

How to automate your build, test and deployment processes

# JAVA DEVELOPMENT WITH **Ant**

Erik Hatcher  
Steve Loughran

 MANNING

# Java Development With Ant

**W. Clay Richardson, Donald  
Avondolio, Joe Vitale, Peter Len, Kevin  
T. Smith**



## Java Development With Ant:

*Ant in Action* Erik Hatcher, Steve Loughran, 2007-06-30 This second edition of a Manning bestseller has been revised and re-titled to fit the In Action Series by Steve Loughran an Ant project committer Ant in Action introduces Ant and how to use it for test driven Java application development Ant itself is moving to v1.7 a major revision at the end of 2006 so the timing for the book is right A single application of increasing complexity followed throughout the book shows how an application evolves and how to handle the problems of building and testing Reviewers have praised the book's coverage of large projects Ant's advanced features and the details and depth of the discussion all unavailable elsewhere This is a major revision with the second half of the book completely new including How to Manage Big projects Library management Enterprise Java Continuous integration Deployment Writing new Ant tasks and datatypes Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book [Java Development with Ant](#) Erik Hatcher, Steve Loughran, 2003 Software Programming Languages [Ant Java Notes](#) A. T. Bell, 2005 FINALLY A BEGINNERS GUIDE FOR JAVA ANT This long awaited IT beginners guide starts where no any other ANT book does It provides the most elementary tutorial for using Java ANT Whether you're new to Java programming or new to ANT it will guide the reader through the concepts which every ANT programmer needs to understand By the end of the book the reader will have a complete understanding of when and how to use ANT It provides great detail into ANT's capabilities Unlike its counterparts this book assumes no understanding of ANT or even Java It is a getting started reference and starts at an elementary level It shows the reader how to use the tool and where to learn even more of the advanced ANT concepts for FREE When finished the reader will be well versed in Java ANT and know how to expand their knowledge even further ANT reflects what the industry is using to build Java software today This book is the first step in using it effectively *Agile Java Development with Spring, Hibernate and Eclipse* Anil Hemrajani, 2006-05-09 Agile Java™ Development With Spring Hibernate and Eclipse is a book about robust technologies and effective methods which help bring simplicity back into the world of enterprise Java development The three key technologies covered in this book the Spring Framework Hibernate and Eclipse help reduce the complexity of enterprise Java development significantly Furthermore these technologies enable plain old Java objects POJOs to be deployed in light weight containers versus heavy handed remote objects that require heavy EJB containers This book also extensively covers technologies such as Ant JUnit JSP tag libraries and touches upon other areas such as logging GUI based debugging monitoring using JMX job scheduling emailing and more Also Extreme Programming XP Agile Model Driven Development AMDD and refactoring are methods that can expedite the software development projects by reducing the amount of up front requirements and design hence these methods are embedded throughout the book but with just enough details and examples to not sidetrack the focus of this book In addition this book contains well separated subjective material opinion sidebars comic illustrations tips and tricks all of which provide real world and practical perspectives on

relevant topics Last but not least this book demonstrates the complete lifecycle by building and following a sample application chapter by chapter starting from conceptualization to production using the technology and processes covered in this book In summary by using the technologies and methods covered in this book the reader will be able to effectively develop enterprise class Java applications in an agile manner      **Ant** Steve Holzner,2005-04-13 Ant is the premiere build management tool for use in Java environments Unlike traditional build management tools such as GNU Make Ant is itself written in Java is platform independent and interfaces well with the utilities in Sun s Java software development kit SDK In addition to being platform independent Ant is also independent of the integrated development environment IDE being used IDE independence is important for open source projects or other projects in which the various developers might use different IDEs Using Ant Java developers can define build chunks the results that they must produce and the dependencies between them automatically retrieve source code from source control systems such as PVCs build applications by having Ant compile the necessary source files in the proper order Ant build files are written using XML a well established standard so programmers using Ant are not required to learn yet another scripting language They will likely already know XML and will be able to leverage that knowledge Ant is an open source project and part of the Jakarta project Jakarta is Sun s open source reference implementation for the JSP and Servlets specifications and is part of the Apache group s work      **Building**

