

# Salt Lake Software Symposium

Marriott Salt Lake City University Park

July 17 - 18, 2009

[http://www.nofluffjuststuff.com/conference/salt\\_lake\\_city/2009/07/home](http://www.nofluffjuststuff.com/conference/salt_lake_city/2009/07/home)

The No Fluff Just Stuff Java Symposium Series is proud to announce the return of the Salt Lake Software Symposium on July 17 - 18, 2009. SLSS2009 will be held at the Marriott Salt Lake City University Park.

Since 2002, the No Fluff Just Stuff Java Symposium has been regarded as the premier Java/Agility event series anywhere serving over 21,000 attendees with some 130 events. The popularity of the NFJS symposium series can be traced to the following:

- 1). Exceptional Speakers
- 2). Limited Attendance - capped at 250 people
- 3). No Vendors, No Sales Pitches, No Marketecture
- 4). Excellent networking opportunity with speakers and fellow attendees because of small size.
- 5). The Best Value in the Java conferencing space period.

You will have the opportunity to attend multiple sessions on variety of interesting topics covering core Java, Enterprise Java, Web 2.0, Dynamic Languages, Architecture, Security, Testing, CI and Agility.

## **The Registration Fee Includes:**

3 Day All Access Pass to SLSS2009

All Meals/Snacks - duration of the symposium

Complimentary copy of "Career 2.0" by Jared Richardson

90 Day IntelliJ license compliments of JetBrains

Session Materials

Custom NFJS Binder

Great Giveaways @ NFJS including \$200 and \$400 Apple Gift cards

**Early Bird Registration:** \$800/person good thru 6/29/09 after \$900

**Excellent Group Discounts Available** - bring your entire development team to the show - no travel required!! Rate good thru 6/29/09

## **Registration Fees**

Attendees	Before Jun. 29, 2009	After Jun. 29, 2009
5-9	\$700	\$800
10-14	\$675	\$775
15-24	\$650	\$750
25+	\$625	\$725

Go to [http://www.nofluffjuststuff.com/conference/salt\\_lake\\_city/2009/07/home](http://www.nofluffjuststuff.com/conference/salt_lake_city/2009/07/home) and register today!

# Salt Lake Software Symposium

## -Session Schedule-

(event schedule as of July 8, 2009)

### Friday, Jul. 17

7:30 - 8:30 AM : REGISTRATION/BREAKFAST

8:30 - 8:45 AM : WELCOME

8:45 - 10:15 AM - Sessions

#### **Session #1 @ Bonneville 1 : Emergent Design & Evolutionary Architecture by Neal Ford**

Most of the software world has realized that BDUF (Big Design Up Front) doesn't work well in software. But lots of developers struggle with this notion when it applies to architecture and design. Surely you can't just start coding, right? You need some level of understanding before you can start work. This session describes the current thinking about emergent design & evolutionary architecture, including both proactive (test-driven development) and reactive (refactoring, composed method) approaches to discovering design. The goal of this talk is to provide nomenclature, strategies, and techniques for allowing design to emerge from projects as they proceed, keeping you code in sync with the problem domain.

#### **Session #2 @ Bonneville 2 & 3 : Designing for Ajax, part 1 by Nathaniel Schutta**

So you've convinced the boss that your new web application just has to have Ajax...but now what? With dozens of libraries making even the most blinkish of interactions trivial, how do you decide where to sprinkle the magic Ajax dust? This talk will give a plain old boring "web 1.0" an Ajax facelift with a focus on improving the user experience providing you with a game plan for introducing Ajax to your world.

#### **Session #3 @ Theatre : Effective Java by Venkat Subramaniam**

Java is a well established language, that has been around for more than a decade. Yet, programming on it has its challenges. There are concepts and features that are tricky. When you run into those, the compiler is not there to help you.

#### **Session #4 @ Connor : The Amazing Groovy Weight-loss Plan by Scott Davis**

"The central enemy of reliability is complexity." (Dr. Daniel Geer) Java is a powerful programming language. A smart developer can do nearly anything with Java. So the next question is, "How quickly can it be done? How many lines of code does it take to do common tasks?" Groovy greases the wheels of Java by decreasing the complexity of the language while preserving the raw power. At first glance, you might think that this talk is simply about how Groovy drastically reduces the lines of code you need to write. What this talk is really about is bringing simplicity, clarity, readability, and yes, beauty to your source code.

