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9T0SH1 - MATHIAS TALAN

The world of Raspberry Pi is evolving quickly, with many new interface boards and software libraries becoming available all the time. In this cookbook, prolific hacker and author Simon Monk provides more than 200 practical recipes for running this tiny low-cost computer with Linux, programming it with Python, and hooking up sensors, motors, and other hardware--including Arduino. Make sure to check out 10 of the over 60 video recipes for this book at: http://razzpisampler.oreilly.com/ You can purchase all recipes at:

For many researchers, Python is a first-class tool mainly because of its libraries for storing, manipulating, and gaining insight from data. Several resources exist for individual pieces of this data science stack, but only with the Python Data Science Handbook do you get them all—IPython, NumPy, Pandas, Matplotlib, Scikit-Learn, and other related tools. Working scientists and data crunchers familiar with reading and writing Python code will find this comprehensive desk reference ideal for tackling day-to-day issues: manipulating, transforming, and cleaning data; visualizing different types of data; and using data to build statistical or machine learning models. Quite simply, this is the must-have reference for scientific computing in Python. With this handbook, you'll learn how to use: IPython and Jupyter: provide computational environments for data scientists using Python NumPy: includes the ndarray for efficient storage and manipulation of dense data arrays in Python Pandas: features the DataFrame for efficient storage and manipulation of labeled/columnar data in Python Matplotlib: includes capabilities for a flexible range of data visualizations in Python Scikit-Learn: for efficient and clean Python implementations of the most important and established machine learning algorithms

Learn Python Programming In As Little As 5 Days - Even If You Have No Technical Skills Whatsoever! Python Crash Course is a fast-paced, thorough introduction to Python that will have you writing programs, solving problems, and making things that work in no time. In the first half of the book, you'll learn about basic programming concepts, such as lists, dictionaries, classes, and loops, and practice writing clean and readable code with exercises for each topic. You'll also learn how to make your programs interactive and how to test your code safely before adding it to a project. In the second half of the book, you'll put your new knowledge into practice with three substantial projects: a Space Invaders–inspired arcade game, data visualizations with Python's super-handy libraries, and a simple web app you can deploy online. As you work through Python Crash Course you'll learn how to: –Use powerful Python libraries and tools, including matplotlib, NumPy, and Pygal –Make 2D games that respond to keypresses and mouse clicks, and that grow more difficult as the game progresses –Work with data to generate interactive visualizations –Create and customize Web apps and deploy them safely online –Deal with mistakes and errors so you can solve your own programming problems If you've been thinking seriously about digging into programming, Python Crash Course will get you up to speed and have you writing real programs fast. Why wait any longer? Start your engines and code! Uses Python 2 and 3

Design, simulate, and program interactive robots Key Features Design, simulate, build, and program an interactive autonomous mobile robot Leverage the power of ROS, Gazebo, and Python to enhance your robotic skills A hands-on guide to creating an autonomous mobile robot with the help of ROS and Python Book Description Robot Operating System (ROS) is one of the most popular robotics software frameworks in research and industry. It has various features for implementing different capabilities in a robot without implementing them from scratch. This book starts by showing you the fundamentals of ROS so you understand the basics of differential robots. Then, you'll learn about robot modeling and how to design and simulate it using ROS. Moving on, we'll design robot hardware and interfacing actuators. Then, you'll learn to configure and program depth sensors and LIDARs using ROS. Finally, you'll create a GUI for your robot using the Qt framework. By the end of this tutorial, you'll have a clear idea of how to integrate and assemble everything into a robot and how to bundle the software package. What you will learn Design a differential robot from scratch Model a differential robot using ROS and URDF Simulate a differential robot using ROS and Gazebo Design robot hardware electronics Interface robot actuators with embedded boards Explore the interfacing of different 3D depth cameras in ROS Implement autonomous navigation in ChefBot Create a GUI for robot control Who this book is for This book is for those who are conducting research in mobile robotics and autonomous navigation. As well as the robotics research domain, this book is also for the robot hobbyist community. You're expected to have a basic understanding of Linux commands and Python.

Games and activities that teach kids ages 10+ to code with Python Learning to code isn't as hard as it sounds—you just have to get started! Coding for Kids: Python starts kids off right with 50 fun, interactive activities that teach them the basics of the Python programming language. From learning the essential building blocks of programming to creating their very own games, kids will progress through unique lessons packed with helpful examples—and a little silliness! Kids will follow along by starting to code (and debug their code) step by step, seeing the results of their coding in real time. Activities at the end of each chapter help test their new knowledge by combining multiple concepts. For young programmers who really want to show off their creativity, there are extra tricky challenges to tackle after each chapter. All kids need to get started is a computer and this book. This beginner's guide to Python for kids includes: 50 Innovative exercises—Coding concepts come to life with game-based exercises for creating code blocks, drawing pictures using a prewritten module, and more. Easy-to-follow guidance—New coders will be supported by thorough instructions, sample code, and explanations of new programming terms. Engaging visual lessons—Colorful illustrations and screenshots for reference help capture kids' interest and keep lessons clear and simple. Encourage kids to think independently and have fun learning an amazing new skill with this coding book for kids.

