the importance of Python in today's corporate world and job market, and knows exactly how and where you will be able to use your newly found skills to shine in your life! Getting to know the most common challenges faced by programmers and tackle them with ease. Don't think

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about it any longer! Quickly go ahead and visit kindle through your PC, Mac, Tablet or Smartphone and take the first step to your success! After you have learned the language of Python, no more software developing firms or companies will ever show you the door out and you will exponentially increase your value in the job market! Scroll back and get your copy TODAY of The Ultimate Python Quick Start Guide and change the whole course of your destiny!

If you want to learn Python in one week (or less) and learn it well, with useful applications to Data Analysis, Machine Learning and Data Science, then keep reading. Python is one of the most beloved programming languages in any circle of programmers. Software engineers, hackers, and Data Scientists alike are in love with the versatility that Python has to offer. Besides, the Object-Oriented feature of Python coupled with its flexibility is also one of the major attractions for this language. That's the reason why Python is a perfect fit with Data Analysis, Machine Learning and Data Science. Data is the future. The world of technology as we know it is evolving towards an open-source platform where people share ideas freely. This is seen as the first step towards the decentralization of ideas and eliminating unnecessary monopolies. Therefore, the data, tools, and techniques used in the analysis are easily available for anyone to interpret data sets and get relevant explanations. The goal of this 4-in-1 bundle is simple: explaining everything you need to know to Master Python. With a special emphasis on the main steps that are needed to correctly implement Data Analysis and

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Machine Learning algorithms, In manuscript one, Python for Beginners, you will learn: How to install Python What are the different Python Data Types and Variables Basic Operators of Python Language Data Structures and Functions Conditional and Loops in Python And Much More! In manuscript two, Python Advanced Guide, you will master: Object-Oriented Programming (OOP), Inheritance and Polymorphism Essential Programming Tools Exception Handling Working with Files And Much More! In manuscript three, Python for Data Analysis, you will learn: What Data Analysis is all about and why businesses are investing in this sector The 5 steps of a Data Analysis The 7 Python libraries that make Python one of the best choices for Data Analysis Pandas, Jupyter and PyTorch And Much More! In manuscript four, Applications to Data Science, you will understand: How Data Visualization and Matplotlib can help you to understand the data you are working with. Neural Networks Decision Trees What industries are using data to improve their business with 14 real-world applications And So Much More! Where most books about Python programming are theoretical and have few or little practical examples, this book provides lots of simple, step-by-step examples and illustrations that are used to underline key concepts and help improve your understanding. Furthermore, topics are carefully selected to give you broad exposure to Python, while not overwhelming you with too much information. Also, the outputs of ALL the examples are provided immediately so you do not have to wait till you have access to your computer to test the examples. Even if you have never

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coded before, this is the perfect guide because it breaks down complex concepts into simple steps and in a concise and simple way that fits well with beginners. Regardless of your previous experience, you will learn the steps of Data Analysis, how to implement them, and the most important real-world applications. Would you like to know more? Scroll Up and Click the BUY NOW Button to Get Your Copy!

Ever wanted to work from home? ..or better yet, a beach in Hawaii? This book will help you take your first step! Learning to program can open an unlimited number of doors, especially in the coming years. Everything we do in life is increasingly done with the assistance of computers and programming. This drives the demand for people with programming skills. The best thing about it is you only need your laptop and you're set! Who should buy this book? Beginners It is very common to be intimidated by the idea of learning a programming language such as Python. That's where this book comes in, you will learn how to start thinking like a programmer! This book lays out the basics, and you don't have to worry about becoming confused and spending hours searching the internet for clarification. People with Limited Time This book gets straight to the the point, telling you what you need to know in a clear and concise manner. No need to waste your time reading irrelevant information to your Python learning quest! Those That Want to Start Thinking Like A Programmer This book shows you how programmers quickly flesh out their coding solution to a problem before ever doing any actual coding. Anyone Looking to Escape the Rat Race

