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Programming with Python Python Programming Python Basics THE GUN RIGHTS WAR How To Code in Python 3 An Introduction to Python and Computer Programming Advanced Guide to Python 3 Programming Introduction to Scientific Programming with Python Learn to Program with Python 3 Python Programming Fundamentals Introduction to Computation and Programming Using Python, second edition A Beginners Guide to Python 3 Programming Clean Python Learning Python Learn to Program with Python Python for Everybody Python All-in-One For Dummies Foundations of Python Network Programming The Python Workbook Quickstart Python Python Programming for Data Analysis Make Your Own Python Text Adventure Learning Python Learn Python Programming Python for the Busy Java Developer Python 3 for Absolute Beginners Functional Python Programming Introduction to Python Programming Mastering Python Essential Python for the Physicist Python Projects for Beginners Pro Python 3 Learning Python PROGRAMMING IN PYTHON Lean Python Python and Sql Programming Starting Out with Python PDF eBook, Global Edition Taming PYTHON By Programming How to Code in Python 3 Learn Python 3 the Hard Way

Programming with Python

2017-01-13

based on the latest version of the language this book offers a self contained concise and coherent introduction to programming with python the book s primary focus is on realistic case study applications of python each practical example is accompanied by a brief explanation of the problem terminology and concepts followed by necessary program development in python using its constructs and simulated testing given the open and participatory nature of development python has a variety of incorporated data structures which has made it difficult to present it in a coherent manner further some advanced concepts super yield generator decorator etc are not easy to explain the book specially addresses these challenges starting with a minimal subset of the core it offers users a step by step guide to achieving proficiency

Python Programming

2019-01-27

buy the paperback version of this book and get the kindle book version for free if you re looking for a way to become an expert coder and impress your friends with the programs you can make from scratch then keep reading python is a high level scripting language it is easy to learn and powerful than other languages because of its dynamic nature and simple syntax which allow small lines of code features of python a question to arise is why machine learning using python is preferred over other languages this is because python has some features over other programming languages here are some basic features of python making it better than other languages python is high level language it means the context of python is user friendly rather than machine language the interactive nature of python makes it simple and attractive for users in interactive mode users are able to check the output for each statement as an object oriented programming language it allows reuse and recycling of programs the syntax of python is extensible through many libraries applications of python there are a lot of advantages of python making it different from others its applications have made it a demanded language for software development web development graphic designing and other use cases its standard libraries which support internet protocols such as html json xml imap ftp and many more libraries are able to support many operations like data scraping nlp and other applications of machine learning due to such advantages and uses students are preferring python programming tutorial rather than other languages how to learn python student who want to start their career in ai and machine learning should have a basic understanding of python there are many online video training courses and python programming tutorial available to join further it is an easy programming language to learn as a beginner online courses or tutorials can help the beginners to learn python it can be learned quickly because user can think like a programmer due to its readable and understandable syntax with python we can develop anything by computer programs only need is to spend

time to understand python and its standard libraries pycharm is its ide which makes interface so easy and comfortable while learning with the help of debugging feature of pycharm we can easily analyse the output of each line and the error can be detected easily in this book you will learn the benefit of python programing and why programmer around the world choose python how to download the python programming to your computer regardless of the operating system you re using how to write first program in python what s it means to work with object oriented programming language how to read some of the error and show up in your code how to troubleshoot your own code python is used in many big companies such as google instagram dropbox reddit and many more which means more job scopes in python scroll up and click the buy now button

Python Basics

2021-03-16

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

THE GUN RIGHTS WAR

1996

this educational book introduces emerging developers to computer programming through the python software development language and serves as a reference book for experienced developers looking to learn a new language or re familiarize themselves with computational logic and syntax

