

Free epub Programming python (2023)

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Python 2007-09 python

ROS 2017-12 ros 2017-12 ros 2017-12

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2023-05-14

code execution including variable assignment deal with program errors by learning when to manually throw exceptions employ exceptions for code management enhance code by utilizing python's built in shortcuts to improve efficiency and make coding easier interact with files and package python data for network transfer or storage understand how tests drive code writing and vice versa explore the different frameworks that are available for gui development who this book is for learn programming in python with cody jackson is for beginners or novice programmers who have no programming background and wish to take their first step in software development this book will also be beneficial for intermediate programmers and will provide deeper insights into effective coding practices in python

Python Programming with Design Patterns 2021-12-17 improve your python code with modern object oriented design patterns to write clean efficient maintainable code developers everywhere turn to design patterns now there's a python specific patterns guide that's friendly and practical enough for every python developer regardless of experience best selling patterns author james w cooper presents visual example driven explanations of 23 proven patterns for writing superior object oriented code through clear and intuitive code samples he introduces modern techniques for creating python objects that interact effectively in powerful flexible programs python newcomers including those moving from other languages will find a succinct introduction designed to get them up to speed fast cooper's wide ranging patterns coverage addresses abstract classes multiple inheritance gui programming and widgets graphical classes drawing and plotting math databases python decorators images threads iterators creating executable code and more throughout his informal visual presentation makes patterns far easier to work with so you can confidently build sophisticated programs that use python's rich capabilities review the essentials of python objects and visual programming learn what design patterns are and how they help you write better code use creational patterns to enhance flexibility and avoid unnecessary complexity apply structural patterns to ensure that program elements work together well in large programs optimize communication between objects with behavioral patterns

Python3 2015-12-01 python is a high level programming language that is easy to learn and use. It is a general purpose programming language that can be used for a wide range of applications. Python is a dynamic language, which means that it does not require a compiler to run. It is also an interpreted language, which means that it can be run directly from the source code. Python is a multi-paradigm language, which means that it can be used for a wide range of programming styles. Python is a powerful language that can be used for a wide range of applications. It is a language that is easy to learn and use, and it is a language that is powerful and flexible. Python is a language that is worth learning.

Python 2018-12 python is a high level programming language that is easy to learn and use. It is a general purpose programming language that can be used for a wide range of applications. Python is a dynamic language, which means that it does not require a compiler to run. It is also an interpreted language, which means that it can be run directly from the source code. Python is a multi-paradigm language, which means that it can be used for a wide range of programming styles. Python is a powerful language that can be used for a wide range of applications. It is a language that is easy to learn and use, and it is a language that is powerful and flexible. Python is a language that is worth learning.

Ultimate Python Programming 2024-05-16 dive deep into the core concepts of python key features the concepts in this book are illustrated through numerous short code snippets and more than 650 programming examples the book contains a comprehensive collection of over 900 end of chapter exercises including both mcqs and programming exercises the solutions to all the exercises are also available the book includes coding conventions and best practices for writing efficient readable and maintainable code description this book provides a comprehensive and thorough introduction to python a popular programming language used by various top companies across various domains whether you are a novice starting your programming journey or an experienced programmer looking to expand your skill set this book is designed to assist you in mastering core python concepts starting with the basics this book guides you through the setup basic commands and key language rules the book covers important ideas like different types of data variables and how to control the flow of your programs you will also learn about collections for organizing data functions for reusable code modules for organizing bigger projects and object oriented programming for modeling real

world things advanced topics include customizing object behavior efficient data processing modifying function behavior and handling errors gracefully the book includes many figures and coding examples to give you a visual and hands on experience there are numerous exercises that provide opportunities to further reinforce your knowledge by the end of this book readers will develop a strong foundation in core python and will gain the confidence to excel in their studies and professional work what you will learn develop programs using procedural object oriented and functional paradigms understand complex topics like iterators generators and decorators learn how to create and use modules and packages master the advanced concepts of object oriented programming learn how to handle errors in python and interact with files automate resource management patterns using context managers who this book is for this book can be used by anyone who wants to learn python from scratch it can be a valuable resource for engineering students and students from other streams who have python as part of their curriculum this book facilitates a swift introduction to the language for individuals aiming to transition into data science ai or ml table of contents 1 introduction to python 2 getting started 3 strings 4 lists and tuples 5 dictionaries and sets 6 conditional execution 7 loops 8 looping techniques 9 comprehensions 10 functions 11 modules and packages 12 namespaces and scope 13 files 14 object oriented programming 15 magic methods 16 inheritance and polymorphism 17 iterators and generators 18 decorators 19 lambda expressions and functional programming 20 exception handling 21 context managers solutions