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This book can help you begin your programming journey in a fast a efficient manner, allowing you to escape your 9-5 job! Programming is one of the few skills you can do thousands of miles away from the office, meaning you can work part-time earning american dollars whilst living like a king by leveraging the exchange rate! Here is a sneak-peak at some of the things you'll understand: Why Learn Python? Getting Started & The Installation Process Operators, Operands and Operations Variables Integers, Strings and Floats Performing Operations on Variables Naming Conventions and Comments Handling Inputs Loops If, Then Statements Nesting Logic Gates Pseudocode Lists, Tuples and Dictionaries Understanding Functions and 'Object Oriented' Programming Modules, Graphics and More Applying your Python Skills on Projects And don't miss the little bonus at the end for you TAKE ACTION TODAY and start your Python Programming journey with us! PYTHON..Start Coding Today! Do you want to learn the basics of python programming without having to read a 300 page book? This "Python Quickstart Guide" is for you!.. a simple, practical course in which you'll learn everything you need to know about python programming! THIS GUIDE WILL TEACH YOU: Python Basics (Beginner's Guide) This book will take you into the process of learning the basics of python in simple steps. Python Data Types This book will show you the important data types that you need to know and will teach you how to use it. Performing Repetitive Tasks This book will teach you how to be more efficient in every repetitive task and avoid many of the most common

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errors. What's Inside? Understanding Python Interacting with Python Coding Your First Application Python Data Types Performing Repetitive Tasks Operators Functions Variable and Multiple Assignments Lists Tuples Much, much more! Download your copy today!

**PYTHON The Ultimate Python One Day Quickstart Guide. Practical Python Programming For Beginners & Experts With Hands-on Project** This book contains proven steps and strategies on how to learn Python programming in just a few days. While I don't profess to be able to make you a fully- fledged programmer in that time, my book is aimed at teaching you the basics of Python. Why Python? Why not C+, Swift, Ruby or Java? There are a lot of very good computer programs out there and each has its pitfalls and its good side. Python is the easiest to learn and once you have a good grounding in it, you can move on to another, more complicated language. Python is a beautiful computer language. It is simple, and it is intuitive. It comes complete with plenty of libraries and frameworks to help you manage most everything you want to do. And, to back it up, there is a very powerful Python community just waiting to help you out and point you in the right direction.

Quickstart guide for Python Programming Python is an incredibly versatile and powerful programming language, but only if you know how to use it! Need to learn Python fast? Python can be used to create just about any kind of programming project you can imagine. When you understand how to program in Python, you unlock a world of computing power and possibilities. Get the most

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out of Python simply by following the easy coding examples and projects fully explained inside this guide. It doesn't matter if you have never programmed anything before. This step-by-step guide gives you everything you need to know to do more with Python than you ever thought possible! Fully up to date for 2019 Python has been around for a long time, but has evolved over the years. Save yourself the headache and frustration of trying to use a guide that just isn't up to date anymore! Brand new and fully up to date, this guide shows you exactly what you need to do to start programming in Python today! Here is a preview of what you will learn in this guide: Introduction The Basics The first languages The 1980's to today What is Python? Benefits of learning Python Getting familiar with the language How Python Works Objects and classes Attributes and methods Inheritance Loops Conditional statements Exceptions Modules, packages, and libraries How To Get Started Setting up the environment Installing Python Getting ready to code Coding your very first program Walkthroughs Prime number program Sending texts Sending plain-text email Drawing with Turtle Creating games Tips For Success Code everyday Find other beginners Try explaining Python out loud Check out other languages Have a plan for when you get stuck Recommended Resources And so much more! If you aren't a tech-savvy person or have no programming experience, have no fear! With this guide in your hands that will not be a barrier for you any longer. Learn Python programming quickly and easily when you grab this guide now!

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Python is a remarkably powerful dynamic programming language that is used in a wide variety of application domains such as Web, database access, desktop GUIs, game and software development, and network programming. Fans of Python use the phrase "batteries included" to describe the standard library, which covers everything from asynchronous processing to zip files. The language itself is a flexible powerhouse that can handle practically any application domain. This task-based tutorial is for students with no programming experience as well as those programmers who have some experience with the programming language and now want to take their skills to the next level. The book walks a reader through all the fundamentals and then moves on to more advanced topics. It's a complete end-to-end tutorial and reference.