#### **Session #5 @ Fort Douglas : Agile, Relevance Style by Stuart Halloway**

The Agile Manifesto, like any good scripture, admits of many interpretations. There is no one "right path." What works for us may not work for you. At Relevance we have tried many paths, and learned many lessons. Join us to see dozens of ideas that have worked for us, plus some that haven't.

10:15 - 10:45 AM : BREAK

10:45 - 12:15 PM - Sessions

#### **Session #6 @ Bonneville 1 : Real-world Refactoring by Neal Ford**

Refactoring is a fine academic exercise in the perfect world, but we don't really live there. Even with the best intentions, projects build up technical debt and cruddy bad things. This session covers refactoring in the real world, at both the atomic level (how to refactor towards composed method and the single level of abstraction principle) to larger project strategies for multi-day refactoring efforts. This talk provides practical strategies for real projects to effectively refactor your code.

#### **Session #7 @ Bonneville 2 & 3 : Designing for Ajax, part 2 by Nathaniel Schutta**

We'll pick up where Part 1 left off working in even more advanced approaches such as offline support with Google Gears.

#### **Session #8 @ Theatre : Programming Scala by Venkat Subramaniam**

Scala is a static fully object-oriented, functional language on the JVM. While taking advantage of the functional aspects, you can continue to make full use of the powerful JVM and Java libraries.

#### **Session #9 @ Connor : Groovy XML Ninja Skills by Scott Davis**

"XML is like violence: if it doesn't solve your problem, you aren't using enough of it." (Anonymous) XML is everywhere. Whether you are dealing with local configuration files (web.xml, struts-config.xml) or remote web services (SOAP, REST, RSS, Atom), the modern software developer needs to be able to request, slice, and dice XML with ease. That requires a set of razor-sharp tools that reduce the inherent complexity of the problem, not multiply it. Once you see XML tremble in fear at the awesome power of Groovy, you'll wonder what you ever did without it.

#### **Session #10 @ Fort Douglas : Taking Agile From Tactics to Strategy by Stuart Halloway**

Teams adopting agile should begin at a tactical level, but they shouldn't end there. The Agile Manifesto operates at many different levels. Learn to apply the principles of agile at a strategic level. Otherwise you can have a great agile ground game and still lose.

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## -Session Schedule-

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12:15 - 1:15 PM : LUNCH

1:15 - 2:45 PM - Sessions

### **Session #11 @ Bonneville 1 : Git control of your source by Stuart Halloway**

Git is not the next step in evolution of centralized source control, following in the footsteps of cvs, svn, etc. These tools provide centralized history of deltas, where git provides distributed history of trees of content. In this talk, you will see the advantages of the git approach: Incredible speed. Local, disconnected operation. Source control workflow customized to your team. Centralized, distributed, or layered, you can build it with git. Cheap and easy branching, tagging, and merging. Editing and refactoring your commits.

### **Session #12 @ Bonneville 2 & 3 : Cleaning up Code Smell by Venkat Subramaniam**

Projects often start out simple, but soon become complex and turn into a lose cannon. Organizations are struggling to maintain and evolve software. Poor code quality is a significant part of that problem. Improving the quality of code is critical to success of enterprise projects.

### **Session #13 @ Theatre : The Busy Java Developer's Guide to Java7 by Ted Neward**

Even though the Java 7 JSR has yet to be formed, some interesting things are beginning to emerge from Sun about what Java7 may include when its formal release contents are finally made public.

### **Session #14 @ Connor : Dim Sum Grails: A Sampler of Practical Non Database-Driven Grails Applications by Scott Davis**

"The proof of the pudding is in the eating. By a small sample we may judge of the whole piece." (Miguel de Cervantes Saavedra) Most Grails tutorials demonstrate how easy it is to build simple CRUD (Create/Retrieve/Update/Delete) applications. While skinning a database with a web front-end is undeniably one beneficial aspect of Grails, it isn't the only thing Grails is good for. As you'll see here, Grails can be used to build a wide variety of web applications. You won't see a single HTML table with "edit" and "delete" links, I promise.

