

Starting out with python 2nd edition (Download Only)

Automate the Boring Stuff with Python, 2nd Edition Python Crash Course, 2nd Edition Python for Software Design Think Python Starting Out with Python Fluent Python Black Hat Python, 2nd Edition Clean Code in Python - Second Edition Learn Python in One Day and Learn It Well (2nd Edition) Artificial Intelligence with Python Head First Python Python in easy steps Introducing Python Automate the Boring Stuff with Python, 2nd Edition Beginning Programming with Python For Dummies Python Machine Learning By Example Python for Data Analysis High Performance Python Deep Learning with Python The Quick Python Book Learning Scientific Programming with Python Web Scraping with Python Invent Your Own Computer Games With Python Python in easy steps, 2nd Edition Python for Kids, 2nd Edition HT THINK LIKE A COMPUTER SCIEN Python for Finance Data Science from Scratch Beyond the Basic Stuff with Python Test-Driven Development with Python Object-Oriented Python Black Hat Python, 2nd Edition Programming in Python 3 Introduction to Computation and Programming Using Python, third edition Effective Python Matplotlib for Python Developers An Introduction to Statistical Learning Invent Your Own Computer Games with Python, 4th Edition Data Visualization with Python and JavaScript The Big Book of Small Python Projects

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Automate the Boring Stuff with Python, 2nd Edition 2019-11-12

learn how to code while you write programs that effortlessly perform useful feats of automation the second edition of this international fan favorite includes a brand new chapter on input validation gmail and google sheets automations tips for updating csv files and more if you ve ever spent hours renaming files or updating spreadsheet cells you know how tedious tasks like these can be but what if you could have your computer do them for you automate the boring stuff with python 2nd edition teaches even the technically uninclined how to write programs that do in minutes what would take hours to do by hand no prior coding experience required this new fully revised edition of al sweigart s bestselling pythonic classic automate the boring stuff with python covers all the basics of python 3 while exploring its rich library of modules for performing specific tasks like scraping data off the filling out forms renaming files organizing folders sending email responses and merging splitting or encrypting pdfs there s also a brand new chapter on input validation tutorials on automating gmail and google sheets tips on automatically updating csv files and other recent feats of automations that improve your efficiency detailed step by step instructions walk you through each program allowing you to create useful tools as you build out your programming skills and updated practice projects at the end of each chapter challenge you to improve those programs and use your newfound skills to automate similar tasks boring tasks no longer have to take to get through and neither does learning python

Python Crash Course, 2nd Edition 2019-05-03

the best selling python book in the world with over 1 million copies sold a fast paced no nonsense updated guide to programming in python if you ve been thinking about learning how to code or picking up python this internationally bestselling guide to the most popular programming language is your quickest easiest way to get started and go even if you have no experience whatsoever python crash course 2nd edition will have you writing programs solving problems building computer games and creating data visualizations in no time you ll begin with basic concepts like variables lists classes and loops with the help of fun skill strengthening exercises for every topic then move on to making interactive programs and best practices for testing your code later chapters put your new knowledge into play with three cool projects a 2d space invaders style arcade game a set of responsive data visualizations you ll build with python s handy libraries pygame matplotlib plotly django and a customized web app you can deploy online why wait any longer start your engine and code

Python for Software Design 2009-03-09

python for software design is a concise introduction to software design using the python programming language the focus is on the programming process with special emphasis on debugging the book includes a wide range of exercises from short examples to substantial projects so that students have ample opportunity to practice each new concept

Think Python 2015-12-02

if you want to learn how to program working with python is an excellent way to start this hands on guide takes you through the language a step at a time beginning with basic programming concepts before moving on to functions recursion data structures and object oriented design this second edition and its supporting code have been updated for python 3 through exercises in each chapter you ll try out programming concepts as you learn them think python is ideal for students at the high school or college level as well as self learners home schooled students and professionals who need to learn programming basics beginners just getting their feet wet will learn how to start with python in a browser start with the basics including language syntax and semantics get a clear definition of each programming concept learn about values variables statements functions and data structures in a logical progression discover how to work with files and databases understand objects methods and object oriented programming use debugging techniques to fix syntax runtime and semantic errors explore interface design data structures and gui based programs through case studies

Starting Out with Python 2012

this introductory book uses the python language to teach the fundamentals of data storage input and output control structures functions sequences and lists file i o and objects that are created from standard library classes