Manipulate and analyze network data with the power of Python and NetworkX  
Key Features Understand the terminology and basic concepts of network science  
Leverage the power of Python and NetworkX to represent data as a network  
Apply common techniques for working with network data of varying sizes  
Book Description NetworkX is a leading free and open source package used for network science with the Python programming language. NetworkX can track properties of individuals and relationships, find communities, analyze resilience, detect key network locations, and perform a wide range of important tasks. With the recent release of version 2, NetworkX has been updated to be more powerful and easy to use. If you're a data scientist, engineer, or computational social scientist, this

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book will guide you in using the Python programming language to gain insights into real-world networks. Starting with the fundamentals, you'll be introduced to the core concepts of network science, along with examples that use real-world data and Python code. This book will introduce you to theoretical concepts such as scale-free and small-world networks, centrality measures, and agent-based modeling. You'll also be able to look for scale-free networks in real data and visualize a network using circular, directed, and shell layouts. By the end of this book, you'll be able to choose appropriate network representations, use NetworkX to build and characterize networks, and uncover insights while working with real-world systems. What you will learn Use Python and NetworkX to analyze the properties of individuals and relationships Encode data in network nodes and edges using NetworkX Manipulate, store, and summarize data in network nodes and edges Visualize a network using circular, directed and shell layouts Find out how simulating behavior on networks can give insights into real-world problems Understand the ongoing impact of network science on society, and its ethical considerations Who this book is for If you are a programmer or data scientist who wants to manipulate and analyze network data in Python, this book is perfect for you. Although prior knowledge of network science is not necessary, some Python programming experience will help you understand the concepts covered in the book easily.

The second edition of this best-selling Python book (over 500,000 copies sold!) uses Python 3 to teach even the

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technically uninclined how to write programs that do in minutes what would take hours to do by hand. There is no prior programming experience required and the book is loved by liberal arts majors and geeks alike. If you've ever spent hours renaming files or updating hundreds of spreadsheet cells, you know how tedious tasks like these can be. But what if you could have your computer do them for you? In this fully revised second edition of the best-selling classic Automate the Boring Stuff with Python, you'll learn how to use Python to write programs that do in minutes what would take you hours to do by hand--no prior programming experience required. You'll learn the basics of Python and explore Python's rich library of modules for performing specific tasks, like scraping data off websites, reading PDF and Word documents, and automating clicking and typing tasks. The second edition of this international fan favorite includes a brand-new chapter on input validation, as well as tutorials on automating Gmail and Google Sheets, plus tips on automatically updating CSV files. You'll learn how to create programs that effortlessly perform useful feats of automation to:

- Search for text in a file or across multiple files
- Create, update, move, and rename files and folders
- Search the Web and download online content
- Update and format data in Excel spreadsheets of any size
- Split, merge, watermark, and encrypt PDFs
- Send email responses and text notifications
- Fill out online forms

Step-by-step instructions walk you through each program, and updated practice projects at the end of each chapter challenge you to improve those programs and use your

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newfound skills to automate similar tasks. Don't spend your time doing work a well-trained monkey could do. Even if you've never written a line of code, you can make your computer do the grunt work. Learn how in *Automate the Boring Stuff with Python, 2nd Edition*.

Explore the different data mining techniques using the libraries and packages offered by Python

## Key Features

Grasp the basics of data loading, cleaning, analysis, and visualization Use the popular Python libraries such as NumPy, pandas, matplotlib, and scikit-learn for data mining Your one-stop guide to build efficient data mining pipelines without going into too much theory

## Book Description

Data mining is a necessary and predictable response to the dawn of the information age. It is typically defined as the pattern and/ or trend discovery phase in the data mining pipeline, and Python is a popular tool for performing these tasks as it offers a wide variety of tools for data mining. This book will serve as a quick introduction to the concept of data mining and putting it to practical use with the help of popular Python packages and libraries. You will get a hands-on demonstration of working with different real-world datasets and extracting useful insights from them using popular Python libraries such as NumPy, pandas, scikit-learn, and matplotlib. You will then learn the different stages of data mining such as data loading, cleaning, analysis, and visualization. You will also get a full conceptual description of popular data transformation, clustering, and classification techniques. By the end of this book, you will be able to build an efficient data mining pipeline using Python without any hassle. What

