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this book presents computer programming as a key method for solving mathematical problems there are two versions of the book one for matlab and one for python the book was inspired by the springer book tcse 6 a primer on scientific programming with python by langtangen but the style is more accessible and concise in keeping with the needs of engineering students the book outlines the shortest possible path from no previous experience with programming to a set of skills that allows the students to write simple programs for solving common mathematical problems with numerical methods in engineering and science courses the emphasis is on generic algorithms clean design of programs use of functions and automatic tests for verification about book are you looking to master the python programming language look no further than programming with python this comprehensive guide covers everything from installing the python software on your computer to advanced data file handling techniques with step by step instructions and helpful visual aids this book is the perfect resource for beginners and experienced programmers alike along with detailed explanations of every topic the book also includes numerous solved programs and unsolved exercises to help reinforce your understanding whether you re starting from scratch or looking to expand your skills in database handling programming with python is the ultimate resource for anyone looking to become a python expert 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 master the art of writing beautiful and powerful python by using all of the features that python 3.5 offers about this book become familiar with the most important and advanced parts of the python code style learn the trickier aspects of python and put it in a structured context for deeper understanding of the language offers an expert's eye overview of how these advanced tasks fit together in python as a whole along with practical examples who this book is for almost anyone can learn to write working script and create high quality code but they might lack a structured understanding of what it means to be pythonic if you are a python programmer who wants to code efficiently by getting the syntax and usage of a few intricate python techniques exactly right this book is for you what you will learn create a virtualenv and start a new project understand how and when to use the functional programming paradigm get familiar with the different ways the decorators can be written in understand the power of generators and coroutines without digressing into lambda calculus create metaclasses and how it makes working with python far easier generate html documentation out of documents and code using sphinx learn how to track and optimize application performance both memory and cpu use the multiprocessing library not just locally but also across multiple machines get a basic understanding of packaging and creating your own libraries applications in detail python is a dynamic programming language it is known for its high readability and hence it is often the first language learned by new programmers python being multi paradigm it can be used to achieve the same thing in different ways and it is compatible across different platforms even if you find writing python code easy writing code that is efficient easy to maintain and reuse is not so straightforward this book is an authoritative guide that will help you learn new advanced methods in a clear and contextualised way it starts off by creating a project specific environment using venv introducing you to different pythonic syntax and common pitfalls before moving on to cover the functional features in python it covers how to create different decorators generators and metaclasses it also introduces you to functools wraps and coroutines and how they work later on you will learn to use asyncio module for asynchronous clients and servers you will also get familiar with different testing systems such as py test doctest and unittest and debugging tools such as python debugger and faulthandler you will learn to optimize application performance so that it works efficiently across multiple machines and python versions finally it will teach you how to access c functions with a simple python call by the end of the book you will be able to write more advanced scripts and take on bigger challenges style and approach this book is a comprehensive guide that covers advanced features of the python language and communicate them with an authoritative understanding of the underlying rationale for how when and why to use them python 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 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 portable powerful and a

breeze to use python is the popular open source object oriented programming language used for both standalone programs and scripting applications python is considered easy to learn but there s no quicker way to mastery of the language than learning from an expert teacher this edition of learning python puts you in the hands of two expert teachers mark lutz and david ascher whose friendly well structured prose has guided many a programmer to proficiency with the language learning python second edition offers programmers a comprehensive learning tool for python and object oriented programming thoroughly updated for the numerous language and class presentation changes that have taken place since the release of the first edition in 1999 this guide introduces the basic elements of the latest release of python 2 3 and covers new features such as list comprehensions nested scopes and iterators generators beyond language features this edition of learning python also includes new context for less experienced programmers including fresh overviews of object oriented programming and dynamic typing new discussions of program launch and configuration options new coverage of documentation sources and more there are also new use cases throughout to make the application of language features more concrete the first part of learning python gives programmers all the information they ll need to understand and construct programs in the python language including types operators statements classes functions modules and exceptions the authors then present more advanced material showing how python performs common tasks by offering real applications and the libraries available for those applications each chapter ends with a series of exercises that will test your python skills and measure your understanding learning python second edition is a self paced book that allows readers to focus on the core python language in depth as you work through the book you ll gain a deep and complete understanding of the python language that will help you to understand the larger application level examples that you ll encounter on your own if you re interested in learning python and want to do so quickly and efficiently then learning python second edition is your best choice accompanying dvd rom contains 5 hours of teaching a complete python video course quick start to learning python very example oriented approach book has its own site established by the author diveintopython org author is well known in the open source community and the book has a unique quick approach to learning an object oriented language 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 get complete instructions for manipulating processing cleaning and crunching datasets in python updated for python 3 6 the second edition of this hands on guide is packed with practical case studies that show you how to solve a broad set of data analysis problems effectively you ll learn the latest versions of pandas numpy ipython and jupyter in the process written by wes