Make the Leap From Beginner to Intermediate in Python... Python Basics: A Practical Introduction to Python 3 Your Complete Python Curriculum-With Exercises, Interactive Quizzes, and Sample Projects What should you learn about Python in the beginning to get a strong foundation? With Python Basics, you'll not only cover the core concepts you really need to know, but you'll also learn them in the most efficient order with the help of practical exercises and interactive quizzes. You'll know enough to be dangerous with Python, fast! Who Should Read This Book If you're new to Python, you'll get a practical, step-by-step roadmap on developing your foundational skills. You'll be introduced to each concept and language feature in a logical order. Every step in this curriculum is explained and illustrated with short, clear code samples. Our goal with this book is to educate, not to impress or intimidate. If you're familiar with some basic programming concepts, you'll get a clear and well-tested introduction to Python. This is a practical introduction to Python that jumps right into the meat and potatoes without sacrificing substance. If you have prior experience with languages like VBA, PowerShell, R, Perl, C, C++, C#, Java, or Swift the numerous exercises within each chapter will fast-track your progress. If you're a seasoned developer, you'll get a Python 3 crash course that brings you up to speed with modern Python programming. Mix and match the chapters that interest you the most and use the interactive quizzes and review exercises to check your learning progress as you go along. If you're a self-starter completely new to coding, you'll get practical and motivating examples. You'll begin by installing Python and setting up a coding environment on your computer from scratch, and then continue from there. We'll get you coding right away so that you become competent and knowledgeable enough to solve real-world problems, fast. Develop a passion for programming by solving interesting problems with Python every day! If you're looking to break into a coding or data-science career, you'll pick up the practical foundations with this book. We won't just dump a boat load of theoretical information on you so you can "sink or swim"-instead you'll learn from hands-on, practical examples one step at a time. Each concept is broken down for you so you'll always know what you can do with it in practical terms. If you're interested in teaching others "how to Python," this will be your guidebook. If you're looking to stoke the coding flame in your coworkers, kids, or relatives-use our material to teach them. All the sequencing has been done for you so you'll always know what to cover next and how to explain it. What Python Developers Say About The Book: "Go forth and learn this amazing language using this great book." - Michael Kennedy, Talk Python "The wording is casual, easy to understand, and makes the information flow well." - Thomas Wong, Pythonista "I floundered for a long time trying to teach myself. I slogged through dozens of incomplete online tutorials. I snoozed through hours of boring screencasts. I gave up on countless crufty books from big-time publishers. And then I found Real Python. The easy-to-follow, step-by-step instructions break the big concepts down into bite-sized chunks written in plain English. The authors never forget their audience and are consistently thorough and detailed in their explanations. I'm up and running now, but I constantly refer to the material for guidance." - Jared Nielsen, Pythonista

Become a Python programmer–and have fun doing it! Start writing software that solves real problems, even if you have absolutely no programming experience! This friendly, easy, full-color book puts you in total control of your own learning, empowering you to build unique and useful programs. Microsoft has completely reinvented the beginning programmer's tutorial, reflecting deep research into how today's beginners learn, and why other books fall short. Begin to Code with Python is packed with innovations, from its "Snaps" prebuilt operations to its "Make Something Happen" projects. Whether you're a total beginner or you've tried before, this guide will put the power, excitement, and fun of programming where it belongs: in your hands! Easy, friendly, and you're in control! Learn how to... Get, install, and use powerful free tools to create modern Python programs Learn key concepts from 170 sample programs, and use them to jumpstart your own Discover exactly what happens when a program runs Approach program development with a professional perspective Learn the core elements of the Python language Build more complex software with classes, methods, and objects Organize programs so they're easy to build and improve Capture and respond to user input Store and manipulate many types of real-world data Define custom data types to solve specific problems Create interactive games that are fun to play Build modern web and cloud-based applications Use pre-built libraries to quickly create powerful software Get code samples, including complete apps, at: https://aka.ms/BegintoCodePython/downloads About This Book For absolute beginners who've never written a line of code For anyone who's been frustrated with other beginning programming books or courses For people who've started out with other languages and now want to learn Python Works with Windows PC, Apple Mac, Linux PC, or Raspberry Pi Includes mapping of MTA exam objectives that are covered in this book, as well as an appendix with further explanation of some of the topics on the exam

Python has gone to be one of the most popular programming languages in the world, and you will be one of the few people left out if you don't add this knowledge to your arsenal. If you're looking to learn Python, now is an excellent time to do so. But where do you begin? You can start right here, right now, with this book. It makes learning Python simple, fast, and easy, taking away the confusion from learning a new language. When learning a new language, it's easy to be overwhelmed and not know where to start or what to focus on. You can spend a long time pursuing tutorials online only to find out you don't really understand any of the concepts they covered. That won't be a problem here! This book follows a step by step guide, walking you through everything you need to know about Python in an easy to follow fashion. It will teach you all the basics of Python, and even some of the more advanced Python concepts, taking you from beginner to intermediate Python programmer. This book will give you: A solid foundation in Python programming. Intermediate and advanced topics once you've mastered the basics. Simple explanations of code, broken down into easy to follow steps. Python programming exercises and solutions. Two projects at the end of the book designed to help you bring all the concepts you've learned together. Source code files you can refer to and run on your computer.

