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Fluent python clear concise and effective programming (1st edition) pdf

Pdf Book Name: Fluent Python Clear, Concise, and Effective Programming 1st Edition Author: Luciano Ramalho Publisher: O'Reilly Media ISBN-10, 13: 1491946008,9781491946008 Year: 2015 Pages: 768 Pages Language: English File size: 18 MB File format: PDF,EPUB Download Fluent Python Clear, Concise, and Effective Programming 1st Edition Pdf Book Description: This book was written for practicing Python programmers who want to become proficient in Python 3. If you know Python 2 but are willing to migrate to Python 3.4 or later, you should be fine. At this writing the majority of professional Python programmers are using Python 2, so I took special care to highlight Python 3 features that may be new to that audience. However, Fluent Python is about making the most of Python 3.4, and I do not spell out the fixes needed to make the code work in earlier versions. Most examples should run in Python 2.7 with little or no changes, but in some cases backporting would require significant rewriting. Having said that, I believe this book may be useful even if you must stick with Python 2.7, because the core concepts are still the same. Python 3 is not a new language, and most differences can be learned in an afternoon. What's New In Python 3.0 is a good starting point. Of course, there have been changes after Python 3.0 was released in 2009, but none as important as those in 3.0. If you are not sure whether you know enough Python to follow along, review the topics of the official Python Tutorial. Topics covered in the tutorial will not be explained here, except for some features that are new in Python 3. If you are just learning Python, this book is going to be hard to follow. Not only that, if you read it too early in your Python journey, it may give you the impression that every Python script should leverage special methods and metaprogramming tricks. Premature abstraction is as bad as premature optimization. This approach has a few advantages. First, knowing what is ready to use can save you from reinventing the wheel. We use existing collection classes more often than we implement our own, and we can give more attention to the advanced usage of available tools by deferring the discussion on how to create new ones. We are also more likely to inherit from existing ABCs than to create a new ABC from scratch. And finally, I believe it is easier to understand the abstractions after you've seen them in action. Often we'll use the interactive Python console to explore the language and libraries. I feel it is important to emphasize the power of this learning tool, particularly for those readers who've had more experience with static, compiled languages that don't provide a REPL read eval print loop. One of the standard Python testing packages, doctest, works by simulating console sessions and verifying that the expressions evaluate to the responses shown. I used doctest to check most of the code in this book, including the console listings. You don't need to use or even know about doctest to follow along; the key feature of doctests is that they look like transcripts of interactive Python console sessions, so you can easily try out the demonstrations yourself. DMCA Disclaimer: This site complies with DMCA Digital Copyright Laws. Please bear in mind that we do not own copyrights to these books. We're sharing this material with our audience ONLY for educational purpose. We highly encourage our visitors to purchase original books from the respected publishers. If someone with copyrights wants us to remove this content, please contact us immediately. All books on the edubookpdf.com are free and NOT HOSTED ON OUR WEBSITE. If you feel that we have violated your copyrights, then please contact us immediately (click here). We use cookies on our website to give you the most relevant experience by remembering your preferences and repeat visits. By clicking "Accept All", you consent to the use of ALL the cookies. However, you may visit "Cookie Settings" to provide a controlled consent.Cookie SettingsAccept AllManage consent 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 objectsData structures: take full advantage of built-in types, and understand the text vs bytes duality in the Unicode ageFunctions as objects: view Python functions as first-class objects, and understand how this affects popular design patternsObject-oriented idioms: build classes by learning about references, mutability, interfaces, operator overloading, and multiple inheritanceControl flow: leverage context managers, generators, coroutines, and concurrency with the concurrent.futures and asyncio packagesMetaprogramming: understand how properties, attribute descriptors, class decorators, and metaclasses work Get full access to Fluent Python and 60K+ other titles, with free 10-day trial of O'Reilly. There's also live online events, interactive content, certification prep materials, and more. 