Functional Python Programming 2018-04-13 create succinct and expressive implementations with functional programming in python key features learn how to choose between imperative and functional approaches based on expressiveness clarity and performance get familiar with complex concepts such as monads concurrency and immutability apply functional python to common exploratory data analysis eda programming problems book description if you re a python developer who wants to discover how to take the power of functional programming fp and bring it into your own programs then this book is essential for you even if you know next to nothing about the paradigm starting with a general overview of functional concepts you ll explore common functional features such as first class and higher order functions pure functions and more you ll see how these are accomplished in python 3 6 to give you the core foundations you ll build upon after that you ll discover common functional optimizations for python to help your apps reach even higher speeds you ll learn fp concepts such as lazy evaluation using python s generator functions and expressions moving forward you ll learn to design and implement decorators to create composite functions you ll also explore data preparation techniques and data exploration in depth and see how the python standard library fits the functional programming model finally to top off your journey into the world of functional python you ll at look at the pymonad project and some larger examples to put everything into perspective what you will learn use python s generator functions and generator expressions to work with collections in a non strict or lazy manner utilize python library modules including itertools functools multiprocessing and concurrent features to ensure efficient functional programs use python strings with object oriented suffix notation and prefix notation avoid stateful classes with families of tuples design and implement decorators to create composite functions use functions such as max min map filter and sorted write higher order functions who this book is for this book is for python developers who would like to perform functional programming with python python programming knowledge is assumed

Python Programming for Linguistics and Digital Humanities 2024-01-31 learn how to use python for linguistics and digital humanities research perfect for students working with
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python for the first time python programming is no longer only for computer science students it is now an essential skill in linguistics the digital humanities dh and social science programs that involve text analytics python programming for linguistics and digital humanities provides a comprehensive introduction to this widely used programming language offering guidance on using python to perform various processing and analysis techniques on text assuming no prior knowledge of programming this student friendly guide covers essential topics and concepts such as installing python using the command line working with strings writing modular code designing a simple graphical user interface gui annotating language data in xml and tei creating basic visualizations and more this invaluable text explains the basic tools students will need to perform their own research projects and tackle various data analysis problems throughout the book hands on exercises provide students with the opportunity to apply concepts to particular questions or projects in processing textual data and solving language related issues each chapter concludes with a detailed discussion of the code applied possible alternatives and potential pitfalls or error messages teaches students how to use python to tackle the types of problems they will encounter in linguistics and the digital humanities features numerous practical examples of language analysis gradually moving from simple concepts and programs to more complex projects describes how to build a variety of data visualizations such as frequency plots and word clouds focuses on the text processing applications of python including creating word and frequency lists recognizing linguistic patterns and processing words for morphological analysis includes access to a companion website with all python programs produced in the chapter exercises and additional python programming resources python programming for linguistics and digital humanities applications for text focused fields is a must have resource for students pursuing text based research in the humanities the social sciences and all subfields of linguistics particularly computational linguistics and corpus linguistics

Learn Python Programming 2021-10-29 get up and running with python 3.9 through concise tutorials and practical projects in this fully updated third edition purchase of the print or kindle book includes a free ebook in pdf format key features extensively revised with richer examples python 3.9 syntax and new chapters on apis and packaging and distributing python code discover how to think like a python programmer learn the fundamentals of python through real world projects in api development gui programming and data science book description learn python programming third edition is both a theoretical and practical introduction to python an extremely flexible and powerful programming language that can be applied to many disciplines this book will make learning python easy and give you a thorough understanding of the language you'll learn how to write programs build modern apis and work with data by using renowned python data science libraries this revised edition covers the latest updates on api management packaging applications and testing there is also broader coverage of context managers and an updated data science chapter the book empowers you to take ownership of writing your software and become independent in fetching the resources you need you will have a clear idea of where to go and how to build on what you have learned from the book through examples the book explores a wide range of applications and concludes by building real world python projects based on the concepts you have learned what you will learn get python up and running on windows mac and linux write elegant reusable and efficient code in any situation avoid common pitfalls like duplication complicated design and over engineering understand when to use the functional or object oriented approach to programming build a simple api with fastapi and program gui applications with tkinter get an initial overview of more complex topics such as data persistence and cryptography fetch clean and manipulate data making efficient use of python

is built in data structures who this book is for this book is for everyone who wants to learn python from scratch as well as experienced programmers looking for a reference book prior knowledge of basic programming concepts will help you follow along but it is not a prerequisite