mckinney the creator of the python pandas project this book is a practical modern introduction to data science tools in python it s ideal for analysts new to python and for python programmers new to data science and scientific computing data files and related material are available on github use the ipython shell and jupyter notebook for exploratory computing learn basic and advanced features in numpy numerical python get started with data analysis tools in the pandas library use flexible tools to load clean transform merge and reshape data create informative visualizations with matplotlib apply the pandas groupby facility to slice dice and summarize datasets analyze and manipulate regular and irregular time series data learn how to solve real world data analysis problems with thorough detailed examples a demonstration of python s basic technologies showcases the programming language s possibilities as a windows development and administration tool best selling author al sweigart shows you how to easily build over 80 fun programs with minimal code and maximum creativity if you ve mastered basic python syntax and you re ready to start writing programs you ll find the big book of small python projects both enlightening and fun this collection of 81 python projects will have you making digital art games animations counting pro grams and more right away once you see how the code works you ll practice re creating the programs and experiment by adding your own custom touches these simple text based programs are 256 lines of code or less and whether it s a vintage screensaver a snail racing game a clickbait headline generator or animated strands of dna each project is designed to be self contained so you can easily share it online you ll create hangman blackjack and other games to play against your friends or the computer simulations of a forest fire a million dice rolls and a japanese abacus animations like a virtual fish tank a rotating cube and a bouncing dvd logo screensaver a first person 3d maze game encryption programs that use ciphers like rot13 and vigenère to conceal text if you re tired of standard step by step tutorials you ll love the learn by doing approach of the big book of small python projects it s proof that good things come in small programs there are many books for those new to python new to programming or both powerful python is different written for experienced developers like you its carefully crafted chapters teach intermediate and advanced strategies patterns and tools for modern python focused on python 3 with full support for 2 7 drm free digital upgrade powerfulpython com book upgrade feels like neo learning jiu jitsu in the matrix john beauford johnbeauford i just wanted to let you know what an excellent book this is i keep going back to your book to learn python fahad qazi london uk thanks keep up the good work your chapter on decorators is the best i have seen on that topic leon tietz minnesota usa powerful python is already helping me get huge optimization gains timothy dobbins tmthydobbins what have i found good and valuable about the book so far everything honestly the clear explanations solid code examples have really helped me advance as a python coder thank you it has really helped me grasp some advanced concepts that i felt were beyond my abilities nick s colorado usa for data scientists back end engineers web developers sysadmins devops qa testers and more what s included an unrelenting selective spotlight on what s most valuable and impactful to working full time professional python developers well researched detailed realistic code on almost every page powerfully illustrating key points very little toy code how to use decorators to add rich features to functions and classes untangle distinct frustratingly intertwined concerns in your code and build powerful extensible software frameworks how to use python in ways that incentivize other developers to use and re use your code again and again amplifying the impact of the code you write and boosting your reputation among your peers powerfully and easily weave iterators and generators throughout your applications making them massively scalable highly performant and far more readable and maintainable how to fully leverage python s exception and error model giving you a

detailed understanding even experienced pythonistas often lack and putting some of the most powerfully pythonic exception handling patterns in your toolbox how magic methods imbue natural readable expressive syntax into your classes and objects and how to break the rules to craft stunningly intuitive compellingly reusable library interfaces valuable and powerful design patterns and how python's special language features give you uniquely powerful implementations not possible in other languages deep and detailed instruction on how to write practical realistic unit tests using test driven development to easily get into a state of flow where you find yourself implementing feature after feature keeping your focus with ease for long periods of time how to rapidly set up effective logging for scripts sprawling python applications and everything in between an enthusiastic and unapologetic focus on python 3 and what makes it great with full explanation and support for getting the same results with python 2.7 more at powerfulpython.com

