

# JavaOne<sup>SM</sup>

Sun's 2007 Worldwide Java Developer Conference™

May 8–11, 2007

The Moscone Center  
San Francisco, CA

JavaOne™ Pavilion: May 8–10, 2007

## 2007 JavaOne<sup>SM</sup> Conference Expanded to Include Open Source, Web 2.0, and Emerging Technologies

FOR MORE THAN A DECADE, the JavaOne<sup>SM</sup> conference has been a major event in the technology space—a dynamic coming together of Java™ technology developers, industry visionaries, and business leaders. And, like the technology itself, the Conference has continually evolved and expanded, adapting to the interests, needs, and professional backgrounds of its attendees.

The year 2007 marks a major milestone for the Java platform, the JavaOne conference, and the Java technology community at large. This Conference—the first since the Java platform was open-sourced—provides an opportunity to broaden the scope of the event. Although Java technology remains at center stage, the 2007 JavaOne conference will embrace all open source technologies and platforms that interoperate with and extend the core Java platform.



**Benefit from the unique and dynamic Conference atmosphere that supports learning, networking, and innovation through >**

**Expanded Content:** Experience a curriculum that includes Java technology and beyond.

**Education:** Choose from more than 250 technical sessions on core Java technology, scripting, open source, Web 2.0, and more.

**Community:** Meet with other developers who share your technology development experiences and needs.

**Industry:** See what the industry is doing with technology. Connect with leading companies, see solutions, check out demos, visit Presentation Theaters, and interact with the creators of the newest products and services.

### Expanded Content Includes >

- > Java Technology and the Core Java Platforms (EE/SE/ME)
- > Scripting (JavaScript™ Programming Language, PHP, Ruby on Rails, Python, and More)
- > Open Source and Community Development
- > Integration and Service-Oriented Development
- > Web 2.0 Development
- > Compatibility and Interoperability
- > Business Management

THE KEY GOAL OF THE CONFERENCE is to encourage core Java technology developers to explore new technologies and methodologies outside their normal sphere while exposing Java technology novices to its many strengths and benefits. Java technology was designed from the ground up to address the issues of scalability, security, identity management, interoperability, and stability—and has long been a proven industry choice for delivering rich, robust, scalable, and secure interactive services on almost any device.

For past attendees and for web developers using other technologies, the 2007 JavaOne conference profiles the latest advancements in Java technology and other open source offerings—and how they can serve to satisfy tomorrow's technology needs today. Attendees experience four fast-paced days of expert-led, in-depth technical sessions; Birds-of-a-Feather (BOF) sessions; industry panels; advanced hands-on workshops; technical case studies; tutorials; and the opportunity to network with more than 15,000 Java technology enthusiasts and industry leaders.

**We look forward to seeing you at the Conference!**

**SAVE \$200 | REGISTER BY APRIL 4, 2007**

**Register Today @ [java.sun.com/javaone](http://java.sun.com/javaone)**



## ROCK STAR SPEAKERS : The Best of the Best :



JavaOne conference Rock Stars are speakers who have been selected in surveys of their peers and recognized as outstanding speakers. They have received the highest marks from those who attended their sessions, and are they are experts in their areas. Here are a few of the Rock Stars you can learn from at the 2007 JavaOne conference.

### **Ben Galbraith** *Consultant*

#### **Creating Amazing Web Interfaces with Ajax**

Ben Galbraith is a frequent technical speaker, occasional consultant, and author of several Java technology-related books. He is a cofounder of Ajaxian.com, an experienced CTO and Java platform architect, and currently a consultant specializing in development with Java Foundation Classes/ Swing technology and Ajax. Galbraith wrote his first computer program when he was 6 years old, started his first business at 10, and entered the IT workforce just after turning 12. For the past few years, he's been professionally coding in the Java language. Galbraith has delivered hundreds of technical presentations worldwide at venues including the JavaOne conference, The Ajax Experience, JavaPolis, and the No Fluff Just Stuff Java Symposium series; he was the top-rated speaker at the 2006 JavaOne conference.

### **Trent Gray-Donald**

*Senior Technical Staff Member, J9 J2SE™ Platform  
Technical Lead IBM*

#### **What's Hot in IBM's Virtual Machine for the Java Platform? – 2007 Edition**

Trent Gray-Donald is the technical manager of the J9 Java 2 Platform, Standard Edition (J2SE™ platform) Java Virtual Machine team at IBM. His other main responsibility is leadership of reliability, availability, and serviceability (RAS) technology for the IBM Java Technology Centre. Previous efforts include roles on the VisualAge for Smalltalk and VisualAge for Java teams.

### **Cameron Purdy** *President, Tangosol, Inc.*

#### **The Top 10 Ways to Botch Enterprise Java Application Scalability and Reliability**

Cameron Purdy is the president of Tangosol and the specification lead for JSR 107. He travels an insane amount, knows all the cool Java technology people, and always knows where the good parties are at the JavaOne conference.

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# JAVA UNIVERSITY<sup>SM</sup> : In-Depth Technical Training :

The Java University<sup>SM</sup> program is returning as part of the JavaOne conference. As the focus of the Conference is expanding this year, so are the number and focus of the Java University program offerings. Our one-day courses, created and delivered by Sun-certified speakers, are being finalized now. These technical training courses offer in-depth information on the hottest development topics in today's market. Check the web site for this year's offerings.