How To Code in Python 3

2018-02-01

this book introduces python programming language and fundamental concepts in algorithms and computing its target audience includes students and engineers with little or no background in programming who need to master a practical programming language and learn the basic thinking in computer science programming the main contents come from lecture notes for engineering students from all disciplines and has received high ratings its materials and ordering have been adjusted repeatedly according to classroom reception compared to alternative textbooks in the market this book introduces the underlying python implementation of number string list tuple dict function class instance and module objects in a consistent and easy to understand way making assignment function definition function call mutability and binding environments understandable inside out by giving the abstraction of implementation mechanisms this book builds a solid understanding of the python programming language

An Introduction to Python and Computer Programming

2015-07-08

advanced guide to python 3 programming 2nd edition delves deeply into a host of subjects that you need to understand if you are to develop sophisticated real

world programs each topic is preceded by an introduction followed by more advanced topics along with numerous examples that take you to an advanced level this second edition has been significantly updated with two new sections on advanced python language concepts and data analytics and machine learning the gui chapters have been rewritten to use the tkinter ui library and a chapter on performance monitoring and profiling has been added in total there are 18 new chapters and all remaining chapters have been updated for the latest version of python as well as for any of the libraries they use there are eleven sections within the book covering python language concepts computer graphics including guis games testing file input and output databases access logging concurrency and parallelism reactive programming networking and data analytics each section is self contained and can either be read on its own or as part of the book as a whole it is aimed at those who have learnt the basics of the python 3 language but wish to delve deeper into python s eco system of additional libraries and modules

Advanced Guide to Python 3 Programming

2023-11-02

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

Introduction to Scientific Programming with Python

2020

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

Learn to Program with Python 3

2018-08-22

this easy to follow and classroom tested textbook guides the reader through the fundamentals of programming with python an accessible language which can be learned incrementally features includes numerous examples and practice exercises throughout the text with additional exercises solutions and review questions at the end of each chapter highlights the patterns which frequently appear when writing programs reinforcing the application of these patterns for problem solving through practice exercises introduces the use of a debugger tool to inspect a program enabling students to discover for themselves how programs work and enhance their understanding presents the tkinter framework for building graphical user interface applications and event driven programs provides instructional videos and additional information for students as well as support materials for instructors at an associated website

Python Programming Fundamentals

2015-01-07

the new edition of an introductory text that teaches students the art of computational problem solving covering topics ranging from simple algorithms to information visualization 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 pylab 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 the book is based on an mit course which became the most popular course offered through mit s opencourseware and was developed for use not only in a conventional classroom but in in a massive open online course mooc this new edition has been updated for python 3 reorganized to make it easier to use for courses that cover only a subset of the material and offers additional material including five new chapters students are introduced to python and the basics of programming in the context of such computational concepts and techniques as exhaustive enumeration bisection search and efficient approximation algorithms although it covers such traditional topics as computational complexity and simple algorithms the book focuses on a wide range of topics not found in most introductory texts including information visualization simulations to model randomness computational techniques to understand data and statistical techniques that inform and misinform as well as two related but

relatively advanced topics optimization problems and dynamic programming this edition offers expanded material on statistics and machine learning and new chapters on frequentist and bayesian statistics

Introduction to Computation and Programming Using Python, second edition

2016-08-12

this textbook is aimed at readers who have little or no knowledge of computer programming but want to learn to program in python it starts from the very basics including how to install your python environment how to write a very simple program and run it what a variable is what an if statement is how iteration works using for and while loops as well as important key concepts such as functions classes and modules each subject area is prefaced with an introductory chapter before continuing with how these ideas work in python the second edition has been completely updated for the latest versions of python including python 3 11 and python 3 12 new chapters have been added such as those that consider where and how python is used the use of frozensets how data can be sorted enumerated types in python structural pattern matching and how and why python virtual environments are configured a new chapter the python bites back is introduced to present the fourteen most common biggest gotchas for someone new to python other sections have been updated with new features such as exception groups string operations and dictionary operations a beginners guide to python 3 programming second edition provides all you need to know about python with numerous examples provided throughout including several larger worked case studies illustrating the ideas presented in the previous chapters