Fluent Python 2015-07-30

python's simplicity lets you become productive quickly but this often means you aren't using everything it has to offer with this hands-on guide you'll learn how to write effective idiomatic python code by leveraging its best and possibly most neglected features author luciano ramalho takes you through python's core language features and libraries and shows you how to make your code shorter faster and more readable at the same time many experienced programmers try to bend python to fit patterns they learned from other languages and never discover python features outside of their experience with this book those python programmers will thoroughly learn how to become proficient in python 3 this book covers python data model understand how special methods are the key to the consistent behavior of objects data structures take full advantage of built-in types and understand the text vs bytes duality in the unicode age functions as objects view python functions as first-class objects and understand how this affects popular design patterns object-oriented idioms build classes by learning about references mutability interfaces operator overloading and multiple inheritance control flow leverage context managers generators coroutines and concurrency with the concurrent futures and asyncio packages metaprogramming understand how properties attribute descriptors class decorators and metaclasses work

Black Hat Python, 2nd Edition 2021-04-14

fully updated for python 3 the second edition of this worldwide bestseller over 100 000 copies sold explores the stealthier side of programming and brings you all new strategies for your hacking projects when it comes to creating powerful and effective hacking tools python is the language of choice for most security analysts in this second edition of the bestselling black hat python you'll explore the darker side of python's capabilities everything from writing network sniffers stealing email credentials and bruteforcing directories to crafting mutation fuzzers investigating virtual machines and creating stealthy trojans all of the code in this edition has been updated to python 3 x you'll also find new coverage of bit shifting code hygiene and offensive forensics with the volatility framework as well as expanded explanations of the python libraries ctypes struct lxml and beautifulsoup and offensive hacking strategies like splitting bytes leveraging computer vision libraries and scraping websites you'll even learn how to create a trojan command and control server using github detect sandboxing and automate common malware tasks like keylogging and screenshotting extend the burp suite web hacking tool escalate windows privileges with creative process control use offensive memory forensics tricks to retrieve password hashes and find vulnerabilities on a virtual machine abuse windows com automation exfiltrate data from a network undetected when it comes to offensive security you need to be able to create powerful tools on the fly learn how with black hat python

Clean Code in Python - Second Edition *2020-12-28*

improve your software engineering practices to tackle inefficiencies errors and other perils that emerge due to bad code key features enhance your coding skills to increase efficiency as well as reflect the new features introduced in python 3.9 understand how to apply microservices to your legacy systems by implementing practical techniques learn to implement the refactoring techniques and solid principles in python book description the python language is immensely prevalent in numerous areas such as software construction systems administration and data processing experienced professionals in every field face the challenges of disorganization poor readability and testability due to unstructured code with updated code and revised content aligned to the new features of python 3.9 this second edition of clean code in python will provide you with all the tools you need to overcome these obstacles and manage your projects successfully the book begins by describing the basic elements of writing clean code and how it plays a key role in python programming you will learn about writing efficient and readable code using the python standard library and best practices for software design the book delves more deeply into object oriented programming in python and shows you how to use objects with descriptors and generators it will also show you the design principles of software testing and how to resolve problems by implementing software design patterns in your code in the final chapter we break down a monolithic application to a microservice one starting from the code as the basis for a solid platform by the end of this clean code book you will be proficient in applying industry approved coding practices to design clean sustainable and readable real world python code what you will learn set up a productive development environment by leveraging automatic tools leverage the magic methods in python to write better code abstracting complexity away and encapsulating details create advanced object oriented designs using unique features of python such as descriptors eliminate duplicated code by creating powerful abstractions using software engineering principles of object oriented design create python specific solutions using decorators and descriptors refactor code effectively with the help of unit tests build the foundations for solid architecture with a clean code base as its cornerstone who this book is for this book will appeal to team leads software architects and senior software engineers who want to learn python coding techniques and work on their legacy systems to save cost and improve efficiency the book assumes that you have a strong understanding of programming

Learn Python in One Day and Learn It Well (2nd Edition) *2017-05-04*

have you always wanted to learn computer programming but are afraid it ll be too difficult for you or perhaps you know other programming languages but are interested in learning the python language fast this book is for you page 4 of cover

Artificial Intelligence with Python *2020-01-31*

new edition of the bestselling guide to artificial intelligence with python updated to python 3 x with seven new chapters that cover rnns ai and big data fundamental use cases chatbots and more key features completely updated and revised to python 3 x new chapters for ai on the cloud recurrent neural networks deep learning models and feature selection and engineering learn more about deep learning algorithms machine learning data pipelines and chatbots book description artificial intelligence with python second edition is an updated and expanded version of the bestselling guide to artificial intelligence using the latest version of python 3 x not only does it provide you an introduction to artificial intelligence this new edition goes further by giving you the tools you need to explore the amazing world of intelligent apps and create your own applications this edition also includes seven new chapters on more advanced concepts of artificial intelligence including fundamental use cases of ai machine learning data pipelines feature selection and feature engineering ai on the cloud the basics of chatbots rnns and dl models and ai and big data finally this new edition explores various real world scenarios and teaches you how to apply relevant ai algorithms to a wide swath of problems starting with the most basic ai concepts and progressively building from there to solve more difficult challenges so that by the end you will have gained a solid understanding of and when best to use these many artificial intelligence techniques what you will learn understand what artificial intelligence machine learning and data science are explore the most common artificial intelligence use cases learn how to build a machine learning pipeline assimilate the basics of feature selection and feature engineering identify the differences between supervised and unsupervised learning discover the most recent advances and tools offered for ai development in the cloud develop automatic speech recognition systems and chatbots apply ai algorithms to time series data who this book is for the intended audience for this book is python developers who want to build real world artificial intelligence applications basic python programming experience and awareness of machine learning concepts and techniques is mandatory