Basics of Python Programming 2024-04-19 mastering the python fundamentals with practical examples key features the book takes a beginner friendly approach with practical examples multiple choice questions and solved exercises to help readers understand python better the book maintains clear explanations with concise chapters making it suitable for those new to programming this edition also covers numpy for array manipulations and complex problem solving it teaches how to use tkinter to create user friendly applications with interactive interfaces description the basics of python are the book's main focus with practical examples students will understand the fundamentals of python this book is designed in a way that should make every example understandable to the readers in addition from the perspective of a competitive examination the book offers multiple choice questions true false questions and practical solved exercises through this book the readers will be able to learn python basics this includes setting up your environment and manipulating data additionally they will also learn how to master control flow with conditional statements and loops for more responsive programs and utilize functions for organizing code and file handling to work with local data learners will also explore object oriented programming oop and essential libraries like numpy for advanced programming this edition brings a new horizon of numpy and tkinter for numerical computing tasks like array manipulations tackling complex problems and building user friendly applications with interactive graphical interfaces respectively from every chapter the reader will learn the programming fundamentals and will be able to execute the programs on their own what you will learn install and run python programs understand variables user input and operators organize code and improve reusability by defining and using functions store and manage data efficiently using lists tuples and dictionaries organize data effectively using iterators and generators for memory optimization gracefully handle errors and exceptions to improve program robustness who this book is for this book is intended for students who are new to the study of python additionally it benefits those enrolled in diploma level studies or pursuing undergraduate studies or a master's degree at state universities or colleges table of contents 1 introduction to python variables datatypes and operators 2 conditions and loops 3 arrays and functions 4 lists tuples iterators generators and sets 5 dictionaries and modules 6 file handling and databases 7 object oriented programming 8 regular expressions date and time 9 exception handling 10 numpy and tkinter appendix practice exercises with solutions

Expert Python Programming 2016-05-20 become an ace python programmer by learning best coding practices and advance level concepts with python 3.5 about this book based on the latest stable version of python version 3.5 creating well manageable code that will run in various environments with different sets of dependencies packed with advanced concepts and best practices to write efficient python code who this book is for the book would appeal to web developers and python programmers who want to start using version 3.5 and write code efficiently basic knowledge of python programming is expected what you will learn conventions and best practices that are widely adopted in the python community package python code effectively for community and production use easy and lightweight ways to automate code deployment on remote systems improve your code's quality reliability and performance write concurrent code in python extend python with code written in different languages in detail python is a dynamic programming language used in a wide range of domains by programmers who find it simple yet powerful even if you find writing python code

easy writing code that is efficient and easy to maintain and reuse is a challenge the focus of the book is to familiarize you with common conventions best practices useful tools and standards used by python professionals on a daily basis when working with code you will begin with knowing new features in python 3.5 and quick tricks for improving productivity next you will learn advanced and useful python syntax elements brought to this new version using advanced object oriented concepts and mechanisms available in python you will learn different approaches to implement metaprogramming you will learn to choose good names write packages and create standalone executables easily you will also be using some powerful tools such as buildout and virtualenv to release and deploy the code on remote servers for production use moving on you will learn to effectively create python extensions with c/cython and pyrex the important factors while writing code such as code management tools writing clear documentation and test driven development are also covered you will now dive deeper to make your code efficient with general rules of optimization strategies for finding bottlenecks and selected tools for application optimization by the end of the book you will be an expert in writing efficient and maintainable code style and approach an easy to follow guide that covers industry followed best practices in python programming

Python Programming for Students 2023-11-24 think smart code better with quick project oriented python key features helps you master the fundamentals of syntax and object oriented programming covers a wide range of python topics from fundamentals to advanced concepts cutting edge python libraries for gui applications games graphics and mobile apps real world examples with database management and hands on exercises to solidify your understanding description embark on an exciting journey into the world of programming with python programming for students in today's quickly changing world of technologies python is serving as an up and coming programming language with its applicability in a variety of domains ranging from task specific python programs standalone gui applications programming sustainable websites developing interactive games data analytics and machine learning artificial intelligence etc begin your programming adventure by delving into the basics of python establishing a solid foundation in variables data types and operators as you progress you'll explore the intricacies of flow control data structures and algorithms gaining the tools to tackle complex programming challenges next venture into the principles of object oriented programming unleash your creativity with turtle programming in python crafting graphical designs and animations discover the power of database handling using sqlite by learning to store retrieve and manipulate data efficiently develop graphical user interfaces guis with tkinter creating interactive and intuitive user applications experience the thrill of game development in pygame building engaging and interactive games finally explore the realm of mobile app development with kivy mastering the techniques to create applications for android and ios devices this book is carefully crafted for easy understanding for students through numerous examples exercises and projects to provide hands on practice and enhance your programming prowess what you will learn understand a real time problem statement and develop the required solution through programming in python learn the fundamentals of python programming including data structures flow control functions and recursion learn the various object oriented fundamentals such as classes objects inheritance polymorphism overloading overriding etc get a deep insight into database handling in python using sqlite explore advanced application development topics including gui programming graphics mobile app development game development image and video processing who this book is for the book is meant for any learner who wants to learn python programming and build applications from scratch whether your goal is to become a professional programmer build your own projects or simply explore the possibilities of programming this book will guide you every

