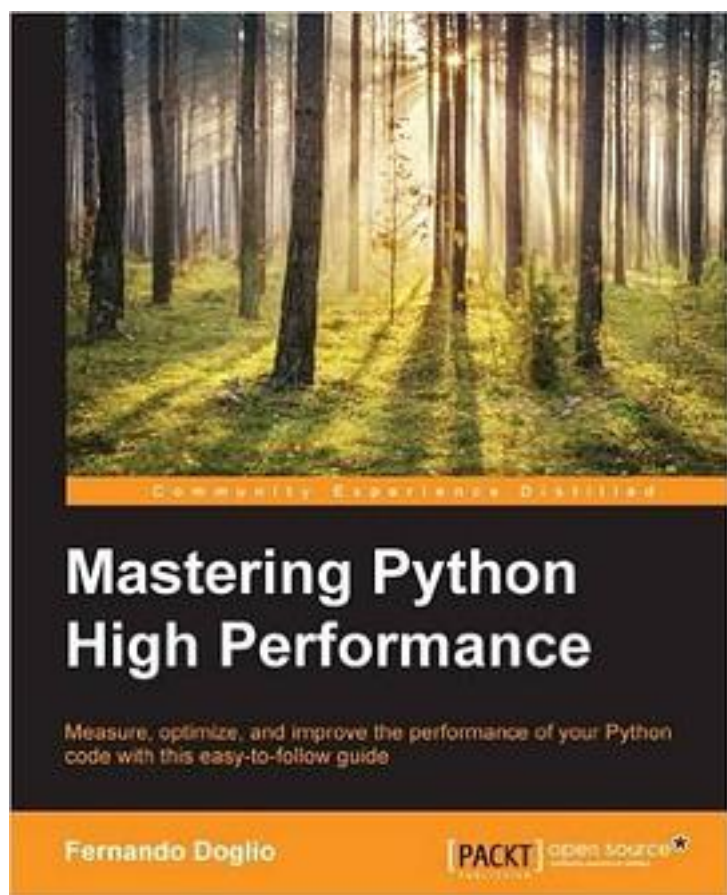


# Mastering Python High Performance



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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.

## 作者介绍:

Fernando Doglio has been working as a Web Developer for the past 10 years. In that time, he's come to love the web, and has had the opportunity of working with most of the leading technologies at the time, such as PHP, Ruby on Rails, MySQL, Node.js, Angular.js, AJAX, REST APIs and others.

In his spare time, he likes to tinker and learn new things, which is why his Github

account keeps getting new repos every month. He's also a big Open Source supporter, trying to convert new people into it with the help of the site he created: [www.lookingforpullrequests.com](http://www.lookingforpullrequests.com).

He can be contacted on twitter at: @deleteman123

When not programming, he can be seen spending time with his family.

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## 标签

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## 评论

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## 书评

如果你没有见过自己写的代码的运行时间图，如果你没有听说过函数缓存这个名词，那么你可以看看这本书。

从买书到大概看完这本书我就花了4天，可以说内容是非常简单的——不过内容简单不代表没有意义。作为一个新手，我从这本书里学到了——

1.一定要先看可视化的运行时间图，找...

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