Head First Python *2016-11-21*

ever wished you could learn python from a book head first python is a complete learning experience for python that helps you learn the language through a unique method that goes beyond syntax and how to manuals helping you understand how to be a great python programmer you ll quickly learn the language s fundamentals then move onto persistence exception handling web development sqlite data wrangling and google app engine you ll also learn how to write mobile apps for android all thanks to the power that python gives you we think your time is too valuable to waste struggling with new

Python in easy steps *2013-07-25*

python in easy steps instructs you how to program in the powerful python language giving complete examples that illustrate each aspect with colourized source code python in easy steps begins by explaining how to install the free python interpreter so you can quickly begin to create your own executable programs by copying the book s examples it demonstrates all the python language basics before moving on to provide examples of object oriented programming oop and cgi scripting to handle web form data the book concludes by demonstrating how you can use your acquired knowledge to create and deploy graphical windowed applications python in easy steps makes no assumption you have previous knowledge of any programming language so it s ideal for the newcomer to computer programming it has an easy to follow style that will appeal to programmers moving from another programming language and to the student who is studying python programming at school or college and to those seeking a career in computing who need a fundamental understanding of computer programming python is the language used to program the raspberry pi covered by raspberry pi in easy steps

Introducing Python *2019-11-06*

easy to understand and fun to read this updated edition of introducing python is ideal for beginning programmers as well as those new to the language author bill lubanovic takes you from the basics to more involved and varied topics mixing tutorials with cookbook style code recipes to explain concepts in python 3 end of chapter exercises help you practice what you ve learned you ll gain a strong foundation in the language including best practices for testing debugging code reuse and other development tips this book also shows you how to use python for applications in business science and the arts using various python tools and open source packages

Automate the Boring Stuff with Python, 2nd Edition *2019-11-12*

learn how to code while you write programs that effortlessly perform useful feats of automation the second edition of this international fan favorite includes a brand new chapter on input validation gmail and google sheets automations tips for updating csv files and more if you ve ever spent hours renaming files or updating spreadsheet cells you know how tedious tasks like these can be but what if you could have your computer do them for you automate the boring stuff with python 2nd edition teaches even the technically uninclined how to write programs that do in minutes what would take hours to do by hand no prior coding experience required this new fully revised edition of al sweigart s bestselling pythonic classic automate

the boring stuff with python covers all the basics of python 3 while exploring its rich library of modules for performing specific tasks like scraping data off the filling out forms renaming files organizing folders sending email responses and merging splitting or encrypting pdfs there s also a brand new chapter on input validation tutorials on automating gmail and google sheets tips on automatically updating csv files and other recent feats of automations that improve your efficiency detailed step by step instructions walk you through each program allowing you to create useful tools as you build out your programming skills and updated practice projects at the end of each chapter challenge you to improve those programs and use your newfound skills to automate similar tasks boring tasks no longer have to take to get through and neither does learning python

Beginning Programming with Python For Dummies 2018-02-13

the easy way to learn programming fundamentals with python python is a remarkably powerful and dynamic programming language that s used in a wide variety of application domains some of its key distinguishing features include a very clear readable syntax strong introspection capabilities intuitive object orientation and natural expression of procedural code plus python features full modularity supporting hierarchical packages exception based error handling and modules easily written in c c java r or net languages such as c in addition python supports a number of coding styles that include functional imperative object oriented and procedural due to its ease of use and flexibility python is constantly growing in popularity and now you can wear your programming hat with pride and join the ranks of the pros with the help of this guide inside expert author john paul mueller gives a complete step by step overview of all there is to know about python from performing common and advanced tasks to collecting data to interacting with package this book covers it all use python to create and run your first application find out how to troubleshoot and fix errors learn to work with anaconda and use magic functions benefit from completely updated and revised information since the last edition if you ve never used python or are new to programming in general beginning programming with python for dummies is a helpful resource that will set you up for success

