

# Rocky Mountain Software Symposium 2006

Renaissance Suites Flatiron - Broomfield, CO

May 05 - 07, 2006

(session agenda as of 5/5/2006)

Friday, May 5					
	1	2	3	4	5
12:00 - 1:00 PM	REGISTRATION				
1:00 - 1:15 PM	WELCOME				
1:15 - 2:45 PM	XML Data Binding with JiBX Eitan Suez	Working with Rules Engines Venkat Subramaniam	Spring Fundamentals Stuart Halloway	JavaServer Faces: A Whirlwind Tour David Geary	An Introduction to User Stories for Software Requirements Mike Cohn
2:45 - 3:15 PM	BREAK				
3:15 - 4:45 PM	All Roads Lead to.. AOP? Eitan Suez	Refactoring your code - a key step in agility Venkat Subramaniam	Spring Dependency Injection Stuart Halloway	JSF: State of the Art David Geary	Overview of Agile Estimating and Planning Mike Cohn
4:45 - 5:00 PM	BREAK				
5:00 - 6:30 PM	Hibernate by Example Eitan Suez	Portal Standards and implementation Venkat Subramaniam	Ajax Architecture Stuart Halloway	Shale: Turbo-charge your JSF Apps David Geary	Managing Agile Projects: Dispelling the Myths Mike Cohn
6:30 - 7:15 PM	DINNER				
7:15 - 8:00 PM	KEYNOTE: DAVE THOMAS entitled "Cargo Cults & Angry Monkeys"				

Saturday, May 6					
	1	2	3	4	5
8:00 - 9:00 AM	BREAKFAST				
9:00 - 10:30 AM	Ajaxian Faces David Geary	Spring AOP Stuart Halloway	Business logic organization and encapsulation strategies Chris Richardson	Ruby for Java Programmers Dave Thomas	Practices of an Agile Developer Venkat Subramaniam
10:30 - 11:00 AM	BREAK				
11:00 - 12:30 PM	Naked Objects Applied Eitan Suez	Advanced Hibernate Stuart Halloway	Introduction to Ajax Ben Galbraith	Ruby on Rails Dave Thomas	Project Economics: Selecting and Prioritizing High Value Projects Mike Cohn
12:30 - 1:30 PM	LUNCH				
1:30 - 3:00 PM	Killer Web UIs David Geary	Programming Java Concurrency Stuart Halloway	Ajaxian JavaScript Frameworks Ben Galbraith	Testing your Rails Application Dave Thomas	Salvaging Struggling Projects: Digging for Gold Instead of Digging a Deeper Hole Mike Cohn
3:00 - 3:15 PM	BREAK				
3:15 - 4:45 PM	Developing Rich Domain Models Chris Richardson	Spring Security with ACEGI Stuart Halloway	Eight Tips for Swing Development Ben Galbraith	Using Ajax with Ruby on Rails Dave Thomas	Easing into Agile Scott Davis
4:45 - 5:30 PM	BIRDS OF A FEATHER SESSIONS				

Sunday, May 7					
	1	2	3	4	5
8:00 - 9:00 AM	BREAKFAST				
9:00 - 10:30 AM	Tapestry In Action (Part One) Howard Lewis Ship	SOA and ESB: Next Wave of Enterprise Development or Return of the Son of CORBA? Neal Ford	Extend the Customization Possibilities of Your Java App with Scripts Ted Neward	Real World Web Services Scott Davis	Open Source Tools for Agile Development Venkat Subramaniam
10:30 - 11:00 AM	BREAK				
11:00 - 12:30 PM	Tapestry In Action (Part Two) Howard Lewis Ship	NetKernel : XML Processing for the 21st Century Brian Sletten	Effective Enterprise Java: State Management Ted Neward	Holistic Testing Scott Davis	Pragmatic Extreme Programming Neal Ford
12:30 - 1:15 PM	LUNCH				
1:15 - 2:00 PM	EXPERT PANEL				
2:00 - 3:30 PM	Comparing EJB 3 with Spring and Hibernate Chris Richardson	Applied AOP Brian Sletten	Java5: The Language, The Libraries, The VM Ted Neward	J2EE Web Services @ Work Tom Marrs	The Productive Programmer Neal Ford
3:30 - 3:45 PM	BREAK				
3:45 - 5:15 PM	Pragmatic Unit Testing with TestNG and EasyMock Howard Lewis Ship	Introducing the Semantic Web Brian Sletten	Pragmatic XML Services Ted Neward	J2EE Security @ Work: J2EE Meets JAAS Tom Marrs	Real-world Agile Development Neal Ford

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## **Ajaxian JavaScript Frameworks by Ben Galbraith**

In the "Introduction to Ajax" session, we discuss what Ajax is, how it works, and how others are using it. This session goes deeper into Ajax by reviewing the existing JavaScript frameworks that aim to make it easier.

