

## Manning Publications The Quick Python Book Pdf

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summary this third revision of manning s popular the quick python book offers a clear crisp updated introduction to the elegant python programming language and its famously easy to read syntax written for programmers new to python this latest edition includes new exercises throughout it covers features common to other languages concisely while

introducing python's comprehensive standard functions library and unique features in detail foreword by nicholas tollerve python software foundation purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology initially guido van rossum's 1989 holiday project python has grown into an amazing computer language it's a joy to learn and read and powerful enough to handle everything from low level system resources to advanced applications like deep learning elegantly simple and complete it also boasts a massive ecosystem of libraries and frameworks python programmers are in high demand mdash you can't afford not to be fluent about the book the quick python book third edition is a comprehensive guide to the python language by a python authority naomi ceder with the personal touch of a skilled teacher she beautifully balances details of the language with the insights and advice you need to handle any task extensive relevant examples and learn by doing exercises help you master each important concept the first time through whether you're scraping websites or playing around with nested tuples you'll appreciate this book's clarity focus and attention to detail what's inside clear coverage of python 3 core libraries packages and tools in depth exercises five new data science related chapters about the reader written for readers familiar with programming concepts no python experience assumed about the author naomi ceder is chair of the python software foundation she has been learning using and teaching python since 2001 table of contents part 1 starting out 1 about python 2 getting started 3 the quick python overview part 2 the essentials 4 the absolute basics 5 lists tuples and sets 6 strings 7 dictionaries 8 control flow 9 functions 10 modules and scoping rules 11 python programs 12 using the filesystem 13 reading and writing files 14 exceptions part 3 advanced language features 15 classes and object oriented programming 16 regular expressions 17 data types as objects 18 packages 19 using python libraries part 4 working with data 20 basic file wrangling 21 processing data files 22 data over the network 23 saving data 24 exploring data

this book is for students and professionals involved in geospatial computations and related areas such as geomatics surveying engineering geoinformatics geospatial information science and technology gis t geography geology agriculture and geointelligence more emphasis is given to using scientific methods and tools materialized in algorithms and software to produce practical results specifically algorithms such as error analysis of measurements and the least squares adjustment method to obtain ground coordinates of points with their reliability to construct the geometric framework of the geographical space necessary for various geospatial applications such as a geographic information system gis are discussed other algorithms involve interpolation methods for dem and spatial data analysis furthermore such algorithms in the geospatial area are basic surveying methods using a total station photogrammetry digital terrain modeling gnss

augmented reality coordinate transformations map projections and interpolation most algorithms are implemented into 27 educational computer programs and necessary data to understand gis t operations from the inside with a didactics approach targeting to become more intelligent than machines the educational programs include general photogrammetric operations with aerial photography and drones 3 d surveying network adjustment gnss navigation solutions and many others this approach helps to obtain high quality scientific and technological bases which in turn enhance the ability to exploit and use most tools and functions of existing gis t systems and therefore to be highly competitive as a professional in the market this book has ten chapters such as measurements and errors estimation and accuracy standards specialized numerical methods error propagation least squares adjustment condition method and generalized least squares applications to map projections and transformation of coordinates applications to surveying networks applications of computational methods in photogrammetry digital elevation models dem computer programming scripting ai

future proof your python projects by creating flexible code that adapts to changing requirements with the help of this hands on guide to achieving clean architecture key features learn clean architecture through a series of real world code centric examples and exercises optimize system componentization significantly reducing maintenance burden and overall complexity apply clean architecture concepts confidently to new python projects and legacy code refactoring purchase of the print or kindle book includes a free pdf ebook book description in the rapidly evolving tech industry software applications struggle to keep pace with changing business needs leaving developers grappling with complex codebases that resist change ultimately reducing productivity and increasing technical debt clean architecture with python offers a powerful approach to address these challenges drawing from his extensive experience architecting cloud native systems sam keen helps you transform complex architectural challenges into digestible implementable solutions this book teaches essential principles for effective development emphasizing the pythonic implementation of clean architecture through practical examples you ll learn how to create modular loosely coupled systems that are easy to understand modify and extend the book covers key concepts such as the dependency rule separation of concerns and domain modeling all tailored for python development by the end of this book you ll be able to apply clean architecture principles effectively in your python projects whether you re building new systems or managing existing ones you ll have the skills to create more maintainable and adaptable applications this approach will enhance your ability to respond to changing requirements setting you up for long term success in your development career what you will learn apply clean architecture