Invent Your Own Computer Games with Python will teach you how to make computer games using the popular Python programming language—even if you've never programmed before! Begin by building classic games like Hangman, Guess the Number, and Tic-Tac-Toe, and then work your way up to more advanced games, like a text-based treasure hunting game and an animated collision--dodging game with sound effects. Along the way, you'll learn key programming and math concepts that will help you take your game programming to the next level. Learn how to: –Combine loops, variables, and flow control statements into real working programs –Choose the right data structures for the job, such as lists, dictionaries, and tuples –Add graphics and animation to your games with the pygame module –Handle keyboard and mouse input –Program simple artificial intelligence so you can play against the computer –Use cryptography to convert text messages into secret code –Debug your programs and find common errors As you work through each game, you'll build a solid foundation in Python and an understanding of computer science fundamentals. What new game will you create with the power of Python? The projects in this book are compatible with Python 3.

You Will Learn Python 3! Zed Shaw has perfected the world's best system for learning Python 3. Follow it and you will succeed—just like the millions of beginners Zed has taught to date! You bring the discipline, commitment, and persistence; the author supplies everything else. In Learn Python 3 the Hard Way, 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 a computer works; what good programs look like; and how to read, write, and think about code. Zed then teaches you even more in 5+ hours of video where he shows you how to break, fix, and debug your code—live, as he's doing the exercises. Install a complete Python environment Organize and write code Fix and break code Basic mathematics Variables Strings and text Interact with users Work 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 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 course 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. This Book Is Perfect For Total beginners with zero programming experience Junior developers who know one or two languages Returning professionals who haven't written code in years Seasoned professionals looking for a fast, simple, crash course in Python 3

Python is an easy to learn, powerful programming language. It has efficient high-level data structures and a simple but effective approach to object-oriented programming. Python's elegant syntax and dynamic typing, together with its interpreted nature, make it an ideal language for scripting and rapid application development in many areas on most platforms. The Python interpreter and the extensive standard library are freely available in source or binary form for all major platforms from the Python Web site, https: //www.python.org/, and may be freely distributed. The same site also contains distributions of and pointers to many free third party Python modules, programs and tools, and additional documentation. The Python interpreter is easily extended with new functions and data types implemented in C or C++ (or other languages callable from C). Python is also suitable as an extension language for customizable applications. This tutorial introduces the reader informally to the basic concepts and features of the python language and system. It helps to have a Python interpreter handy for hands-on experience, but all examples are self contained, so the tutorial can be read off-line as well. For a description of standard objects and modules, see library-index. reference-index gives a more formal definition of the language. To write extensions in C or C++, read extending-index and c-api-index. There are also several books covering Python in depth. This tutorial does not attempt to be comprehensive and cover every single feature, or even every commonly used feature. Instead, it introduces many of Python's most noteworthy features, and will give you a good idea of the language's flavor and style. After reading it, you will be able to read and write Python modules and programs, and you will be ready to learn more about the various Python library modules described in library-index. The Glossary is also worth going through.

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

"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.

Learn to code like a professional with Python – an open source, versatile, and powerful programming language About This Book Learn the fundamentals of programming with Python – one of the best languages ever created Develop a strong set of programming skills that you will be able to express in any situation, on every platform, thanks to Python's portability Create outstanding applications of all kind, from websites to scripting, and from GUIs to data science Who This Book Is For Python is the most popular introductory teaching language in U.S. top computer science universities, so if you are new to software development, or maybe you have little experience, and would like to start off on the right foot, then this language and this book are what you need. Its amazing design and portability will help you become productive regardless of the environment you choose to work with. What You Will Learn Get Python up and running on Windows, Mac, and Linux in no time Grasp the fundamental concepts of coding, along with the basics of data structures and control flow. Write elegant, reusable, and efficient code in any situation Understand when to use the functional or the object oriented programming approach Create bulletproof, reliable software by writing tests to support your code Explore examples of GUIs, scripting, data science and web applications Learn to be independent, capable of fetching any resource you need, as well as dig deeper In Detail Learning Python has a dynamic and varied nature. It reads easily and lays a good foundation for those who are interested in digging deeper. It has a practical and example-oriented approach through which both the introductory and the advanced topics are explained. Starting with the fundamentals of programming and Python, it ends by exploring very different topics, like GUIs, web apps and data science. The book takes you all the way to creating a fully fledged application. The book begins by exploring the essentials of programming, data structures and teaches you how to manipulate them. It then moves on to controlling the flow of a program and writing reusable and error proof code. You will then explore different programming paradigms that will allow you to find the best approach to any situation, and also learn how to perform performance optimization as well as effective debugging. Throughout, the book steers you through the various types of applications, and it concludes with a complete mini website built upon all the concepts that you learned. Style and approach This book is an easy-to-follow guide that will take you from a novice to the proficient level at a comfortable pace, using a lot of simple but effective examples. Each topic is explained thoroughly, and pointers are left for the more inquisitive readers to dig deeper and expand their knowledge.

