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3 Advanced Python Features You Should Know

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In Python a function object is an object reference to any callable, such as a function, a lambda function, or a method. The definition also includes classes, since an object reference to a class is a callable that, when called, returns an object of the given class—for example, x = int (5).

Advanced Python 3 Programming Techniques - O'Reilly Media

This Advanced Python 3 course is for Electronic Engineers in an IC design, evaluation or test role, who wish to apply Python to tasks in the IC design, application, evaluation or test environments. It is expected that attendees have prior work experience with Python or have attended the Introductory Python course.

This short cut is taken from Programming in Python 3: A Complete Introduction to the Python Language (Addison-Wesley, 2009) and provides self-containedcoverage of Python's advanced features. Most of the techniques covered arenot needed every day, but in the right circumstances they can make a crucialdifference, allowing us to write clean and straightforward code rather thanhaving to resort to hacks and workarounds to achieve what we need. The shortcut explains a range of procedural, object-oriented, and functional-style techniques,and the information provided will be a considerable addition to mostPython programmers' toolboxes.

Advanced Guide to Python 3 Programming delves deeply into a host of subjects that you need to understand if you are to develop sophisticated real-world programs. Each topic is preceded by an introduction followed by more advanced topics, along with numerous examples, that take you to an advanced level. There are nine different sections within the book covering Computer Graphics (including GUIs), Games, Testing, File Input and Output, Databases Access, Logging, Concurrency and Parallelism, Reactive programming, and Networking. Each section is self-contained and can either be read on its own or as part of the book as a whole. This book is aimed at the those who have learnt the basics of the Python 3 language but want to delve deeper into Python's eco system of additional libraries and modules, to explore concurrency and parallelism, to create impressive looking graphical interfaces, to work with databases and files and to provide professional logging facilities.

Create distributed applications with clever design patterns to solve complex problems Key Features Set up and run distributed algorithms on a cluster using Dask and PySpark Master skills to accurately implement concurrency in your code Gain practical experience of Python design patterns with real-world examples Book Description This Learning Path shows you how to leverage the power of both native and third-party Python libraries for building robust and responsive applications. You will learn about profilers and reactive programming, concurrency and parallelism, as well as tools for making your apps quick and efficient. You will discover how to write code for parallel architectures using TensorFlow and Theano, and use a cluster of computers for large-scale computations using technologies such as Dask and PySpark. With the knowledge of how Python design patterns work, you will be able to clone objects, secure interfaces, dynamically choose algorithms, and accomplish much more in high performance computing. By the end of this Learning Path, you will have the skills and confidence to build engaging models that quickly offer efficient solutions to your problems. This Learning Path includes content from the following Packt products: Python High Performance - Second Edition by Gabriele Lanaro Mastering Concurrency in Python by Quan Nguyen Mastering Python Design Patterns by Sakis Kasampalis What you will learn Use NumPy and pandas to import and manipulate datasets Achieve native performance with Cython and Numba Write asynchronous code using asyncio and RxPy Design highly scalable programs with application scaffolding Explore abstract methods to maintain data consistency Clone objects using the prototype pattern Use the adapter pattern to make incompatible interfaces compatible Employ the strategy pattern to dynamically choose an algorithm Who this book is for This Learning Path is specially designed for Python developers who want to build high-performance applications and learn about single core and multi-core programming, distributed concurrency, and Python design patterns. Some experience with Python programming language will help you get the most out of this Learning Path.

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.

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.