principles idiomatically in python implement domain driven design to isolate core business logic apply solid principles in a pythonic context to improve code quality structure projects for maintainability and ease of modification develop testing techniques for cleanly architected python applications refactor legacy python code to adhere to clean architecture principles design scalable apis and web applications using clean architecture who this book is for if you re a python developer struggling with maintaining and extending complex codebases this book is for you it s ideal for intermediate developers looking to enhance their architectural skills as well as senior developers seeking to formalize their knowledge of clean architecture in python while beginners can benefit prior experience with python and object oriented programming is recommended

this book presents hands on worked problems and solutions for modelling the structure of nanomaterials and disorder in crystals it supplies atomic pair distribution function pdf data and takes the reader step by step through the process of analysing the data to understand details of the local atomic or magnetic structure it has worked examples using the programs pdfgui and diffpy cmi the chapters progress systematically from simple to more complicated examples allowing the reader to build confidence and indepenence the book covers tips and tricks for obtaining good pdfs from raw x ray and electron diffraction data it goes through the process of getting started with the pdfgui and diffpy cmi programs it then takes real examples from the published literature and shows how scientific questions were answered by the modelling the scientific examples covered include fitting local structure of complex crystals fitting multi phase samples r dependent fitting to explore local symmetry breaking understanding structural phase transitions by modelling temperature dependent datasets modelling nanoparticle structures using attenuated average structure models and discrete cluster models modelling data from polycrystalline thin film samples intercolated metal organic framework compounds and carrying out a magnetic pdf structure refinement

take a practical journey through the core principles concepts and applications of asynchronous programming in python across real world environments and technologies key features understand core principles and theory behind async programming in python measure the impact of async techniques in practical real world use cases apply async patterns in software design and data oriented architectures book description asynchronous programming is one of the most effective but often misunderstood techniques for building fast scalable and responsive systems in python while it can significantly improve performance efficiency and sustainability using async without a clear understanding of its trade offs can lead to

fragile designs and hard to debug issues this book offers a structured approach to applying asynchronous programming in python it begins with a conceptual framework to help you distinguish between synchronous and asynchronous execution models and shows how async relates to other concurrency strategies such as multithreading and multiprocessing from there you will explore the core tools available for building async applications in python you will also learn how to measure the impact of async programming in practical scenarios profile and debug asynchronous code and evaluate performance improvements using real world metrics the final chapters focus on applying async techniques to common cloud based systems such as web frameworks database interactions and data pipelines tools designed for developers looking to apply async programming with confidence this book blends real world examples with core concepts to help you write efficient maintainable python code what you will learn use generators coroutines and async await to build scalable python functions explore event loops to manage concurrency and orchestrate async flow compare concurrency models to choose the right async strategy optimize i o intensive programs to improve system throughput and efficiency build async services using real world apis and popular python libraries apply structured concurrency and design patterns for cleaner async design test and debug async python code to ensure reliability and stability who this book is for this book will help python developers who want to understand and apply the asynchronous programming model in application development data analysis and orchestration scenarios junior developers data engineers and tech leads will also benefit from the application design examples

the concepts of zope 3 and its component architecture are explained thoroughly continually accompanied by a demo application special sections for zope 2 developers cover the basic differences to the predecessor