r markdown the definitive guide is the first official book authored by the core r markdown developers that provides a comprehensive and accurate reference to the r markdown ecosystem with r markdown you can easily create reproducible data analysis reports presentations dashboards interactive applications books dissertations websites and journal articles while enjoying the simplicity of markdown and the great power of r and other languages in this book you will learn basics syntax of markdown and r code chunks how to generate figures and tables and how to use other computing languages built in output formats of r markdown pdf html word rtf markdown documents and ioslides slidy beamer powerpoint presentations extensions and applications dashboards tuftte handouts xaringan reveal js presentations websites books journal articles and interactive tutorials advanced topics parameterized reports html widgets document templates custom output formats and shiny documents yihui xie is a software engineer at rstudio he has authored and co authored several r packages including knitr rmarkdown bookdown blogdown shiny xaringan and animation he has published three other books dynamic documents with r and knitr bookdown authoring books and technical documents with r markdown and blogdown creating websites with r markdown j j allaire is the founder of rstudio and the creator of the rstudio ide he is an author of several packages in the r markdown ecosystem including rmarkdown flexdashboard learnr and radix garrett grolemund is the co author of r for data science and author of hands on programming with r he wrote the lubridate r package and works for rstudio as an advocate who trains engineers to do data science with r and the tidyverse portable powerful and a breeze to use python is ideal for both standalone programs and scripting applications with this hands on book you can master the fundamentals of the core python language quickly and efficiently whether you're new to programming or just new to python once you finish you will know enough about the language to use it in any application domain you choose learning python is based on material from author mark lutz's popular training courses which he's taught over the past decade each chapter is a self contained lesson that helps you thoroughly understand a key component of python before you continue along with plenty of annotated examples illustrations and chapter summaries every chapter also contains brain builder a unique section with practical exercises and review quizzes that let you practice new skills and test your understanding as you go this book covers types and operations python's major built in object types in depth numbers lists dictionaries and more statements and syntax the code you type to create and process objects in python along with python's general syntax model functions python's basic procedural tool for structuring and reusing code modules packages of statements functions and other tools organized into larger components classes and oop python's optional object oriented programming tool for structuring code for customization and reuse exceptions and tools exception handling model and statements

plus a look at development tools for writing larger programs learning python gives you a deep and complete understanding of the language that will help you comprehend any application level examples of python that you later encounter if you re ready to discover what google and youtube see in python this book is the best way to get started want to learn the python language without slogging your way through how to manuals with head first python you ll quickly grasp python s fundamentals working with the built in data structures and functions then you ll move on to building your very own webapp exploring database management exception handling and data wrangling if you re intrigued by what you can do with context managers decorators comprehensions and generators it s all here this second edition is a complete learning experience that will help you become a bonafide python programmer in no time why does this book look so different based on the latest research in cognitive science and learning theory head first python uses a visually rich format to engage your mind 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 python s simplicity lets you become productive quickly but this often means you aren t using everything it has to offer with this hands on guide you ll learn how to write effective idiomatic python code by leveraging its best and possibly most neglected features author luciano ramalho takes you through python s core language features and libraries and shows you how to make your code shorter faster and more readable at the same time many experienced programmers try to bend python to fit patterns they learned from other languages and never discover python features outside of their experience with this book those python programmers will thoroughly learn how to become proficient in python 3 this book covers python data model understand how special methods are the key to the consistent behavior of objects data structures take full advantage of built in types and understand the text vs bytes duality in the unicode age functions as objects view python functions as first class objects and understand how this affects popular design patterns object oriented idioms build classes by learning about references mutability interfaces operator overloading and multiple inheritance control flow leverage context managers generators coroutines and concurrency with the concurrent futures and asyncio packages metaprogramming understand how properties attribute descriptors class decorators and metaclasses work 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 gui 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 gui 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 effective python will help students harness the full power of python to write exceptionally robust efficient maintainable and well performing code utilizing the concise scenario driven style pioneered in scott meyers s best selling effective c brett slatkin brings together 53 python best practices tips shortcuts and realistic code examples from expert programmers each section contains specific actionable guidelines organized into items each with carefully worded advice supported by detailed technical arguments and illuminating examples 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 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 already the industry standard for python users programming python from o reilly just got even better this third edition has been updated to reflect current best practices and the abundance of changes introduced by the latest version of the language python 2 5 whether you re a novice or an advanced practitioner you ll find this refreshed book more than lives up to its reputation programming python 3rd edition teaches you the right way to code it explains python language syntax and

