



# Programming in Python 3: A Complete Introduction to the Python Language (2nd Edition)

*Mark Summerfield*

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**Programming in Python 3: A Complete Introduction to the Python Language (2nd Edition)** Mark Summerfield

**A Fully Revised Edition Featuring New Material on Coroutines, Debugging, Testing, Parsing, String Formatting, and More**

Python 3 is the best version of the language yet: It is more powerful, convenient, consistent, and expressive than ever before. Now, leading Python programmer Mark Summerfield demonstrates how to write code that takes full advantage of Python 3's features and idioms. *Programming in Python 3, Second Edition*, brings together all the knowledge you need to write any program, use any standard or third-party Python 3 library, and create new library modules of your own.

Summerfield draws on his many years of Python experience to share deep insights into Python 3 development you won't find anywhere else. He begins by illuminating Python's "beautiful heart": the eight key elements of Python you need to write robust, high-performance programs. Building on these core elements, he introduces new topics designed to strengthen your practical expertise-one concept and hands-on example at a time. Coverage includes

- Developing in Python using procedural, object-oriented, and functional programming paradigms
- Creating custom packages and modules
- Writing and reading binary, text, and XML files, including optional compression, random access, and text and XML parsing
- Leveraging advanced data types, collections, control structures, and functions
- Spreading program workloads across multiple processes and threads
- Programming SQL databases and key-value DBM files
- Debugging techniques-and using Test Driven Development to avoid bugs in the first place
- Utilizing Python's regular expression mini-language and module
- Parsing techniques, including how to use the third-party PyParsing and PLY modules
- Building usable, efficient, GUI-based applications
- Advanced programming techniques, including generators, function and class decorators, context managers, descriptors, abstract base classes, metaclasses, coroutines, and more

*Programming in Python 3, Second Edition*, serves as both tutorial and language reference. It assumes some prior programming experience, and is accompanied by extensive downloadable example code-all of it tested with Python 3 on Windows, Linux, and Mac OS X. This edition covers Python 3.0 and 3.1, and due to the Python language moratorium it is also valid for Python 3.2 which has the same *language* as Python 3.1.

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