### **Session #15 @ Fort Douglas : Project Bootstrapping by Nathaniel Schutta**

Ah, that new project smell, it's intoxicating! Full of hope, we trek off in pursuit of technical greatness. In this talk, we'll cover some of the important first steps of a new project including continuous integration, creating a testing culture and establishing low ceremony process.

2:45 - 3:00 PM : BREAK

3:00 - 4:30 PM - Sessions

### **Session #16 @ Bonneville 1 : Test Driven Design by Neal Ford**

Most developers think that "TDD" stands for Test-driven Development. But it really should stand for "Test-driven Design". Rigorously using TDD makes your code much better in multiple ways.

### **Session #17 @ Bonneville 2 & 3 : Building External DSLs by Venkat Subramaniam**

Domain Specific Languages (DSLs) are languages targeted at a particular problem and domain. They have context and are fluent. They help users of applications at various levels to easily communicate with your application. Developing DSLs, however, are not easy. You could easily get dragged into using parsers and tools with steep learning curve.

### **Session #18 @ Theatre : The Busy Java Developer's Guide to Java Platform Security by Ted Neward**

Permissions, policy, SecurityExceptions, oh my! The Java platform is a rich and powerful platform, complete with a rich and powerful security mechanism, but sometimes understanding it and how it works can be daunting and intimidating, and leave developers with the basic impression that it's mysterious and dark and incomprehensible. Nothing could be further from the truth, and in this presentation, we'll take a pragmatic, code-first look at the Java security platform, including Permissions, the SecurityManager and its successor, AccessController, the Policy class and policy file syntax, JAAS, and more.

### **Session #19 @ Connor : Lizard Brain Web Design by Scott Davis**

"There's an old story about the person who wished his computer were as easy to use as his telephone. That wish has come true, since I no longer know how to use my telephone." (Bjarne Stroustrup) The "lizard brain" is the oldest part of the human brain -- the part responsible for autonomic functions like breathing, heart rate, and navigating websites. OK, maybe not that last part, but your website should be easy to use. Stupid easy. Lizard brain easy. Any time your user spends figuring out how to do something -- even for a split second -- is wasted time due to poor design. Inspired by Steve Krug's book "Don't Make Me Think", this talk answers the question, "Why is that website so hard to use?"

### **Session #20 @ Fort Douglas : Seven Habits of Highly Dysfunctional Teams by Nathaniel Schutta**

Being on a high performing team is a transcendent experience - unfortunately, many of us find more dysfunction than function. In this talk, we'll take a look at some of the common issues that face teams and discuss some ways of working towards a happy crew.

4:30 - 4:45 PM : BREAK

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4:45 - 6:15 PM - Sessions

### **Session #21 @ Bonneville 1 : How to Fail with 100% Code Coverage by Stuart Halloway**

Over the last few years, we have taken dozens of projects to 100% coverage, and there are still plenty of things that can go wrong. We will look at examples the various problems, and show how to prevent them from infecting your project.

### **Session #22 @ Bonneville 2 & 3 : Design Patterns in Java and Groovy by Venkat Subramaniam**

You're most likely familiar with the Gang-of-four design patterns and how to implement them in Java. However, you wouldn't want to implement those patterns in a similar way in Groovy. Furthermore, there are a number of other useful patterns that you can apply in Java and Groovy. In this presentation we'll look at two things: How to use patterns in Groovy and beyond Gang-of-four patterns in Groovy and Java.

### **Session #23 @ Theatre : The Busy Java Developer's Guide to Advanced Platform Security by Ted Neward**

So you know the platform security model, and now you want to use it in new and interesting ways, like creating a custom Policy implementation, a custom Permission, or create a custom security context in which code will execute. Perhaps you even wish to make certain objects accessible only to those with the right permissions, or cryptographic key. Nothing could be easier, despite Java security's reputation as a dark and arcane place.