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the concepts of zope 3 and its component architecture are explained thoroughly continually accompanied by a demo application special sections for zope 2 developers cover the basic differences to the predecessor

move from zero knowledge of programming to comfortably writing small to medium sized programs in python fully updated for python 3 with code and examples throughout the book explains python coding with an accessible step by step approach designed to bring you comfortably into the world of software development real world analogies make the material understandable with a wide variety of well documented examples to illustrate each concept along the way you'll develop short programs through a series of coding challenges that reinforce the content of the chapters learn to program with python 3 guides you with material developed in the author's university computer science courses the author's conversational style feels like you're working with a personal tutor all material is thoughtfully laid out each lesson building on previous ones what you'll learn understand programming basics with python based on material developed in the author's college courses learn core concepts variables functions conditionals loops lists strings and more explore example

programs including simple games you can program and customize build modules to reuse your own code who this book is for this book assumes no prior programming experience and would be appropriate as text for a high school or college introduction to computer science

program your own micropython projects with ease no prior programming experience necessary this diy guide provides a practical introduction to microcontroller programming with micropython written by an experienced electronics hobbyist python for microcontrollers getting started with micropython features eight start to finish projects that clearly demonstrate each technique you will learn how to use sensors store data control motors and other devices and work with expansion boards from there you ll discover how to design build and program all kinds of entertaining and practical projects of your own learn micropython and object oriented programming basics explore the powerful features of the pyboard esp8266 and wipy interface with a pc and load files programs and modules work with the leds timers and converters control external devices using serial interfaces and pwm build and program a let ball detector using the 3 axis accelerometer install and program lcd and touchsensor expansion boards record and play sounds using the amp audio board

explains how to write idiomatic effective python code by leveraging its best features python s simplicity quickly lets you become productive with it but this often means you aren t using everything the language has to offer by taking you through python s key language features and libraries this practical book shows you how to make your code shorter faster and more readable all at the same time from publisher description

write fast robust and highly reusable applications using python s internal optimization state of the art performance benchmarking tools and cutting edge libraries key featuresbenchmark profile and accelerate python programs using optimization toolsscale applications to multiple processors with concurrent programmingmake applications robust and reusable using effective design patternsbook description python s powerful capabilities for implementing robust and efficient programs make it one of the most sought after programming languages in this book you ll explore the tools that allow you to improve performance and take your python programs to the next level this book starts by examining the built in as well as external libraries that streamline tasks in the development cycle such as benchmarking profiling and optimizing you ll then get to grips with using specialized tools such as dedicated libraries and compilers to increase your

performance at number crunching tasks including training machine learning models the book covers concurrency a major solution to making programs more efficient and scalable and various concurrent programming techniques such as multithreading multiprocessing and asynchronous programming you'll also understand the common problems that cause undesirable behavior in concurrent programs finally you'll work with a wide range of design patterns including creational structural and behavioral patterns that enable you to tackle complex design and architecture challenges making your programs more robust and maintainable by the end of the book you'll be exposed to a wide range of advanced functionalities in python and be equipped with the practical knowledge needed to apply them to your use cases what you will learn write efficient numerical code with numpy pandas and xarray use cython and numba to achieve native performance find bottlenecks in your python code using profilers optimize your machine learning models with jax implement multithreaded multiprocessing and asynchronous programs solve common problems in concurrent programming such as deadlock tackle architecture challenges with design patterns who this book is for this book is for intermediate to experienced python programmers who are looking to scale up their applications in a systematic and robust manner programmers from a range of backgrounds will find this book useful including software engineers scientific programmers and software architects