Python is a powerful, expressive programming language that's easy to learn and fun to use! But books about learning to program in Python can be kind of dull, gray, and boring, and that's no fun for anyone. Python for Kids brings Python to life and brings you (and your parents) into the world of programming. The ever-patient Jason R. Briggs will guide you through the basics as you experiment with unique (and often hilarious) example programs that feature ravenous monsters, secret agents, thieving ravens, and more. New terms are defined; code is colored, dissected, and explained; and quirky, full-color illustrations keep things on the lighter side. Chapters end with programming puzzles designed to stretch your brain and strengthen your understanding. By the end of the book you'll have programmed two complete games: a clone of the famous Pong and "Mr. Stick Man Races for the Exit"—a platform game with jumps, animation, and much more. As you strike out on your programming adventure, you'll learn how to: –Use fundamental data structures like lists, tuples, and maps –Organize and reuse your code with functions and modules –Use control structures like loops and conditional statements –Draw shapes and patterns with Python's turtle module –Create games, animations, and other graphical wonders with tkinter Why should serious adults have all the fun? Python for Kids is your ticket into the amazing world of computer programming. For kids ages 10+ (and their parents) The code in this book runs on almost anything: Windows, Mac, Linux, even an OLPC laptop or Raspberry Pi!

The Complete Python Masterclass Made Easy, Even if You've Never Coded in Your Life! If you go on Google right at this second and open any statistics with the most in-demand programming languages for the past 5 years until today you will consistently see in the top 3 a language called 'Python'. More often than not, it is the number one programming language to learn year after year. But why would so many people look for Python experts? Two big reasons: - It's an extremely powerful high-level programming language - The coding syntax is very simplified, making it fail-proof to learn and execute Combining those two things makes Python constantly being improved and updated. While learning the basics is something that will get you started, you will have the ability to grow your skills above and beyond because there's always new updates and improvements being made. In 'Learn Python Programming for Beginners', Flynn Fisher starts from scratch. He will teach you the fundamentals of coding with Python and help you lay down the building blocks of your future programming abilities. This book is made in a way that every chapter is building upon each other. By the end, you will learn: - The Fundamentals of Python Programming laid down in a matter of days with a no nonsense approach of learning - Creating Operations by Combining the Fundamentals together and building upon each other step-bystep - Machine Learning with Python explained in plain English that will get you to skyrocket your education and your programming skills - Apply Your Knowledge with the practical exercises inside the book, which cover everything from the basics to data analysis and machine learning Programming can be hard if you don't have a precise step-by-step guide. Luckily, inside this book, you will find all the building blocks needed to start your Python programming journey. See you inside as you start your Python coding journey!

This book is a tutorial for the Python 2 and 3 programming language designed for someone with no programming experience. All the examples work in Python 2.6 and Python 3.

Immerse yourself in learning Python and introductory data analytics with this book's project-based approach. Through the structure of a ten-week coding bootcamp course, you'll learn key concepts and gain hands-on experience through weekly projects. Each chapter in this book is presented as a full week of topics, with Monday through Thursday covering specific concepts, leading up to Friday, when you are challenged to create a project using the skills learned throughout the week. Topics include Python basics and essential intermediate concepts such as list comprehension, generators and iterators, understanding algorithmic complexity, and data analysis with pandas. From beginning to end, this book builds up your abilities through exercises and challenges, culminating in your solid understanding of Python. Challenge yourself with the intensity of a coding bootcamp experience or learn at your own pace. With this hands-on learning approach, you will gain the skills you need to jumpstart a new career in programming or further your current one as a software developer. What You Will Learn Understand beginning and more advanced concepts of the Python languageBe introduced to data analysis using pandas, the Python Data Analysis libraryWalk through the process of interviewing and answering technical questionsCreate real-world applications with the Python languageLearn how to use Anaconda, Jupyter Notebooks, and the Python Shell Who This Book Is For Those trying to jumpstart a new career into programming, and those already in the software development industry and would like to learn Python programming.