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you will learn Explore the methods for summarizing datasets and visualizing/plotting data Collect and format data for analytical work Assign data points into groups and visualize clustering patterns Learn how to predict continuous and categorical outputs for data Clean, filter noise from, and reduce the dimensions of data Serialize a data processing model using scikit-learn's pipeline feature Deploy the data processing model using Python's pickle module Who this book is for Python developers interested in getting started with data mining will love this book. Budding data scientists and data analysts looking to quickly get to grips with practical data mining with Python will also find this book to be useful. Knowledge of Python programming is all you need to get started.

Expand your computer and IT skills and earn more money by learning the world's most popular programming language - Python! Become even more computer savvy and rise above the competition when applying to jobs with proficient Python programming skills. Python programming provides you with a sustainable foundation in computer programming that is easy to build upon and specialize your skills. This results in becoming a better candidate for job openings and increasing your salary! With this guide in your hands, you will: Learn the Python programming language from scratch with little to no experience required Specialize in a computer language and make yourself more valuable to a company Open the door to new job opportunities after learning and implementing Python Study 3 complete books in one to build on your skills Become

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more desirable when applying for jobs, especially in the startup community Plus Much More! Right now Python is one of the most popular and useful languages programmers should know. With absolutely no experience required, you could learn the foundations of this language and easily build on your skills to increase your income and open the door to incredible job opportunities. Are you ready to make more money and learn an essential programming language from scratch? ...Then Order Your Complete Guide and Start Learning Today!

Discover techniques and tools for building serverless applications with AWS Lambda Key Features Learn to write, run, and deploy Lambda functions in the AWS cloud Make the most of AWS Lambda functions to build scalable and cost-efficient systems A practical guide to developing serverless services and applications in Node.js, Java, Python, and C# Book Description AWS Lambda is a part of AWS that lets you run your code without provisioning or managing servers. This enables you to deploy applications and backend services that operate with no upfront cost. This book gets you up to speed on how to build scalable systems and deploy serverless applications with AWS Lambda. The book starts with the fundamental concepts of AWS Lambda, and then teaches you how to combine your applications with other AWS services, such as AmazonAPI Gateway and DynamoDB. This book will also give a quick walk through on how to use the Serverless Framework to build larger applications that can structure code or autogenerate boilerplate code that can be used to get

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started quickly for increased productivity. Toward the end of the book, you will learn how to write, run, and test Lambda functions using Node.js, Java, Python, and C#. What you will learn Understand the fundamental concepts of AWS Lambda Get to grips with the Serverless Framework and how to create a serverless project Testing and debugging Lambda functions Create a stateful, serverless backend with DynamoDB Program AWS Lambda with Java, Python, and C# Program a lambda function with Node.js Who this book is for This book is primarily for IT architects and developers who want to build scalable systems and deploy serverless applications with AWS Lambda. No prior knowledge of AWS is necessary.

55 % discount for bookstores ! Now At \$55.99 instead of \$ 87.78 \$ Your customers will never stop reading this guide !!! SQL Programming ( 2 books ) The truth is: SQL stands for Structured Query Language. Many people scoff dubiously when it is announced that SQL is, indeed, a programming language. When people think of programming languages, all that comes to their mind are C++, Python, Java etc, . People disregard SQL as a programming language because of its interface structure and limited functionality. However, they fail to understand that while C++, Python are third level programming languages, and hence more developed, it doesn't change the fact that SQL falls under the umbrella of programming languages. Yes, SQL is a programming language and is used for a wide range of activities such as quering, retrieving and extracting data from relational databases. In addition to this, SQL also aids Microsoft in