## **Eight Tips for Swing Development by Ben Galbraith**

Java's Swing GUI toolkit is one of the most powerful and flexible frameworks available for creating professional, high-quality desktop applications. Along with its considerable abilities, however, comes considerable complexity. Swing does not have a reputation for ease of use (despite being much easier than many of its competitors--but that's another story). If you could combine the Swings power with the productivity of easier, more restrictive tools, such as Microsoft's Visual Basic - you'd have an incredible tool for application development.

## **Introduction to Ajax by Ben Galbraith**

Ajax -- called DHTML just a few months ago -- has revolutionized (or "radically iterated", if you like) web application development in the short few months since the term was coined. What is it all about? Why are we excited about a set of capabilities that have been sitting in our browser for years? What can you do with it? And, how can you do it?

## **NetKernel : XML Processing for the 21st Century by Brian Sletten**

A wise man once said, "XML is like lye. It is very useful, but humans shouldn't touch it." If you've had to incorporate XML into your project by hand, you have probably been burned by getting too close. NetKernel turns this wisdom on its head and encourages you to use XML like the liquid data stream you want it to be. Imagine the simplicity of REST married to the power of Unix pipes. Come see how this open source / commercial product built on a compelling modern architecture can be used to create, manipulate and transform XML.

## **Introducing the Semantic Web by Brian Sletten**

Just as the world is feeling comfortable with the Web, Tim Berners-Lee et al inform us that what we have seen so far is just the beginning. His original plans at CERN were larger and grander. The Semantic Web is the new vision of machine-processable documents and metadata to improve search, knowledge discovery and data integration and management. While there are many naysayers chiding such grand visions, there are also pragmatic and useful technologies emerging that can be applied today.

## **Applied AOP by Brian Sletten**

Most people new to Aspect-Oriented Programming (AOP) are fed up with separation of concerns zealots explaining how great their techniques are at dealing with... logging. Ok, you get it. Logging is a cross-cutting concern that can be appropriately modularized. What else does AOP have to offer? A lot, it turns out. This talk will give an introduction to the motivations of AOP as well as a series of concrete examples drawn from enterprise and client side Java. Come learn how AspectJ-flavored AOP can begin to benefit you immediately either in development or production environments. Learn how to enforce architectural policies, find Swing threading issues, reduce the invasiveness of the Observer design pattern or even improve the reusability of your domain models.

## **Comparing EJB 3 with Spring and Hibernate by Chris Richardson**

The limitations of EJB2 led to the development of the extremely popular Spring and Hibernate frameworks. These frameworks replaced the cumbersome EJB2 programming model with a nimble, non-invasive Plain Old Java Object (POJO) #based model. But, now, the EJB3 specification has embraced many of the ideas made popular by Spring and Hibernate including POJOs, transparent persistence and dependency injection.

## **Business logic organization and encapsulation strategies by Chris Richardson**

Key to making good design decisions is knowing the available options and understanding their respective benefits and drawbacks. This presentation looks at two important design decisions that you must make when developing the business logic for an enterprise Java application: how to organize the business logic and how to encapsulate the business logic. The first part of the talk describes the two main ways to organize business logic: an object-oriented design (a.k.a domain model) and a procedural design (a.k.a. transaction script). You will learn how to implement the business logic using each of these approaches and which lightweight frameworks to use. We will cover the criteria that you can use to decide between the two approaches.

### **Developing Rich Domain Models by Chris Richardson**

Object-oriented design (OOD) is good way to tackle the complexity of modern applications. Yet many complex, enterprise Java applications are written in a procedural style. One reason is because EJB2 created too many obstacles to using object-oriented design techniques. Fortunately, enterprise Java technologies have improved. Plain Object Java Objects (POJOs) and object/relational mapping frameworks such as Hibernate, JDO and EJB3 led to the revival of OOD.

### **Ruby on Rails by Dave Thomas**

The Ruby on Rails framework has exploded onto the scene over the last few months. Propelled by some genuine benefits, and fueled by a whole lot of controversy, Rails seems here to stay. So, is it a Java killer? (No.) Is it a great way to develop certain classes of web application? (Yes.) Does it really deliver the 10-fold increase in developer productivity that some have claimed? (It depends...)