Programming Doesn't Have To Be Difficult. If You Want To Get Started With Python Programming, Read On.. How many times have you thought about learning how to code but got discouraged because you had no technical background, didn't have the time to learn, or you just didn't think you were smart enough? Would you like to learn the basics of python programming even if you are a complete novice? If so, this book can help you. Technology Entrepreneur, James Tudor, provides a concise, step-by-step guide to Python programming for beginners. A lot of examples, illustrations, end of chapter summary and practice exercises (with solutions) are provided to help the reader learn faster, remember longer and develop a thorough understanding of key concepts. In This Book, you'll discover: A concise. Simple. Newby friendly style of teaching that lends itself well to beginners Chapters that have been sliced into bite-size chunks to give you the information you need (at that point in time) so you're not overwhelmed. Lots of simple, step-by-step examples and illustrations are used to emphasis key conceptsand help improve your understanding Each practice exercise builds on concepts discussed in previous chapters so your learning is reinforced as you progress. Topics are carefully selected to give you a broad exposure to Python, while not overwhelming you with too much (potentially unnecessary) information. An end of chapter summary is presented to give you key take aways that help you solidify your understanding Some of the topics covered include: How to get started - what you need and where to get it (Chapter 1) How a computer functions and what a computer program is (Chapter 2) Simple data types that are available to you and how to manipulate them (Chapter 3) ...and much, much more! Please be aware, this book is only an extended preview of the paid version Python For Beginners: Learn Python In 5 Days With Step-by-Step Guidance And Hands-On Exercises. The intention with this free version is to give you the opportunity to see the authors teaching style and the quality of the material covered. Should you wish to upgrade to the paid version, five more in-depth chapters on conditions and loops, functions and modules etc are covered. In addition, a solution booklet (for the chapter exercises) is provided.

Would you like to start programming with Python from scratch? This is definitely the easiest way you can find! What are you waiting for, keep reading! This boxset includes: Python Programming for Beginners: The Ultimate Beginner's Guide to Learning the Basics of Python in a Great Crash Course Full of Notions, Tips and Tricks Have you always wanted to learn how to program? Have you always thought it was too difficult? Or did you think you didn't have enough basic skills? If so, keep reading... The PROGRAMMING LANGUAGES ACADEMY has created a targeted learning path within the reach of anyone who wants to start programming without having the appropriate skills. What you will find in this book is a real step by step path that will take you from 0 to 100 in a few days!!! Once you start reading you will appreciate a simple, clear and essential guide. The chapters are short and will deliver new information gradually, so that you are not overwhelmed by too many notions all together. Illustrations, examples and step-by-step guides in each chapter allow you not to make mistakes but above all not to cause confusion. You no longer have to waste time and money trying to learn Python from expensive online courses or from incredibly long textbooks that leave you just more confused and frustrated. Python Workbook: Learn How to Quickly and Effectively Program with Exercises, Projects, and Solutions Do you want to learn one of the most in-demand programming languages of today and start an exciting career in data science, web development, or another field of your choice? Learn Python! Python is easy to read because the code looks a lot like regular English, but don't let this simplicity deceive you: it's one of the most powerful and versatile programming languages out there! In fact, it powers many of your favorite websites and services, including Instagram, Spotify, and even Google! This book takes you on a practical journey through the amazing features of Python. Unlike books that focus on theoretical concepts only, this book will show you how Python is actually used - and encourage you to get creative! Here's what you'll find in this book: Practical programming exercises that will help you apply programming concepts to real-life situations Debugging exercises that will teach you to notice errors in Python code quickly Fun projects that will really test your knowledge and motivate you to practice even more Valuable tips for mastering Python quickly An answer key to check if you were right Learning the basics of any programming language may seem a bit boring at first, but once you've written your first program that really does something - even if it's just printing text on the screen - your excitement and motivation will become unstoppable and you'll yearn for more and more programming challenges that will hone your skills! This book is a perfect companion for any beginning Python programmer. If you've tried learning Python before but got discouraged by too much theory... this book is guaranteed to rekindle your interest in Python programming! If you're ready to learn the basics of python programming 7 DAYS FROM TODAY, get a copy of this book today! Are you ready to start writing Python apps that really work? Scroll up, cli

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

Are you new to software development? Are you curious about learning what artificial intelligence is? Do you want to master the Phyton programming language? Well, this book is your best choice! There may be a lot of different languages that you can work with when it comes to the coding that you would like to work with, but none are going to provide you with the benefits that you are working with. This language is so popular and used so often that there are a few different operating systems that already have some version of Python found on them for you to use. This can make it easier to get some of the coding done that you would like, and will ensure that you will get the best benefits out of it in no time. ★★★This book covers:★★★ ★ What Is Python and His History and Why Learn Python ★ Getting Started with Python ★ Variables and Operators ★ Basic Operators ★ Data Types in Python And so much more!! The Python language is more natural to read: If you take a look through some of the codes that we have later on in this guidebook, you will find that this is an easy task to read through some of the different parts of the law. Even if you have not been able to work with this language before, you will still be able to look at some of the systems and notice that you recognize the parts as well. The program is open source. This means that you won't have to worry about someone taking over the code and ruining it. It also means that the original Python is free and available to anyone who wants to download it. If you are curious about this world, THEN SCROLL UP THE PAGE AND CLICK TO "BUY NOW!"

