Foundations of Python Network Programming: The comprehensive guide to building network applications with Python (Books for Professionals by Professionals)

By John Goerzen, Tim Bower, Brandon Rhodes

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This second edition of *Foundations of Python Network Programming* targets Python 2.5 through Python 2.7, the most popular production versions of the language. Python has made great strides since Apress released the first edition of this book back in the days of Python 2.3. The advances required new chapters to be written from the ground up, and others to be extensively revised.

You will learn fundamentals like IP, TCP, DNS and SSL by using working Python programs; you will also be able to familiarize yourself with infrastructure components like memcached and message queues. You can also delve into network server designs, and compare threaded approaches with asynchronous event-based solutions.

But the biggest change is this edition's expanded treatment of the web. The HTTP protocol is covered in extensive detail, with each feature accompanied by sample Python code. You can use your HTTP protocol expertise by studying an entire chapter on screen scraping and you can then test lxml and BeautifulSoup against a real-world web site. The chapter on web application programming now covers both the WSGI standard for component interoperability, as well as modern web frameworks like Django.

Finally, all of the old favorites from the first edition are back: E-mail protocols like SMTP, POP, and IMAP get full treatment, as does XML-RPC. You can still learn how to code Python network programs using the Telnet and FTP protocols, but you are likely to appreciate the power of more modern alternatives like the paramiko SSH2 library. If you are a Python programmer who needs to learn the network, this is the book that you want by your side.

What you'll learn

- Understand low level networking
- Handle sending and receiving email including composing and decoding emails, SMTP, POP and IMAP
- Program the lower levels of web application programming such as FastCGI and WSGI and HTTP itself
- Learn how to use memcached and message qeues using Python
- Access web services using Python
- Master multitasking with threads, forking, and asynchronous communication

Who this book is for

This book will be of interest to python programmers who need to program networked applications using Python. From web application developers, to systems integrators, to system administrators—this book has everything you need to know.

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Editorial Review

About the Author

John Goerzen is an accomplished author, system administrator, and Python programmer. He has been a Debian developer since 1996 and is currently president of Software in the Public Interest, Inc. His previously published books include the *Linux Programming Bible*, *Debian Unleashed*, and *Linux Unleashed*.

Brandon Rhodes is a consulting programmer who also teaches the Python language professionally for organizations that are adding the language to their tool set. He has spoken at PyOhio; at PyGotham; at national PyCon conferences in Canada, Ireland, and Poland; and at Django conferences in Portland, Wales, and Warsaw, where he was delighted at the creativity of the organizers, who rented a circus tent for the occasion. He will chair the flagship PyCon North America conference in Portland in 2016–2017. Brandon is interested in how ideas like the Clean Architecture can help programmers organize code more effectively and in what we can learn from writers in other fields about offering kind and actionable critiques of each other's work. He currently lives in tiny Bluffton, Ohio, with his wife Jackie and their two cats.

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