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the definition and creation of structures based on relational databases such as tables and views. The demand for this old, simple language is increasing rapidly because of its compatible nature. A person working on SQL can shift from one language from another, like Microsoft SQL, FoxPro and MY SQL. The demand for SQL is still at large, as it caters to many fields such as database management and development. Moreover, it plays a fundamental role in activities such as creating reports, business and data analysis, and of course, computer programming. Python Programming ( 1 book ) Wandering how to learn everything on Python Programming right from the beginning? The next few lines can tell you something! Learning Python is one of the 21st century specialties you can have right now. You know how to code with Python, you become one of the most relevant citizens of the computer age. You can access neural networks, interpret, understand, code and decode certain special languages of a computer. So in order to be relevant, you need a program like python. What specialties do you stand to learn? PYTHON Introduction to python machine. The process of neural networks and a brief overview Learn coding with python in computer programming Organize data using effective pre-processing techniques Get grips to a deeper textual and social media data To optimize your machine learning systems and algorithms. SQL How to install SQL developers Working whit data, tables; and columns Basics of SQL SQL Security SQL injections Pivoting data in SQL SQL Transactions What is data definition language Buy it Now and let your customers get addicted

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to this amazing book

This book brings Python, SQL, and Db2 application development together as never before, to show how these three technologies can successfully be used with each other. By reading this book, you will receive: An introduction to Db2 An overview of SQL and how it is used An introduction to Python and the Python libraries/drivers available for Db2 application development A step-by-step guide for setting up a Python-Db2 development environment (on RedHat or Ubuntu Linux) In-depth information on how to structure and build Python applications that interact with Db2 (along with the link to a GitHub site that contains over 70 sample programs and 60 Jupyter Notebooks) Whether you're a Python developer who wants to build applications that work with Db2, or you're a Db2 user who wants to know how to build Python applications that interact with Db2 servers and databases, you'll find this book a must-read.

Deploy supervised and unsupervised machine learning algorithms using scikit-learn to perform classification, regression, and clustering. Key Features Build your first machine learning model using scikit-learn Train supervised and unsupervised models using popular techniques such as classification, regression and clustering Understand how scikit-learn can be applied to different types of machine learning problems Book Description Scikit-learn is a robust machine learning library for the Python programming language. It provides a set of supervised and unsupervised learning algorithms. This book is the easiest way to learn how to

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deploy, optimize, and evaluate all of the important machine learning algorithms that scikit-learn provides. This book teaches you how to use scikit-learn for machine learning. You will start by setting up and configuring your machine learning environment with scikit-learn. To put scikit-learn to use, you will learn how to implement various supervised and unsupervised machine learning models. You will learn classification, regression, and clustering techniques to work with different types of datasets and train your models. Finally, you will learn about an effective pipeline to help you build a machine learning project from scratch. By the end of this book, you will be confident in building your own machine learning models for accurate predictions. What you will learn

- Learn how to work with all scikit-learn's machine learning algorithms
- Install and set up scikit-learn to build your first machine learning model
- Employ Unsupervised Machine Learning Algorithms to cluster unlabelled data into groups
- Perform classification and regression machine learning
- Use an effective pipeline to build a machine learning project from scratch

Who this book is for This book is for aspiring machine learning developers who want to get started with scikit-learn. Intermediate knowledge of Python programming and some fundamental knowledge of linear algebra and probability will help.

Learn the pytest way to write simple tests which can also be used to write complex tests

### Key Features

- Become proficient with pytest from day one by solving real-world testing problems
- Use pytest to write tests more efficiently
- Scale from simple to

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complex and functional testing Book Description Python's standard unittest module is based on the xUnit family of frameworks, which has its origins in Smalltalk and Java, and tends to be verbose to use and not easily extensible. The pytest framework on the other hand is very simple to get started, but powerful enough to cover complex testing integration scenarios, being considered by many the true Pythonic approach to testing in Python. In this book, you will learn how to get started right away and get the most out of pytest in your daily workflow, exploring powerful mechanisms and plugins to facilitate many common testing tasks. You will also see how to use pytest in existing unittest-based test suites and will learn some tricks to make the jump to a pytest-style test suite quickly and easily. What you will learn Write and run simple and complex tests Organize tests in files and directories Find out how to be more productive on the command line Markers and how to skip, xfail and parametrize tests Explore fixtures and techniques to use them effectively, such as tmpdir, pytestconfig, and monkeypatch Convert unittest suites to pytest using little-known techniques Use third-party plugins Who this book is for This book is for Python programmers that want to learn more about testing. This book is also for QA testers, and those who already benefit from programming with tests daily but want to improve their existing testing tools.