step of the way table of contents 1 getting started with programming in python 2 flow control concepts 3 data structures and algorithms 4 functions in python 5 object oriented programming concepts 6 turtle programming in python 7 database handling using sqlite 8 gui application development using tkinter 9 game development with pygame 10 mobile app development with kivy 11 image and video processing with python appendix

Mastering Python 3 Programming 2024-05-14 learn the nitty gritty of python 3 programming language by coding and executing programs seamlessly in a lucid manner key features python 3 fundamentals from data manipulation to control flow key concepts like data structures algorithms and python applications catering to a diverse audience beginner friendly guide with step by step explanations and practical examples description python 3 s clear and concise syntax and extensive collection of built in libraries and frameworks make it a powerful and versatile programming language this comprehensive guide mastering python 3 programming is designed to take you from the ground up to proficiency equipping you to create effective python programs this book provides an extensive overview of python programming covering a diverse range of topics essential for understanding python 3 each chapter explores key concepts like unicode strings functions and recursions lists tuples sets and dictionaries along with advanced topics such as object oriented programming file handling exception handling and more with detailed explanations and real life examples you will be able to build a strong understanding of python 3 throughout the book you will find useful concepts and python libraries explained clearly along with case studies executable programs exercises and easy to follow style this book focuses on real world python applications developing critical thinking and problem solving skills it prepares students for python challenges equipping them to contribute meaningfully in their fields with a deep understanding of python students gain confidence to explore new opportunities and drive innovation what you will learn set up idle for python programming and execute programs adapt algorithm based problem solving techniques utilize python libraries for data visualization grasp data structures and common algorithms master decorators file handling exception handling inheritance polymorphism and recursion in python who this book is for the target audience for this book includes undergraduate students from diverse academic backgrounds including life sciences mathematics commerce management arts and individuals who are new to computer science table of contents 1 introduction to python 3 2 algorithmic problem solving 3 numeric computations and console input 4 unicode strings and console output 5 selection and loops 6 functions and recursion 7 lists 8 tuples sets and dictionaries 9 introduction to object oriented programming 10 inheritance and polymorphism 11 file handling 12 exception handling 13 gems of python 14 data structures and algorithms using python 15 data visualization 16 python applications and libraries appendix 1 python projects appendix 2 list of built in functions in python appendix 3 answers to review questions

Learning Python Network Programming 2015-06-17 network programming has always been a demanding task with full featured and well documented libraries all the way up the stack python makes network programming the enjoyable experience it should be starting with a walkthrough of today s major networking protocols with this book you ll learn how to employ python for network programming how to request and retrieve web resources and how to extract data in major formats over the you ll utilize python for e mailing using different protocols and you ll interact with remote systems and ip and dns networking as the book progresses socket programming will be covered followed by how to design servers and the pros and cons of multithreaded and event driven architectures you ll develop practical client side applications including web api clients e mail clients ssh and ftp these applications will also be implemented through existing web application frameworks