Python Machine Learning By Example 2019-02-28

grasp machine learning concepts techniques and algorithms with the help of real world examples using python libraries such as tensorflow and scikit learn key featuresexploit the power of python to explore the world of data mining and data analyticsdiscover machine learning algorithms to solve complex challenges faced by data scientists todayuse python libraries such as tensorflow and keras to create smart cognitive actions for your projectsbook description the surge in interest in machine learning ml is due to the fact that it revolutionizes automation by learning patterns in data and using them to make predictions and decisions if you re interested in ml this book will serve as your entry point to ml python machine learning by example

begins with an introduction to important ml concepts and implementations using python libraries each chapter of the book walks you through an industry adopted application you ll implement ml techniques in areas such as exploratory data analysis feature engineering and natural language processing nlp in a clear and easy to follow way with the help of this extended and updated edition you ll understand how to tackle data driven problems and implement your solutions with the powerful yet simple python language and popular python packages and tools such as tensorflow scikit learn gensim and keras to aid your understanding of popular ml algorithms the book covers interesting and easy to follow examples such as news topic modeling and classification spam email detection stock price forecasting and more by the end of the book you ll have put together a broad picture of the ml ecosystem and will be well versed with the best practices of applying ml techniques to make the most out of new opportunities what you will learn understand the important concepts in machine learning and data science use python to explore the world of data mining and analytics scale up model training using varied data complexities with apache spark delve deep into text and nlp using python libraries such as nltk and gensim select and build an ml model and evaluate and optimize its performance implement ml algorithms from scratch in python tensorflow and scikit learn who this book is for if you re a machine learning aspirant data analyst or data engineer highly passionate about machine learning and want to begin working on ml assignments this book is for you prior knowledge of python coding is assumed and basic familiarity with statistical concepts will be beneficial although not necessary

Python for Data Analysis 2017-09-25

get complete instructions for manipulating processing cleaning and crunching datasets in python updated for python 3.6 the second edition of this hands on guide is packed with practical case studies that show you how to solve a broad set of data analysis problems effectively you ll learn the latest versions of pandas numpy ipython and jupyter in the process written by wes mckinney the creator of the python pandas project this book is a practical modern introduction to data science tools in python it s ideal for analysts new to python and for python programmers new to data science and scientific computing data files and related material are available on github use the ipython shell and jupyter notebook for exploratory computing learn basic and advanced features in numpy numerical python get started with data analysis tools in the pandas library use flexible tools to load clean transform merge and reshape data create informative visualizations with matplotlib apply the pandas groupby facility to slice dice and summarize datasets analyze and manipulate regular and irregular time series data learn how to solve real world data analysis problems with thorough detailed examples

High Performance Python 2020-04-30

your python code may run correctly but you need it to run faster updated for python 3 this expanded edition shows you how to locate performance bottlenecks and significantly speed up your code in high data volume programs by exploring the fundamental theory behind design choices high performance python helps you gain a deeper understanding of python s implementation how do you take advantage of multicore architectures or clusters or build a system that scales up and down without losing reliability experienced python programmers will learn concrete solutions to many issues along with war stories from companies that use high performance python for social media analytics productionized machine learning and more get a better grasp of numpy cython and profilers learn how python abstracts the underlying computer architecture use profiling to find bottlenecks in cpu time and memory usage write efficient programs by choosing appropriate data structures speed up matrix and vector computations use tools to compile python down to machine code manage multiple i o and computational operations concurrently convert multiprocessing code to run on local or remote clusters deploy code faster using tools like docker

Deep Learning with Python 2017-11-30

summary deep learning with python introduces the field of deep learning using the python language and the powerful keras library written by keras creator and google ai researcher françois chollet this book builds your understanding through intuitive explanations and practical examples purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology machine learning has made remarkable progress in recent years we went from near unusable speech and image recognition to near human accuracy we went from machines that couldn t beat a serious go player to defeating a world champion behind this progress is deep learning a combination of engineering advances best practices and theory that enables a wealth of previously impossible smart applications about the book deep learning with python introduces the field of deep learning using the python language and the powerful keras library written by keras creator and google ai researcher françois chollet this book builds your understanding through intuitive explanations and practical examples you ll explore challenging concepts and practice with applications in computer vision natural language processing and generative models by the time you finish you ll have the knowledge and hands on skills to apply deep learning in your own projects what s inside deep learning from first principles setting up your own deep learning environment image classification models deep learning for text and sequences neural style transfer text generation and image generation about the reader readers need intermediate python skills no previous experience with keras tensorflow or machine learning is required about the author françois chollet works on deep learning at google in mountain view ca he is the creator of the

keras deep learning library as well as a contributor to the tensorflow machine learning framework he also does deep learning research with a focus on computer vision and the application of machine learning to formal reasoning his papers have been published at major conferences in the field including the conference on computer vision and pattern recognition cvpr the conference and workshop on neural information processing systems nips the international conference on learning representations iclr and others table of contents part 1 fundamentals of deep learning what is deep learning before we begin the mathematical building blocks of neural networks getting started with neural networks fundamentals of machine learning part 2 deep learning in practice deep learning for computer vision deep learning for text and sequences advanced deep learning best practices generative deep learning conclusions appendix a installing keras and its dependencies on ubuntu appendix b running jupyter notebooks on an ec2 gpu instance