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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.

Integrate open source data analytics and build business intelligence on SQL databases with Apache Superset. The quick, intuitive nature for data visualization in a web application makes it easy for creating interactive dashboards. Key Features Work with Apache Superset's rich set of data visualizations Create interactive dashboards and data storytelling Easily explore data Book Description Apache Superset is a modern, open source, enterprise-ready business intelligence (BI) web application. With the help of this book, you will see how Superset integrates with popular databases like Postgres, Google BigQuery, Snowflake, and MySQL. You will learn to create real time data visualizations and

dashboards on modern web browsers for your organization using Superset. First, we look at the fundamentals of Superset, and then get it up and running. You'll go through the requisite installation, configuration, and deployment. Then, we will discuss different columnar data types, analytics, and the visualizations available. You'll also see the security tools available to the administrator to keep your data safe. You will learn how to visualize relationships as graphs instead of coordinates on plain orthogonal axes. This will help you when you upload your own entity relationship dataset and analyze the dataset in new, different ways. You will also see how to analyze geographical regions by working with location data. Finally, we cover a set of tutorials on dashboard designs frequently used by analysts, business intelligence professionals, and developers. What you will learn Get to grips with the fundamentals of data exploration using Superset Set up a working instance of Superset on cloud services like Google Compute Engine Integrate Superset with SQL databases Build dashboards with Superset Calculate statistics in Superset for numerical, categorical, or text data Understand visualization techniques, filtering, and grouping by aggregation Manage user roles and permissions in Superset Work with SQL Lab Who this book is for This book is for data analysts, BI professionals, and developers who want to learn Apache Superset. If you want to

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create interactive dashboards from SQL databases, this book is what you need. Working knowledge of Python will be an advantage but not necessary to understand this book.

Build and deploy intelligent applications for natural language processing with Python by using industry standard tools and recently popular methods in deep learning

### Key Features

- A no-math, code-driven programmer's guide to text processing and NLP
- Get state of the art results with modern tooling across linguistics, text vectors and machine learning
- Fundamentals of NLP methods from spaCy, gensim, scikit-learn and PyTorch

### Book Description

NLP in Python is among the most sought after skills among data scientists. With code and relevant case studies, this book will show how you can use industry-grade tools to implement NLP programs capable of learning from relevant data. We will explore many modern methods ranging from spaCy to word vectors that have reinvented NLP. The book takes you from the basics of NLP to building text processing applications. We start with an introduction to the basic vocabulary along with a workflow for building NLP applications. We use industry-grade NLP tools for cleaning and pre-processing text, automatic question and answer generation using linguistics, text embedding, text classifier, and building a chatbot. With each project, you will learn a new concept of NLP. You will learn

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about entity recognition, part of speech tagging and dependency parsing for Q and A. We use text embedding for both clustering documents and making chatbots, and then build classifiers using scikit-learn. We conclude by deploying these models as REST APIs with Flask. By the end, you will be confident building NLP applications, and know exactly what to look for when approaching new challenges. What you will learn Understand classical linguistics in using English grammar for automatically generating questions and answers from a free text corpus Work with text embedding models for dense number representations of words, subwords and characters in the English language for exploring document clustering Deep Learning in NLP using PyTorch with a code-driven introduction to PyTorch Using an NLP project management Framework for estimating timelines and organizing your project into stages Hack and build a simple chatbot application in 30 minutes Deploy an NLP or machine learning application using Flask as RESTFUL APIs Who this book is for Programmers who wish to build systems that can interpret language. Exposure to Python programming is required. Familiarity with NLP or machine learning vocabulary will be helpful, but not mandatory.

The quick and easy way to master Python for Internet and Intranet programming -- Visual, step-by-step guide to the popular Python programming

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language -- Cross -platform coverage for the Mac, Windows, and Unix environments -- Teaches techniques for cookies, session management, and integration with XML The freely distributed Python programming language is becoming increasingly popular for programmers working on Internet and Intranet applications. With its clear syntax and high quality functions, the language is used in many popular Internet services such as Yahoo and thousands of non-Internet applications as well.

