

Reading free Learn python the hard way zed shaw (PDF)

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Learn Python the Hard Way

2013-09-27

you will learn python zed shaw has perfected the world s best system for learning python follow it and you will succeed just like the hundreds of thousands of beginners zed has taught to date you bring the discipline commitment and persistence the author supplies everything else in learn python the hard way third edition 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 software works what good programs look like how to read write and think about code and how to find and fix your mistakes using tricks professional programmers use most importantly you ll learn the following which you need to start writing excellent python software of your own installing a complete python environment organizing and writing code basic mathematics variables strings and text interacting with users working 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 debugging 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 tutorial 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 watch zed too the accompanying dvd contains 5 hours of passionate powerful teaching a complete python video course

Learn Python 3 the Hard Way

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 C the Hard Way

2015-08-10

you will learn c zed shaw has crafted the perfect course for the beginning c programmer eager to advance their skills in any language follow it and you will learn the many skills early and junior programmers need to succeed just like the hundreds of thousands of programmers zed has taught to date you bring discipline commitment persistence and experience with any programming language the author supplies everything else in learn c the hard way you ll learn c by working through 52 brilliantly crafted exercises watch zed shaw s teaching video and read the exercise type his code precisely no copying and pasting fix your mistakes watch the programs run as you do you ll learn what good modern c programs look like how to think more effectively about code and how to find and fix mistakes far more efficiently most importantly you ll master rigorous defensive programming techniques so you can use any language to create software that protects itself from malicious activity and defects through practical projects you ll apply what you learn to build confidence in your new skills shaw teaches the key skills you need to start writing excellent c software including setting up a c environment basic syntax and idioms compilation make files and linkers operators variables and data types program control arrays and strings functions pointers and structs memory allocation i o and files libraries data structures including linked lists sort and search stacks and queues debugging defensive coding and automated testing fixing stack overflows illegal memory access and more breaking and hacking your own c code it ll be hard at first but soon you ll just get it and that will feel great this tutorial will reward you for every minute you put into it soon you ll know one of the world s most powerful programming languages you ll be a c programmer

Learn Ruby the Hard Way

2014-12-01

you will learn ruby zed shaw has perfected the world s best system for learning ruby follow it and you will succeed just like the hundreds of thousands of beginners zed has taught to date you

bring the discipline commitment and persistence the author supplies everything else in learn ruby the hard way third edition you ll learn ruby 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 software works what good programs look like how to read write and think about code and how to find and fix your mistakes using tricks professional programmers use most importantly you ll learn the following which you need to start writing excellent ruby software of your own installing your ruby environment organizing and writing code ruby symbols and keywords basic mathematics variables and printing strings and text interacting with users working with files using and creating functions looping and logic arrays and elements hashmaps program design object oriented programming inheritance and composition modules classes and objects project skeleton directories debugging and automated testing advanced user input text processing 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 tutorial 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 ruby programmer

Learning Python

2013-06-12

get a comprehensive in depth introduction to the core python language with this hands on book based on author mark lutz s popular training course this updated fifth edition will help you quickly write efficient high quality code with python it s an ideal way to begin whether you re new to programming or a professional developer versed in other languages complete with quizzes exercises and helpful illustrations this easy to follow self paced tutorial gets you started with both python 2.7 and 3.3 the latest releases in the 3.x and 2.x lines plus all other releases in common use today you ll also learn some advanced language features that recently have become more common in python code explore python s major built in object types such as numbers lists and dictionaries create and process objects with python statements and learn python s general syntax model use functions to avoid code redundancy and package code for reuse organize statements functions and other tools into larger components with modules dive into classes python s object oriented programming tool for structuring code write large programs with python s exception handling model and development tools learn advanced python tools including decorators descriptors metaclasses and unicode processing