A Beginners Guide to Python 3 Programming

2023-10-01

discover the right way to code in python this book provides the tips and techniques you need to produce cleaner error free and eloquent python projects your journey to better code starts with understanding the importance of formatting and documenting your code for maximum readability utilizing built in data structures and python dictionary for improved maintainability and working with modules and meta classes to effectively organize your code you will then dive deep into the new features of the python language and learn how to effectively utilize them next you will decode key concepts such as asynchronous programming python data types type hinting and path handling learn tips to debug and conduct unit and integration tests in your python code to ensure your code is ready for production the final leg of your learning journey equips you with essential tools for version management managing live code and intelligent code completion after reading and using this book you will be proficient in writing clean python code and successfully apply these principles to your own python projects what you ll learn use the right expressions and statements in your python code create and assess python dictionary work with advanced data

structures in python write better modules classes functions and metaclassesstart writing asynchronous python immediatelydiscover new features in python who this book is for readers with a basic python programming knowledge who want to improve their python programming skills by learning right way to code in python

Clean Python

2019-05-21

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

Learning Python

2009-10-06

get started in the world of software development go from zero knowledge of programming to comfortably writing small to medium sized programs in python programming can be intimidating especially when most books on software require you to know and use obscure command line instructions but it doesn t have to be that way in learn to program with python author irv kalb uses his in person teaching experience to guide you through learning the python computer programming language he uses a conversational style to make you feel as though he is your personal tutor all material is laid out in a thoughtful manner each lesson building on previous ones many real world analogies make the material easy to relate to a wide variety of well documented examples are provided along the way you ll develop small programs on your own through a series of coding challenges that reinforce the content of the chapters what you will learn learn fundamental programming concepts including variables and assignment statements functions conditionals loops lists strings file input and output internet

data and data structures get comfortable with the free idle interactive development environment ide which you will use to write and debug all your python code no need to use the command line build text based programs including a number of simple games learn how to re use code by building your own modules use python s built in data structures and packages to represent and make use of complex data from the internet who this book is for this book assumes that you have absolutely no prior knowledge about programming there is no need to learn or use any obscure unix commands students of any age who have had no exposure to programming and are interested in learning to do software development in the python language the book can be used as a text book associated with a high school or college introduction to computer science course secondly people who have had exposure to some computer language other than python who would like to build good habits for programming in python

Learn to Program with Python

2016-08-22

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

Python for Everybody

2016-04-09

the one stop resource for all your python queries powerful and flexible python is one of the most popular programming languages in the world it s got all the right stuff for the software driving the cutting edge of the development world machine learning robotics artificial intelligence data science etc the good news is that it s also pretty straightforward to learn with a simplified syntax natural language flow and an amazingly supportive user community the latest edition of python all in one for dummies gives you an inside look at the exciting possibilities offered in the python world and provides a springboard to launch yourself into wherever you want your coding career to take you these 7 straightforward and friendly mini books assume the reader is a beginning programmer and cover everything from the basic elements of python code to introductions to the specific applications where you ll use it intended as a hands on reference the focus is on practice over theory providing you with examples to follow as well as code for you to copy and start modifying in the real world helping you get

up and running in your area of interest almost right away this means you ll be finishing off your first app or building and remote controlling your own robot much faster than you can believe get a thorough grounding in the language basics learn how the syntax is applied in high profile industries apply python to projects in enterprise find out how python can get you into hot careers in ai big data and more whether you re a newbie coder or just want to add python to your magic box of tricks this is the perfect practical introduction and one you ll return to as you grow your career

Python All-in-One For Dummies

2021-03-29

covers low level networking in python essential for writing a new networked application protocol many working examples demonstrate concepts in action and can be used as starting points for new projects networked application security is demystified exhibits and explains multitasking network servers using several models including forking threading and non blocking sockets features extensive coverage of and e mail describes python s database apis