QGIS Python Programming Cookbook 2017-03-14 master over 170 recipes that will help you turn qgis from a desktop gis tool into a powerful automated geospatial framework about this book delve into the undocumented features of the qgis api get a set of user friendly recipes that can automate entire geospatial workflows by connecting python gis building blocks into comprehensive processes this book has a complete code upgrade to qgis 2 18 and 30 new valuable recipes who this book is for this book is for geospatial analysts who want to learn more about automating everyday gis tasks as well as programmers responsible for building gis applications the short reusable recipes make concepts easy to understand and combine so you can build larger applications that are easy to maintain what you will learn use python and qgis to produce captivating gis visualizations and build complex map layouts find out how to effectively use the poorly documented and undocumented features of the qgis python api automate entire geospatial workflows by connecting python gis building blocks into comprehensive processes create import and edit geospatial data on disk or in memory change qgis settings programmatically to control default behavior automatically generate pdf map books build dynamic forms for field input in detail qgis is a desktop geographic information system that facilitates data viewing editing and analysis paired with the most efficient scripting language python we can write effective scripts that extend the core functionality of qgis based on version qgis 2 18 this book will teach you how to write python code that works with spatial data to automate geoprocessing tasks in qgis it will cover topics such as querying and editing vector data and using raster data you will also learn to create edit and optimize a vector layer for faster queries reproject a vector layer reduce the number of vertices in a vector layer without losing critical data and convert a raster to a vector following this you will work through recipes that will help you compose static maps create heavily customized maps and add specialized labels and annotations as well as this we ll also share a few tips and tricks based on different aspects of qgis style and approach this book follows a recipe based problem solution approach to address and dispel challenges faced when implementing and using qgis on a regular basis

Python Programming for Arduino 2015-02-27 this is the book for you if you are a student hobbyist developer or designer with little or no programming and hardware prototyping experience and you want to develop iot applications if you are a software developer or a hardware designer and want to create connected devices applications then this book will help you get started

Learning BeagleBone Python Programming 2015-07-14 beaglebone is a barebone computer that can be configured and customized for different applications and is almost half the price of a standard computer this book will cover the basics of how beaglebone black s hardware interface subsystems work and can be controlled using two popular python libraries for beaglebone black you will be introduced to beaglebone black s gpio pwm adc uart spi i2c and eqep subsystems we will then dive deep into more complex built in peripherals demonstrating different ways to receive input from a user including buttons potentiometers and rotary encoders with the eqep module we will also learn about interfacing with external devices this will be demonstrated using the serial modules to interface with external devices such as temperature sensors and accelerometers towards the end of the book we will present a couple of real world problems and demonstrate how to solve them with the skills you ve acquired

Python GUI Programming Cookbook 2017-05-29 master over 80 object oriented recipes to create amazing guis in python and revolutionize your applications today about this book use object oriented programming to develop amazing guis in python create a working gui project as a central resource for developing your python guis easy to follow recipes to help you

develop code using the latest released version of python who this book is for this book is for intermediate python programmers who wish to enhance their python skills by writing powerful guis in python as python is such a great and easy to learn language this book is also ideal for any developer with experience of other languages and enthusiasm to expand their horizon what you will learn create the gui form and add widgets arrange the widgets using layout managers use object oriented programming to create guis create matplotlib charts use threads and talking to networks talk to a mysql database via the gui perform unit testing and internationalizing the gui extend the gui with third party graphical libraries get to know the best practices to create guis in detail python is a multi domain interpreted programming language it is a widely used general purpose high level programming language it is often used as a scripting language because of its forgiving syntax and compatibility with a wide variety of different eco systems python gui programming cookbook follows a task based approach to help you create beautiful and very effective guis with the least amount of code necessary this book will guide you through the very basics of creating a fully functional gui in python with only a few lines of code each and every recipe adds more widgets to the guis we are creating while the cookbook recipes all stand on their own there is a common theme running through all of them as our guis keep expanding using more and more widgets we start to talk to networks databases and graphical libraries that greatly enhance our gui s functionality this book is what you need to expand your knowledge on the subject of guis and make sure you re not missing out in the long run style and approach this programming cookbook consists of standalone recipes and this approach makes it unique while each recipe explains a certain concept throughout the book you ll build a more and more advanced gui recipe after recipe in some of the advanced topics we simply create a new gui in order to explore these topics in depth

Python Network Programming Cookbook 2017-08-09 discover practical solutions for a wide range of real world network programming tasks about this book solve real world tasks in the area of network programming system networking administration network monitoring and more familiarize yourself with the fundamentals and functionalities of sdn improve your skills to become the next gen network engineer by learning the various facets of python programming who this book is for this book is for network engineers system network administrators network programmers and even web application developers who want to solve everyday network related problems if you are a novice you will develop an understanding of the concepts as you progress with this book what you will learn develop tcp ip networking client server applications administer local machines ipv4 ipv6 network interfaces write multi purpose efficient web clients for http and https protocols perform remote system administration tasks over telnet and ssh connections interact with popular websites via web services such as xml rpc soap and rest apis monitor and analyze major common network security vulnerabilities develop software defined networks with ryu opendaylight floodlight onos and pox controllers emulate simple and complex networks with mininet and its extensions for network and systems emulations learn to configure and build network systems and virtual network functions vnf in heterogeneous deployment environments explore various python modules to program the internet in detail python network programming cookbook second edition highlights the major aspects of network programming in python starting from writing simple networking clients to developing and deploying complex software defined networking sdn and network functions virtualization nfv systems it creates the building blocks for many practical web and networking applications that rely on various networking protocols it presents the power and beauty of python to solve numerous real world tasks in the area of network programming network and system administration network monitoring