programming techniques in a clear and concise manner with numerous examples that illustrate both correct usage and common idioms by reading this comprehensive guide you'll learn how to apply python in real world problem domains such as gui programming internet scripting parallel processing database management networked applications programming python third edition covers each of these target domains gradually beginning with in depth discussions of core concepts and then progressing toward complete programs large examples do appear but only after you've learned enough to understand their techniques and code along the way you'll also learn how to use the python language in realistically scaled programs concepts such as object oriented programming oop and code reuse are recurring side themes throughout this text if you're interested in python programming then this o'reilly classic needs to be within arm's reach the wealth of practical advice snippets of code and patterns of program design can all be put into use on a daily basis making your life easier and more productive reviews of the second edition about as comprehensive as any book can be dr dobb's journal if the language had manuals they would undoubtedly be the texts from o'reilly learning python and programming python are definitive treatments sd times with an interesting mix of theory and practicals explore python and its features and progress from beginner to being skilled in this popular scripting language key features a comprehensive introduction to the world of python programming paves an easy to follow path for you to navigate through concepts filled with over 90 practical exercises and activities to reinforce your learning book description after a brief history of python and key differences between python 2 and python 3 you'll understand how python has been used in applications such as youtube and google app engine as you work with the language you'll learn about control statements delve into controlling program flow and gradually work on more structured programs via functions as you settle into the python ecosystem you'll learn about data structures and study ways to correctly store and represent information by working through specific examples you'll learn how python implements object oriented programming oop concepts of abstraction encapsulation of data inheritance and polymorphism you'll be given an overview of how imports modules and packages work in python how you can handle errors to prevent apps from crashing as well as file manipulation by the end of this book you'll have built up an impressive portfolio of projects and armed yourself with the skills you need to tackle python projects in the real world what you will learn use control statements manipulate primitive and non primitive data structures use loops to iterate over objects or data for accurate results write encapsulated and succinct python functions build python classes using object oriented programming manipulate files on the file system open read write and delete who this book is for python fundamentals is great for anyone who wants to start using python to build anything from simple command line programs to web applications prior knowledge of python isn't required 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 portable powerful and a breeze to use python is the popular open source object oriented programming language used for both standalone programs and scripting applications it is now being used by an increasing number of major organizations including nasa and google updated for python 2 4 the python cookbook 2nd edition offers a wealth of useful code for all python programmers not just advanced practitioners like its predecessor the new edition provides solutions to problems that python programmers face everyday it now includes over 200 recipes that range from simple tasks such as working with dictionaries and list comprehensions to complex tasks such as monitoring a network and building a templating system this revised version also includes new chapters on topics such as time money and metaprogramming here s a list of additional topics covered manipulating text searching and sorting working with files and the filesystem object oriented programming dealing with threads and processes system administration interacting with databases creating user interfaces network and web programming processing xml distributed programming debugging and testing another advantage of the python cookbook 2nd edition is its trio of authors three well known python programming experts who are highly visible on email lists and in newsgroups and speak often at python conferences with scores of practical examples and pertinent background information the python cookbook 2nd edition is the one source you need if you re looking to build efficient flexible scalable and well integrated systems 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 cruffy 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 updated for both python 3 4 and 2 7 this guide provides concise information on python types and statements special method names built in functions and exceptions commonly used standard library modules and other prominent python tools from back cover python 3 is the best version of the language yet it is more powerful convenient consistent and expressive than ever before now leading python programmer mark summerfield demonstrates how to write code that takes full advantage of python 3 s features and idioms the first book written from a completely python 3 viewpoint programming in python 3 brings together all the knowledge you need to write any program use any standard or third party python 3 library and create new library modules of your own summerfield draws on his many years of python experience to share deep insights into python 3 development you won t find anywhere else he begins by illuminating python s beautiful heart the eight key elements of python you need to write robust high performance programs building on these core elements he introduces new topics designed to strengthen your practical expertise one concept and hands on example at a time this book s coverage includes developing in python using procedural object oriented and functional programming paradigms creating custom packages and modules writing and reading binary text and xml files including optional compression random access and text and xml parsing leveraging advanced data types collections control structures and functions spreading program workloads across multiple processes and threads programming sql databases and key value dbm files utilizing python s regular expression mini language and module building usable efficient gui based applications advanced programming techniques including generators function and class decorators context managers descriptors abstract base classes metaclasses and more programming in python 3 serves as both tutorial and language reference and it is accompanied by extensive downloadable example code all of it tested with the final version of python 3 on windows linux and mac os x completely updated for django 4 2 django for beginners is a project based introduction to django the popular python based web framework suitable for total beginners who have never built a website before as well as professional programmers looking for a fast paced guide to modern web development and django fundamentals in the book you ll learn how to build 5 websites from scratch including a blog and newspaper deploy online using security best practices implement signup login logout password change and password reset customize the look and feel of your sites write tests and run them for all your code add permissions and authorizations to make your app more secure if you re curious about python based web development django for beginners is a best practices guide to writing and deploying your own websites quickly i designed a learning system for myself that quadrupled my aptitude for learning computer languages it worked so well for me that i ve used it to teach coding to grandmothers cab drivers musicians and

