

## Chapter 1 : Core Python Applications Programming, 3rd ed. by Wesley J. Chun © Prentice Hall PTR

*Core Python Applications Programming 3rd ed () For intermediate Python programmers " think "Core Python, Vol 2" Core Python Programming 2nd ed (/).*

It turns out that all the buzz is well earned. I think this is the best book currently available for learning Python. The sentiment expressed confirms the opinion that Core Python Programming is now considered the standard introductory text. It is the clearest, friendliest book I have come across yet for explaining Python, and putting it in a wider context. It does not presume a large amount of other experience. It does go into some important Python topics carefully and in depth. Unlike too many beginner books, it never condescends or tortures the reader with childish hide-and-seek prose games. This book manages to cover more topics in more depth than Learning Python but includes it all in one book that also more than adequately covers the core language. More importantly, you will learn Python. Even more importantly, you will find it invaluable in helping you in your day-to-day Python programming life. My favorite book is Core Python Programming. Python has only just started to claim mindshare in the Windows world, but look for it to start gaining lots of support as people discover it. It has achieved many of the technical goals that Java strives for. A one-sentence description of Python would be: It addresses in elaborate concrete detail many practical topics that get little, if any, coverage in other books. The liberal use of examples helps clarify some of the more subtle points of the language. The definitive guide to Python development for experienced programmers Covers core language features thoroughly, including those found in the latest Python releases--learn more than just the syntax! 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: This edition reflects major enhancements in the Python 2. 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.

## Chapter 2 : Core Python Applications Programming, 3rd Edition | InformIT

*Core Python Applications Programming, 3rd Edition. Python is an agile, robust, and expressive programming language that continues to build momentum. It combines the power of compiled languages with the simplicity and rapid development of scripting languages.*

We will begin by differentiating between processes and threads in the first few of sections of this chapter. We will then introduce the notion of multithreaded programming and present some multithreaded programming features found in Python. Those of you already familiar with multithreaded programming can skip directly to Section 4. The final sections of this chapter present some examples of how to use the threading and Queue modules to accomplish multithreaded programming with Python. This style of execution was the norm whether the task itself required the sequential ordering of steps or if the entire program was actually an aggregation of multiple subtasks. What if these subtasks were independent, having no causal relationship meaning that results of subtasks do not affect other subtask outcomes? Is it not logical, then, to want to run these independent tasks all at the same time? Such parallel processing could significantly improve the performance of the overall task. This is what MT programming is all about. MT programming is ideal for programming tasks that are asynchronous in nature, require multiple concurrent activities, and where the processing of each activity might be nondeterministic, that is, random and unpredictable. Such programming tasks can be organized or partitioned into multiple streams of execution wherein each has a specific task to accomplish. Depending on the application, these subtasks might calculate intermediate results that could be merged into a final piece of output. While CPU-bound tasks might be fairly straightforward to divide into subtasks and executed sequentially or in a multithreaded manner, the task of managing a single-threaded process with multiple external sources of input is not as trivial. To achieve such a programming task without multithreading, a sequential program must use one or more timers and implement a multiplexing scheme. Because the sequential program is a single thread of execution, it must juggle the multiple tasks that it needs to perform, making sure that it does not spend too much time on any one task, and it must ensure that user response time is appropriately distributed. The use of a sequential program for this type of task often results in a complicated flow of control that is difficult to understand and maintain. Using an MT program with a shared data structure such as a Queue a multithreaded queue data structure, discussed later in this chapter , this programming task can be organized with a few threads that have specific functions to perform: A number of threads would be created by the program, one for each current client, with requests being entered into the queue. A thread that is responsible for retrieving requests from the queue and processing them, providing output for yet a third thread. Responsible for taking output destined for the user and either sending it back if in a networked application or writing data to the local file system or database. Organizing this programming task with multiple threads reduces the complexity of the program and enables an implementation that is clean, efficient, and well organized. The logic in each thread is typically less complex because it has a specific job to do. For example, the UserRequestThread simply reads input from a user and places the data into a queue for further processing by another thread, etc. Each thread has its own job to do; you merely have to design each type of thread to do one thing and do it well.

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*ptg "[If ] I could only own one Python book, it would be Core Python Programming by Wesley Chun. This book manages to cover more topics in more depth than Learning Python but includes it all in one book that also more than.*

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*In Core Python Applications Programming, leading software engineer and professional trainer Wesley Chun helps developers who are ready to expand their Python skills and go beyond the language and its syntax to learn about how to apply their skills to application programming.*