



# Python in Practice: Create Better Programs Using Concurrency, Libraries, and Patterns (Developer's Library)

By Mark Summerfield

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**Python in Practice: Create Better Programs Using Concurrency, Libraries, and Patterns (Developer's Library)** By Mark Summerfield

Winner of the 2014 Jolt Award for "Best Book"

*"Whether you are an experienced programmer or are starting your career, Python in Practice is full of valuable advice and example to help you improve your craft by thinking about problems from different perspectives, introducing tools, and detailing techniques to create more effective solutions."*

—**Doug Hellmann**, Senior Developer, DreamHost

If you're an experienced Python programmer, *Python in Practice* will help you improve the quality, reliability, speed, maintainability, and usability of all your Python programs.

Mark Summerfield focuses on four key themes: design patterns for coding elegance, faster processing through concurrency and compiled Python (Cython), high-level networking, and graphics. He identifies well-proven design patterns that are useful in Python, illuminates them with expert-quality code, and explains why some object-oriented design patterns are irrelevant to Python. He also explodes several counterproductive myths about Python programming—showing, for example, how Python can take full advantage of multicore hardware.

All examples, including three complete case studies, have been tested with Python 3.3 (and, where possible, Python 3.2 and 3.1) and crafted to maintain compatibility with future Python 3.x versions. All code has been tested on Linux, and most code has also been tested on OS X and Windows. All code may be downloaded at [www.qtrac.eu/pipbook.html](http://www.qtrac.eu/pipbook.html).

Coverage includes

- Leveraging Python's most effective creational, structural, and behavioral design patterns

- Supporting concurrency with Python's multiprocessing, threading, and concurrent.futures modules
- Avoiding concurrency problems using thread-safe queues and futures rather than fragile locks
- Simplifying networking with high-level modules, including xmlrpclib and RPyC
- Accelerating Python code with Cython, C-based Python modules, profiling, and other techniques
- Creating modern-looking GUI applications with Tkinter
- Leveraging today's powerful graphics hardware via the OpenGL API using pyglet and PyOpenGL

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### Editorial Review

From the Author

The book has won the Dr Dobbs JOLT best book award 2014. Amazon don't allow links so you'd have to search for it. Here are the first and last paragraphs of their review by Gigi Sayfan:

*"Mark Summerfield's Python in Practice is a fascinating book intended for intermediate and advanced Python developers. Rather than being a primer, it attacks advanced issues in Python -- the ones that go beyond bread-and-butter programming. It imparts the skills that distinguish the expert from the journeyman. In other words, if you're a decent, but not yet great Python programmer, this is book is for you."*

...

*"Overall, the book has the right mix of high-level concepts, low-level details, and code samples. Its pragmatic treatment of useful topics, lucid explanations, succinct code, and careful attention to presentation make it an excellent book for intermediate to advanced Python developers and the Jolt Award winner for 2014."*

About the Author

**Mark Summerfield**, owner of Qtrac Ltd., is an independent trainer, consultant, technical editor, and writer specializing in C++, Go, Python, Qt, and PyQt. His books include *Rapid GUI Programming with Python and Qt*; *C++ GUI Programming with Qt 4, Second Edition* (with Jasmin Blanchette); *Programming inPython 3, Second Edition*; and *Advanced Qt Programming, and Programming in Go*, all from Addison-Wesley.

### Users Review

**From reader reviews:**

**Geraldine Bagley:**

The book Python in Practice: Create Better Programs Using Concurrency, Libraries, and Patterns (Developer's Library) will bring you to the new experience of reading a book. The author style to clarify the idea is very unique. In case you try to find new book to study, this book very appropriate to you. The book Python in Practice: Create Better Programs Using Concurrency, Libraries, and Patterns (Developer's Library) is much recommended to you to read. You can also get the e-book from the official web site, so you can more readily to read the book.

**Jeffrey Dominguez:**

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**Lisa Martin:**

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**Iva Simmon:**

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