### **Testing your Rails Application by Dave Thomas**

The Ruby on Rails framework has unit and functional testing baked right in. In this talk we'll see how easy it is to get started with testing in Rails, and we'll explore just how deep the testing support goes.

### **Ruby for Java Programmers by Dave Thomas**

Ruby recently enjoyed its tenth birthday. Instead of cake and candles, the community celebrated by releasing a wave of new libraries and frameworks that make Ruby programming even easier. This talk features some of the best of these, as we explore Ruby.

### **Using Ajax with Ruby on Rails by Dave Thomas**

Ajax is becoming a requirement for new applications: it creates richer user experiences and more dynamic applications. However, doing Ajax by hand is difficult and error prone. The good news is that if you use Rails, you don't have to do Ajax the hard way.

### **Shale: Turbo-charge your JSF Apps by David Geary**

Struts is the most popular Java-based Web application framework today, but that's rapidly changing. There's a newcomer on the block, a leaner, meaner, better-designed framework loosely based on Struts that's poised to dethrone Struts as the reigning king of Java-based web application frameworks. That framework, of course, is JavaServer Faces. Craig McClanahan, the father of Struts and the co-spec lead for JSF 1.0, has proposed reinventing Struts for Struts 2.0 as a set of services for JSF applications. That new framework, which has no direct ties to Struts as we know it, is called Shale.

### **JavaServer Faces: A Whirlwind Tour by David Geary**

JavaServer Faces (JSF) has arrived. The standard Java-based web application framework based on Struts, JSF really took off in 2005. Embraced by developers, vendors, and open-source projects, JSF has started to hit its stride. If you haven't come up to speed on JSF basics, this is the place to start.

### **Ajaxian Faces by David Geary**

JavaServer Faces is a perfect platform for implementing Web 2.0 interfaces with Ajax. This session explores how you can use these two potent technologies--JSF and Ajax--together to create applications that look and behave like desktop applications but run in the browser.

### **JSF: State of the Art by David Geary**

In 2005, JSF hit its stride, as evidenced from overwhelming support from both vendors and the open-source community. JSF 1.0 had plenty of holes, but open-source projects have arisen to address those needs. This session takes a look at three of those projects: 

- Tomahawk (MyFaces component library)
- Facelets
- Seam

### **Killer Web UIs by David Geary**

User interfaces are usually the most turbulent aspect of an application during development. Constant tinkering with the UI means constant changes to your code, so as a UI developer, you want to minimize the scope and effects of those code changes. Open-source Java provides two powerful software packages that help you manage UI complexity: Tiles and Sitemesh. Tiles composes webpages from discrete regions of your user interface known as tiles. A tile contains a JSP page for layout and one or more JSP pages for content. Sitemesh decorates webpages with decorators that can be associated with URL patterns. Once you set up your decorators, you can decorate pages that match a decorator's URL pattern.

### **XML Data Binding with JiBX by Eitan Suez**

JiBX is an open source XML data binding API for Java. JiBX is younger than most other APIs in this space

(Castor XML, BEA XMLBeans, JAXB). JiBX's philosophy on data binding is that: [a] databinding should be fast, and [b] databinding frameworks should allow for the divergence and evolution of your codebase from its xml representation. JiBX excels on both counts and consequently is a practical tool for the purpose of data binding. In this session, Eitan will be covering all aspects of Dennis Sosnoski's JiBX framework.

### **All Roads Lead to.. AOP? by Eitan Suez**

An exercise in refactoring, playing with Java 5 annotations, varargs, JUnit, and more (see detail description for more).

### **Naked Objects Applied by Eitan Suez**

Join Eitan in this hands-on session on Naked Objects. This session uses the "learning by doing" approach to learning an API or framework. Naked Objects is a powerful tool that can give you a significant advantage in the development of business systems. It gives you the ability to prototype a software application so quickly that it can be performed during information gathering phases of a project. It gives you the power to codevelop the core business model of your application with a non-developer business expert at your side. No prerequisite knowledge of Naked Objects is required.

### **Hibernate by Example by Eitan Suez**

This talk covers the core of the Hibernate Object/Relational Mapping framework by example; that is: in a hands-on manner.

### **Pragmatic Unit Testing with TestNG and EasyMock by Howard Lewis Ship**

You've heard about unit testing but were daunted when it came time to put the pedal to the metal. That's because JUnit is just one tool and there's others you need to learn about, including the wonderful and wierd EasyMock and the easy and powerful TestNG.

