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# Python High Performance Programming

Boost the performance of your Python programs using advanced techniques

Gabriele Lanaro

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# Python High Performance Programming Lanaro Gabriele

**Tiago Rodrigues Antao**



## **Python High Performance Programming Lanaro Gabriele:**

Python High Performance Programming Gabriele Lanaro, 2013 An exciting easy to follow guide illustrating the techniques to boost the performance of Python code and their applications with plenty of hands on examples If you are a programmer who likes the power and simplicity of Python and would like to use this language for performance critical applications this book is ideal for you All that is required is a basic knowledge of the Python programming language The book will cover basic and advanced topics so will be great for you whether you are a new or a seasoned Python developer **Python High**

**Performance** Gabriele Lanaro, 2017-05-24 Learn how to use Python to create efficient applications About This Book Identify the bottlenecks in your applications and solve them using the best profiling techniques Write efficient numerical code in NumPy Cython and Pandas Adapt your programs to run on multiple processors and machines with parallel programming Who This Book Is For The book is aimed at Python developers who want to improve the performance of their application Basic knowledge of Python is expected What You Will Learn Write efficient numerical code with the NumPy and Pandas libraries Use Cython and Numba to achieve native performance Find bottlenecks in your Python code using profilers Write asynchronous code using Asyncio and RxPy Use Tensorflow and Theano for automatic parallelism in Python Set up and run distributed algorithms on a cluster using Dask and PySpark In Detail Python is a versatile language that has found applications in many industries The clean syntax rich standard library and vast selection of third party libraries make Python a wildly popular language Python High Performance is a practical guide that shows how to leverage the power of both native and third party Python libraries to build robust applications The book explains how to use various profilers to find performance bottlenecks and apply the correct algorithm to fix them The reader will learn how to effectively use NumPy and Cython to speed up numerical code The book explains concepts of concurrent programming and how to implement robust and responsive applications using Reactive programming Readers will learn 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 By the end of the book readers will have learned to achieve performance and scale from their Python applications Style and approach A step by step practical guide filled with real world use cases and examples **Python**

**High Performance, Second Edition** Gabriele Lanaro, 2017-05-24 Learn how to use Python to create efficient applications About This Book Identify the bottlenecks in your applications and solve them using the best profiling techniques Write efficient numerical code in NumPy Cython and Pandas Adapt your programs to run on multiple processors and machines with parallel programming Who This Book Is For The book is aimed at Python developers who want to improve the performance of their application Basic knowledge of Python is expected What You Will Learn Write efficient numerical code with the NumPy and Pandas libraries Use Cython and Numba to achieve native performance Find bottlenecks in your Python code using profilers Write asynchronous code using Asyncio and RxPy Use Tensorflow and Theano for automatic parallelism

in Python Set up and run distributed algorithms on a cluster using Dask and PySparkIn DetailPython is a versatile language that has found applications in many industries The clean syntax rich standard library and vast selection of third party libraries make Python a wildly popular language Python High Performance is a practical guide that shows how to leverage the power of both native and third party Python libraries to build robust applications The book explains how to use various profilers to find performance bottlenecks and apply the correct algorithm to fix them The reader will learn how to effectively use NumPy and Cython to speed up numerical code The book explains concepts of concurrent programming and how to implement robust and responsive applications using Reactive programming Readers will learn 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 By the end of the book readers will have learned to achieve performance and scale from their Python applications Style and approachA step by step practical guide filled with real world use cases and examples

**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 FeaturesSet up and run distributed algorithms on a cluster using Dask and PySparkMaster skills to accurately implement concurrency in your codeGain practical experience of Python design patterns with real world examplesBook 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 LanaroMastering Concurrency in Python by Quan NguyenMastering Python Design Patterns by Sakis KasampalisWhat you will learnUse NumPy and pandas to import and manipulate datasetsAchieve native performance with Cython and NumbaWrite asynchronous code using asyncio and RxPyDesign highly scalable programs with application scaffoldingExplore abstract methods to maintain data consistencyClone objects using the prototype patternUse the adapter pattern to make incompatible interfaces compatibleEmploy the strategy pattern to dynamically choose an algorithmWho 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 *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 knowing how to code is not enough on mission critical pieces of code every bit of memory and every CPU cycle counts and knowing how to squish every bit of processing power out of your code is a crucial and sought after skill Nowadays Python is used for many scientific projects and sometimes the calculations done in those projects require some serious fine tuning Profilers are tools designed to help you measure the performance of your code and help you during the optimization process so knowing how to use them and read their output is very handy This book starts from the basics and progressively moves on to more advanced topics You ll learn everything from profiling all the way up to writing a real life application and applying a full set of tools designed to improve it in different ways In the middle you ll stop to learn about the major profilers used in Python and about some graphic tools to help you make sense of their output You ll then move from generic optimization techniques onto Python specific ones going over the main constructs of the language that will help you improve your speed without much of a change Finally the book covers some number crunching specific libraries and how to use them properly to get the best speed out of them After reading this book you will know how to take any Python code profile it find out where the bottlenecks are and apply different techniques to remove them Style and approach This easy to follow practical guide will help you enhance your optimization skills by improving real world code