Learn JavaScript the Hard Way

2023-12-29

you will learn python zed shaw has created the world s most reliable system for learning python follow it and you will succeed just like the millions of beginners zed has taught to date you bring the discipline persistence and attention the author supplies the masterful knowledge you need to succeed in learn python the hard way fifth edition you ll learn python by working through 60 lovingly crafted exercises read them type in the code run it fix your mistakes repeat as you do you ll learn how a computer works how to solve problems and how to enjoy programming even when it s driving you crazy install a complete python environment organize and write code fix and break code basic mathematics strings and text interact with users work with files looping and logic object oriented programming data structures using lists and dictionaries modules classes and objects python packaging automated testing basic sql for data science scraping fixing bad data munging the data part of data science it ll be frustrating at first but if you keep trying you ll get it and it ll feel amazing 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 aspiring data scientists or academics who need to learn to code seasoned professionals looking for a fast simple crash course in python for data science register your book for convenient access to downloads updates and or corrections as they become available see inside book for details

Learn Python the Hard Way

2024-02-26

python is one of the most powerful easy to read programming languages around but it does have its limitations this general purpose high level language that can be extended and embedded is a smart option for many programming problems but a poor solution to others python for dummies is the quick and easy guide to getting the most out of this robust program this hands on book will show you everything you need to know about building programs debugging code and simplifying development as well as defining what actions it can perform you ll wrap yourself around all of its advanced features and become an expert python user in no time this guide gives you the tools you need to master basic elements and syntax document design and debug programs work with strings like a pro direct a program with control structures integrate integers complex numbers and modules build lists stacks and queues create an organized dictionary handle functions data and namespace construct applications with modules and packages call create extend and override classes access the internet to enhance your library understand the new features of python 2.5 packed with critical idioms and great resources to maximize your productivity python for dummies

is the ultimate one stop information guide in a matter of minutes you ll be familiar with python s building blocks strings dictionaries and sets and be on your way to writing the program that you ve dreamed about

Python For Dummies

2011-05-09

updated for the latest database management systems including mysql 6 0 oracle 11g and microsoft s sql server 2008 this introductory guide will get you up and running with sql quickly whether you need to write database applications perform administrative tasks or generate reports learning sql second edition will help you easily master all the sql fundamentals each chapter presents a self contained lesson on a key sql concept or technique with numerous illustrations and annotated examples exercises at the end of each chapter let you practice the skills you learn with this book you will move quickly through sql basics and learn several advanced features use sql data statements to generate manipulate and retrieve data create database objects such as tables indexes and constraints using sql schema statements learn how data sets interact with queries and understand the importance of subqueries convert and manipulate data with sql s built in functions and use conditional logic in data statements knowledge of sql is a must for interacting with data with learning sql you ll quickly learn how to put the power and flexibility of this language to work

Learning SQL

2009-04-11

a guide to sql covers such topics as retrieving records metadata queries working with strings data arithmetic date manipulation reporting and warehousing and hierarchical queries

Learn JavaScript the Hard Way

2024-01-22

python 3 is the best version of the language yet it is more powerful convenient consistent and expressive than ever before now leading python programmer mark summerfield demonstrates how to write code that takes full advantage of python 3 s features and idioms the first book written from a completely python 3 viewpoint programming in python 3 brings together all the knowledge you need to write any program use any standard or third party python 3 library and create new library modules of your own summerfield draws on his many years of python experience to share deep insights into python 3 development you won t find anywhere else he begins by illuminating python s beautiful heart the eight key elements of python you need to write robust high performance programs building on these core elements he introduces new topics designed to strengthen your practical expertise one concept and hands on example at a time this book s coverage includes developing in python using procedural object oriented and functional programming paradigms creating custom packages and modules writing and reading binary text and xml files including optional compression random access and text and xml parsing leveraging advanced data types collections control structures and functions spreading program workloads across multiple processes and threads programming sql databases and key value dbm files utilizing python s regular expression mini language and module building usable efficient gui based applications advanced programming techniques including generators function and class decorators context managers descriptors abstract base classes metaclasses and more programming in python 3 serves as both tutorial and language reference and it is accompanied by extensive downloadable example code all of it tested with the final version of python 3 on windows linux and mac os x