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

Python for Everybody is designed to introduce students to programming and software development through the lens of exploring data. You can think of the Python programming language as your tool to solve data problems that are beyond the capability of a spreadsheet.Python is an easy to use and easy to learn programming language that is freely available on Macintosh, Windows, or Linux computers. So once you learn Python you can use it for the rest of your career without needing to purchase any software.This book uses the Python 3 language. The earlier Python 2 version of this book is titled "Python for Informatics: Exploring Information".There are free downloadable electronic copies of this book in various formats and supporting materials for the book at www.pythonlearn.com. The course materials are available to you under a Creative Commons License so you can adapt them to teach your own Python course.

Python is an easy-to-use and easy-to learn programming language that is freely available on Windows, Macintosh, and Linux computers. In this book, you’ll learn Python by working through 15 chapters. 1. Introduction 2. Installation and Getting Started 3. Python IDEs and Debuggers 4. Python Basics 5. Data Types and Dynamic Typing 6. Control Constructs 7. Functions 8. Modules, Import-Statements and Packages 9. Advanced Functions and Namespaces 10. File Input/Output 11. Assertion and Exception Handling 12. Commonly-Used Python Standard Library Modules 13. Object-Oriented Programming (OOP) in Python 14. Unit Testing 15. Database Programming This book is designed for - Students who want to learn programming and computational thinking with no programming experience - Junior developers who know one or two languages - Returning professionals who haven’t written code in years - Seasoned professionals looking for a fast, simple, crash course in Python 3

Want to learn the Python language without slogging your way through how-to manuals? With Head First Python, you’ll quickly grasp Python’s fundamentals, working with the built-in data structures and functions. Then you’ll move on to building your very own webapp, exploring database management, exception handling, and data wrangling. If you’re intrigued by what you can do with context managers, decorators, comprehensions, and generators, it’s all here. This second edition is a complete learning experience that will help you become a bonafide Python programmer in no time. Why does this book look so different? Based on the latest research in cognitive science and learning theory, Head First Pythonuses a visually rich format to engage your mind, rather than a text-heavy approach that puts you to sleep. Why waste your time struggling with new concepts? This multi-sensory learning experience is designed for the way your brain really works.

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.

Python For Beginners Learn Python Programming Easily Want to become a good Python programmer quickly? This book aims to make sure that you fully understand what you're getting into in terms of programming, as well as making certain that you get the logic behind everything that you're doing. Python is an extremely useful language for you to learn, and it's also pretty easy. The handy thing, too, is that Python is similar enough to a lot of different languages that when you learn Python the right way, you aren't just learning Python - you're actually learning a variety of programming concepts that you can then apply to a huge number of different languages that you may choose to study. This book contains: How to set up Python How to work with Variables How to control Flow and lists, File Input/Output An overview of the concept of Methods The explanation of the concept of Object-oriented programming A step by step tutorial for a beginner project And much much more... Get Your Copy today!

This fast-paced introduction to Python moves from the basics to advanced concepts, enabling readers to gain proficiency quickly.

2nd Edition - Revised, Improved and New Content! Python: The Ultimate Beginner's Guide provides all essential programming concepts and information you need to start developing your own Python program. The book provides a comprehensive walk-through of Python programming in a clear, straightforward manner that beginners will appreciate. Important concepts are introduced through a step-by-step discussion and reinforced by relevant examples and illustrations. You can use this book as a guide to help you explore, harness, and gain appreciation of the capabilities and features of Python.

The easy way to learn programming fundamentals with Python Python is a remarkably powerful and dynamic programming language that's used in a wide variety of application domains. Some of its key distinguishing features include a very clear, readable syntax, strong introspection capabilities, intuitive object orientation, and natural expression of procedural code. Plus, Python features full modularity, supporting hierarchical packages, exception-based error handling, and modules easily written in C, C++, Java, R, or .NET languages, such as C#. In addition, Python supports a number of coding styles that include: functional, imperative, object-oriented, and procedural. Due to its ease of use and flexibility, Python is constantly growing in popularity—and now you can wear your programming hat with pride and join the ranks of the pros with the help of this guide. Inside, expert author John Paul Mueller gives a complete step-by-step overview of all there is to know about Python. From performing common and advanced tasks, to collecting data, to interacting with package—this book covers it all! Use Python to create and run your first application Find out how to troubleshoot and fix errors Learn to work with Anaconda and use Magic Functions Benefit from completely updated and revised information since the last edition If you've never used Python or are new to programming in general, Beginning Programming with Python For Dummies is a helpful resource that will set you up for success.