Python for the World Wide Web: Visual QuickStart Guide helps readers master the language with simple steps, screen shots, and clear explanations. Beginning with a thorough overview of the language, the book then covers modules, packages, input and output, errors, classes, and regular expression. With the foundation laid, the book brings the Python language to real-world usage in Web development and is suitable for beginning to intermediate users who want to join the Python revolution.

Learn how to develop intelligent applications with sequential learning and apply modern methods for language modeling with neural network architectures for deep learning with Python's most popular TensorFlow framework. Key Features Train and deploy Recurrent Neural Networks using the popular TensorFlow library Apply long short-term memory units Expand your skills in complex neural network and deep learning topics Book Description

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Developers struggle to find an easy-to-follow learning resource for implementing Recurrent Neural Network (RNN) models. RNNs are the state-of-the-art model in deep learning for dealing with sequential data. From language translation to generating captions for an image, RNNs are used to continuously improve results. This book will teach you the fundamentals of RNNs, with example applications in Python and the TensorFlow library. The examples are accompanied by the right combination of theoretical knowledge and real-world implementations of concepts to build a solid foundation of neural network modeling. Your journey starts with the simplest RNN model, where you can grasp the fundamentals. The book then builds on this by proposing more advanced and complex algorithms. We use them to explain how a typical state-of-the-art RNN model works. From generating text to building a language translator, we show how some of today's most powerful AI applications work under the hood. After reading the book, you will be confident with the fundamentals of RNNs, and be ready to pursue further study, along with developing skills in this exciting field. What you will learn Use TensorFlow to build RNN models Use the correct RNN architecture for a particular machine learning task Collect and clear the training data for your models Use the correct Python libraries for any task during the building phase of your model Optimize

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your model for higher accuracy Identify the differences between multiple models and how you can substitute them Learn the core deep learning fundamentals applicable to any machine learning model Who this book is for This book is for Machine Learning engineers and data scientists who want to learn about Recurrent Neural Network models with practical use-cases. Exposure to Python programming is required. Previous experience with TensorFlow will be helpful, but not mandatory. QGIS is a user friendly, open source geographic information system (GIS). The popularity of open source GIS and QGIS, in particular, has been growing rapidly over the last few years. This book is designed to help beginners learn about all the tools required to use QGIS 3.4.

You Will Learn Python! Zed Shaw has perfected the world's best system for learning Python. Follow it and you will succeed-just like the hundreds of thousands of beginners Zed has taught to date! You bring the discipline, commitment, and persistence; the author supplies everything else. In Learn Python the Hard Way, Third Edition, you'll learn Python by working through 52 brilliantly crafted exercises. Read them. Type their code precisely. (No copying and pasting!) Fix your mistakes. Watch the programs run. As you do, you'll learn how software works; what good programs look like; how to read, write, and think about code; and how to find and fix your

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mistakes using tricks professional programmers use. Most importantly, you'll learn the following, which you need to start writing excellent Python software of your own: Installing a complete Python environment Organizing and writing code Basic mathematics Variables Strings and text Interacting with users Working with files Looping and logic Data structures using lists and dictionaries Program design Object-oriented programming Inheritance and composition Modules, classes, and objects Python packaging Debugging Automated testing Basic game development Basic web development It'll be hard at first. But soon, you'll just get it-and that will feel great! This tutorial will reward you for every minute you put into it. Soon, you'll know one of the world's most powerful, popular programming languages. You'll be a Python programmer. Watch Zed, too! The accompanying DVD contains 5+ hours of passionate, powerful teaching: a complete Python video course!

Web scraping is the process of extracting information from the web using various tools that perform scraping and crawling. Go is emerging as the language of choice for scraping using a variety of libraries. This book will quickly explain to you, how to scrape data data from various websites using Go libraries such as Colly and Goquery.