**Portals with the Java Portlet API** Dave Minter,Jeff Linwood,2013-11-08 How do developers bring existing applications into a portal How do developers integrate content management systems and search engines with a portal And how do developers get started with the Portlet API Jeff Linwood and Dave Minter show you how to solve these real problems in Building Portals with the Java Portlet API This book describes the new Java portlet API including security portlet life cycles and portlet interaction with servlets and JSP The examples will work on any portal that complies with the JSR 168 portlet API Several example portlets are developed to give you hands on portlet experience You ll even learn how to port existing servlet and JSP applications into a new portal environment The authors also discuss Single Sign On SSO using Kerberos and the GSS API syndicating content with RSS and integrating a charting solution with JFreeChart Other topics covered are the open source Apache Jakarta Lucene search engine personalization portlet configuration portlet preferences and Web Services for Remote Portals WSRP XDoclet is also used throughout portions of this book      *Expert One-on-One J2EE Design and Development*

Rod Johnson,2004-08-04 What is this book about The results of using J2EE in practice are often disappointing applications are often slow unduly complex and take too long to develop Rod Johnson believes that the problem lies not in J2EE itself but in that it is often used badly Many J2EE publications advocate approaches that while fine in theory often fail in reality or deliver no real business value Expert One on One J2EE Design and Development aims to demystify J2EE development Using a practical focus it shows how to use J2EE technologies to reduce rather than increase complexity Rod draws on his experience of designing successful high volume J2EE applications and salvaging failing projects as well as intimate knowledge of the

J2EE specifications to offer a real world how to guide on how you too can make J2EE work in practice It will help you to solve common problems with J2EE and avoid the expensive mistakes often made in J2EE projects It will guide you through the complexity of the J2EE services and APIs to enable you to build the simplest possible solution on time and on budget Rod takes a practical pragmatic approach questioning J2EE orthodoxy where it has failed to deliver results in practice and instead suggesting effective proven approaches What does this book cover In this book you will learn When to use a distributed architecture When and how to use EJB How to develop an efficient data access strategy How to design a clean and maintainable web interface How to design J2EE applications for performance Who is this book for This book would be of value to most enterprise developers Although some of the discussion for example on performance and scalability would be most relevant to architects and lead developers the practical focus would make it useful to anyone with some familiarity with J2EE Because of the complete design deployment coverage a less advanced developer could work through the book along with a more introductory text and successfully build and understand the sample application This comprehensive coverage would also be useful to developers in smaller organisations who might be called upon to fill several normally distinct roles What is special about this book Wondering what differentiates this book from others like it in the market Take a look It does not just discuss technology but stress its practical application The book is driven from the need to solve common tasks rather than by the elements of J2EE It discuss risks in J2EE development It takes the reader through the entire design development and build process of a non trivial application This wouldn t be compressed into one or two chapters like the Java Pet Store but would be a realistic example comparable to the complexity of applications readers would need to build At each point in the design alternative choices would be discussed This would be important both where there s a real problem with the obvious alternative and where the obvious alternatives are perhaps equally valid It emphasizes the use of OO design and design patterns in J2EE without becoming a theoretical book

**Core Servlets and JavaServer Pages, Volume 2** Marty Hall,Larry Brown,Yaakov Chaikin,2007-12-27 Java EE is the technology of choice for e commerce applications interactive Web sites and Web enabled services Servlet and JSP technology provides the link between Web clients and server side applications on this platform Core Servlets and JavaServer Pages Volume 2 Advanced Technologies Second Edition is the definitive guide to the advanced features and capabilities provided by servlets and JSP Volume 2 presents advanced capabilities like custom tag libraries filters declarative security JSTL and Struts Like the first volume it teaches state of the art techniques and best practices illustrated with complete working fully documented programs Volume 2 explains in detail the advanced tools and techniques needed to build robust enterprise class applications You ll learn how to control application behavior through the web xml deployment descriptor file how to enhance application security through both declarative and programmatic methods and how to use servlet and JSP filters to encapsulate common behavior You ll also learn how to control major application lifecycle events best practices for using JSTL and how to build custom tag libraries Volume 2