Get your guided tour through the Python 3.9 interpreter: Unlock the inner workings of the Python language, compile the Python interpreter from source code, and participate in the development of CPython. Are there certain parts of Python that just seem like magic? This book explains the concepts, ideas, and technicalities of the Python interpreter in an approachable and hands-on fashion. Once you see how Python works at the interpreter level, you can optimize your applications and fully leverage the power of Python. By the End of the Book You'll Be Able To: Read and navigate the CPython 3.9 interpreter source code. You'll deeply comprehend and appreciate the inner workings of concepts like lists, dictionaries, and generators. Make changes to the Python syntax and compile your own version of CPython, from scratch. You'll customize the Python core data types with new functionality and run CPython's automated test suite. Master Python's memory management capabilities and scale your Python code with parallelism and concurrency. Debug C and Python code like a true professional. Profile and benchmark the performance of your Python code and the runtime. Participate in the development of CPython and know how to contribute to future versions of the Python interpreter and standard library. How great would it feel to give back to the community as a "Python Core Developer?" With this book you'll cover the critical concepts behind the internals of CPython and how they work with visual explanations as you go along. Each page in the book has been carefully laid out with beautiful typography, syntax highlighting for code examples. What Developers Say About The Book: "It's the book that I wish existed years ago when I started my Python journey. [...] After reading this book your skills will grow and you will be able solve even more complex problems that can improve our world." - Carol Willing, CPython Core Developer & Member of the CPython Steering Council "CPython Internals is a great (and unique) resource for anybody looking to take their knowledge of Python to a deeper level." - Dan Bader, Author of Python Tricks "There are a ton of books on Python which teach the language, but I haven't really come across anything that would go about explaining the internals to those curious minded." - Milan Patel, Vice President at (a major investment bank)

Learn The Advanced Concepts of Python Programming Today! Python is on the rise in the world of coding and many popular technological devices from the Raspberry Pi to the Linux operating system use Python as a crux for not just education, but implementation. Python can help you code your own software, develop your own games and even format your own home surveillance system! It is, hands down, one of the most useful coding languages around, and the way it is formatted cuts out a great deal of the fluff that other coding languages have a tendency to be bogged down with. Whether your interest in Python is educational, career-based, or born out of a simple curiosity, it is a programming language you should know, be fluent in, and put on your resume. This world is quickly evolving into a technology-based society, and knowing a coding language as prominent as Python will not only ensure you a job in the future, but it will provide you with a thick foundation to then build your coding language on, should that be something you are chasing. However, no matter the purpose you have chosen for learning this language, there is no beginner's book that breaks down the language into its original components and strings them together cohesively better than this one. If you are looking for a book that is easy to understand and still provides the easy to digest guidance you want, then look no further than here!

If you're looking for a way to become an expert coder and impress your friends with the programs you can make from scratch, then pay attention. Here's the deal. You've decided that one of the most in-demand skills is the best place to start when making money. However, learning how to code can be a very long and arduous process. But, not learning it and hiring a programmer can be very expensive. You may want to build an app or code a website, but the costs have always been too high, making it pointless and not very cost-effective. Sound familiar? If it does, then the information inside this book is your answer. You will be given all the tips, tricks, and practice codes you need to learn Python, the solid programming language used in hundreds of industries around the world. This information allows you to become skilled much faster and perfect your coding skills in no time. Imagine cutting months off your learning curve and getting a strong base of knowledge in no time at all. Imagine getting your project done yourself for a fraction of the cost. This all is possible with the help of this three-books bundle, featuring beginner, intermediate, and expert guides! This guidebook goes more in-depth about the Python language. This is detailed, scientific information compiled together by experts in an easy-to-listen-to fashion. In this Python guide, you will discover: Book one: The benefits of Python How to get up and running with Python Full instructions of how to code How to make predictions with algorithms Real-world examples of Python The three different examples of coding Book two: The importance of machine learning The basics of working with Python How to set up your Python environment Data preprocessing with machine learning Working with linear regression in machine learning Book three: The best benefits of Python and why programmers around the world choose it How to download the Python language on your computer, regardless of the operating system you prefer How to write your first program in Python What is means to work with an object-oriented programming language How to write conditional statements, loops, functions, variables, classes, exceptions, and more If you want to learn more about how to get the best Python training, and if you are ready to write your own codes and turn your ideas into reality, then simply click the "Buy Now" button on this page to get started.

This document is a self learning document for a course in Python programming. This course contains (1) a part for beginners, (2) a discussion of several advanced topics that are of interest to Python programmers, and (3) a Pythonworkbook with lots of exercises.