An updated guide to programming your own Raspberry Pi projects Learn to create inventive programs and fun

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games on your powerful Raspberry Pi—with no programming experience required. This practical TAB book has been revised to fully cover the new Raspberry Pi 2, including upgrades to the Raspbian operating system. Discover how to configure hardware and software, write Python scripts, create user-friendly GUIs, and control external electronics. DIY projects include a hangman game, RGB LED controller, digital clock, and RasPiRobot complete with an ultrasonic rangefinder. Set up your Raspberry Pi and explore its features Navigate files, folders, and menus Write Python programs using the IDLE editor Use strings, lists, functions, and dictionaries Work with modules, classes, and methods Create user-friendly games using Pygame Build intuitive user interfaces with Tkinter Attach external electronics through the GPIO port Add powerful Web features to your projects

Get Programming: Learn to code with Python teaches you the basics of computer programming using the Python language. In this exercise-driven book, you'll be doing something on nearly every page as you work through 38 compact lessons and 7 engaging capstone projects. By exploring the crystal-clear illustrations, exercises that check your understanding as you go, and tips for what to try next, you'll start thinking like a programmer in no time. This book works perfectly alongside our video course Get Programming with Python in Motion, available exclusively at Manning.com: [www.manning.com/livevideo/get-programming-with-python-in-motion](http://www.manning.com/livevideo/get-programming-with-python-in-motion) Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from

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Manning Publications. What's Inside Programming skills you can use in any language Learn to code—no experience required Learn Python, the language for beginners Dozens of exercises and examples help you learn by doing About the Reader No prior programming experience needed. Table of Contents **LEARNING HOW TO PROGRAM** Lesson 1 - Why should you learn how to program? Lesson 2 - Basic principles of learning a programming language **UNIT 1 - VARIABLES, TYPES, EXPRESSIONS, AND STATEMENTS** Lesson 3 - Introducing Python: a programming language Lesson 4 - Variables and expressions: giving names and values to things Lesson 5 - Object types and statements of code 46 Lesson 6 - Capstone project: your first Python program-convert hours to minutes **UNIT 2 - STRINGS, TUPLES, AND INTERACTING WITH THE USER** Lesson 7 - Introducing string objects: sequences of characters Lesson 8 - Advanced string operations Lesson 9 - Simple error messages Lesson 10 - Tuple objects: sequences of any kind of object Lesson 11 - Interacting with the user Lesson 12 - Capstone project: name mashup **UNIT 3 - MAKING DECISIONS IN YOUR PROGRAMS** Lesson 13 - Introducing decisions in programs Lesson 14 - Making more-complicated decisions Lesson 15 - Capstone project: choose your own adventure **UNIT 4 - REPEATING TASKS** Lesson 16 - Repeating tasks with loops Lesson 17 - Customizing loops Lesson 18 - Repeating tasks while conditions hold Lesson 19 - Capstone project: Scrabble, Art Edition **UNIT 5 - ORGANIZING YOUR CODE INTO REUSABLE BLOCKS** Lesson 20 - Building programs to last Lesson

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While Excel remains ubiquitous in the business world, recent Microsoft feedback forums are full of requests to include Python as an Excel scripting language. In fact, it's the top feature requested. What makes this combination so compelling? In this hands-on guide, Felix Zumstein--creator of xlwings, a popular open source package for automating Excel with Python--shows experienced Excel users how to integrate these two worlds efficiently. Excel has added quite a few new

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capabilities over the past couple of years, but its automation language, VBA, stopped evolving a long time ago. Many Excel power users have already adopted Python for daily automation tasks. This guide gets you started. Use Python without extensive programming knowledge Get started with modern tools, including Jupyter notebooks and Visual Studio code Use pandas to acquire, clean, and analyze data and replace typical Excel calculations Automate tedious tasks like consolidation of Excel workbooks and production of Excel reports Use xlwings to build interactive Excel tools that use Python as a calculation engine Connect Excel to databases and CSV files and fetch data from the internet using Python code Use Python as a single tool to replace VBA, Power Query, and Power Pivot TensorFlow is one of the most popular machine learning frameworks in Python. With this book, you will improve your knowledge of some of the latest TensorFlow features and will be able to perform supervised and unsupervised machine learning and also train neural networks.

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