Foundations of Python Network Programming

2004-08-16

this student friendly textbook encourages the development of programming skills through active practice by focusing on exercises that support hands on learning the python workbook provides a compendium of 186 exercises spanning a variety of academic disciplines and everyday situations solutions to selected exercises are also provided supported by brief annotations that explain the technique used to solve the problem or highlight a specific point of python syntax this enhanced new edition has been thoroughly updated and expanded with additional exercises along with concise introductions that outline the core concepts needed to solve them the exercises and solutions require no prior background knowledge beyond the material covered in a typical introductory python programming course features uses an accessible writing style and easy to follow structure includes a mixture of classic exercises from the fields of computer science and mathematics along with exercises that connect to other academic disciplines presents the solutions to approximately half of the exercises provides annotations alongside the solutions which explain the approach taken to solve the problem and relevant aspects of python syntax offers a variety of exercises of different lengths and difficulties contains exercises that encourage the development of programming skills using if statements loops basic functions lists dictionaries files and recursive functions undergraduate students enrolled in their first programming course and wishing to enhance their programming abilities will find the exercises and solutions provided in this book to be ideal for their needs

The Python Workbook

2019-07-05

christoph schäfer introduces the great world of programming with python and provides a quick introduction to independent script development he points out how the programming language python has established itself in recent years alongside matlab and r as a standard at scientific workplaces in research and development and shows that the great popularity of python is based on its easy extensibility it is very easy to use modules from other developers in your own scripts and programs in particular the author presents the modules numpy scipy and matplotlib which offer scientists and engineers a perfect development environment for scientific and technical computing for applications in physics chemistry biology and computer science python is also used in the latest applications in the highly topical fields of big data science and machine learning the author dr christoph schäfer teaches and researches in the department of computational physics at the institute of astronomy and astrophysics at the eberhard karls university of tübingen this springer essential is a translation of the original german 1st edition essentials schnellstart python by christoph schäfer published by springer fachmedien wiesbaden gmbh part of springer nature in 2019 the translation was done with the help of artificial intelligence machine translation by the service deepl com a subsequent human revision was done primarily in terms of content so that the book will read stylistically differently from a conventional translation springer nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors

Quickstart Python

2021-12-08

this textbook grew out of notes for the ece143 programming for data analysis class that the author has been teaching at university of california san diego which is a requirement for both graduate and undergraduate degrees in machine learning and data science this book is ideal for readers with some python programming experience the book covers key language concepts that must be understood to program effectively especially for data analysis applications certain low level language features are discussed in detail especially python memory management and data structures using python effectively means taking advantage of its vast ecosystem the book discusses python package management and how to use third party modules as well as how to structure your own python modules the section on object oriented programming explains features of the language that facilitate common programming patterns after developing the key python language features the book moves on to third party modules that are foundational for effective data analysis starting with numpy the book develops key numpy concepts and discusses internal numpy array data structures and memory usage then the author moves onto pandas and details its many features for data processing and alignment because strong visualizations are important for communicating data analysis key modules such as matplotlib are

developed in detail along with web based options such as bokeh holoviews altair and plotly the text is sprinkled with many tricks of the trade that help avoid common pitfalls the author explains the internal logic embodied in the python language so that readers can get into the python mindset and make better design choices in their codes which is especially helpful for newcomers to both python and data analysis to get the most out of this book open a python interpreter and type along with the many code samples

Python Programming for Data Analysis

2021-05-04

learn programming with python by creating a text adventure this book will teach you the fundamentals of programming how to organize code and some coding best practices by the end of the book you will have a working game that you can play or show off to friends you will also be able to change the game and make it your own by writing a different story line including new items creating new characters and more make your own python text adventure offers a structured approach to learning python that teaches the fundamentals of the language while also guiding the development of the customizable game the first half of the book introduces programming concepts and python syntax by building the basic structure of the game you ll also apply the new concepts in homework questions with solutions if you get stuck that follow each chapter the second half of the book will shift the focus to adding features to your game and making it more entertaining for the player python is often recommended as a first programming language for beginners and for good reason whether you ve just decided to learn programming or you ve struggled before with vague tutorials this book will help you get started what you ll learn install python and set up a workspace master programming basics and best practices including functions lists loops and objects create an interactive adventure game with a customizable world who this book is for people who have never programmed before or for novice programmers starting out with python