### **Python Parallel Programming Cookbook**

Giancarlo Zaccone,2015-08-26 Master efficient parallel programming to build powerful applications using Python About This Book Design and implement efficient parallel software Master new programming techniques to address and solve complex programming problems Explore the world of parallel programming with this book which is a go to resource for different kinds of parallel computing tasks in Python using examples and topics covered in great depth Who This Book Is For Python Parallel Programming Cookbook is intended for software developers who are well versed with Python and want to use parallel programming techniques to write powerful and efficient code This book will help you master the basics and the advanced of parallel computing What You Will Learn Synchronize multiple threads and processes to manage parallel tasks Implement message passing communication between processes to build parallel applications Program your own GPU cards to address complex problems Manage computing entities to execute distributed computational tasks Write efficient programs

by adopting the event driven programming model Explore the cloud technology with Django and Google App Engine Apply parallel programming techniques that can lead to performance improvements In Detail Parallel programming techniques are required for a developer to get the best use of all the computational resources available today and to build efficient software systems From multi core to GPU systems up to the distributed architectures the high computation of programs throughout requires the use of programming tools and software libraries Because of this it is becoming increasingly important to know what the parallel programming techniques are Python is commonly used as even non experts can easily deal with its concepts This book will teach you parallel programming techniques using examples in Python and will help you explore the many ways in which you can write code that allows more than one process to happen at once Starting with introducing you to the world of parallel computing it moves on to cover the fundamentals in Python This is followed by exploring the thread based parallelism model using the Python threading module by synchronizing threads and using locks mutex semaphores queues GIL and the thread pool Next you will be taught about process based parallelism where you will synchronize processes using message passing along with learning about the performance of MPI Python Modules You will then go on to learn the asynchronous parallel programming model using the Python asyncio module along with handling exceptions Moving on you will discover distributed computing with Python and learn how to install a broker use Celery Python Module and create a worker You will also understand the StarCluster framework Pycsp Scoop and Disco modules in Python Further on you will learn GPU programming with Python using the PyCUDA module along with evaluating performance limitations Next you will get acquainted with the cloud computing concepts in Python using Google App Engine GAE and building your first application with GAE Lastly you will learn about grid computing concepts in Python and using PyGlobus toolkit GFTP and GASS COPY to transfer files and service monitoring in PyGlobus Style and approach A step by step guide to parallel programming using Python with recipes accompanied by one or more programming examples It is a practically oriented book and has all the necessary underlying parallel computing concepts

**Python Game Programming By Example** Alejandro Rodas de Paz, Joseph Howse, 2015-09-28 A pragmatic guide for developing your own games with Python About This Book Strengthen your fundamentals of game programming with Python language Seven hands on games to create 2D and 3D games rapidly from scratch Illustrative guide to explore the different GUI libraries for building your games Who This Book Is For If you have ever wanted to create casual games in Python and you would like to explore various GUI technologies that this language offers this is the book for you This title is intended for beginners to Python with little or no knowledge of game development and it covers step by step how to build seven different games from the well known Space Invaders to a classical 3D platformer What You Will Learn Take advantage of Python s clean syntax to build games quickly Discover distinct frameworks for developing graphical applications Implement non player characters NPCs with autonomous and seemingly intelligent behaviors Design and code some popular games like Pong and tower defense Compose maps and levels for your

