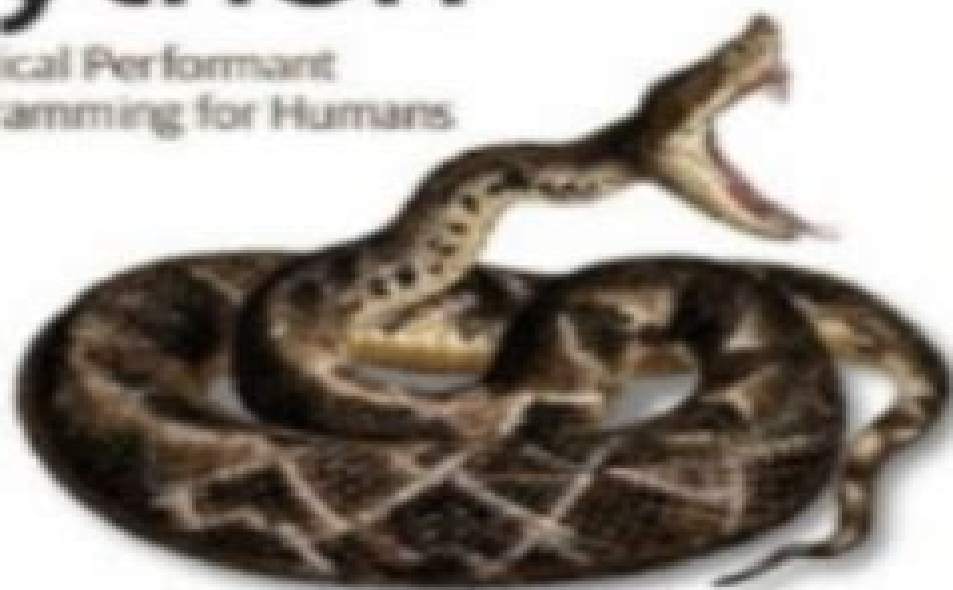


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High Performance Python

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Micha Gorelick & Ian Ozsvald

High Performance Python Practical Performant Programming For Humans

Micha Gorelick, Ian Ozsvald



High Performance Python Practical Performant Programming For Humans:

High Performance Python Micha Gorelick, Ian Ozsvald, 2014-08-22 Your Python code may run correctly but you need it to run faster By exploring the fundamental theory behind design choices this practical guide helps you gain a deeper understanding of Python's implementation You'll learn how to locate performance bottlenecks and significantly speed up your code in high data volume programs How can you take advantage of multi-core architectures or clusters Or build a system that can scale up and down without losing reliability Experienced Python programmers will learn concrete solutions to these and other issues along with war stories from companies that use high performance Python for social media analytics productionized machine learning and other situations 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 a local or remote cluster Solve large problems while using less RAM

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Engineering for Data Scientists Catherine Nelson,2024-04-16 Data science happens in code The ability to write reproducible robust scaleable code is key to a data science project s success and is absolutely essential for those working with production code This practical book bridges the gap between data science and software engineering and clearly explains how to apply the best practices from software engineering to data science Examples are provided in Python drawn from popular packages such as NumPy and pandas If you want to write better data science code this guide covers the essential topics that are often missing from introductory data science or coding classes including how to Understand data structures and object oriented programming Clearly and skillfully document your code Package and share your code Integrate data science code with a larger code base Learn how to write APIs Create secure code Apply best practices to common tasks such as testing error handling and logging Work more effectively with software engineers Write more efficient maintainable and robust code in Python Put your data science projects into production And more Chemical and

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Intelligence Mu-Yen Chen,Edwin Lughofer,Jose De Jesus Rubio,Yenchun Jim Wu,2021-09-13 *Interval Methods for Solving Nonlinear Constraint Satisfaction, Optimization and Similar Problems* Bartłomiej Jacek Kubica,2019-03-08 This book

highlights recent research on interval methods for solving nonlinear constraint satisfaction optimization and similar problems Further it presents a comprehensive survey of applications in various branches of robotics artificial intelligence systems economics control theory dynamical systems theory and others Three appendices on the notation representation of numbers used as intervals endpoints and sample implementations of the interval data type in several programming languages round out the coverage **Engenharia de Software para Cientistas de Dados** Catherine Nelson,2024-08-20 A ci ncia de dados

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multiprocessing code to run on a local or remote cluster Deploy code faster using tools like Docker Solve large problems while using less RAM Get real life stories and lessons from Python programmers *Advanced Python Programming* Dr. Gabriele Lanaro, Quan Nguyen, Sakis Kasampalis, 2019-02-28 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 *High Performance Python* Andrew Lewis, 2009 [Mastering Python High Performance](#) Fernando Doglio, 2015-09-09 Measure optimize and improve the performance of your Python code with this easy to follow guide About This Book Master the do's and don'ts of Python performance programming Learn how to use exiting new tools that will help you improve your scripts A step by step conceptual guide to teach you how to optimize and fine tune your critical pieces of code Who This Book Is For If you're a Python developer looking to improve the speed of your scripts or simply wanting to take your skills to the next level then this book is perfect for you What You Will Learn Master code optimization step by step and learn how to use different tools Understand what a profiler is and how to read its output Interpret visual output from profiling tools and improve the performance of your script Use Cython to create fast applications using Python and C Take advantage of PyPy to improve performance of Python code Optimize number crunching code with NumPy Numba Parakeet and Pandas In Detail Simply

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