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## High Performance Python



Micha Gorelick & Ian Ozsvald

**Quan Nguyen** 

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 High Performance Python Micha Gorelick, Ian Ozsvald, 2025-05-31 Your Python code may run correctly but what if you need it to run faster This practical book shows you how to locate performance bottlenecks and significantly speed up your code in high data volume programs By explaining the fundamental theory behind design choices this expanded edition of High Performance Python helps experienced Python programmers gain a deeper understanding of Python's implementation How do you take advantage of multicore architectures or clusters Or build a system that scales up and down without losing reliability Authors Micha Gorelick and Ian Ozsvald reveal concrete solutions to many issues and include war stories from companies that use high performance Python for social media analytics productionized machine learning and more 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 Process DataFrames quickly with pandas Dask and Polars Speed up your neural networks and GPU computations Use tools to compile Python down to machine code Manage multiple I O and computational operations concurrently Convert multiprocessing code to run on local or remote clusters Deploy code faster using tools like Docker

**High Performance Python** Micha Gorelick,Ian Ozsvald,2020-09-08 Your Python code may run correctly but you need it to run faster By exploring the fundamental theory behind design choices the updated edition of this practical guide expanded and enhanced for Python 3 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 multicore architectures or clusters Or build a system that can scale up and down without losing reliability Experienced Python programmers and students alike 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 Understand performant pandas Use profiling to find bottlenecks in CPU time and memory usage Write efficient programs by choosing appropriate data structures Speed up matrix vector and even tensor computations Use tools to compile Python down to machine code on CPUs and GPUs Manage multiple I O and computational operations concurrently Convert 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 High Performance Python Micha Gorelick, Ian Ozsvald, 2020-04-30 Your Python code may run correctly but you need it to run faster Updated for Python 3 this expanded edition shows you how to locate performance bottlenecks and significantly speed up your code in high data volume programs By exploring the fundamental theory behind design choices High Performance Python helps you gain a deeper understanding of Python's implementation How do you take advantage of multicore architectures or clusters Or build a system that scales up and down without losing reliability Experienced Python programmers will learn concrete solutions to many issues along with war stories from companies that use high performance Python for social media analytics productionized machine learning and more 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 local or remote clusters Deploy code faster using tools like Docker Numerical Python Robert Johansson, 2024-09-27 Learn how to leverage the scientific computing and data analysis capabilities of Python its standard library and popular open source numerical Python packages like NumPy SymPy SciPy matplotlib and more This book demonstrates how to work with mathematical modeling and solve problems with numerical symbolic and visualization techniques It explores applications in science engineering data analytics and more Numerical Python Third Edition presents many case study examples of applications in fundamental scientific computing disciplines as well as in data science and statistics This fully revised edition updated for each library s latest version demonstrates Python s power for rapid development and exploratory computing due to its simple and high level syntax and many powerful libraries and tools for computation and data analysis After reading this book readers will be familiar with many computing techniques including array based and symbolic computing visualization and numerical file I O equation solving optimization interpolation and integration and domain specific computational problems such as differential equation solving data analysis statistical modeling and machine learning What You ll Learn Work with vectors and matrices using NumPy Review Symbolic computing with SymPy Plot and visualize data with Matplotlib Perform data analysis tasks with Pandas and SciPy Understand statistical modeling and machine learning with

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## **Table of Contents High Performance Python Practical Performant Programming For Humans**

- 1. Understanding the eBook High Performance Python Practical Performant Programming For Humans
  - The Rise of Digital Reading High Performance Python Practical Performant Programming For Humans
  - Advantages of eBooks Over Traditional Books
- 2. Identifying High Performance Python Practical Performant Programming For Humans
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an High Performance Python Practical Performant Programming For Humans
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from High Performance Python Practical Performant Programming For Humans
  - Personalized Recommendations
  - High Performance Python Practical Performant Programming For Humans User Reviews and Ratings
  - High Performance Python Practical Performant Programming For Humans and Bestseller Lists
- 5. Accessing High Performance Python Practical Performant Programming For Humans Free and Paid eBooks
  - $\circ \ \ High\ Performance\ Python\ Practical\ Performant\ Programming\ For\ Humans\ Public\ Domain\ eBooks$
  - High Performance Python Practical Performant Programming For Humans eBook Subscription Services
  - High Performance Python Practical Performant Programming For Humans Budget-Friendly Options

- 6. Navigating High Performance Python Practical Performant Programming For Humans eBook Formats
  - o ePub, PDF, MOBI, and More
  - High Performance Python Practical Performant Programming For Humans Compatibility with Devices
  - High Performance Python Practical Performant Programming For Humans Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of High Performance Python Practical Performant Programming For Humans
  - Highlighting and Note-Taking High Performance Python Practical Performant Programming For Humans
  - Interactive Elements High Performance Python Practical Performant Programming For Humans
- 8. Staying Engaged with High Performance Python Practical Performant Programming For Humans
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers High Performance Python Practical Performant Programming For Humans
- 9. Balancing eBooks and Physical Books High Performance Python Practical Performant Programming For Humans
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection High Performance Python Practical Performant Programming For Humans
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine High Performance Python Practical Performant Programming For Humans
  - Setting Reading Goals High Performance Python Practical Performant Programming For Humans
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of High Performance Python Practical Performant Programming For Humans
  - Fact-Checking eBook Content of High Performance Python Practical Performant Programming For Humans
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

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