sprite based games in an easy manner Modularize and apply object oriented principles during the design of your games Exploit libraries like Chimpunk2D cocos2d and Tkinter Create natural user interfaces NUIs using a camera and computer vision algorithms to interpret the player s real world actions In Detail With a growing interest in learning to program game development is an appealing topic for getting started with coding From geometry to basic Artificial Intelligence algorithms there are plenty of concepts that can be applied in almost every game Python is a widely used general purpose high level programming language It provides constructs intended to enable clear programs on both a small and large scale It is the third most popular language whose grammatical syntax is not predominantly based on C Python is also very easy to code and is also highly flexible which is exactly what is required for game development The user friendliness of this language allows beginners to code games without too much effort or training Python also works with very little code and in most cases uses the use cases approach reserving lengthy explicit coding for outliers and exceptions making game development an achievable feat Python Game Programming by Example enables readers to develop cool and popular games in Python without having in depth programming knowledge of Python The book includes seven hands on projects developed with several well known Python packages as well as a comprehensive explanation about the theory and design of each game It will teach readers about the techniques of game design and coding of some popular games like Pong and tower defense Thereafter it will allow readers to add levels of complexities to make the games more fun and realistic using 3D At the end of the book you will have added several GUI libraries like Chimpunk2D cocos2d and Tkinter in your tool belt as well as a handful of recipes and algorithms for developing games with Python Style and approach This book is an example based guide that will teach you to build games using Python This book follows a step by step approach as it is aimed at beginners who would like to get started with basic game development By the end of this book you will be competent game developers with good knowledge of programming in Python

**Hands-On Genetic Algorithms with Python** Eyal Wirsansky, 2024-07-12 Explore the ever growing world of genetic algorithms to build and enhance AI applications involving search optimization machine learning deep learning NLP and XAI using Python libraries Key Features Learn how to implement genetic algorithms using Python libraries DEAP scikit learn and NumPy Take advantage of cloud computing technology to increase the performance of your solutions Discover bio inspired algorithms such as particle swarm optimization PSO and NEAT Purchase of the print or Kindle book includes a free PDF eBook Book Description Written by Eyal Wirsansky a senior data scientist and AI researcher with over 25 years of experience and a research background in genetic algorithms and neural networks Hands On Genetic Algorithms with Python offers expert insights and practical knowledge to master genetic algorithms After an introduction to genetic algorithms and their principles of operation you ll find out how they differ from traditional algorithms and the types of problems they can solve followed by applying them to search and optimization tasks such as planning scheduling gaming and analytics As you progress you ll delve into explainable AI and apply genetic algorithms to AI to improve machine learning

and deep learning models as well as tackle reinforcement learning and NLP tasks This updated second edition further expands on applying genetic algorithms to NLP and XAI and speeding up genetic algorithms with concurrency and cloud computing You ll also get to grips with the NEAT algorithm The book concludes with an image reconstruction project and other related technologies for future applications By the end of this book you ll have gained hands on experience in applying genetic algorithms across a variety of fields with emphasis on artificial intelligence with Python What you will learn Use genetic algorithms to solve planning scheduling gaming and analytics problems Create reinforcement learning NLP and explainable AI applications Enhance the performance of ML models and optimize deep learning architecture Deploy genetic algorithms using client server architectures enhancing scalability and computational efficiency Explore how images can be reconstructed using a set of semi transparent shapes Delve into topics like elitism niching and multiplicity in genetic solutions to enhance optimization strategies and solution diversity Who this book is for If you re a data scientist software developer AI enthusiast who wants to break into the world of genetic algorithms and apply them to real world intelligent applications as quickly as possible this book is for you Working knowledge of the Python programming language is required to get started with this book

*Mastering Python Scientific Computing* Hemant Kumar Mehta, 2015-09-23 A complete guide for Python programmers to master scientific computing using Python APIs and tools About This Book The basics of scientific computing to advanced concepts involving parallel and large scale computation are all covered Most of the Python APIs and tools used in scientific computing are discussed in detail The concepts are discussed with suitable example programs Who This Book Is For If you are a Python programmer and want to get your hands on scientific computing this book is for you The book expects you to have had exposure to various concepts of Python programming What You Will Learn Fundamentals and components of scientific computing Scientific computing data management Performing numerical computing using NumPy and SciPy Concepts and programming for symbolic computing using SymPy Using the plotting library matplotlib for data visualization Data analysis and visualization using Pandas matplotlib and IPython Performing parallel and high performance computing Real life case studies and best practices of scientific computing In Detail In today s world along with theoretical and experimental work scientific computing has become an important part of scientific disciplines Numerical calculations simulations and computer modeling in this day and age form the vast majority of both experimental and theoretical papers In the scientific method replication and reproducibility are two important contributing factors A complete and concrete scientific result should be reproducible and replicable Python is suitable for scientific computing A large community of users plenty of help and documentation a large collection of scientific libraries and environments great performance and good support makes Python a great choice for scientific computing At present Python is among the top choices for developing scientific workflow and the book targets existing Python developers to master this domain using Python The main things to learn in the book are the concept of scientific workflow managing scientific workflow data and performing computation on



