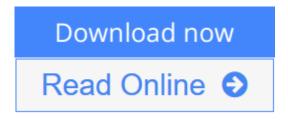# Fluent Python: Clear, Concise, and Effective Programming

By Luciano Ramalho

Fluent Python: Clear, Concise, and Effective Programming By Luciano Ramalho

Python's simplicity lets you become productive quickly, but this often means you aren't using everything it has to offer. With this hands-on guide, you'll learn how to write effective, idiomatic Python code by leveraging its best—and possibly most neglected—features. Author Luciano Ramalho takes you through Python's core language features and libraries, and shows you how to make your code shorter, faster, and more readable at the same time.

Many experienced programmers try to bend Python to fit patterns they learned from other languages, and never discover Python features outside of their experience. With this book, those Python programmers will thoroughly learn how to become proficient in Python 3.

This book covers:

- **Python data model:** understand how special methods are the key to the consistent behavior of objects
- **Data structures:** take full advantage of built-in types, and understand the text vs bytes duality in the Unicode age
- **Functions as objects:** view Python functions as first-class objects, and understand how this affects popular design patterns
- **Object-oriented idioms:** build classes by learning about references, mutability, interfaces, operator overloading, and multiple inheritance
- **Control flow:** leverage context managers, generators, coroutines, and concurrency with the concurrent.futures and asyncio packages
- **Metaprogramming:** understand how properties, attribute descriptors, class decorators, and metaclasses work

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Editorial Review

From the Author
Who This Book Is For
This book was written for **practicing Python programmers** who want to become proficient in Python 3. If you know Python 2 but are willing to migrate to Python 3.4 or later, you should be fine. [...]

If you are not sure whether you know enough Python to follow along, review the topics of the official Python Tutorial. Topics covered in the tutorial will not be explained here, except for some features that are new in Python 3.

Who This Book Is Not For
If you are just learning Python, this book is going to be hard to follow. Not only that, if you read it too early in your Python journey, it may give you the impression that every Python script should leverage special methods and metaprogramming tricks. Premature abstraction is as bad as premature optimization.

(extracted from the Preface, page xvi, emphasis added)

About the Author

Luciano Ramalho was a Web developer before the Netscape IPO in 1995, and switched from Perl to Java to Python in 1998. Since then he worked on some of the largest news portals in Brazil using Python, and taught Python web development in the Brazilian media, banking and government sectors. His speaking credentials include PyCon US (2013), OSCON (2002, 2013), and 15 talks over the years at PythonBrasil (the Brazilian PyCon) and FISL (the largest FLOSS conference in the Southern Hemisphere). Ramalho is a member of the Python Software Foundation and co-founder of Garoa Hacker Clube, the first hackerspace in Brazil. He is co-owner of Python.pro.br, atraining company.

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