The Quick Python Book *2010*

introduces the programming language s syntax control flow and basic data structures and covers its interaction with applications and mangement of large collections of code

Learning Scientific Programming with Python 2020-10-22

this fast paced introduction to python moves from the basics to advanced concepts enabling readers to gain proficiency quickly

Web Scraping with Python *2015-06-15*

learn web scraping and crawling techniques to access data from any web source in any format teaches basic web scraping mechanics but also delves into more advanced topics such as analyzing raw data or using scrapers for frontend website testing

Invent Your Own Computer Games With Python *2020-12-11*

a note to parents and fellow programmersmy motivation for writing this book comes from a gap i saw in today s literature for kids interested in learning to program i started programming

when i was 9 years old in the basic language with a book similar to this one during the course of writing this i ve realized how a modern language like python has made programming far easier and versatile for a new generation of programmers python has a gentle learning curve while still being a serious language that is used by programmers professionally the current crop of programming books for kids that i ve seen fell into two categories first books that did not teach programming so much as game creation software or a dumbed down languages to make programming easy to the point that it is no longer programming or second they taught programming like a mathematics textbook all principles and concepts with little application given to the reader this book takes a different approach show the source code for games right up front and explain programming principles from the examples who is this book for programming isn t hard but it is hard to find learning materials that teach you to do interesting things with programming other computer books go over many topics that most newbie coders don t need this book will teach you how to program your own computer games you will learn a useful skill and have fun games to show for it this book is for complete beginners who wants to teach themselves computer programming even if they have no previous experience programming kids and teenagers who want to learn computer programming by creating games kids as young as 9 or 10 years old should be able to follow along adults and teachers who wish to teach others programming anyone young or old who wants to learn how to program by learning a professional programming language

Python in easy steps, 2nd Edition *2018-07-17*

python in easy steps 2nd edition instructs you how to program in the powerful python language giving complete examples that illustrate each aspect with colorized source code python in easy steps 2nd edition begins by explaining how to install the free python interpreter so you can quickly begin to create your own executable programs by copying the book s examples it demonstrates all the python language basics before moving on to provide examples of object oriented programming oop and cgi scripting to handle web form data the book concludes by demonstrating how you can use your acquired knowledge to create and deploy graphical windowed applications python in easy steps 2nd edition makes no assumption you have previous knowledge of any programming language so it s ideal for the newcomer to computer programming it has an easy to follow style that will appeal to programmers moving from another programming language and to the student who is studying python programming at school or college and to those seeking a career in computing who need a fundamental understanding of computer programming the python 3 x language is under active development so frequent new releases are made available as small improvements are added to the language and python in easy steps 2nd edition features the very latest versions of python at the time of publication python development is one of evolution rather than revolution so the examples provided in the book can be used in subsequent releases simply download the latest version of python then follow the easy steps python is the language used to program the

raspberry pi covered by raspberry pi in easy steps and raspberry pi 3 in easy steps this second edition is updated to cover python 3 10

Python for Kids, 2nd Edition 2022-11-15

the second edition of the best selling python for kids which brings you and your parents into the world of programming has been completely updated to use the latest version of python along with tons of new projects python is a powerful expressive programming language that s easy to learn and fun to use but books about learning to program in python can be dull and gray and that s no fun for anyone python for kids brings python to life and brings kids and their parents into the wonderful world of programming author jason r briggs guides readers through the basics experimenting with unique and often hilarious example programs that feature ravenous monsters secret agents thieving ravens and more new terms are defined code is colored dissected and explained and quirky full color illustrations keep things fun and engaging throughout chapters end with programming puzzles designed to stretch the brain and strengthen understanding by the end of the book young readers will have programmed two complete games a clone of the famous pong and mr stick man races for the exit a platform game with jumps animation and much more this second edition has been completely updated and revised to reflect the latest python version and programming practices with new puzzles to inspire readers to take their code farther than ever before why should serious adults have all the fun python for kids is the ticket into the amazing world of computer programming