Make Your Own Python Text Adventure

2017-11-23

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

Learning Python

2007-10-22

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's 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's not a prerequisite

Learn Python Programming

2021-10-29

are you a seasoned java developer who wishes to learn python perhaps you ve just joined a project where a chunk of system integration code is written in python or maybe you need to implement a report generation module in the next sprint and your colleague mentioned that python would be the perfect tool for the job in any case if you are in a situation where you have to pick up the python programming language overnight this book is just for you hit the ground running and gain a fast paced overview of what the python language is all about the syntax that it uses and the ecosystem of libraries and tools that surround the language this concise book doesn t spend time on details from an introductory programming course or document every single python feature instead python for the busy java developer is designed for experienced java developers to obtain sufficient familiarity with the language and dive into coding quickly what you ll learn discover the fundamentals of the core python language and how they compare to java understand python syntax and the differences between python 2 x and 3 x explore the python ecosystem its standard libraries and how to implement them who this book is for working programmers who are comfortable with java or another object oriented programming language such as c

Python for the Busy Java Developer

2017-11-24

there are many more people who want to study programming other than aspiring computer scientists with a passing grade in advanced calculus this guide appeals to your intelligence and ability to solve practical problems while gently teaching the most recent revision of the programming language python you can learn solid software design skills and accomplish practical programming tasks like extending applications and automating everyday processes even if you have no programming experience at all authors tim hall and j p stacey use everyday language to decode programming jargon and teach python 3 to the absolute beginner

Python 3 for Absolute Beginners

2010-03-10

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

Functional Python Programming

2018-04-13

introduction to python programming is written for students who are beginners in the field of computer programming this book presents an intuitive approach to the concepts of python programming for students this book differs from traditional texts not only in its philosophy but also in its overall focus level of activities development of topics and attention to programming details the contents of the book are chosen with utmost care after analyzing the syllabus for python course prescribed by various top universities in usa europe and asia since the prerequisite know how varies significantly from student to student the book s overall overture addresses the challenges of teaching and learning of students which is fine tuned by the authors experience with large sections of students this book uses natural language expressions instead of the traditional shortened words of the programming world this book has been written with the goal to provide students with a textbook that can be easily understood and to make a connection between what students are learning and how they may apply that knowledge features of this book this book does not assume any previous programming experience although of course any exposure to other programming languages is useful this book introduces all of the key concepts of python programming language with helpful illustrations programming examples are presented in a clear and consistent manner each line of code is numbered and explained in detail use of f strings throughout the book hundreds of real world examples are included and they come from fields such as entertainment sports music and environmental studies students can periodically check their progress

with in chapter quizzes that appear in all chapters

Introduction to Python Programming

2018-12-07

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

Mastering Python

2016-04-29

this book introduces the reader with little or no previous computer programming experience to the python programming language of interest for a physicist or a natural sciences student the book starts with basic interactive python in order to acquire an introductory familiarity with the language than tackle python scripts programs of increasing complexity that the reader is invited to run on her his computer all program listings are discussed in detail and the reader is invited to experiment on what happens if some code lines are modified the reader is introduced to matplotlib graphics for the generation of figures representing data and function plots and for instance field lines animated function plots are also considered a chapter is dedicated to the numerical solution of algebraic and transcendental equations the basic mathematical principles are discussed and the available python tools for the solution are presented a further chapter is dedicated to the numerical solution of ordinary differential equations this is of vital importance for the physicist since differential equations are at the base of both classical physics newton s equations and quantum mechanics schroedinger s equation the shooting method for the numerical solution of ordinary differential equations with boundary conditions at two boundaries is also presented python programs for the solution of two quantum mechanics problems are discussed as examples two chapters are dedicated to tkinter graphics which gives the user more freedom than matplotlib and to tkinter animation programs displaying the animation of physical problems involving the solution of ordinary differential equations for which in most cases there is no algebraic solution in real time are presented and discussed finally 3d animation is presented with vpython