and web application development in this edition you will also be introduced to network modelling to build your own cloud network you will learn about the concepts and fundamentals of sdn and then extend your network with mininet next you ll find recipes on authentication authorization and accounting aaa and open and proprietary sdn approaches and frameworks you will also learn to configure the linux foundation networking ecosystem and deploy and automate your networks with python in the cloud and the internet scale by the end of this book you will be able to analyze your network security vulnerabilities using advanced network packet capture and analysis techniques style and approach this book follows a practical approach and covers major aspects of network programming in python it provides hands on recipes combined with short and concise explanations on code snippets this book will serve as a supplementary material to develop hands on skills in any academic course on network programming this book further elaborates network softwarization including software defined networking sdn network functions virtualization nfv and orchestration we learn to configure and deploy enterprise network platforms develop applications on top of them with python

Python Parallel Programming Cookbook 2015-08-26 master efficient parallel programming to build powerful applications using python about this book design and implement efficient parallel software master new programming techniques to address and solve complex programming problems explore the world of parallel programming with this book which is a go to resource for different kinds of parallel computing tasks in python using examples and topics covered in great depth who this book is for python parallel programming cookbook is intended for software developers who are well versed with python and want to use parallel programming techniques to write powerful and efficient code this book will help you master the basics and the advanced of parallel computing what you will learn synchronize multiple threads and processes to manage parallel tasks implement message passing communication between processes to build parallel applications program your own gpu cards to address complex problems manage computing entities to execute distributed computational tasks write efficient programs by adopting the event driven programming model explore the cloud technology with django and google app engine apply parallel programming techniques that can lead to performance improvements in detail parallel programming techniques are required for a developer to get the best use of all the computational resources available today and to build efficient software systems from multi core to gpu systems up to the distributed architectures the high computation of programs throughout requires the use of programming tools and software libraries because of this it is becoming increasingly important to know what the parallel programming techniques are python is commonly used as even non experts can easily deal with its concepts this book will teach you parallel programming techniques using examples in python and will help you explore the many ways in which you can write code that allows more than one process to happen at once starting with introducing you to the world of parallel computing it moves on to cover the fundamentals in python this is followed by exploring the thread based parallelism model using the python threading module by synchronizing threads and using locks mutex semaphores queues gil and the thread pool next you will be taught about process based parallelism where you will synchronize processes using message passing along with learning about the performance of mpi python modules you will then go on to learn the asynchronous parallel programming model using the python asyncio module along with handling exceptions moving on you will discover distributed computing with python and learn how to install a broker use celery python module and create a worker you will also understand the starcluster framework pycsp scoop and disco modules in python further on you will learn gpu

programming with python using the pycuda module along with evaluating performance limitations next you will get acquainted with the cloud computing concepts in python using google app engine gae and building your first application with gae lastly you will learn about grid computing concepts in python and using pyglobus toolkit gftp and gass copy to transfer files and service monitoring in pyglobus style and approach a step by step guide to parallel programming using python with recipes accompanied by one or more programming examples it is a practically oriented book and has all the necessary underlying parallel computing concepts

Modular Programming with Python 2016-05-26 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

Network Programming in Python: The Basic 2022-05-03 for programmers who need to use python for network related activities and apps key features comprehensive coverage of python 3 s improved ssl support create an asynchronous i o loop on your own a look at the asyncio framework which is included with python 3 4 description this book includes revisions for python 3 as well as all of the classic topics covered such as network protocols network data and errors email server architecture and http and web applications comprehensive coverage of python 3 s improved ssl support how to create an asynchronous i o loop on your own a look at the asyncio framework which is included with python 3 4 the flask web

framework s url to python code connection how to safeguard your website from cross site scripting and cross site request forgery attacks how django a full stack web framework can automate the round journey from your database to the screen and back what you will learn asynchronous models and socket based networks monitor distant systems using telnet and ssh connections interact with websites using xml rpc soap and rest apis configure virtual networks in various deployment scenarios analyze security weaknesses in a network who this book is for this book is for python programmers who need a thorough understanding of how to use python for network related activities and applications this book covers all you need to know about web application development systems integration and system administration table of contents 1 client server networking an overview 2 udp user datagram protocol 3 transmission control protocol tcp 4 domain name system socket names 5 data and errors on the internet 6 ssl tls 7 architecture of the server 8 message queues and caches 9 http clients 10 servers that handle http 11 world wide web 12 e mail construction and parsing 13 simple mail transfer protocol smtp 14 post office protocol pop 15 internet message access protocol imap 16 ssh and telnet 17 file transfer protocol ftp 18 remote procedure call rpc

