



# Professional Python

By Luke Sneeringer

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## Professional Python By Luke Sneeringer

### Master the secret tools every Python programmer needs to know

*Professional Python* goes beyond the basics to teach beginner- and intermediate-level Python programmers the little-known tools and constructs that build concise, maintainable code. Design better architecture and write easy-to-understand code using highly adoptable techniques that result in more robust and efficient applications. Coverage includes Decorators, Context Managers, Magic Methods, Class Factories, Metaclasses, Regular Expressions, and more, including advanced methods for unit testing using asyncio and CLI tools. Each topic includes an explanation of the concept and a discussion on applications, followed by hands-on tutorials based on real-world scenarios. The "Python 3 first" approach covers multiple current versions, while ensuring long-term relevance.

Python offers many tools and techniques for writing better code, but often confusing documentation leaves many programmers in the dark about how to use them. This book shines a light on these incredibly useful methods, giving you clear guidance toward building stronger applications.

- Learn advanced Python functions, classes, and libraries
- Utilize better development and testing tools
- Understand the "what," "when," "why," and "how"

More than just theory or a recipe-style walk-through, this guide helps you learn — and understand — these little-known tools and techniques. You'll streamline your workflow while improving the quality of your output, producing more robust applications with cleaner code and stronger architecture. If you're ready to take your Python skills to the next level, *Professional Python* is the invaluable guide that will get you there.

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### Editorial Review

#### Review

*“Sneeringer’s book doesn’t duplicate titles which tell you everything there is to know; instead, it takes key powerful features, grouped by sensible examples, then tells you what you need to know about them and shows you how to use them...All in all, a good second Python book if you’re beginning to spend more time with the language.”* (MagPi, February 2016)

From the Back Cover

### Streamline your workflow as you learn to write better code

Python is powerful, dynamic, and the fastest-growing programming language. While it offers many tools for writing advanced, concise, and maintainable code, a clear explanation of the techniques has been greatly lacking. This guide provides the primer you need to unlock all the power of Python. Full explanations of each concept, discussions about applications, and hands-on tutorials teach you to design better architecture and write code that result in more robust and efficient applications. If you are already familiar with Python and ready to access all it has to offer, this book is for you.

#### **Professional Python:**

- Covers all the features of the language, including functions and how to apply decorators, context managers, and generators
- Examines Python's classes and object model, metaclasses, class factories, and abstract base classes
- Demonstrates how to navigate using Unicode strings and how strings differ between Python 2 and Python 3
- Provides an in-depth look at the distinctions between Python 2 and Python 3 and how to write code interoperable with both
- Explores unit testing, command-line interface tools, and the new asynchronous programming library

**Wrox Professional guides** are planned and written by working programmers to meet the real-world needs of programmers, developers, and IT professionals. Focused and relevant, they address the issues technology professionals face every day. They provide examples, practical solutions, and expert education in new technologies, all designed to help programmers do a better job.

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