Essential Python for the Physicist

2020-06-02

immerse yourself in learning python and introductory data analytics with this book s project based approach through the structure of a ten week coding bootcamp course you ll learn key concepts and gain hands on experience through weekly projects each chapter in this book is presented as a full week of topics with monday through thursday covering specific concepts leading up to friday when you are challenged to create a project using the skills learned throughout the week topics include python basics and essential intermediate concepts such as list comprehension generators and iterators understanding algorithmic complexity and data analysis with pandas from beginning to end this book builds up your abilities through exercises and challenges culminating in your solid understanding of python challenge yourself with the intensity of a coding bootcamp experience or learn at your own pace with this hands on learning approach you will gain the skills you need to jumpstart a new career in programming or further your current one as a software developer what you will learn understand beginning and more advanced concepts of the python language be introduced to data analysis using pandas the python data analysis library walk

through the process of interviewing and answering technical questions create real world applications with the python language learn how to use anaconda jupyter notebooks and the python shell who this book is for those trying to jumpstart a new career into programming and those already in the software development industry and would like to learn python programming

Python Projects for Beginners

2019-11-15

refine your programming techniques and approaches to become a more productive and creative python programmer this book explores the concepts and features that will improve not only your code but also your understanding of the python community with insights and details about the python philosophy python 3 third edition gives you the tools to write clean innovative code it starts with a review of some core python principles which are illustrated by various concepts and examples later in the book the first half of the book explores aspects of functions classes protocols and strings describing techniques which may not be common knowledge but which together form a solid foundation later chapters cover documentation testing and app distribution along the way you ll develop a complex python framework that incorporates ideas learned throughout the book updates in this edition include the role of iterators in python 3 web scraping with scrapy and beautifulsoup using requests to call web pages without strings new tools for distribution and installation and much more by the end of the book you ll be ready to deploy uncommon features that can take your skills to the next level in python what you ll learn implement programs with various types of python functions work with classes and object oriented programming use strings from the standard library and third party libraries harvest web site data with python automate unit testing by writing a test suite review imaging random number generation and numpy scientific extensions understand the zen of python documentation to help you decide the best way to distribute your code who this book is for intermediate programmers familiar with python who are looking to move to an advanced level you should have written at least a simple python application and be comfortable with a basic object oriented approach using the interactive interpreter and writing control structures

Pro Python 3

2019-03-18

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

Learning Python

2003-12-23

description this book is meant for wide range of readers who wish to learn the basics of python programming language it can be helpful for students programmers researchers and software developers the basic concepts of python programming are dealt in detail the various concepts of python language such as object oriented features operators native data types control structures functions exception handling file handling etc are discussed in detail with the authentic programming illustration of each presently python programming is a hot topic among academicians researchers and program developers as a result the book is designed to give an in depth knowledge of programming in python this book can be used as hand book as well as a guide for students of all computer science stream at any grade beginning from 10 1 to research in phd to conclude we hope that the readers will find this book a helpful guide and valuable source of information about python programming salient features of the book detailed explanation of python programming language concepts detailed comparisons and differentiation of python language from other most popular languages c c++ java authentic and extensive set of programming illustrations in every chapter of the book broad study on all the programming constructs of the python programming language such as native data types looping decision making exception handling file handling etc broad study of python object oriented programming features with illustrations numerous review questions and exercises at the end of every chapter a compact disc containing all the programming codes written in this book is included within the book table of contents introduction to python languagepython data types and input outputoperators and expressionscontrol structurespython native data typespython functionspython modulesexception handlingfile management in pythonclasses and objectsinheritancepython operator overloadingappendix bibliographyindex

