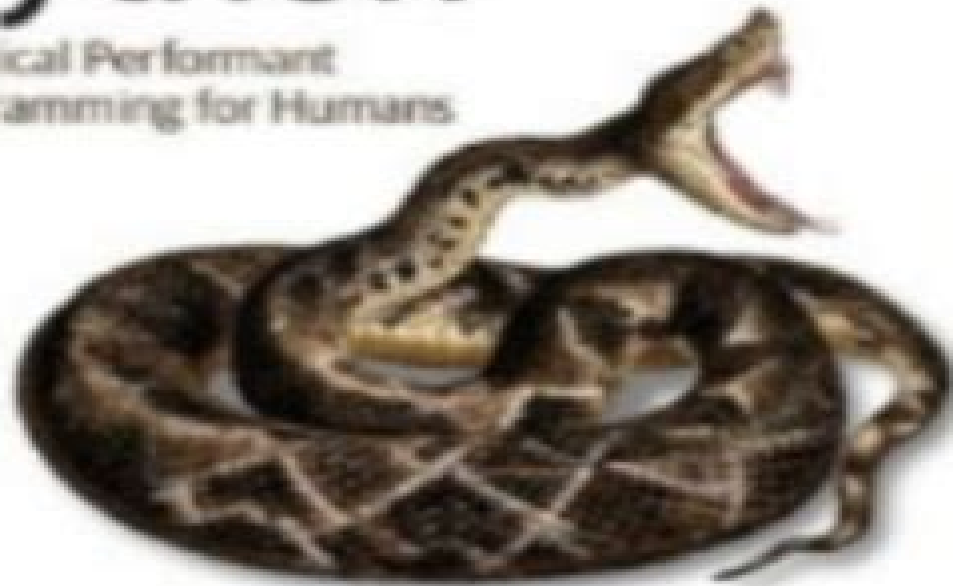


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Micha Gorelick & Ian Ozsvald

High Performance Python Practical Performant Programming For Humans

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High Performance Python Practical Performant Programming For Humans:

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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

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Chemical and Biomedical Engineering Calculations Using Python Jeffrey J. Heys, 2017-01-10 Presents standard numerical approaches for solving common mathematical problems in engineering using Python Covers the most common numerical calculations used by engineering students Covers Numerical Differentiation and Integration Initial Value Problems Boundary Value Problems and Partial Differential Equations Focuses on open ended real world problems that require students to write a short report memo as part of the solution process Includes an electronic download of the Python codes presented in the book

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Anticipatory Systems: Humans Meet Artificial 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

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