Basic Core Python Programming 2021-04-21 learn the most popular software programming language in easy steps Ê key featuresÊÊ extensive coverage on fundamentals and core concepts of python programming a complete reference guide to crack python interviews and exams includes ample mcqs and solved examples to prepare you for theory and practical exams easy to understand text with explanatory illustrations descriptionÊ basic core python programming is an absolute beginners book it focuses on the fundamentals of python programming and simplifies coding concepts this book makes it easy to learn the concepts of python variables expressions decision structures and iteration equipped with a lot of exercises and q as you donÕt just practice the programming but also gain an in depth understanding of the basic concepts of python you will start your journey right from how to go about python installation and start using its interactive development environment and go on to learn how to build logic and implement it with coding you will explore different types of data operators and in built functions this book covers numerous coding examples that will help you understand the importance of each data type how to work with each one of them and when to use them you can learn some more practical useful concepts like how to implement control structures and use them for decision making and controlling the program flow what you will learn stronghold on python variables expressions decision structures and iterations practical knowledge on how to work with various data types operators and in built functions learn to implement strings lists arrays and control structures learn how to control the program flow and how to use it for decision making a great reference book on python basics for software programmers who this book is forÊÊ this book is highly appealing to all tech savvy students programming enthusiasts it undergraduates and computer science students you do not need any prior knowledge Êof programming to begin with this book as long as you have the interest to learn to program table of contents 1 introduction 2 python basics 3 numbers operators and in built functions 4 strings 5 lists and arrays 6 tuples and dictionaries 7 sets and frozen sets 8 program flow control in python

Python Programming with Raspberry Pi 2017-04-28 become a master of python programming using the small yet powerful raspberry pi zero about this book this is the first book on the market that teaches python programming with raspberry pi zero develop exciting applications such as a mobile robot and home automation controller using python this step by step guide helps you make the most out of raspberry pi zero using python programming who this book is for this book is aimed at hobbyists and programmers who want to learn python programming and develop applications using the pi zero they should have basic familiarity

with electronics what you will learn configure raspberry pi using python control loops to blink an led using simple arithmetic operations understand how interface sensors actuators and led displays work get to grips with every aspect of python programming using practical examples explore machine vision data visualization and scientific computations build a mobile robot using the raspberry pi as the controller build a voice activated home automation controller in detail raspberry pi zero is a super small and super affordable product from raspberry pi that is packed with a plethora of features and has grabbed the notice of programmers especially those who use python this step by step guide will get you developing practical applications in python using a raspberry pi zero it will become a valuable resource as you learn the essential details of interfacing sensors and actuators to a raspberry pi as well as acquiring and displaying data you will get started by writing a python program that blinks an led at 1 second intervals then you will learn to write simple logic to execute tasks based upon sensor data for example to control a motor and retrieve data from the web such as to check e mails to provide a visual alert finally you will learn to build a home automation system with python where different appliances are controlled using the raspberry pi the examples discussed in each chapter of this book culminate in a project that help improve the quality of people s lives style and approach this will be a learning step by step guide to teach python programming using the famous raspberry pi zero the book is packed with practical examples at every step along with tips and tricks for the raspberry pi fans

Programming ArcGIS with Python Cookbook 2015-07-28 the book kicks off with the fundamentals of starting to use python with arcgis followed by recipes on managing map documents and layers including how to find and fix broken data links in these files in the second part of the book you will learn to create custom geoprocessing tools and how to use the attribute and location tools to select specific features the third part of the book covers topics for advanced users including the rest api and also teaches you how to use python with arcgis pro the book finishes with appendices covering how to automate python scripts and the five things that should be at the back of every gis programmer s mind