♦♦Bonus: Buy the Paperback version of this book, and get the kindle eBook version included for FREE** If you have been trying to learn the Python program for some time now and you have decided this is the time, Python for Beginners is the book that you should get. Start as a beginner and finish as a pro. Not only because of the information that you get from the book, also because of the motivation.Learning about Python the easy way should be your motto. Most of the content that you are likely to find out there about Python is likely to leave you halfway asleep. However, even though this book has technical stuff (because it is needed), will also give you some fun facts about Python, keep you entertained ,and most importantly, informed. It is important to have a book that can guide you during your first stages of becoming a programmer. When it comes to learning about something as crucial as this, you want to make sure that the first thing you read guides you well - a book that you can refer to from time to time when you want to look into something that concerns the program. The book will give insights about the two major versions of Python that is Python 2 and 3. You will get to know their differences. You will know the importance of coding and why you need to come up with a good code. If you have been wondering how to install Python on either your Windows or Mac operating system, this is your chance to learn. You will get a step by step guide on how to program via the Tkinter tutorial. There is a lot of information on this book that will prove to be helpful.As a beginner, you will need a lot of information that will add value to your agenda. If you have a dream of one day programming a software with the Python program, don't start tomorrow - start today! It is important to have a guide that will give you useful throughout your journey. You need to stop procrastinating and start learning how to code the easy way! Start your journey once you buy this book! Inside you will find ●The difference between Python 2 and 3 and how they both work ●A step-by-step guide that will tell you how to install the program on both Windows and Mac ●The organization of the Python code ●The functions that are in Python and why you should use Python while programming ●Learn about the classes and objects in Python ●Get to know how Python code is organized and the importance of writing a good code ●This and more..... So what are you waiting for???Scroll back up and order this book NOW.

If you need help writing programs in Python 3, or want to update older Python 2 code, this book is just the ticket. Packed with practical recipes written and tested with Python 3.3, this unique cookbook is for experienced Python programmers who want to focus on modern tools and idioms. Inside, you’ll find complete recipes for more than a dozen topics, covering the core Python language as well as tasks common to a wide variety of application domains. Each recipe contains code samples you can use in your projects right away, along with a discussion about how and why the solution works. Topics include: Data Structures and Algorithms Strings and Text Numbers, Dates, and Times Iterators and Generators Files and I/O Data Encoding and Processing Functions Classes and Objects Metaprogramming Modules and Packages Network and Web Programming Concurrency Utility Scripting and System Administration Testing, Debugging, and Exceptions C Extensions

Google and YouTube use Python because it's highly adaptable, easy to maintain, and allows for rapid development. If you want to write high-quality, efficient code that's easily integrated with other languages and tools, this hands-on book will help you be productive with Python quickly -- whether you're new to programming or just new to Python. It's an easy-to-follow self-paced tutorial, based on author and Python expert Mark Lutz's popular training course. Each chapter contains a stand-alone lesson on a key component of the language, and includes a unique Test Your Knowledge section with practical exercises and quizzes, so you can practice new skills and test your understanding as you go. You'll find lots of annotated examples and illustrations to help you get started with Python 3.0. Learn about Python's major built-in object types, such as numbers, lists, and dictionaries Create and process objects using Python statements, and learn Python's general syntax model Structure and reuse code using functions, Python's basic procedural tool Learn about Python modules: packages of statements, functions, and other tools, organized into larger components Discover Python's object-oriented programming tool for structuring code Learn about the exception-handling model, and development tools for writing larger programs Explore advanced Python tools including decorators, descriptors, metaclasses, and Unicode processing

The world of Python programming is booming! Get a slice of the action.Have you always wanted to be a part of the programming world, but things seem confusing and complicated so you've never gone through with it?Are you hoping to get a career in programming but need guidance on how you should go about learning to code?Are you looking for a skill that will help give you a competitive edge in the job market?If you've answered "yes" to any of these questions, you can relax and take a breath. You're in perfect hands.Programmers with successful careers make far more than the salary average in the USA? it's a profession that is in high demand all over the world.People who know how

to code with Python are constantly sought out for incredible job opportunities that make all their dreams come true. You can easily become one of these success stories.Starting your coding journey with Python can seem intimidating and scary, and the amount of detail involved can be overwhelming when you don't know where to start.But that's all in your head.Python is one of the most popular and easiest programming languages out there.Learning it -- and mastering the craft -- is a walk in the park when you have the right guidance.In Python for Beginners, you will discover:How to become a master in Python programming in only 7 daysAll the details you need to know when it comes to coding functions, variables, and other essential skillsAn entire library of programming language that you can easily learn (without the need for an extensive coding background)Why Python is one of the most popular and sought-after programming languages in the world -- and what it can do for your futureAnd so much more!

Are You Ready To Learn Python Fast and Learn it Well? Have you always wanted to learn Python programming but are afraid it'll be too difficult for you? What if you had access to a Python guide that literally takes you step by step through every essential process of learning the python language? This book is for you. Enough of wasting your time and money learning Python from lengthy books, expensive online courses or complicated Python tutorials. ****Bonus Included Inside**** Download your FREE Python Cheat sheet! Here's What You'll Learn From This Python For Beginners Book: - What is Python? - Why you should Learn Python? - What software you need to code and run Python programs? - What are Variables and Data Operators? - What are the common data types in Python? - What are Lists and Tuples? - How to format strings - What are functions and modules? - How to define your own functions and modules? - Decision Making and Flow Control in Python - How to accept user inputs and display output? - How to control the flow of program with loops? - How to handle errors and exceptions? - How to work with external files? - What are regular expressions? - And much more!! Finally, you'll be guided through two Practice Sets that require the application of all the topics covered. So What Are You Waiting For? Click the BUY button now to start learning Python. Tags: ---------- Python, Object-oriented Python, Python crash course, Python book, learn Python, Python language, Python 3, Python examples, Python tutorials, Python programming language, Python coding, Python programming for beginners, Python for Dummies