SQL Cookbook

2006

written by the world renowned zed shaw this book of 52 hands on projects is perfect for everyone who s written python code but isn t yet comfortable taking new ideas all the way to finished software the perfect follow up to shaw s best selling learn python the hard way this all new step by step book teaches you how to approach new problems in ways that lead to better solutions analyze a concept idea or problem to implement in code design a solution based on your analysis implement your solution in the simplest way possible systematically improve your programming skills through real projects each project in learn more python the hard way helps you build a key practical skill combining demonstrations to get you started and challenges to help you achieve even deeper understanding shaw organizes this practical programming course into five sections working with commands organizing and using data applying algorithms processing text and implementing simple internet style networking protocols along the way shaw stresses efficient processes and practical hacking mindsets helping you gain true mastery not just follow recipes

Programming in Python 3

2008-12-16

summary hello python fully covers the building blocks of python programming and gives you a

gentle introduction to more advanced topics such as object oriented programming functional programming network programming and program design new or nearly new programmers will learn most of what they need to know to start using python immediately about this book programmers love python because it s fast and efficient shouldn t learning python be just the same hello python starts quickly and simply with a line of python code you ll learn the basics the right way by writing your own programs along the way you ll get a gentle introduction to more advanced concepts and new programming styles no experience with python needed exposure to another programming language is helpful but not required purchase of the print book comes with an offer of a free pdf epub and kindle ebook from manning also available is all code from the book what makes hello python special learn python fast even if you ve never written a line of code before you ll be writing real python apps in just an hour or two great examples there s something new in every chapter including games web programming with django databases and more user friendly guides using lots of illustrations and a down to earth writing style this book invites you to explore python along with half a dozen traveling companions from the user friendly cartoon strip table of contents why python hunt the wumpus interacting with theworld getting organized business oriented programming classes and object oriented programming sufficiently advanced technology django gaming with pyglet twisted networking django revisited where to from here

Learn Python 3 the Hard Way

2017

calculus made easy by silvanus p thompson and martin gardner has long been the most popular calculus primer and this major revision of the classic math text makes the subject at hand still more comprehensible to readers of all levels with a new introduction three new chapters modernized language and methods throughout and an appendix of challenging and enjoyable practice problems calculus made easy has been thoroughly updated for the modern reader

Learn More Python the Hard Way

2016-11-26

what will you learn from this book it s no secret the world around you is becoming more connected more configurable more programmable more computational you can remain a passive participant or you can learn to code with head first learn to code you ll learn how to think computationally and how to write code to make your computer mobile device or anything with a cpu do things for you using the python programming language you ll learn step by step the core concepts of programming as well as many fundamental topics from computer science such as data structures storage abstraction recursion and modularity why does this book look so different based on the latest research in cognitive science and learning theory head first learn to code uses a visually rich format to engage your mind rather than a text heavy approach that puts you to sleep why waste your time struggling with new concepts this multi sensory learning experience is designed for the way your brain really works

Hello! Python

2012-02-12

instant css answers how to s and examples cover

Calculus Made Easy

2014-03-18

python essential reference is the definitive reference guide to the python programming language the one authoritative handbook that reliably untangles and explains both the core python language and the most essential parts of the python library designed for the professional programmer the book is concise to the point and highly accessible it also includes detailed information on the python library and many advanced subjects that is not available in either the official python documentation or any other single reference source thoroughly updated to reflect the significant new programming language features and library modules that have been introduced in python 2.6 and python 3 the fourth edition of python essential reference is the definitive guide for programmers who need to modernize existing python code or who are planning an eventual migration to python 3 programmers starting a new python project will find detailed coverage of contemporary python programming idioms this fourth edition of python essential reference features numerous improvements additions and updates coverage of new language features libraries and modules practical coverage of python s more advanced features including generators coroutines closures metaclasses and decorators expanded coverage of library modules related to concurrent programming including threads subprocesses and the new multiprocessing module up to the minute coverage of how to use python 2.6 s forward compatibility mode to evaluate code for python 3 compatibility improved organization for even faster answers and better usability updates to reflect modern python programming style and idioms updated and improved example code deep coverage of low level system and networking library modules including options not covered in the standard documentation