### **Session #24 @ Connor : Web 2.0 Checklist: Deconstructing Modern Websites by Scott Davis**

"The challenge of modernity is to live without illusions and without becoming disillusioned." (Antonio Gramsci) There are plenty of sarcastic "Web 2.0" checklists out there -- be perpetually in BETA, when in doubt add rounded corners, etc. While we can all laugh at the superficial aspects of the Web 2.0 revolution, there are plenty of serious aspects to it as well. Is your website mash-up friendly or hostile? Do you tell your visitors when things change (via RSS or Atom syndication), or do you expect them to check in daily for updates? Is your website a silo or a part of a larger ecosystem?

### **Session #25 @ Fort Douglas : Visualizations for Code Metrics by Neal Ford**

Judicious use of metrics improves the quality of your code. But interpreting metrics presents a challenge. You have a list of numbers for a project - what does it mean? And what does it tell me about the health of the project overall? This sessions shows how to produce visualizations for software metrics, making them easier to understand and more valuable. It covers metrics at the individual method level all the way up to the overall architecture of the application. This isn't just a talk about how some tools produce visualizations: this session shows you how to generate your own visualizations, allowing you to customize it to the level in information density that shows real value on your project. I show how to produce projected graphs from dependencies, heat-maps for cyclomatic complexity and code coverage, using XSLT to extract visual information from XML configuration documents, and others. Metrics can't help you if you can't understand them. By creating visualizations, it helps leverage metrics to make your code better.

6:15 - 7:00 PM : DINNER

Keynote: \$presentation.title - Venkat Subramaniam

## **Saturday, Jul. 18**

7:30 - 8:15 AM : BREAKFAST

8:15 - 9:45 AM - Sessions

### **Session #26 @ Bonneville 1 : Architecture and Scaling by Ken Sipe**

Scale... what is scale... how do you applications that are scalable. How do you know if the application scales?

### **Session #27 @ Bonneville 2 & 3 : The Productive Programmer: Mechanics by Neal Ford**

Developers from the 1980s would be shocked at how inefficiently developers use their computers because of the advent of graphical operating systems. This talk describes how to reclaim productivity afforded by intelligent use of command lines and other ways of accelerating your interaction with the computer and bending computers to do your bidding. Stop working so hard for your computer!

### **Session #28 @ Theatre : Open Source Debugging Tools, A 90 Minute Bootcamp by Matthew McCullough**

Open Source is not just a suite of libraries you consume within your application, but now reaches into the space of tools to help you troubleshoot and improve your applications. This session will quickly survey a wide range of tools across the Java, Networking, Filesystem, SOAP, REST, HTML, CSS and JavaScript realms. We'll look at applications such as VisualVM, which help you analyze your heap and garbage collection cycles of both local and remote applications. Performance and load testing tools such as JMeter will expose bottlenecks, threading, and scalability concerns of everything from Java modules to Web Apps (even ones that don't use any Java).

### **Session #29 @ Connor : JSF 2.0: An Introduction by David Geary**

This session introduces JSF 2.0 fundamentals, with emphasis on new features in JSF 2.0.

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## -Session Schedule-

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### **Session #30 @ Fort Douglas : Agile Retrospectives by Stuart Halloway**

Agile teams manage change and risk by adapting. But to adapt, you must identify opportunities for change and take them. Retrospectives are a fun, cost-effective way for your team to learn and change.

9:45 - 10:00 AM : BREAK

10:00 - 11:30 PM - Sessions

### **Session #31 @ Bonneville 1 : So you want to be an Architect by Ken Sipe**

This session is a quick look at all aspects of being a corporate software architect. Whether you are a developer looking to move into the role of architect, needing to have an understanding of what is expected or already in the role of software architect looking for new and interesting ideas, this session is for you.

### **Session #32 @ Bonneville 2 & 3 : Hands-on Agile Development by Neal Ford**

BRING YOUR LAPTOP WITH YOU, BUT A LAPTOP ISN'T REQUIRED! Reading and hearing about agile practices is one thing, but actually doing it is completely different. This session puts you to work in an agile fashion, applying agile developer practices.

