



Wesley J. Chun

Core Python Programming Second Edition

©2007, Paper, 1120 pages,
0-13-226993-7

Python is an agile, robust, expressive, fully object-oriented, extensible, and scalable programming language. It combines the power of compiled languages with the simplicity and rapid development of scripting languages. In *Core Python Programming, Second Edition*, leading Python developer and trainer Wesley Chun helps you learn Python quickly and comprehensively so that you can immediately succeed with any Python project.

Using practical code examples, Chun introduces all the fundamentals of Python programming: syntax, objects and memory management, data types, operators, files and I/O, functions, generators, error handling and exceptions, loops, iterators, functional programming, object-oriented programming and more. After you learn the core fundamentals of Python, he shows you what you can do with your new skills, delving into advanced topics, such as regular expressions, networking programming with sockets, multithreading, GUI development, Web/CGI programming and extending Python in C.

This edition reflects major enhancements in the Python 2.x series, including 2.5 as well as capabilities set for future versions. It contains new chapters on database and Internet client programming, plus coverage of many new topics, including new-style classes, Java and Jython, Microsoft Office (Win32 COM Client) programming, and much more.

- Learn professional Python style, best practices, and good programming habits
- Gain a deep understanding of Python's objects and memory model as well as its OOP features, including those found in Python's new-style classes
- Build more effective Web, CGI, Internet, and network and other client/server applications
- Learn how to develop your own GUI applications using Tkinter and other toolkits available for Python
- Improve the performance of your Python applications by writing extensions in C and other languages, or enhance I/O-bound applications by using multithreading
- Learn about Python's database API and how to use a variety of database systems with Python, including MySQL, Postgres, and SQLite

Core Python Programming delivers

- Systematic, expert coverage of Python's core features
- Powerful insights for developing complex applications
- Easy-to-use tables and charts detailing Python modules, operators, functions, and methods
- Dozens of professional-quality code examples, from quick snippets to full-fledged applications

- New to Python?
The definitive guide to Python development for experienced programmers
- Covers core language features thoroughly, including those found in the latest Python releases
- Learn advanced topics such as regular expressions, networking, multithreading, GUI, and Web/CGI
- Includes brand-new chapters on database, Internet, Jython, and COM Client programming
- Presents hundreds of code samples and practical exercises to strengthen your Python skills

About the Author

WESLEY J. CHUN currently runs a consulting business specializing in Python software engineering and technical corporate training (<http://www.cyberwebconsulting.com>). He has been programming, teaching, and writing since 1980, including more than a decade's experience with Python. While at Yahoo!, he helped create Yahoo!Mail and Yahoo! People Search using Python. He holds degrees in computer science, mathematics, and music from the University of California.

For more information visit: www.prenhallprofessional.com/title/0132269937
Available wherever technical books are sold.



TABLE OF CONTENTS

Preface
Acknowledgments

**PART I:
CORE PYTHON**

Chapter 1
Welcome to Python!

Chapter 2
Getting Started

Chapter 3
Python Basics

Chapter 4
Python Objects

Chapter 5
Numbers

Chapter 6
Sequences: Strings,
Lists, and Tuples

Chapter 7
Mapping and Set Types

Chapter 8
Conditionals and Loops

Chapter 9
Files and Input/Output

Chapter 10
Errors and Exceptions

Chapter 11
Functions and Functional
Programming

Chapter 12
Modules

Chapter 13
Object-Oriented
Programming

Chapter 14
Execution Environment

**PART II:
ADVANCED TOPICS**

Chapter 15
Regular Expressions

Chapter 16
Network Programming

Chapter 17
Internet Client Programming

Chapter 18
Multithreaded Programming

Chapter 19
GUI Programming

Chapter 20
Web Programming

Chapter 21
Database Programming

Chapter 22
Extending Python

Chapter 23
Miscellaneous

Appendix A
Answers to Selected Exercises

Appendix B
Reference Tables

Index

Praise for Core Python Programming

"The long-awaited second edition of Wesley Chun's Core Python Programming proves to be well worth the wait—its deep and broad coverage and useful exercises will help readers learn and practice good Python."

— ALEX MARTELLI,
author of Python in a Nutshell
and editor of Python Cookbook

"There has been lot of good buzz around Wesley Chun's Core Python Programming. It turns out that all the buzz is well earned. I think this is the best book currently available for learning Python. I would recommend Chun's book over Learning Python (O'Reilly), Programming Python (O'Reilly), or The Quick Python Book (Manning)."

— DAVID MERTZ, Ph.D.,
IBM DeveloperWorks®

"I have been doing a lot of research [on] Python for the past year and have seen a number of positive reviews of your book. The sentiment expressed confirms the opinion that Core Python Programming is now considered the standard introductory text."

— RICHARD OZAKI,
Lockheed Martin

ORDERING INFORMATION:

Single Copy Sales:

Visa, Master Card,
American Express,
Checks, or Money
Orders only —
Tel: 515-284-6761
Fax: 515-284-2607
Toll-Free:
800-811-0912
Online: www.awprofessional.com

Government Agencies:

Kathryn Bass
GS-14F-8023A
703-404-9194
www.pearsongovernmentales.com

College Professors:

Desk/Review Copies
Toll-Free:
800-552-2499
E-mail: exam@aw.com

Corporate Accounts:

Corporate purchases
and /or Quantity,
Bulk Orders.
Purchase Orders or
Credit Card sales.
Fax: 317-428-3343
Toll-Free:
800-382-3419

INTERNATIONAL ORDERING INFORMATION:

Canada:
cdn.ordr@pearsoned.com

UK/EMEA:
Europe, Middle East,
South Africa
enq.orders@pearson.com

BeNeLux:
amsterdam@pearson.com

Australia:
sales@au.penguingroup.com

South Asia:
asia@pearsoned.com.sg

North Asia:
msip@pearsoned.com.hk

For more information visit: www.prenhallprofessional.com/title/0132269937
Available wherever technical books are sold.