### **Tapestry In Action (Part Two) by Howard Lewis Ship**

In Tapestry, components are not an add-on; in fact, anything but! Tapestry components are integral to the entire framework # if something dynamic is going on in a page, there's a component involved.

### **Tapestry In Action (Part One) by Howard Lewis Ship**

An introduction to the Jakarta Tapestry web application framework, which will explain the concepts and features of the framework while live coding simple applications. Tapestry forms, request cycle, component object mode. The use of several important components (including the powerful Table data grid) will be featured.

### **An Introduction to User Stories for Software Requirements by Mike Cohn**

The technique of expressing requirements as user stories is one of the most broadly applicable techniques introduced by Extreme Programming. User stories are an effective approach on all time constrained projects, not just those using XP.

### **Salvaging Struggling Projects: Digging for Gold Instead of Digging a Deeper Hole by Mike Cohn**

Projects struggle for many reasons#overly aggressive deadlines, unproven technologies, scope creep, team dynamics, communication problems, and inter-team coordination are just some of the reasons. If not given attention, these problems can ultimately cause a project to fail entirely. However, if you act early and in the right way, most struggling projects can be turned around.

### **Project Economics: Selecting and Prioritizing High Value Projects by Mike Cohn**

Almost all of us have worked on too many projects that have failed because of economic reasons rather than technical reasons. Just as the technical team is required to estimate the effort that will go into a project, a marketing or product management team should estimate the benefits of doing the project. Benefits can come in the form of additional sales, increased customer retention, increased operating efficiencies, and so on.

### **Managing Agile Projects: Dispelling the Myths by Mike Cohn**

There is a myth that agile projects do not need project management and that they cannot be estimated and planned. In this session we will dispel those rumors and learn why the job of the agile project manager is to do more than just buy pizza and get out of the way.

### **Overview of Agile Estimating and Planning by Mike Cohn**

Estimating and planning are key skills. A good plan helps both the organization and the developers working on the project. In this session you'll learn how an easy and effective approach to estimating and planning

that can help you create more realistic plans.

### **Pragmatic Extreme Programming by Neal Ford**

This session talks about how to actually get XP done in the real world (and what to tell your boss). This session includes artifacts (like project tracking sheets) from real XP projects.

### **Real-world Agile Development by Neal Ford**

Lots of developers want to use Agile development technique but don't know where to start. This session discusses how to get started with Agility, the key benefits you can expect, and the pitfalls to avoid.

### **The Productive Programmer by Neal Ford**

This session shows you how to become a more productive programmer every day by using tools that you didn't know you already had.

### **SOA and ESB: Next Wave of Enterprise Development or Return of the Son of CORBA? by Neal Ford**

Are Service Oriented Architecture and Enterprise Service Buses the next wave of distributed computing or just the same old crap in a shiny new package? This session provides an overview of what most people agree is the definition of SOA and some of the characteristics of ESBs. I talk about EAI, your MOM, SOA, ESB, and all the other acronyms I can come up with.

### **Easing into Agile by Scott Davis**

How do you get started with an Agile development methodology? Everyone has been talking about eXtreme Programming for years, but how do you get it introduced to your team? Many times, you're not simply transitioning from one methodology to another -- you're introducing a methodology for the first time. Adding structure to a previously unstructured endeavor. Adding a touch of discipline where programmers once roamed free.

### **Holistic Testing by Scott Davis**

Mark Twain once said, "Everyone talks about the weather, but nobody does anything about it." Do you feel the same way about Unit Testing? Are you actively testing your code, or are you just thinking about testing your code... some day... once you get some more free time...

### **Real World Web Services by Scott Davis**

In this talk, we'll survey the web services exposed by leading websites (Google, Yahoo, Amazon, eBay) and discuss how they are driving the AJAX revolution. You'll see examples of RESTful, SOAP, and JSON web services, as well as the strengths and weaknesses of each.

### **Advanced Hibernate by Stuart Halloway**

Hibernate is easy to get started with, but can sometimes be hard to make efficient or secure. In fact, the default settings for Hibernate create applications that will run slowly, cause unwanted round trips to the database, and may be more restrictive and/or permissive from a security standpoint than you would otherwise want.

### **Spring Security with ACEGI by Stuart Halloway**

Spring offers developers a simpler, more robust method for configuring applications. These benefits extend to security through the ACEGI framework. ACEGI makes the otherwise daunting task of securing your application logical and straightforward. More importantly, through its support for single sign-on provision through Yale's CAS system and its ability to provide instance-level authorization, Spring extends the common security model of most J2EE apps beyond what they are traditionally capable of.