this data using Python The book discusses NumPy SciPy SymPy matplotlib Pandas and IPython with several example programs Style and approach This book follows a hands on approach to explain the complex concepts related to scientific computing It details various APIs using appropriate examples

**Алгоритмы Data Science** Пётр Пылов, Владимир Садовников, Андрей Протодяконов, 2022-08-02 Data Science

**Основы работы с моделями машинного и глубокого обучения** Пётр Пылов, Роман Майтак, Анна Дягилева, 2023-09-09 Data Science

**Методы восстановления непараметрической регрессии в условиях несбалансированных данных** Пётр Пылов, Роман Майтак, Анна Дягилева, Анжелика Салычева, 2024-07-17

*Изучение искусственного интеллекта на основе принципа интенсификации обучения* Пётр Пылов, Роман Майтак, Анна Дягилева, 2024-07-17

Python avancé et programmation scientifique - Techniques d'algorithmisation et de construction de programmes compacts et efficaces Jerzy Karczmarczuk, 2019-10-01 Cet ouvrage présente les techniques de programmation avancées dans le contexte numérique ainsi que dans les domaines de visualisation et traitement d'images Il compte plusieurs sujets faire en autonomie

High Performance Python Micha Gorelick, Ian Ozsvald, 2014-08-22 If you're an experienced Python programmer High Performance Python will guide you through the various routes of code optimization You'll learn how to use smarter algorithms and leverage peripheral technologies such as numpy cython cpython and various multi threaded and multi node strategies There's a lack of good learning and reference material available if you want to learn Python for highly computational tasks Because of its fields from physics to biology and systems infrastructure to data science are hitting barriers They need the fast prototyping nature of Python but too few people know how to wield it Publisher's description

High Performance Python Micha Gorelick, 2014 If you're an experienced Python programmer High Performance Python will guide you through the various routes of code optimization You'll learn how to use smarter algorithms and leverage peripheral technologies such as numpy cython cpython and various multi threaded and multi node strategies There's a lack of good learning and reference material available if you want to learn Python for highly computational tasks Because of its fields from physics to biology and systems infrastructure to data science are hitting barriers They need the fast prototyping nature of Python but too few people know how to wield it Publisher's description

High Performance Python Andrew Lewis, 2009

Mastering Performance Optimization in Python: Unlock the Secrets of Expert-Level Skills Larry Jones, 2025-03-04 Dive deep into the art and science of Python performance enhancement with Mastering Performance Optimization in Python Unlock the Secrets of Expert Level Skills This advanced guide transforms seasoned developers into Python performance experts by exploring sophisticated techniques that elevate coding prowess From runtime environments and data handling to memory management and concurrency this book provides the essential insights needed to navigate and conquer complex performance challenges Each chapter meticulously breaks down intricate concepts presenting clear actionable strategies for real world application Discover how to leverage Python's built-in libraries utilize asynchronous programming and implement multithreading and

multiprocessing for optimal efficiency With a focus on profiling benchmarking and continuous monitoring the book ensures that readers develop the skills to not only identify but also rectify performance bottlenecks delivering applications that are both robust and scalable Mastering Performance Optimization in Python is more than a technical manual it s a key to unlocking efficiency With practical examples and expert insights this book empowers you to elevate your Python applications and redefine performance standards in your projects Equip yourself with the tools and knowledge to push boundaries and achieve excellence in Python programming      **Fast Python** Tiago Rodrigues Antao,2023-05-23 Fast Python is a toolbox of techniques for speeding up Python with an emphasis on big data applications For intermediate Python programmers familiar with the basics of concurrency Page 4 of cover      *Python for High Performance I/O* Johannes Coym,2019

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