HT THINK LIKE A COMPUTER SCIEN 2016-10-04

the goal of this book is to teach you to think like a computer scientist this way of thinking combines some of the best features of mathematics engineering and natural science like mathematicians computer scientists use formal languages to denote ideas specifically computations like engineers they design things assembling components into systems and evaluating tradeoffs among alternatives like scientists they observe the behavior of complex systems form hypotheses and test predictions the single most important skill for a computer scientist is problem solving problem solving means the ability to formulate problems think creatively about solutions and express a solution clearly and accurately as it turns out the process of learning to program is an excellent opportunity to practice problem solving skills that s why this chapter is called the way of the program on one level you will be learning to program a useful skill by itself on another level you will use programming as a means to an end as we go along that end will become clearer

Python for Finance 2018-12-05

the financial industry has recently adopted python at a tremendous rate with some of the largest investment banks and hedge funds using it to build core trading and risk management systems updated for python 3 the second edition of this hands on book helps you get started with the language guiding developers and quantitative analysts through python libraries and tools for building financial applications and interactive financial analytics using practical examples throughout the book author yves hilpisch also shows you how to develop a full fledged framework for monte carlo simulation based derivatives and risk analytics based on a large realistic case study much of the book uses interactive ipython notebooks

Data Science from Scratch 2015-04-14

data science libraries frameworks modules and toolkits are great for doing data science but they re also a good way to dive into the discipline without actually understanding data science in this book you ll learn how many of the most fundamental data science tools and algorithms work by implementing them from scratch if you have an aptitude for mathematics and some programming skills author joel grus will help you get comfortable with the math and statistics at the core of data science and with hacking skills you need to get started as a data scientist today s messy glut of data holds answers to questions no one s even thought to ask this book provides you with the know how to dig those answers out get a crash course in python learn the basics of linear algebra statistics and probability and understand how and when they re used in data science collect explore clean munge and manipulate data dive into the fundamentals of machine learning implement models such as k nearest neighbors naive bayes linear and logistic regression decision trees neural networks and clustering explore recommender systems natural language processing network analysis mapreduce and databases

Beyond the Basic Stuff with Python 2020-12-16

bridge the gap between novice and professional you ve completed a basic python programming tutorial or finished al sweigart s bestseller automate the boring stuff with python what s the next step toward becoming a capable confident software developer welcome to beyond the basic stuff with python more than a mere collection of advanced syntax and masterful tips for writing clean code you ll learn how to advance your python programming skills by using the command line and other professional tools like code formatters type checkers linters and version control sweigart takes you through best practices for setting up your development environment naming variables and improving readability then tackles documentation

organization and performance measurement as well as object oriented design and the big o algorithm analysis commonly used in coding interviews the skills you learn will boost your ability to program not just in python but in any language you ll learn coding style and how to use python s black auto formatting tool for cleaner code common sources of bugs and how to detect them with static analyzers how to structure the files in your code projects with the cookiecutter template tool functional programming techniques like lambda and higher order functions how to profile the speed of your code with python s built in timeit and cprofile modules the computer science behind big o algorithm analysis how to make your comments and docstrings informative and how often to write them how to create classes in object oriented programming and why they re used to organize code toward the end of the book you ll read a detailed source code breakdown of two classic command line games the tower of hanoi a logic puzzle and four in a row a two player tile dropping game and a breakdown of how their code follows the book s best practices you ll test your skills by implementing the program yourself of course no single book can make you a professional software developer but beyond the basic stuff with python will get you further down that path and make you a better programmer as you learn to write readable code that s easy to debug and perfectly pythonic requirements covers python 3 6 and higher

Test-Driven Development with Python *2017-08-02*

by taking you through the development of a real web application from beginning to end the second edition of this hands on guide demonstrates the practical advantages of test driven development tdd with python you ll learn how to write and run tests before building each part of your app and then develop the minimum amount of code required to pass those tests the result clean code that works in the process you ll learn the basics of django selenium git jquery and mock along with current web development techniques if you re ready to take your python skills to the next level this book updated for python 3 6 clearly demonstrates how tdd encourages simple designs and inspires confidence dive into the tdd workflow including the unit test code cycle and refactoring use unit tests for classes and functions and functional tests for user interactions within the browser learn when and how to use mock objects and the pros and cons of isolated vs integrated tests test and automate your deployments with a staging server apply tests to the third party plugins you integrate into your site run tests automatically by using a continuous integration environment use tdd to build a rest api with a front end ajax interface

Object-Oriented Python 2022-01-25

power up your python with object oriented programming and learn how to write powerful efficient and re usable code object oriented python is an intuitive and thorough guide to mastering object oriented programming from the ground up you ll cover the basics of building classes and creating objects and put theory into practice using the pygame package with clear examples that help visualize the object oriented style you ll explore the key concepts of object oriented programming encapsulation polymorphism and inheritance and learn not just how to code with objects but the absolute best practices for doing so finally you ll bring it all together by building a complex video game complete with full animations and sounds the book covers two fully functional python code packages that will speed up development of graphical user interface gui programs in python