concludes with an in depth introduction to the Jakarta Struts framework Complete source code for all examples is available free for unrestricted use at [www.volume2.coreservlets.com](http://www.volume2.coreservlets.com) For information on Java training from Marty Hall go to [courses.coreservlets.com](http://courses.coreservlets.com) Volume 1 presents comprehensive coverage of the servlets and JSP specifications including HTTP headers cookies session tracking JSP scripting elements file inclusion the MVC architecture and the JSP expression language It also covers HTML forms JDBC and best practices for design and implementation

**Professional Portal Development with Open Source Tools** W. Clay Richardson,Donald Avondolio,Joe Vitale,Peter Len,Kevin T. Smith,2004-03-25 What is this book about Open source technology enables you to build customizedenterprise portal frameworks with more flexibility and fewerlimitations This book explains the fundamentals of a powerful setof open source tools and shows you how to use them An outstanding team of authors provides a complete tutorial andreference guide to Java Portlet API Lucene James and Slide taking you step by step through constructing and deploying portalapplications You trace the anatomy of a search engine andunderstand the Lucene query syntax set up Apache Jamesconfiguration for a variety of servers explore object torelational mapping concepts with Jakarta OJB and acquire manyother skills necessary to create J2EE portals uniquely suited tothe needs of your organization Loaded with code intensive examples of portal applications thisbook offers you the know how to free your development process fromthe restrictions of pre packaged solutions What does this book cover Here s what you will learn in this book How to evaluate business requirements and plan the portal How to develop an effective browser environment How to provide a search engine messaging database inquiry and content management services in an integrated portalapplication How to develop Web services for the portal How to monitor test and administer the portal How to create portlet applications compliant with the JavaPortlet API How to reduce the possibility of errors while managing theportal to accommodate change How to plan for the next generation application portal Who is this book for This book is for professional Java developers who have someexperience in portal development and want to take advantage of theoptions offered by open source tools

**Pro Apache Ant** Matthew Moodie,2006-11-07 Pro Apache Ant is ideal for Java developers who need to use the leading open source build tool out there for development and project management It is organized around chronological tasks instead of alphabetical functions using a sample application throughout the set up from calling database scripts to unit testing Practical examples are used at every stage and each task includes a concrete example The configuration files are XML based so there s no need for you to write shell commands Each task is run by an object that implements a particular task interface And if you really need to execute a shell command Ant has a task that allows different commands based on the operating system

**Test-Driven Development** Thomas Hammell,David Gold,Tom Snyder,2007-03-01 This will be the first book to show how to implement a test driven development process in detail as it applies to real world J2EE applications Combines the tools and methodologies of test driven development with real world use cases unlikely most titles which cover one or the other Looks at the complete process including test coverage strategies test organization incorporating TDD into