### **Session #33 @ Theatre : The Busy Java Developer's Guide to ClassLoaders by Ted Neward**

If you've ever gotten a ClassCastException and just knew the runtime was wrong about it, or found yourself copying .jar files all over your production server just to get your code to run, then you probably find the Java ClassLoader mechanism to be deep, dark, mysterious, and incomprehensible. Take a deep breath, and relax--ClassLoaders aren't as bad as they seem at first, once you understand a few basic rules regarding their operation, and have a bit more tools in your belt to diagnose ClassLoader problems. And once you've got that, and hear about ClassLoaders' ability to run multiple versions of the same code at the same time, and to provide isolation barriers inside your application, or even compile code on the fly from source form, you might just find that you like ClassLoaders after all... maybe.

### **Session #34 @ Connor : JSF 2.0: Advanced Topics by David Geary**

This session covers two of the most kickass features of JSF 2.0: composite components and built-in Ajax.

### **Session #35 @ Fort Douglas : Introduction to NetKernel : Software for the 21st Century by Brian Sletten**

Imagine the simplicity of REST married to the power of Unix pipes with the benefits of a loosely-coupled, logically-layered architecture. If that is hard to imagine, it may be because the architectures available to you today are convoluted accretions of mismatched technologies, languages, abstractions and data models. NetKernel is a disruptive technology that changes the game. It has been quietly gaining mind share in the past several years; people who are exposed to it don't want to go back to the tired and blue conventions of J2EE and .NET. Not only does it make building the kinds of systems you are building today easier, it does it more efficiently, with less code and a far more scalable runway to allow you to take advantage of the emerging multi-core, multi-CPU hardware that is coming our way. Come see how this open source / commercial product can change the way you think about building software.

11:30 - 12:15 PM : EXPERT PANEL DISCUSSION

12:15 - 1:00 PM : LUNCH

1:00 - 2:30 PM - Sessions

### **Session #36 @ Bonneville 1 : Architecture: Non-Functional Requirements by Ken Sipe**

The agile focus of software development puts heavy focus on user requirements through user stories. However we can not lose sight of the non-functional requirements as well. The software could be written to the exact specification and desire of the user, however if it takes 5 minutes for a request response, or it only supports 2 users or it isn't secure, then we still haven't done our jobs as developers.

### **Session #37 @ Bonneville 2 & 3 : Unit Testing that Sucks Less: Small Things that Make a Big Difference by Neal Ford**

Unit testing seems to a lot of managers and developers like pure overhead, but professionally responsible developers know that it is one of the keys to quality. This session covers a bunch of small tools that makes testing easier & faster. I talk about tools like Infinitest, Jester, MockRunner, Hamcrest, Groovy, RSpec/EasyB, Selenium, and others. While none of these tools is elaborate enough for it's own session, together they add up to more than the sum of the parts. This session shows tools and strategies to streamline testing, making easier and more palatable for both managers and developers.

### **Session #38 @ Theatre : The Busy Java Developer's Guide to Collections by Ted Neward**

For so many Java developers, the java.util.\* package consists of List, ArrayList, and maybe Map and HashMap. But the Collections classes are so much more powerful than many of us are led to believe, and all it requires is a small amount of digging and some simple exploration to begin to "get" the real power of the Collection classes.

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### **Session #39 @ Connor : Flex for Java Developers by David Geary**

An introduction to Flex for Java developers.

### **Session #40 @ Fort Douglas : Advanced NetKernel : Software for the 21st Century by Brian Sletten**

If you have come to the NetKernel overview talk and came away compelled but unsure how to proceed, this talk will jump right in to building real resource-oriented systems with NetKernel. We will move away from the theoretical mind-melting right into the applied mind-melting. It is difficult to make the shift away from an object-oriented model, but this talk will demonstrate several examples of how and why you may want to. It will also include a preview of what is coming in NetKernel 4. This is kind of a REST + Polyglot Programming + SOA + Architecture talk all rolled up into one.