Head First Learn to Code

2018-01-02

if you are new to programming with python and are looking for a solid introduction this is the book for you developed by computer science instructors books in the for the absolute beginner series teach the principles of programming through simple game creation you will acquire the skills that you need for more practical python programming applications and you will learn how these skills can be put to use in real world scenarios best of all by the time you finish this book you will be able to apply the basic principles youve learned to the next programming language you tackle

The CSS3 Anthology

2012

want to learn the python language without slogging your way through how to manuals with head first python you ll quickly grasp python s fundamentals working with the built in data structures and functions then you ll move on to building your very own webapp exploring database management exception handling and data wrangling if you re intrigued by what you can do with context managers decorators comprehensions and generators it s all here this second edition is a complete learning experience that will help you become a bonafide python programmer in no time why does this book look so different based on the latest research in cognitive science and learning theory head first python uses a visually rich format to engage your mind rather than a text heavy approach that puts you to sleep why waste your time struggling with new concepts this multi sensory learning experience is designed for the way your brain really works

Python Essential Reference

2009-06-29

updated for c11 write powerful c programs without becoming a technical expert this book is the fastest way to get comfortable with c one incredibly clear and easy step at a time you ll learn all the basics how to organize programs store and display data work with variables operators i o pointers arrays functions and much more c programming has never been this simple who knew how simple c programming could be this is today s best beginner s guide to writing c programs and to learning skills you can use with practically any language its simple practical instructions will help you start creating useful reliable c code from games to mobile apps plus it s fully updated for the new c11 standard and today s free open source tools here s a small sample of what you ll learn discover free c programming tools for windows os x or linux understand the parts of a c program and how they fit together generate output and display it on the screen interact with users and respond to their input make the most of variables by using assignments and expressions control programs by testing data and using logical operators save time and effort by using loops and other techniques build powerful data entry routines with simple built in functions manipulate text with strings store information so it s easy to access and use manage your data with arrays pointers and data structures use functions to make programs easier to write and maintain let c handle all your program s math for you handle your computer s memory as efficiently as possible make programs more powerful with preprocessing directives

Python Programming for the Absolute Beginner

2003

based on the bestselling first edition beginning ruby from novice to professional second edition is the leading guide for every type of reader who wants to learn ruby from the ground up the new edition of this book provides the same excellent introduction to ruby as the first edition plus updates for the newest version of ruby including the addition of the sinatra and ramaze web application frameworks and a chapter on gui development so developers can take advantage of these new trends beginning ruby starts by explaining the principles behind object oriented programming and within a few chapters builds toward creating a full ruby application by the end of the book in addition to in depth knowledge of ruby you ll also have basic understanding of many ancillary technologies such as sql xml web frameworks and networking introduces readers to the ruby programming language takes readers from basic programming skills to web development with topics like ruby based frameworks and gui programming covers many ancillary technologies in order to provide a broader picture e g databases xml network daemons

Learn More Python 3 the Hard Way

2017

quick start to learning python very example oriented approach book has its own site established by the author diveintopython.org author is well known in the open source community and the book has a unique quick approach to learning an object oriented language