50 000 other newbies washington university research shows that a key teaching method i use interactive recall practice improves learning performance 400 percent computer languages are not inherently hard to understand even for non techies remembering is the problem research shows that you will remember everything if you re repeatedly asked to recall it that s the beauty of flash cards but technology offers an even better way to make information stick with my book you get almost a thousand interactive exercises they re free online that embed the whole book in your memory algorithms check your work to make sure you know what you think you know when you stumble you do the exercise again you keep trying until you know the chapter cold the exercises keep you engaged give you extra practice where you re shaky and prepare you for each next step every lesson is built on top of a solid foundation that you and i have carefully constructed each individual step is small but all the little steps add up to real knowledge knowledge that you retain you don t need to be a computer genius to learn python you just need to be smart about how you learn it amazon com description 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 the new edition of an introduction to the art of computational problem solving using python this book introduces students with little or no prior programming experience to the art of computational problem solving using python and various python libraries including numpy matplotlib random pandas and sklearn it provides students with skills that will enable them to make productive use of computational techniques including some of the tools and techniques of data science for using computation to model and interpret data as well as substantial material on machine learning all of the code in the book and an errata sheet are available on the book s web page on the mit press website 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 programming concurrency utility scripting and system administration testing debugging and exceptions c extensions updated for both python 3 4 and 2 7 this convenient pocket guide is the perfect on the job quick reference you ll find concise need to know information on python types and statements special method names built in functions and exceptions commonly used

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notebooks on an ec2 gpu instance this open access book offers an initial introduction to programming for scientific and computational applications using the python programming language the presentation style is compact and example based making it suitable for students and researchers with little or no prior experience in programming the book uses relevant examples from mathematics and the natural sciences to present programming as a practical toolbox that can quickly enable readers to write their own programs for data processing and mathematical modeling these tools include file reading plotting simple text analysis and using numpy for numerical computations which are fundamental building blocks of all programs in data science and computational science at the same time readers are introduced to the fundamental concepts of programming including variables functions loops classes and object oriented programming accordingly the book provides a sound basis for further computer science and programming studies the easy way to learn programming fundamentals with python python is a remarkably powerful and dynamic programming language that is 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 learn and use python and pygame to design and build cool arcade games in program arcade games with python and pygame second edition dr paul vincent craven teaches you how to create fun and simple quiz games integrate and start using graphics animate graphics integrate and use game controllers add sound and bit mapped graphics and build grid based games after reading and using this book you ll be able to learn to program and build simple arcade game applications using one of today s most popular programming languages python you can even deploy onto steam and other linux based game systems as well as android one of today s most popular mobile and tablet platforms you ll learn how to create quiz games how to integrate and start using graphics how to animate graphics how to integrate and use game controllers how to add sound and bit mapped graphics how to build grid based games audience div this book assumes no prior programming knowledge

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