PROGRAMMING IN PYTHON

2018-06-06

learn only the essential aspects of python without cluttering up your mind with features you may never use this compact book is not a best way to write code type of book rather the author goes over his most used functions which are all you need to know as a beginner and some way beyond lean python takes 58 python methods and functions and whittles them down to 15 as author paul gerrard says i haven t found a need for the rest what you ll learn discover lean python and how to learn just enough to build useful tools use python objects program structure i o modules and more handle errors and exceptions test your code access the do searching and persist data who this book is for this book is aimed at three categories of reader the experienced programmer if you already know a programming language this book gives you a shortcut to understanding the python language and some of its design philosophy you work in it and need a programming primer you might be a tester who needs to have more informed technical discussions with programmers working through the examples will help you to appreciate the challenge of good programming first timer you want a first book on programming that you can assimilate quickly to help you decide whether programming is for you

Lean Python

2016-11-11

what is python machine learning for beginners don t miss a line read on your pc mac smart phone tablet or kindle device includes 2 manuscripts python machine learning for beginners python is one of the sophisticated machine languages used to program a computer today it can be used to code virtually all computer operations which means it would likely suit what you have in mind too it is used far and wide by standard computer and top tech firms which is one reason every brilliant programmer should learn and understand python machine programming a unique feature of python machine is that it can easily be understood by humans unlike most other computer languages there is a wide range of functions you can perform with python and you would have access to them all and how to apply them like a pro in this e book among others this ebook will guide you from a beginner who has no idea what programming entails to a pro who can smartly code any computer operation neural network is one of the basics you need to understand and you will definitely find a bit by bit overview of the neural networks as well as the processes of the neural networks in here algorithms is another concept that you need to understand from top to bottom the author realizes this and so dedicates a whole chapter to carefully take you through the process of optimizing your machine learning system with algorithm apart from discovering series of programmatic ways you can try you would also get grips to deeper textual and social media data the only part some experts do not understand is how to organize data using pre processing techniques you would certainly not have that problem as it is well analyzed in this e

book sql coding for beginners structured query language sql is one of the foremost programming languages used to coordinate your data when saved in relational databases a lot of firms appreciate sql due to the simplicity in its instructional coding this feature is a top reason you might like to try sql too though there are other features and you would find the full function of the code in this e book often times users are weighed down and distracted from using sql by the fact that it is technical it involves data tables and column navigation the author understands the fear of the learners here and so makes this one of the best informatory e books the e book details a step by step explanation of how to correctly install sql developer as a novice down to the methods with which you can work with data tables and columns there are different types of data and this e book teaches the various methods through which one can different them also how you can ensure integrity of your data you need to learn how to create database in order to conveniently navigate with sql and there is a different chapter for that in this e book alongside how to proper administration of your database security sql injections pivoting data in sql and such relevant items are clearly explained in this book this is why paying close attention to all items in this book is enough to make you a top sql coder download your copy today

Python and Sql Programming

2020-02-11

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and easy to read code listings concise real world examples and exercises in every chapter support instructors and students student and instructor resources are available to expand on the topics presented in the text keep your course current this edition s programs have been tested with python 3 3 2

Starting Out with Python PDF eBook, Global Edition

2015-05-11

this is a great book for python beginner and advanced learner which covers basics to advanced python programming where each topic is explained with the help of illustrations and examples more than 450 solved programs of this book are tested in python 3 4 3 for windows the range of python topics covered makes this book unique which can be used as a self study material or for instructor assisted teaching this books covers python syllabus of all major national and international universities also it includes frequently asked questions for interviews and examination which are provided at the end of each chapter

Taming PYTHON By Programming

2018

this educational book introduces emerging developers to computer programming through the python software development language and serves as a reference book for experienced developers looking to learn a new language or re familiarize themselves with computational logic and syntax

How to Code in Python 3

2017-06-26

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

Learn Python 3 the Hard Way

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