### **Programming Java Concurrency by Stuart Halloway**

Java has always provided a model for concurrency and threads. With Java 1.5, this model received a major facelift. Learn how to use the new concurrency utilities to build responsive, scalable, and correct concurrent applications.

### **Ajax Architecture by Stuart Halloway**

Ajax applications have unique architectural challenges and opportunities. This presentation will show you how to take advantage of the Ajax's strengths, and work around its quirks.

### **Spring Fundamentals by Stuart Halloway**

The Spring framework is one of the fastest growing open source frameworks. New job postings are gaining

rapidly, and many customers are adopting Spring instead of heavier alternatives. In this session, we'll introduce Spring. You'll see how Spring can give you much of the power of EJB, without the complexity or pain.

### **Spring Dependency Injection by Stuart Halloway**

Dependency Injection (DI) is the cornerstone of Spring. The core concept is quite simple, but (surprise!) actual practice can become complex. To take full advantage of Spring DI, you need to understand not only the basics on configuration, but also the container lifecycle model and the various hooks provided by the framework.

### **Spring AOP by Stuart Halloway**

Learn to use Spring AOP, aspect injection. and AspectJ integration

### **Pragmatic XML Services by Ted Neward**

There's a lot of talk about web services, and most of it falls into one of two categories: lots of low-level talk about vendor-specific tools and extensions, or lots of high-level talk that never shows you a line of code. XML services aren't that hard, and in this talk, we'll see how, why and when to do one.

### **Java5: The Language, The Libraries, The VM by Ted Neward**

Java5 introduced a whole slew of new features, including annotations (JSR 175), new language features (the enhanced for loop, generics, static imports, and more), new library support (java.lang.instrument, among others), and some interesting enhancements to the virtual machine itself.

### **Effective Enterprise Java: State Management by Ted Neward**

Managing state--both transient state (like your shopping cart) and your durable state (like your order placements, your inventory management forms, and so on)--is tricky in an enterprise application. In this talk, we'll examine some of the trickiness, both high-level and low-.

### **Extend the Customization Possibilities of Your Java App with Scripts by Ted Neward**

Ever wished you could just put parts of your program in end-users' hands and let them build the infinite little changes they want? Ever thought about how you might make your application more robust by writing less code, not more? Embed a scripting engine into your application--complete with the safeguards necessary to ensure that users can't do anything they shouldn't be able to--and release yourself from the Principle of Perpetual Enslavement.

### **J2EE Web Services @ Work by Tom Marrs**

Have you tried to deploy J2EE Web Services and thrown up your hands in frustration at the lack of tool support? Have you been confused by the tangled web of new deployment descriptors? Do you want to know how to develop and deploy J2EE-compliant Web Services so that it works every time? If so, then this talk is for you. at the lack of tool support? If so, then this talk is for you.

### **J2EE Security @ Work: J2EE Meets JAAS by Tom Marrs**

Have you wasted time writing lots of security-based code and ever wondered if there's a better way to add security to your application? Are you confused by declarative security? Have you read about JAAS (Java Authentication and Authorization Service) but wondered where it fits? Have you ever said, "Can I just see a working example"? If so, then this talk is for you.

### **Practices of an Agile Developer by Venkat Subramaniam**

You have worked on software projects with varying degree of success. What were the reasons for the success of your last project? What were the reasons for those that failed? A number of issues contribute to project success - some non-technical in nature. In this presentation the speaker will share with you practices in a number of areas including coding, developer attitude, debugging, and feedback. The discussions are based on the book with the same title as the talk.

### **Refactoring your code - a key step in agility by Venkat Subramaniam**

Refactoring is one of the core practices in Agile Software Development. Refactoring is based on some core principles that apply to more than writing good code. But, what's refactoring? Why should you do it? How do you go about doing that? What tools are available to successfully refactor your App?

### **Open Source Tools for Agile Development by Venkat Subramaniam**

As a Java developer, you have taken the time to learn the basics of the language and relevant parts of its

rich API. However, you need more than that to develop serious industrial strength applications. In this presentation, the speaker will introduce you to a number of open source tools which you can use to improve your application quality and your development process.

#### **Portal Standards and implementation by Venkat Subramaniam**

Portals and Portlets allow you to personalize your web application. However, developing and deploying portlets across different portals can be a challenge. What is WSRP and JSR-168. How are these related and how are these different? Are these competing technologies or do they work with each other?

#### **Working with Rules Engines by Venkat Subramaniam**

Rule based programming allows us to develop applications using declarative rules. These can simplify development in applications where such rules based knowledge is used for decision making.