Head First Python

2016-11-21

this is the ebook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book master the powerful python 3 standard library through real code examples the genius of doug s approach is that with 15 minutes per week any motivated programmer can learn the python standard library doug s guided tour will help you flip the switch to fully power up python s batteries raymond hettinger distinguished python core developer the python 3 standard library contains hundreds of modules for interacting with the operating system interpreter and internet all extensively tested and ready to jump start application development now python expert doug hellmann introduces every major area of the python 3 x library through concise source code and output examples hellmann s examples fully demonstrate each feature and are designed for easy learning and reuse you ll find practical code for working with text data structures algorithms dates times math the file system persistence data exchange compression archiving crypto processes threads networking internet capabilities email developer and language tools the runtime packages and more each section fully covers one module with links to additional resources making this book an ideal tutorial and reference the python 3 standard library by example introduces python 3 x s new libraries significant functionality changes and new layout and naming conventions hellmann also provides expert porting guidance for moving code from 2 x python standard library modules to their python 3 x equivalents manipulate text with string textwrap re regular expressions and difflib use data structures enum collections array heapq queue struct copy and more implement algorithms elegantly and concisely with functools itertools and contextlib handle dates times and advanced mathematical tasks archive and data compression understand data exchange and persistence including json dbm and sqlite sign and verify messages cryptographically manage concurrent operations with processes and threads test debug compile profile language import and package tools control interaction at runtime with interpreters or the environment

C Programming Absolute Beginner's Guide

2013-08-02

this is the ebook version of the printed book this short cut is an introduction and guide to mongrel a fast versatile rubyserver if you build or manage applications this will be a usefulreference as you set up and use mongrel in your development and productionenvironments as well as a handbook for how you can extend mongrel to suityour own needs in addition to covering how to use and extend mongrel we also review anumber of topics that we consider best practices for modern software development deployment and performance testing we discuss these in thecontext of using mongrel but they should be considered applicable to anysoftware project our own work has always benefited from seeing the techniquesof others so we hope that sharing the experience approach andphilosophy that went into designing and developing mongrel will be interesting and helpful for your own pursuits section 1 what this short cut covers 4 section 2 introduction 6 section 3 getting started 13 section 4 configurations 20 section 5 production deployment 37 section 6 extending mongrel 60 section 7 debugging 79 section 8 performance 90 section 9 security 96 resources 103 acknowledgments 105 about the authors 106

Beginning Ruby

2017-01-11

this book explains the fundamentals of computational physics and describes the techniques that every physicist should know such as finite difference methods numerical quadrature and the fast fourier transform the book offers a complete introduction to the topic at the undergraduate level and is also suitable for the advanced student or researcher the book begins with an introduction to python then moves on to a step by step description of the techniques of computational physics with examples ranging from simple mechanics problems to complex calculations in quantum mechanics electromagnetism statistical mechanics and more

THE GUN RIGHTS WAR

1996

learn and use python and pygame to design and build cool arcade games in program arcade games with python and pygame second edition dr paul vincent craven teaches you how to create fun and simple quiz games integrate and start using graphics animate graphics integrate and use game controllers add sound and bit mapped graphics and build grid based games after reading and using this book you ll be able to learn to program and build simple arcade game applications using one of today s most popular programming languages python you can even deploy onto steam and other linux based game systems as well as android one of today s most popular mobile and tablet platforms you ll learn how to create quiz games how to integrate and start using graphics how to animate graphics how to integrate and use game controllers how to add sound and bit mapped graphics how to build grid based games audience div this book assumes no prior programming knowledge