Black Hat Python, 2nd Edition 2021-04-13

fully updated for python 3 the second edition of this worldwide bestseller over 100 000 copies sold explores the stealthier side of programming and brings you all new strategies for your hacking projects when it comes to creating powerful and effective hacking tools python is the language of choice for most security analysts in black hat python 2nd edition you ll explore the darker side of python s capabilities writing network sniffers stealing email credentials brute forcing directories crafting mutation fuzzers infecting virtual machines creating stealthy trojans and more the second edition of this bestselling hacking book contains code updated for the latest version of python 3 as well as new techniques that reflect current industry best practices you ll also find expanded explanations of python libraries such as ctypes struct lxml and beautifulsoup and dig deeper into strategies from splitting bytes to leveraging computer vision libraries that you can apply to future hacking projects you ll learn how to create a trojan command and control using github detect sandboxing and automate common malware tasks like keylogging and screenshotting escalate windows privileges with creative process control use offensive memory forensics tricks to retrieve password hashes and inject shellcode into a virtual machine extend the popular burp suite web hacking tool abuse windows com automation to perform a man in the browser attack exfiltrate data from a network most sneakily when it comes to offensive security your ability to create powerful tools on the fly is indispensable learn how with the second edition of black hat python new to this edition all python code has been updated to cover python 3 and includes updated libraries used in current python applications additionally there are more in depth explanations of the code and the programming techniques have been updated to current common tactics examples of new material that you ll learn include how to sniff network traffic evade anti virus software brute force web applications and set up a command and control c2 system using github

Programming in Python 3 2010

now fully updated this edition brings together all the knowledge needed to write programs use any library and even create new library modules the book teaches every aspect of the python 3 language and covers all the built in functionality

Introduction to Computation and Programming Using Python, third edition 2021-01-26

the new edition of an introduction to the art of computational problem solving using python this book introduces students with little or no prior programming experience to the art of computational problem solving using python and various python libraries including numpy matplotlib random pandas and sklearn it provides students with skills that will enable them to make productive use of computational techniques including some of the tools and techniques of data science for using computation to model and interpret data as well as substantial material on machine learning all of the code in the book and an errata sheet are available on the book s web page on the mit press website

Effective Python 2020

leverage the power of matplotlib to visualize and understand your data more effectively key features perform effective data visualization with matplotlib and get actionable insights from your data design attractive graphs charts and 2d plots and deploy them to the web get the most out of matplotlib in this practical guide with updated code and examples book description python is a general purpose programming language increasingly being used for data analysis and visualization matplotlib is a popular data visualization package in python used to design effective plots and graphs this is a practical hands on resource to help you visualize data with python using the matplotlib library matplotlib for python developers second edition shows you how to create attractive graphs charts and plots using matplotlib you will also get a quick introduction to third party packages seaborn pandas basemap and geopandas and learn how to use them with matplotlib after that you ll embed and customize your plots in third party tools such as gtk 3 qt 5 and wxwidgets you ll also be able to tweak the look and feel of your visualization with the help of practical examples provided in this book further on you ll explore matplotlib 2 1 x on the web from a cloud based platform using third party packages such as django finally you will integrate interactive real time visualization techniques into your current workflow with the help of practical real world examples by the end of this book you ll be thoroughly comfortable with using the popular python data visualization library matplotlib 2 1 x and leveraging its power to build attractive insightful and powerful visualizations what

you will learn create 2d and 3d static plots such as bar charts heat maps and scatter plots get acquainted with gtk 3 qt5 and wxwidgets to understand the ui backend of matplotlib develop advanced static plots with third party packages such as pandas geopandas and seaborn create interactive plots with real time updates develop web based matplotlib powered graph visualizations with third party packages such as django write data visualization code that is readily expandable on the cloud platform who this book is for this book is essentially for anyone who wants to create intuitive data visualizations using the matplotlib library if you re a data scientist or analyst and wish to create attractive visualizations using python you ll find this book useful some knowledge of python programming is all you need to get started

Matplotlib for Python Developers 2018-04-24

an introduction to statistical learning provides an accessible overview of the field of statistical learning an essential toolset for making sense of the vast and complex data sets that have emerged in fields ranging from biology to finance to marketing to astrophysics in the past twenty years this book presents some of the most important modeling and prediction techniques along with relevant applications topics include linear regression classification resampling methods shrinkage approaches tree based methods support vector machines clustering and more color graphics and real world examples are used to illustrate the methods presented since the goal of this textbook is to facilitate the use of these statistical learning techniques by practitioners in science industry and other fields each chapter contains a tutorial on implementing the analyses and methods presented in r an extremely popular open source statistical software platform two of the authors co wrote the elements of statistical learning hastie tibshirani and friedman 2nd edition 2009 a popular reference book for statistics and machine learning researchers an introduction to statistical learning covers many of the same topics but at a level accessible to a much broader audience this book is targeted at statisticians and non statisticians alike who wish to use cutting edge statistical learning techniques to analyze their data the text assumes only a previous course in linear regression and no knowledge of matrix algebra

