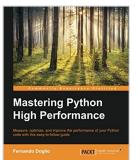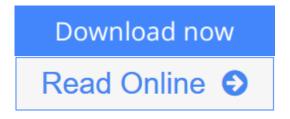# Mastering Python High Performance

*By Fernando Doglio*



**Mastering Python High Performance** By Fernando Doglio

**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.

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**Mastering Python High Performance By Fernando Doglio Bibliography**

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## Editorial Review

About the Author

**Fernando Doglio**

Fernando Doglio has been working as a web developer for the past 10 years. During that time, he shifted his focus to the Web and grabbed the opportunity of working with most of the leading technologies, such as PHP, Ruby on Rails, MySQL, Python, Node.js, AngularJS, AJAX, REST APIs, and so on. In his spare time, Fernando likes to tinker and learn new things. This is why his GitHub account keeps getting new repos every month. He's also a big open source supporter and tries to win the support of new people with the help of his website, lookingforpullrequests.com. You can reach him on Twitter at @deleteman123. When he is not programming, he spends time with his family.

## Users Review

**From reader reviews:**

**Daisy Richardson:**

The event that you get from Mastering Python High Performance could be the more deep you rooting the information that hide into the words the more you get considering reading it. It doesn't mean that this book is hard to understand but Mastering Python High Performance giving you buzz feeling of reading. The writer conveys their point in specific way that can be understood through anyone who read this because the author of this book is well-known enough. This particular book also makes your own personal vocabulary increase well. It is therefore easy to understand then can go along with you, both in printed or e-book style are available. We propose you for having this kind of Mastering Python High Performance instantly.

**Thomas Ellis:**

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**Dolores Albert:**

Mastering Python High Performance can be one of your starter books that are good idea. We all recommend that straight away because this book has good vocabulary that can increase your knowledge in terminology, easy to understand, bit entertaining but nonetheless delivering the information. The author giving his/her effort that will put every word into joy arrangement in writing Mastering Python High Performance although

doesn't forget the main position, giving the reader the hottest as well as based confirm resource facts that maybe you can be among it. This great information can certainly drawn you into brand new stage of crucial imagining.

**Cindy Mattis:**

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