new and existing projects as well as how to automate it all This book is not version specific      **Ant** Eric M. Burke,Jesse Tilly,2002 Ant is the premiere build management tool for use in Java environments Unlike traditional build management tools such as GNU Make Ant is itself written in Java is platform independent and interfaces well with the utilities in Sun s Java software development kit SDK In addition to being platform independent Ant is also independent of the integrated development environment IDE being used IDE independence is important for open source projects or other projects in which the various developers might use different IDEs Using Ant Java developers can Define build chunks the results that they must produce and the dependencies between them Automatically retrieve source code from source control systems such as PVCS Build applications by having Ant compile the necessary source files in the proper order Ant build files are written using XML a well established standard so programmers using Ant are not required to learn yet another scripting language They will likely already know XML and will be able to leverage that knowledge Ant is an open source project and part of the Jakarta project Jakarta is Sun s open source reference implementation for the JSP and Servlets specifications and is part of the Apache group s work      Component-Oriented Programming Andy Ju An Wang,Kai Qian,2005-04-29 Component Oriented Programming offers a unique programming centered approach to component based software development that delivers the well developed training and practices you need to successfully apply this cost effective method Following an overview of basic theories and methodologies the authors provide a unified component infrastructure for building component software using JavaBeans EJB OSGi CORBA CCM NET and Web services You ll learn how to develop reusable software components build a software system of pre built software components design and implement a component based software system using various component based approaches Clear organization and self testing features make Component Oriented Programming an ideal textbook for graduate and undergraduate courses in computer science software engineering or information technology as well as a valuable reference for industry professionals      Phpeclipse Shu-Wai Chow,2006-02-13 Take advantage of the leading open source integrated development environment to develop organize and debug your PHP web development projects      *Java and Mac OS X* T. Gene Davis,2010-03-30 Learn the guidelines of integrating Java with native Mac OS X applications with this Developer Reference book Java is used to create nearly every type of application that exists and is one of the most required skills of employers seeking computer programmers Java code and its libraries can be integrated with Mac OS X features and this book shows you how to do just that You ll learn to write Java programs on OS X and you ll even discover how to integrate them with the Cocoa APIs Shows how Java programs can be integrated with any Mac OS X feature such as NSView widgets or screen savers Reveals the requirements for integrating Java with native OS X applications Covers OS X libraries and behaviors unique to working with Java With this book you will learn that creating Java based applications that integrate closely with OS X is not a myth Note CD ROM DVD and other supplementary materials are not included as part of eBook file      **Functional Reactive Programming** Stephen Blackheath,2016-07-26 Summary

Functional Reactive Programming teaches the concepts and applications of FRP. It offers a careful walk through of core FRP operations and introduces the concepts and techniques you'll need to use FRP in any language. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

About the Technology: Today's software is shifting to more asynchronous, event-based solutions. For decades, the Observer pattern has been the go-to event infrastructure, but it is known to be bug-prone. Functional reactive programming (FRP) replaces Observer, radically improving the quality of event-based code.

About the Book: Functional Reactive Programming teaches you how FRP works and how to use it. You'll begin by gaining an understanding of what FRP is and why it's so powerful. Then you'll work through greenfield and legacy code as you learn to apply FRP to practical use cases. You'll find examples in this book from many application domains using both Java and JavaScript. When you're finished, you'll be able to use the FRP approach in the systems you build and spend less time fixing problems.

What's Inside: Think differently about data and events. FRP techniques for Java and JavaScript. Eliminate Observer; one listener at a time. Explore Sodium, RxJS, and Kefir.js FRP systems. About the Reader: Readers need intermediate Java or JavaScript skills. No experience with functional programming or FRP required.

About the Authors: Stephen Blackheath and Anthony Jones are experienced software developers and the creators of the Sodium FRP library for multiple languages. Foreword by Heinrich Apfelmus. Illustrated by Duncan Hill.

Table of Contents: Stop listening. Core FRP. Some everyday widget stuff. Writing a real application. New concepts. FRP on the web. Switch. Operational primitives. Continuous time. Battle of the paradigms. Programming in the real world. Helpers and patterns. Refactoring. Adding FRP to existing projects. Future directions.

**Beginning Xcode** James Bucanek, 2006-03-20 Xcode is a powerful suite of free development tools from Apple Computer that will allow you to create Macintosh applications, plug-ins, web components, applets, and more using languages such as C, C++, Objective-C, Java, and AppleScript. What you will learn from this book: Control window layout to match your development style. Master source file organization. How to access a source control management system right in the Xcode interface. How to quickly navigate to files, symbols, bookmarks, declarations, and definitions within your project. Find reference documents and instantly access API documentation. Harness Xcode's smart editing features such as auto-indent, code completion, and text macros. Discover how easy it is to browse class information and create dynamic class diagrams. Get started using Xcode's Interface Builder and Data Modeling design tools. Learn to customize target build phases, add your own compilers, write your own build processes, and integrate Xcode with other build tools like Ant and gnumake. How to create and integrate unit tests into your projects. Harness the full power of the debugger with smart breakpoints and custom data formatters. Learn how to change variables and even fix bugs while your program is still running. Start using Xcode's suite of performance analysis tools to find problems and accelerate your code. Customize scores of hidden and often undocumented Xcode features. Learn how to remap keyboard commands, create your own project and file templates, and even add your own commands to the Xcode menus. Instead of cookbook projects specific to a particular language, developer James