Python Game Programming By Example 2015-09-28 a pragmatic guide for developing your own games with python about this book strengthen your fundamentals of game programming with python language seven hands on games to create 2d and 3d games rapidly from scratch illustrative guide to explore the different gui libraries for building your games who this book is for if you have ever wanted to create casual games in python and you would like to explore various gui technologies that this language offers this is the book for you this title is intended for beginners to python with little or no knowledge of game development and it covers step by step how to build seven different games from the well known space invaders to a classical 3d platformer what you will learn take advantage of python s clean syntax to build games quickly discover distinct frameworks for developing graphical applications implement non player characters npcs with autonomous and seemingly intelligent behaviors design and code some popular games like pong and tower defense compose maps and levels for your sprite based games in an easy manner modularize and apply object oriented principles during the design of your games exploit libraries like chimpunk2d cocos2d and tkinter create natural user interfaces nuis using a camera and computer vision algorithms to interpret the player s real world actions in detail with a growing interest in learning to program game development is an appealing topic for getting started with coding from geometry to basic artificial intelligence algorithms there are plenty of concepts that can be applied in almost every game python is a widely used general purpose high level programming language it provides constructs intended to enable clear programs on both a small and large scale it is the third most popular language whose grammatical syntax is not

predominantly based on c python is also very easy to code and is also highly flexible which is exactly what is required for game development the user friendliness of this language allows beginners to code games without too much effort or training python also works with very little code and in most cases uses the use cases approach reserving lengthy explicit coding for outliers and exceptions making game development an achievable feat python game programming by example enables readers to develop cool and popular games in python without having in depth programming knowledge of python the book includes seven hands on projects developed with several well known python packages as well as a comprehensive explanation about the theory and design of each game it will teach readers about the techniques of game design and coding of some popular games like pong and tower defense thereafter it will allow readers to add levels of complexities to make the games more fun and realistic using 3d at the end of the book you will have added several gui libraries like chimpunk2d cocos2d and tkinter in your tool belt as well as a handful of recipes and algorithms for developing games with python style and approach this book is an example based guide that will teach you to build games using python this book follows a step by step approach as it is aimed at beginners who would like to get started with basic game development by the end of this book you will be competent game developers with good knowledge of programming in python

Mastering in Python Programming 2015-08-20 this book is designed for beginners and experts table of content 1 introduction 2 python variable 3 python data type 4 python operator 5 python if else 6 python loops 7 python string 8 python list 9 python tuples 10 python function and many more

Python 3 Object-oriented Programming unleash the power of python 3 objects about this book stop writing scripts and start architecting programs learn the latest python syntax and libraries a practical hands on tutorial that teaches you all about abstract design patterns and how to implement them in python 3 who this book is for if you re new to object oriented programming techniques or if you have basic python skills and wish to learn in depth how and when to correctly apply object oriented programming in python to design software this is the book for you what you will learn implement objects in python by creating classes and defining methods separate related objects into a taxonomy of classes and describe the properties and behaviors of those objects via the class interface extend class functionality using inheritance understand when to use object oriented features and more importantly when not to use them discover what design patterns are and why they are different in python uncover the simplicity of unit testing and why it s so important in python grasp common concurrency techniques and pitfalls in python 3 exploit object oriented programming in key python technologies such as kivy and django object oriented programming concurrently with asyncio in detail python 3 is more versatile and easier to use than ever it runs on all major platforms in a huge array of use cases coding in python minimizes development time and increases productivity in comparison to other languages clean maintainable code is easy to both read and write using python s clear concise syntax object oriented programming is a popular design paradigm in which data and behaviors are encapsulated in such a way that they can be manipulated together many modern programming languages utilize the powerful concepts behind object oriented programming and python is no exception starting with a detailed analysis of object oriented analysis and design you will use the python programming language to clearly grasp key concepts from the object oriented paradigm this book fully explains classes data encapsulation inheritance polymorphism abstraction and exceptions with an emphasis on when you can use each principle to develop well designed software you ll get an in depth analysis of many common object oriented design patterns that are more

suitable to python's unique style this book will not just teach python syntax but will also build your confidence in how to program you will also learn how to create maintainable applications by studying higher level design patterns following this you'll learn the complexities of string and file manipulation and how python distinguishes between binary and textual data not one but two very powerful automated testing systems will be introduced in the book after you discover the joy of unit testing and just how easy it can be you'll study higher level libraries such as database connectors and gui toolkits and learn how they uniquely apply object oriented principles you'll learn how these principles will allow you to make greater use of key members of the python ecosystem such as django and kivy this new edition includes all the topics that made python 3 object oriented programming an instant packt classic it's also packed with updated content to reflect recent changes in the core python library and covers modern third party packages that were not available on the python 3 platform when the book was first published style and approach throughout the book you will learn key object oriented programming techniques demonstrated by comprehensive case studies in the context of a larger project

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