"I don't even feel like I've scratched the surface of what I can do with Python" With Python Tricks: The Book you'll discover Python's best practices and the power of beautiful & Pythonic code with simple examples and a step-by-step narrative. You'll get one step closer to mastering Python, so you can write beautiful and idiomatic code that comes to you naturally. Learning the ins and outs of Python is difficult-and with this book you'll be able to focus on the practical skills that really matter. Discover the "hidden gold" in Python's standard library and start writing clean and Pythonic code today. Who Should Read This Book: If you're wondering which lesser known parts in Python you should know about, you'll get a roadmap with this book. Discover cool (yet practical!) Python tricks and blow your coworkers' minds in your next code review. If you've got experience with legacy versions of Python, the book will get you up to speed with modern patterns and features introduced in Python 3 and backported to Python 2. If you've worked with other programming languages and you want to get up to speed with Python, you'll pick up the idioms and practical tips you need to become a confident and effective Pythonista. If you want to make Python your own and learn how to write clean and Pythonic code, you'll discover best practices and little-known tricks to round out your knowledge. What Python Developers Say About The Book: "I kept thinking that I wished I had access to a book like this when I started learning Python many years ago." - Mariatta Wijaya, Python Core Developer "This book makes you write better Python code!" - Bob Belderbos, Software Developer at Oracle "Far from being just a shallow collection of snippets, this book will leave the attentive reader with a deeper understanding of the inner workings of Python as well as an appreciation for its beauty." - Ben Felder, Pythonista "It's like having a seasoned tutor explaining, well, tricks!" - Daniel Meyer, Sr. Desktop Administrator at Tesla Inc.

PYTHON FOR BEGINNERS Do you want to learn Python Programming well and fast? Are you looking for the best Python for Data Analysis and Analytics course? Do you want to learn Data Science and how to leverage Python for it? Do want to learn Python Machine Learning and start implementing models? Python has an extensive and robust standard library, which makes it score over other programming languages. Besides, it is an open-source programming language that will help you curtail the cost of software development significantly. Python is a powerful general-purpose programming language. It is used in web development, data science, creating software prototypes, and so on. Fortunately for beginners, Python has simple easy-to-use syntax. This makes Python an excellent language to learn. Also, Python is designed with features to facilitate data analysis and visualization. You can use it to create custom big data solutions without putting extra time and effort. So, what stops you from using Python to design amazing apps? Here's what you'll discover inside this book: - The Basics of Machine Learning: learn how to use classification algorithms and create data pipelines that are essential to machine learning-Essential Skills for Python Programming: a straightforward guide that will turn you from a rookie into an expert in Python programming and coding And more!!! ...

Have you always wanted to learn computer programming but thought it was too difficult or would take too long? Do you want to know the secret to learning Python Data Science the easy way and start programming today? This book is for you. You don't need to waste your time and money learning Python the hard way through tiresome technical books, expensive online courses and difficult Python tutorials.This non-technical book will gently guide you through... The Python Data Science Language.You will learn the most concise methods to get you coding on day one-the smart way. Python for Beginners.Beginner friendly hands on examples of practical and usable projects. The most useful Python examples.Each example is specifically designed to give you a progressive and thorough understanding of key concepts and all answers are provided. Strategic Python Data Science topics.The topics are presented in user friendly bite sized chunks to optimize a quick learning style which will also make it easy for you to remember. This book is different in that it's primary focus it to teach you Python Data Science in a simple and concise format and in the quickest time frame possible. Each short chapter has exercises at the end which summarize what you have learned in a progressive manner to avoid overloading you with information. Each exercise has been carefully chosen to enable you to master the language and retain what you have learned. No technical skills, previous knowledge or experience is required. Download it now buy clicking the BUY button. You'll also learn: Exactly what is IPython? What are the IPython keyboard shortcuts? What are the IPython magic commands? What is Numpy and how can I use it? Numpy array attributes? Advanced Ufunc Features? Working with Boolean Arrays? Boolean Operators? Data Manipulation with Pandas? Constructing Data Frame objects? Data Selection in DataFrame? Handling Missing Data? Operations with Matplotlib? And more! Finally, you will be gently guided on how to put everything that you have learned together so that you can immediately start your own Python coding in your chosen real-world scenarios. If you are serious about learning Python Data Science fast and learning it well then start today by scrolling to the top and buying with one click. Money back guarantee! You don't need a kindle device to read this eBook. You can read it on your PC, Laptop, Mac, iPad, Tablet or your phone. Python, Object-oriented Python, Python course, Python book, learning Python, Python language, Python examples, Python tutorials, Python programming language, Python coding, Python programming for beginners, Python for Dummies