Dive Into Python

2004-07-12

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

The Python 3 Standard Library by Example

2017-06-14

each item in slatkin's effective python teaches a self contained lesson with its own source code this makes the book random access items are easy to browse and study in whatever order the reader needs it will be recommending effective python to students as an admirably compact source of mainstream advice on a very broad range of topics for the intermediate python programmer brandon rhodes software engineer at dropbox and chair of pycon 2016 2017 it's easy to start coding with python which is why the language is so popular however python's unique strengths charms and expressiveness can be hard to grasp and there are hidden pitfalls that can easily trip you up effective python will help you master a truly pythonic approach to programming harnessing python's full power to write exceptionally robust and well performing code using the concise scenario driven style pioneered in scott meyers best selling effective c brett slatkin brings together 59 python best practices tips and shortcuts and explains them with realistic code examples drawing on years of experience building python infrastructure at google slatkin uncovers little known quirks and idioms that powerfully impact code behavior and performance you'll learn the best way to accomplish key tasks so you can write code that's easier to understand maintain and improve key features include actionable guidelines for all major areas of python 3.x and 2.x development with detailed explanations and examples best practices for writing functions that clarify intention promote reuse and avoid bugs coverage of how to accurately express behaviors with classes and objects guidance on how to avoid pitfalls with metaclasses and dynamic attributes more efficient approaches to concurrency and parallelism better techniques and idioms for using python's built in modules tools and best practices for collaborative development solutions for debugging testing and optimization in order to improve quality and performance

Mongrel (Digital Shortcut)

2006-10-18

all the algorithms proofs and implementations in python you need to know for tech job interviews and coding competitions

Computational Physics

2013

the writing idiomatic python book is finally here chock full of code samples you'll learn the pythonic way to accomplish common tasks each idiom comes with a detailed description example code showing the wrong way to do it and code for the idiomatic pythonic alternative this version of the book is for python 3.3 there is also a python 2.7.3 version available writing idiomatic python contains the most common and important python idioms in a format that maximizes identification and understanding each idiom is presented as a recommendation to write some commonly used piece of code it is followed by an explanation of why the idiom is important it also contains two code samples the harmful way to write it and the idiomatic way the harmful way helps you identify the idiom in your own code the idiomatic way shows you how to easily translate that code into idiomatic python this book is perfect for you if you're coming to python from

another programming language if you re learning python as a first programming language if you re looking to increase the readability maintainability and correctness of your python code what is idiomatic python every programming language has its own idioms programming language idioms are nothing more than the generally accepted way of writing a certain piece of code consistently writing idiomatic code has a number of important benefits others can read and understand your code easily others can maintain and enhance your code with minimal effort your code will contain fewer bugs your code will teach others to write correct code without any effort on your part

Program Arcade Games

2015-12-31

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

Beyond the Basic Stuff with Python

2020-12-16

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

Effective Python

2015-02-12

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

Competitive Programming in Python

2020-12-17

becoming a coder is all fun and games everyone should learn to code much like drawing and sketching playing an instrument cooking or taking pictures and shooting videos coding is a creative endeavor which means it s a way to actually create stuff and creating stuff is incredibly rewarding and satisfying sure it s fun to spend hours on your phone looking at what other people have created but that s nothing compared to the joy and satisfaction of creating things that other people consume and use yep coding is fun and if that weren t enough when you learn to code you develop all sorts of invaluable skills and traits beyond just coding these

include planning problem solving communication logic empathy attention to detail patience resilience persistence and creativity and it turns out that these skills especially creativity and creative problem solving are some of the most in demand out there so coding will help your future career too regardless of what that career may be but where to start captain code is a welcoming engaging and fun introduction to becoming a coder designed for the young ages 10 17 and young at heart experienced educators and coders ben shmuel forta will guide you using python one of the most popular programming languages in the world you ll learn by creating games yes games from simple projects to retro text based adventures to complete graphical arcade style games captain code is 400 glossy color pages of goodness packed with welcoming images useful tips and tidbits and engaging readable text that focuses on doing while having fun all code listings are in full color and qr codes link to bonus content downloads challenge solutions and more captain code makes coding exciting and rewarding as it prepares a new generation to take their next steps forward in education careers or both so are you ready to unleash your coding superpower and become captain code

Writing Idiomatic Python 3.3

2013-02-01

The Quick Python Book

2010

Mastering Python

2016-04-29

Introducing Python

2019-11-06

Data Sense

2015-03-03

Captain Code

2021-12-21

Effective Python

2020

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