Bucanek details each Xcode feature with step by step instructions that can be applied directly to your projects Example projects that demonstrate a single concept make it easy to explore each feature **Java Cookbook** Ian F.

Darwin,2014-06-25 From lambda expressions and JavaFX 8 to new support for network programming and mobile development Java 8 brings a wealth of changes This cookbook helps you get up to speed right away with hundreds of hands on recipes across a broad range of Java topics You ll learn useful techniques for everything from debugging and data structures to GUI development and functional programming Each recipe includes self contained code solutions that you can freely use along with a discussion of how and why they work If you are familiar with Java basics this cookbook will bolster your knowledge of the language in general and Java 8 s main APIs in particular Recipes include Methods for compiling running and debugging Manipulating comparing and rearranging text Regular expressions for string and pattern matching Handling numbers dates and times Structuring data with collections arrays and other types Object oriented and functional programming techniques Directory and filesystem operations Working with graphics audio and video GUI development including JavaFX and handlers Network programming on both client and server Database access using JPA Hibernate and JDBC Processing JSON and XML for data storage Multithreading and concurrency Ant Developer's Handbook Alan

Williamson,2002 As an open source tool Ant is readily available and cost effective for Java developers to try and use but only sparse documentation exists This book will educate those developers in these more advanced topics and help them get more out of this tool Software Build Systems Peter Smith PhD,2011-03-11 This book represents a thorough and extensive treatment of the software build process including the choices benefits and challenges of a well designed build process I recommend it not only to all software build engineers but to all software developers since a well designed build process is key to an effective software development process Kevin Bodie Director Software Development Pitney Bowes Inc An excellent and detailed explanation of build systems an important but often overlooked part of software development projects The discussion of productivity as related to build systems is alone well worth the time spent reading this book John M Pantone Objectech Corporation VP IT Educator and Course Developer Peter Smith provides an interesting and accessible look into the world of software build systems distilling years of experience and covering virtually every type of tool in the build engineer s toolbox Well organized well written and very thorough I would recommend this book to anyone with a build system under their responsibility Jeff Overbey Project Co Lead Photran Software Build Systems teaches how to think about building software It surveys the tools and techniques for building software products and the ways things go wrong This book will appeal to those new to build systems as well as experienced build system engineers Monte Davidoff Software Development Consultant Alluvial Software Inc Inadequate build systems can dramatically impact developer productivity Bad dependencies false compile errors failed software images slow compilation and time wasting manual processes are just some of the byproducts of a subpar build system In Software Build Systems software productivity expert Peter Smith shows you how to

implement build systems that overcome all these problems so you can deliver reliable software more rapidly at lower cost Smith explains the core principles underlying highly efficient build systems surveying both system features and usage scenarios Next he encapsulates years of experience in creating and maintaining diverse build systems helping you make well informed choices about tools and practices and avoid common traps and pitfalls Throughout he shares a wide range of practical examples and lessons from multiple environments including Java C C and C Coverage includes Mastering build system concepts including source trees build tools and compilation tools Comparing five leading build tools GNU Make Ant SCons CMake and the Eclipse IDE s integrated build features Ensuring accurate dependency checking and efficient incremental compilation Using metadata to assist debugging profiling and source code documentation Packaging software for installation on your target machine Best practices for managing complex version control systems build machines and compilation tools If you re a developer this book will illuminate the issues involved in building and maintaining the build system that s best for your team If you re a manager you ll discover how to evaluate your team s build system and improve its effectiveness And if you re a build guru you ll learn how to optimize the performance and scalability of your build system no matter how demanding your requirements are

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