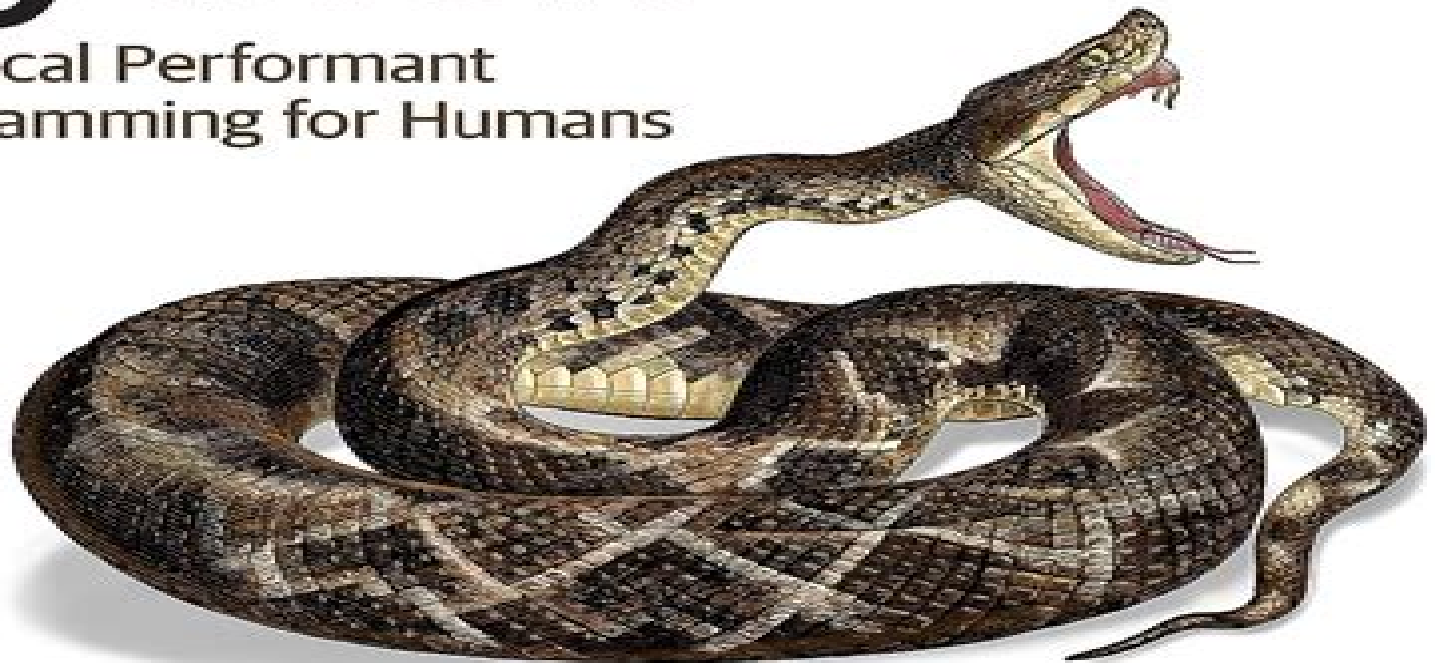


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High Performance Python

Practical Performant
Programming for Humans



Micha Gorelick & Ian Ozsvald

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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.

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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.

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.

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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 [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 [Advanced Python Programming](#) Quan Nguyen, 2022-03-25 Write fast robust and highly reusable applications using Python s internal optimization state of the art performance benchmarking tools and cutting edge libraries Key Features Benchmark profile and accelerate Python programs using optimization tools Scale applications to multiple processors with concurrent programming Make applications robust and reusable using effective design patterns Book Description Python s powerful capabilities for

implementing robust and efficient programs make it one of the most sought after programming languages In this book you ll explore the tools that allow you to improve performance and take your Python programs to the next level This book starts by examining the built in as well as external libraries that streamline tasks in the development cycle such as benchmarking profiling and optimizing You ll then get to grips with using specialized tools such as dedicated libraries and compilers to increase your performance at number crunching tasks including training machine learning models The book covers concurrency a major solution to making programs more efficient and scalable and various concurrent programming techniques such as multithreading multiprocessing and asynchronous programming You ll also understand the common problems that cause undesirable behavior in concurrent programs Finally you ll work with a wide range of design patterns including creational structural and behavioral patterns that enable you to tackle complex design and architecture challenges making your programs more robust and maintainable By the end of the book you ll be exposed to a wide range of advanced functionalities in Python and be equipped with the practical knowledge needed to apply them to your use cases

What You Will Learn

- Write efficient numerical code with NumPy pandas and Xarray
- Use Cython and Numba to achieve native performance
- Find bottlenecks in your Python code using profilers
- Optimize your machine learning models with JAX
- Implement multithreaded multiprocessing and asynchronous programs
- Solve common problems in concurrent programming such as deadlocks
- Tackle architecture challenges with design patterns

Who this book is for

This book is for intermediate to experienced Python programmers who are looking to scale up their applications in a systematic and robust manner

Programmers from a range of backgrounds will find this book useful including software engineers scientific programmers and software architects

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In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**High Performance Python Practical Performant Programming For Humans Ian Ozsvald**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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