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 objectsData structures: take full advantage of built-in types, and understand the text vs bytes duality in the Unicode ageFunctions as objects: view Python functions as first-class objects, and understand how this affects popular design patternsObject-oriented idioms: build classes by learning about references, mutability, interfaces, operator overloading, and multiple inheritanceControl flow: leverage context managers, generators, coroutines, and concurrency with the concurrent.futures and asyncio packagesMetaprogramming: understand how properties, attribute descriptors, class decorators, and metaclasses work Preface I. Prologue 1. The Python Data Model II. Data Structures 2. An Array of Sequences 3. Dictionaries and Sets 4. Text versus Bytes III. Functions as Objects 5. First-Class Functions 6. Design Patterns with First-Class Functions 7. Function Decorators and Closures IV. Object-Oriented Idioms 8. Object References, Mutability, and Recycling 9. A Pythonic Object 10. Sequence Hacking, Hashing, and Slicing 11. Interfaces: From Protocols to ABCs 12. Inheritance: For Good or For Worse 13. Operator Overloading: Doing It Right V. Control Flow 14. Iterables, Iterators, and Generators 15. Context Managers and else Blocks 16. Coroutines 17. Concurrency with Futures 18. Concurrency with asyncio VI. Metaprogramming 19. Dynamic Attributes and Properties 20. Attribute Descriptors 21. Class Metaprogramming Afterword A. Support Scripts Python Jargon Index I really enjoyed this book from Luciano. It is structured very well, making it suitable for future reference as well, but thanks to the numerous examples with call-outs and great skill in explaining concepts, it was a good read from start to finish as well.For absolute beginners this book is definitely too hard, but for those who have some experience, the book is bound to offer you something, and very likely to offer you a lot. Much which it teaches was familiar to me, but sometimes it doesn't h I really enjoyed this book from Luciano. It is structured very well, making it suitable for future reference as well, but thanks to the numerous examples with call-outs and great skill in explaining concepts, it was a good read from start to finish as well.For absolute beginners this book is definitely too hard, but for those who have some experience, the book is bound to offer you something, and very likely to offer you a lot. Much which it teaches was familiar to me, but sometimes it doesn't hurt to repeat. Moreover, I'm not the expert Luciano is, so some stuff I knew quite well, I now know the absolute core fundamentals of.There was also stuff I barely touched in Python though, or simply never heard of. Usually I mean small things (liked named slicing, and the 'shelve' and 'bisect' libraries), but some big topics are treated so in-depth that it taught me a lot (about class meta programming and the subtleties of concurrent programming in Python for example).On the downside, the book does try to cover many, many topics, and despite the good structuring and explanations, sometimes it tends to have a tough time choosing between going in-depth all the way, or remaining at the surface. Also, in the final chapters I feel there were a lot more typos and potentially some minor mistakes that have made the already difficult stuff in there slightly more challenging even. All in all, however, these are relatively minor criticisms. This book is really good.Highlights from the book for me:- Pt. 1, Ch. 1: The Python Data Model. This is the perfect example of how some of my pre-existing knowledge has been grounded with stronger, more philosophical foundations. Great (re)read for pretty much any Python developer or beginner.- Pt. III: Functions As Objects. I believe many users are too unfamiliar with functional programming ideas, and these chapters give a great introduction to how to use functions in practical and abstract ways.- Pt. IV, Ch. 11: From Protocols to ABCs. A great chapter which covers Python's take on much of the OO philosophy. Great read to get a better grasp on how to think about your Python code.- Pt. V: Control Flow. This entire part is very informative. I knew about generator expressions/functions, but the level of detail here to explain the exact differences between iterables and iterators, function/class approaches thereof, helped me grasp the concepts a lot more fundamentally. Furthermore there's three great chapters about concurrent programming that really gave me a great basis to build on. The difference between threads, callbacks and coroutines, and how coroutines are implemented as generator functions: wow.- Ch. 20: Attribute Descriptors. This chapter explains the descriptor protocol, and how properties and class methods are examples of them. Pretty abstract stuff, but recommended to have read at least.YMVV, but these were the best chapters for me.I thought the book was great, and I would highly recommend it to anyone who's serious about getting better at Python, and wants to cover a lot of ground. ...more

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