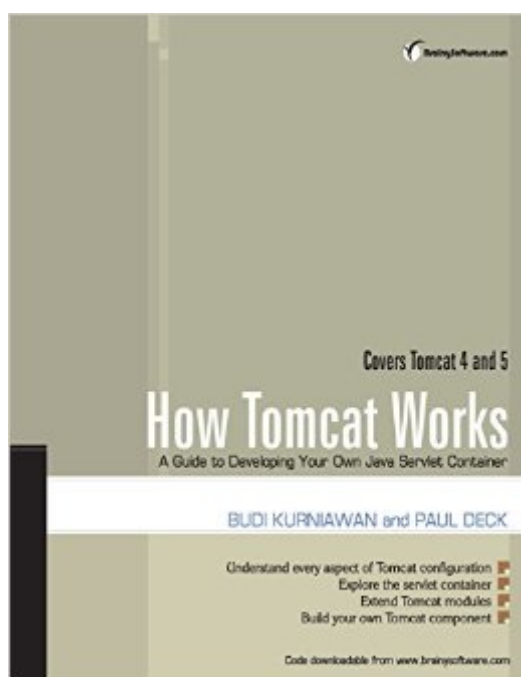


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# How Tomcat Works



## Synopsis

How Tomcat Works is the only book that explains the internal workings of Tomcat, the open source project used by millions of Java developers. Unlike other Tomcat titles, it is unique because it does not simply covers the configuration or servlet development with Tomcat. Rather, this book is meant for advanced readers interested in writing their own Tomcat modules or in understanding more beyond servlet/JSP programming. The authors of this book have cracked open Tomcat 4 and 5 and revealed the internal workings of each component. Upon understanding the contents of this book, you will be able to develop your own Tomcat components or extend the existing ones.

## Book Information

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## Customer Reviews

I bought Budi's newest book because I liked the style of his earlier book on JavaServer Faces. He has an ability that is rare for most technical authors...He can make a very complex topic understandable. Although Tomcat is pretty easy to set up and use as a developer, to really understand the internals of the server one must wade through thousands of lines of code and even then it can be a daunting task. Furthermore, understanding the "how" is only half the battle. To really gain an understanding of the server, one must understand "why" the Jakarta folks did things the way they did. Budi (and Paul Deck) did a great job of not just giving a code review of the server, but also describing the reasons why the server is constructed the way it is. Having written a few Tomcat Components the hard way - trial and error - I can say the insights given in this book have helped a great deal. But, as I say in the title, this book is not for the squeemish. There is a sizable amount of

fairly complex code. To really understand the point of the book, the reader must be VERY familiar with the Java language, Java Web Applications, TCP/IP, and be willing to ponder a code listing for a while to really understand it. In other words, this is not what I would call a "passive read". If you have the basic understanding necessary, this book will shed a great deal of light on one of the darker corners of server-side Java development. This is a great read for anybody wanting to really understand the internals of Tomcat.

I became interested after reading Richard Monson-Haefel's praising this book in his blog ([...] After reading the six free chapters from the publisher's site ([...] I decided to buy. This is a truly amazing book that covers such an advanced topic in such a simple language. I feel I do understand the internals of Tomcat now. The first Tomcat component you can build after reading this book is as simple as 20 lines or so, as demonstrated in the publisher's site. Supporting technologies, such as shutdown hook, Digester, JMX, are also well explained so that you will be really prepared to wade through complex code.

This is a Tomcat book that lets you pick the brightest brains in the industry. This book shows how Tomcat developers designed and built Tomcat from scratch. Like me, I'm sure you'll learn a lot, much more than Tomcat configuration. For example, you'll learn how a Java HTTP server is written, how object pooling is implemented, how auto-reload works, etc. This is unlike other Tomcat books that are a rehash of the free documentation at Tomcat's website. Surprisingly, the language is simple. If you know a bit of Java, you can follow the chapters comfortably. It starts from a basic HTTP server and servlet container and works its way up to a full Tomcat. You'll enjoy it if you have interest in Java programming.

I was tempted to only give this book 3 stars, but it does in fact do what it claims to do - explain how Tomcat works, literally line by line. Because it starts with the most basic example and then builds on each component one at a time, this is a book best read cover to cover. Many of the subsequent example applications assume knowledge explained in previous chapters, so I had trouble using it as the reference I had hoped for. My biggest problem with this book is that it just stops short in so many places. In general the writing is very dry, even for a technical topic such as this. Additionally, the formatting of the book makes much of it hard to follow... the code seems to flow right into the text in parts. I believe this book was published independently, so I imagine there were budget constraints, but in this case I believe it sorely hurt the readability of the book. The authors' convention of class

naming is also highly irregular and leads to much confusion in regards to which version of which class is being referenced. Finally, I was highly upset to see that the author doesn't touch on the innards of Coyote (Tomcat5's new Connector) at all, even though it claims to "cover Tomcat 4 and 5". This is a highly significant package that is essential to understanding how connectors work in Tomcat5. If you have the time and desire to learn Tomcat from the ground up, this should be fine. However, if you're looking for a reference for a specific part of Tomcat (such as the Connector, in my case), you might want to look further.

A good technical book is one that is easy to understand. And this book is clearly one of those. Tomcat is a very complex system, but in the authors' hands, it becomes easy to understand. The authors appeared to have put much effort in explaining many pieces of Tomcat very well. For example, Chapters 1 to 4 cover the connector. Most authors would have probably tried it in one chapter. Considering connectors are such a complex beast, four chapters rather than one do better. It showed how well designed this book was. It is also uncanny how the authors knew which to explain first and which topics should come later. Another thing about this book is it is enjoyable, you want to start the next one as soon as you finish a chapter. So, this is something you should read from page 1 to the last. The codes were based on Tomcat 4 and 5. They are very similar so the authors put notes explaining the differences between the two versions. You'll learn a lot reading this book. The author started from a few lines of code in Chapter 1 (a Java web server) and built a simple servlet container (in Chapter 2) based on the code in chapter 1. It looks so simple and you don't realize that in the last chapter you get a full-blown Tomcat. On the way, you'll learn a lot of advanced Java topics too. There are quite many spelling errors and I would really subtract half a star if I could. However, considering its merit I was happy to overlook it this time.

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