2:30 - 2:45 PM : BREAK

2:45 - 4:15 PM - Sessions

### **Session #41 @ Bonneville 1 : What's New in Spring 3 by Ken Sipe**

The Spring Framework has led the industry in innovation for years. Starting with dependency injection and promoting testing through removal of framework dependencies. Spring 3.0 continues that innovation in a way that takes full advantage of the Java 5 platform. There are a number of significant changes to the framework. So whether you are new to the framework or an experience Spring developer, this is a great session to come up to speed on the latest from SpringSource.

### **Session #42 @ Bonneville 2 & 3 : Java.next #1: Common Ground by Stuart Halloway**

In this talk, we will explore and compare four of the most interesting new JVM languages: Clojure, Groovy, JRuby, and Scala. Each of these languages aims to greatly simplify writing code for the JVM, and all of them succeed in this mission. However, these languages have very different design goals. We will explore these differences, and help you decide when and where these languages might fit into your development toolkit. For more information see <http://blog.thinkrelevance.com/2008/8/4/java-next-common-ground>.

### **Session #43 @ Theatre : Mastering Maven 2.0 by Matthew McCullough**

Maven has been on the Java build tools scene for quite a number of years, but the adoption rate in enterprises is now going through the roof. Maven can seem daunting, but this presentation will equip existing Maven users with more efficient techniques and tools to overcome the biggest perceived Maven hurdles and build issues with ease. We'll examine tools to help you find artifacts in central repositories, manage your corporation's internal Maven artifacts with a proxy tool such as Nexus, view and override dependency graphs, dependency management and multi-module best practices, create OS specific profiles, and leverage the latest Maven plugins for the top Java IDEs.

### **Session #44 @ Connor : GWT: An Introduction by David Geary**

An introduction to Google Web Toolkit.

### **Session #45 @ Fort Douglas : SPARQL: Querying the Data Web by Brian Sletten**

The human-friendly Web is about nicely-formatted, accessible content for users to browse. There is an emerging Data Web that relies on technologies from the Semantic Web stack to link increasingly rich connections between various data sources. SPARQL and RDF are the main tools for expressing and using this connectivity. This talk will introduce you to one of the practical and accessible aspects of employing these ideas on the Web and in the Enterprise.

4:15 - 4:30 PM : BREAK

4:30 - 6:00 PM - Sessions

### **Session #46 @ Bonneville 1 : Security Boundaries by Ken Sipe**

Security is a large concern in today's world of software development. Security is a multi-dimensional problem requiring skills at a number of different levels. This session is a security overview of a typical Java web development stack.

### **Session #47 @ Bonneville 2 & 3 : Programming Clojure by Stuart Halloway**

Find out why Clojure is Java.next: \* Clojure provides clean, fast access to all Java libraries. \* Clojure provides all the low-ceremony goodness you know and love from dynamic languages such as Ruby and Python. \* Clojure includes Lisp's signature feature: Treating code as data through macros. \* Clojure's emphasis on immutability and support for software transactional memory make it a viable option for taking advantage of massively parallel hardware.

### **Session #48 @ Theatre : iPhone Objective-C integration to Java Web Services by Matthew McCullough**

iPhone development is all the rage both in the mobile entertainment, social networking, and productivity application spaces. As a Java developer, prepare yourself to be a participant in aspects of this new breed and platform of development. Hop on board with a quick start to iPhone application coding in Objective-C and integration with some of our favorite Java web service back-ends such as JSR311 Jersey and RESTful Grails.

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## -Session Schedule-

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### **Session #49 @ Connor : GWT: Advanced Topics by David Geary**

Learn to do really cool stuff with GWT.

### **Session #50 @ Fort Douglas : Semantic SOA : Meaningful Service Strategies by Brian Sletten**

The goal for web services was always to reduce our burden by increasing the potential for reuse of business functionality. Somehow, we got lost along the way in a morass of confusing, unfulfilling and downright broken technologies. While we are interested in pursuing REST-based systems for managing information, we need some strategies for tying it all together sensibly. If we abandon WSDL, SOAP and UDDI, what do we replace them with? This talk will walk you through combining resource-oriented strategies with technologies from the Semantic Web to describe, find, and bind to services in dynamic, flexible and extensible ways.

## **Sunday, Jul. 19**