us besteseller gegen stumpfsinnige computeraufgaben neuauflage auf python 3 aktualisiert lernen sie python programme zu schreiben die ihnen automatisch alle möglichen aufgaben abnehmen mit schritt für schritt anleitungen zu jedem programm wenn sie jemals stunden damit verbracht haben dateien umzubenennen oder hunderte von tabelleneinträgen zu aktualisieren dann wissen sie wie stumpfsinnig manche tätigkeiten sein können wie wäre es den computer dazu zu bringen diese arbeiten zu übernehmen in diesem buch lernen sie wie sie mit python aufgaben in sekundenschnelle erledigen können die sonst viel zeit in anspruch nehmen würden programmiererfahrung brauchen sie dazu nicht wenn sie einmal die grundlagen gemeistert haben werden sie python programme schreiben die automatisch alle möglichen praktischen aufgaben für sie abarbeiten eine oder eine vielzahl von dateien nach texten durchsuchen dateien und ordner erzeugen aktualisieren verschieben und umbenennen das durchsuchen und inhalte herunterladen excel dateien aktualisieren und formatieren pdf dateien teilen zusammenfügen mit wasserzeichen versehen und verschlüsseln erinnerungsmails und textnachrichten verschicken online formulare ausfüllen schritt für schritt anleitungen führen sie durch jedes programm und Übungsaufgaben am ende jedes kapitels fordern sie dazu auf die programme zu verbessern und ihre fähigkeiten auf ähnliche problemstellungen zu richten verschwenden sie nicht ihre zeit mit aufgaben

die auch ein gut dressierter affe erledigen könnte bringen sie ihren computer dazu die langweilige arbeit zu machen the best part of programming is the triumph of seeing the machine do something useful this book frames all of programming as these small triumphs it makes the boring fun hilary mason

mobile python is the introduction of python programming language to the mobile space this practical hands on book teaches readers how to realize their application ideas on the symbian os programming on the symbian mobile platform has been difficult and time consuming in the past this innovative new title will remedy this problem chapters deal with topics that are based on python s60 features and presented in an order that lets the user learn first the simple to code ones and then increasing in complexity

in python from the very beginning john whitington takes a no prerequisites approach to teaching the basics of a modern general purpose programming language each small self contained chapter introduces a new topic building until the reader can write quite substantial programs there are plenty of questions and crucially worked answers and hints python from the very beginning will appeal both to new programmers and to experienced programmers eager to explore functional languages such as haskell it is suitable both for formal use within an undergraduate or graduate curriculum and for the interested amateur

introducing modular techniques for building sophisticated programs using python about this book the book would help you develop succinct expressive programs using modular design the book would explain best practices and common idioms through carefully explained and structured examples it will have broad appeal as far as target audience is concerned and there would be take away for all beginners to python who this book is for this book is intended for beginner to intermediate level python programmers who wish to learn how to use modules and packages within their programs while readers must understand the basics of python programming no knowledge of modular programming techniques is required what you will learn learn how to use modules and packages to organize your python code understand how to use the import statement to load modules and packages into your program use common module patterns such as abstraction and encapsulation to write better programs discover how to create self testing python packages create reusable modules that other programmers can use learn how to use github and the python package index to share your code with other people make use of modules and packages that others have written use modular techniques to build robust systems that

can handle complexity and changing requirements over time in detail python has evolved over the years and has become the primary choice of developers in various fields the purpose of this book is to help readers develop readable reliable and maintainable programs in python starting with an introduction to the concept of modules and packages this book shows how you can use these building blocks to organize a complex program into logical parts and make sure those parts are working correctly together using clearly written real world examples this book demonstrates how you can use modular techniques to build better programs a number of common modular programming patterns are covered including divide and conquer abstraction encapsulation wrappers and extensibility you will also learn how to test your modules and packages how to prepare your code for sharing with other people and how to publish your modules and packages on github and the python package index so that other people can use them finally you will learn how to use modular design techniques to be a more effective programmer style and approach this book will be simple and straightforward focusing on imparting learning through a wide array of examples that the readers can put into use as they read through the book they should not only be able to understand the way modules help in improving development but they should also be able to improvise on their techniques of writing concise and effective code

includes complete module guide and details on using python for rad cover

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