An Introduction to Statistical Learning 2013-06-24

invent your own computer games with python will teach you how to make computer games using the popular python programming language even if you ve never programmed before begin by building classic games like hangman guess the number and tic tac toe and then work your way up to more advanced games like a text based treasure hunting game and an animated collision dodging game with sound effects along the way you ll learn key programming and math concepts that will help you take your game programming to the next level learn

how to combine loops variables and flow control statements into real working programs choose the right data structures for the job such as lists dictionaries and tuples add graphics and animation to your games with the pygame module handle keyboard and mouse input program simple artificial intelligence so you can play against the computer use cryptography to convert text messages into secret code debug your programs and find common errors as you work through each game you ll build a solid foundation in python and an understanding of computer science fundamentals what new game will you create with the power of python the projects in this book are compatible with python 3

Invent Your Own Computer Games with Python, 4th Edition 2016-12-16

learn how to turn raw data into rich interactive web visualizations with the powerful combination of python and javascript with this hands on guide author kyran dale teaches you how build a basic dataviz toolchain with best of breed python and javascript libraries including scrapy matplotlib pandas flask and d3 for crafting engaging browser based visualizations as a working example throughout the book dale walks you through transforming wikipedia s table based list of nobel prize winners into an interactive visualization you ll examine steps along the entire toolchain from scraping cleaning exploring and delivering data to building the visualization with javascript s d3 library if you re ready to create your own web based data visualizations and know either python or javascript this is the book for you learn how to manipulate data with python understand the commonalities between python and javascript extract information from websites by using python s web scraping tools beautifulsoup and scrapy clean and explore data with python s pandas matplotlib and numpy libraries serve data and create restful web apis with python s flask framework create engaging interactive web visualizations with javascript s d3 library

Data Visualization with Python and JavaScript 2016-06-30

best selling author al sweigart shows you how to easily build over 80 fun programs with minimal code and maximum creativity if you ve mastered basic python syntax and you re ready to start writing programs you ll find the big book of small python projects both enlightening and fun this collection of 81 python projects will have you making digital art games animations counting pro grams and more right away once you see how the code works you ll practice re creating the programs and experiment by adding your own custom touches these simple text based programs are 256 lines of code or less and whether it s a vintage screensaver a snail racing game a clickbait headline generator or animated strands of dna each project is designed to be self contained so you can easily share it online you ll create hangman blackjack and other games to play against your friends or the computer simulations of a forest fire a million dice rolls and a japanese abacus animations like a virtual fish tank a rotating cube and a bouncing dvd logo screensaver a first person 3d maze game encryption programs that

use ciphers like rot13 and vigenère to conceal text if you re tired of standard step by step tutorials you ll love the learn by doing approach of the big book of small python projects it s proof that good things come in small programs

The Big Book of Small Python Projects 2021-06-25

with THE MERMAID PRINCE The Mermaid and out The Bear Mermaid Boys, Vol. 1 edition Two Worlds Collide: Sea & out Air Princess out and Mermaid Nixie Makes Waves with (Mermaids to the Rescue #1) python Bad Mermaids with Captured by An Octopus UNICORN AND python MERMAID Princess and Mermaid starting Salt & with Stone The Mermaids Singing (Tony Hill and Carol Jordan, out Book 1) edition Sleeping With The Fishes Mermaid Coloring Book edition for Kids - Book 1 - Jobs The Blue Mermaid and the edition Little Dolphin Book 1 Stories edition of Mermaids Mermaid Magic python A Mermaid with in Middle Grade The Sunken Ship: An Acorn with Book (Mermaid Days #1) Dreams edition of Mermaid Mermaid's 2nd Destiny 2nd The Mermaid's Tale: Volume 1 Mermaid Holidays 1: with The Talent Show The Mermaid's Voice Returns in python This One Goldy the starting Little Mermaid with In the Name of the Mermaid Princess, Vol. 1 Returning: Mermaid's Return, Book 1 2nd (Free) Mermaid Project - Episode out 1 Mermaid Project starting Episode 1 Trapped in the World 2nd of Mermaids The Little 2nd Mermaid The Unique python Mermaid with Of Priests and Mermaids starting The Mermaid Chair Mermaid Saga Collector's python Edition, Vol. 1 Rosa with and the Water Pony Soul of the Deep edition The Mermaid's Dolphin edition The Mermaid, the Witch, 2nd and the Sea with The Mermaid Murders

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