## CONFERENCE PRICING | Customize Your Experience



Special Pricing	Early Bird (Through 4/4)	Regular (4/5-5/7)	On Site (5/8-5/11)
<b>Conference Plus Pass</b>	<b>\$2,495</b>	<b>\$2,595</b>	<b>\$2,695</b>
<b>Conference Pass</b>	<b>\$1,795</b>	<b>\$1,895</b>	<b>\$1,995</b>
<b>Java University<sup>SM</sup> Only</b>	<b>\$795</b>	<b>\$795</b>	<b>\$795</b>
<b>JavaOne Pavilion Only</b>	<b>\$150</b>	<b>\$150</b>	<b>\$150</b>
<b>Business Track Pass</b>	<b>\$350</b>	<b>\$350</b>	<b>\$350</b>
<p><b>Conference Plus:</b> Access to the four-day Conference program, including the Business Track, JavaOne Pavilion, and the one-day Java University program. Also includes a JavaOne Pavilion Pass for a colleague.</p> <p><b>Conference Pass:</b> Access to the four-day Conference program, including the Business Track, and the JavaOne Pavilion.</p> <p><b>Java University Only:</b> Access to the one-day Java University program only on Monday, May 7.</p> <p><b>JavaOne Pavilion Only:</b> Access to one day of the JavaOne Pavilion (5/8, 5/9, or 5/10).</p> <p><b>Business Track Pass:</b> Access to the one-day Business Track sessions on Tuesday, May 8, plus access to the general session and the JavaOne Pavilion for that day.</p>			
<p><b>The 5 + 1 Group Discount:</b> Do you plan to bring a large group to the Conference this year? The 2007 JavaOne conference 5 + 1 discount offers special savings when you register a group from your company. Buy five Conference Passes or Conference Plus Passes at regular price and get one Conference Pass free! It's as easy as calling our registration hotline (1-866-382-7151 United States and Canada only; 1-650-226-0820 international) for more details.</p> <p>Offer applies only to Conference Plus Pass and Conference Pass rates. No other offers/packages apply.</p> <p>Contact our Customer Service Center for additional information: Toll Free: 866-382-7151 (U.S. and Canada only); International: +1-650-226-0820</p>			

## Refer Five of Your Friends and Colleagues Receive a Sony PlayStation Portable (PSP) Game System\*

When you spread the word to friends and colleagues, the Refer a Friend Program rewards you like never before! Just have everyone you're referring enter your Registration ID number (located on your registration confirmation) as their Referral Code when registering for the 2007 JavaOne conference. You can receive the Referral Gift described below, based on the total number of completed registrations we receive that list your Registration ID Number as the Referral Code. All Referral Codes must be submitted at the time of registration to qualify.

1-4 Registration Referrals: One T-shirt; 5-9 Registration Referrals: One Sony PlayStation Portable (PSP) game system

*\*Available only to paid Conference Pass and Conference Plus Pass attendees.*

For complete rules on participation in the Refer a Friend Program, visit <http://jscreview.sfbay.sun.com/javaone/sf/registration.jsp>.



**SAVE \$200 | REGISTER BY APRIL 4, 2007**  
**Register Today @ [java.sun.com/javaone](http://java.sun.com/javaone)**



## GENERAL SESSIONS : Roadmaps to the Future :

In daily general session presentations, visionary speakers from industry leaders such as Intel, Oracle Corporation, and Sun Microsystems offer compelling visions of the technology future in terms of trends, challenges, and opportunities. These forward-looking sessions offer Conference attendees a roadmap for better exploring the rich field of technical sessions and Birds-of-a-Feather (BOF) gatherings offered throughout the week.

# <share/>



Send in your cool new innovation that uses Java technology to be considered for the 5th Annual Duke's Choice Awards TODAY.

This is your chance to be recognized for everything you are doing with the technology. For more on how you can be considered and how you can submit your innovation, please visit:  
[java.com/en/dukeszone/dukeschoice.jsp](http://java.com/en/dukeszone/dukeschoice.jsp).



## Get Connected With the 2007 JavaOne Conference Event Connect tool.

Tap the knowledge and expertise of a unique community of technologists and innovators through the JavaOne Conference Event Connect tool, an online knowledge and networking portal. As soon as you register, it enables you to:

- Plan your curriculum
- Communicate with speakers and learn more about scheduled sessions
- Connect with your peers
- Find technologies and solutions
- And much, much more

Get registered, get in, get connected, and start your JavaOne Conference experience today.

# SESSIONS OVERVIEW\* : We've Got You Covered :

No matter what your interest or skill level, we've got the sessions you want and need. From real-world case studies and best practices to technology demos and how-tos, we've got you covered. All sessions are expert-led, so you'll be in good hands. Sessions listed here are only a small subset of what is to come, so be sure to check [java.sun.com/javaone](http://java.sun.com/javaone) for updates and to plan your own curriculum.

*\*Content subject to change.*

## JRuby on Rails: Agility for the Enterprise

**Speakers** : **Thomas Enebo**, *Systems Engineer, Sun Microsystems, Inc.*  
**Charles Nutter**, *Senior Staff Engineer, Sun Microsystems, Inc.*

Web development has never been easier than with Ruby on Rails. From the first day, you have a runnable application, complete with development server. Code generators create skeletons, configurations, templates, and tests for your fully-MVC project. The generated code itself is perhaps a tenth of the size of other frameworks'— sometimes even smaller than those frameworks' configuration files alone. Rails developers are happier and more productive than those working on other platforms. And best of all, it's written in the powerful and elegant Ruby programming language.

Now Rails has arrived on the Java platform. JRuby on Rails brings the agility of Rails to Java-technology-based servers and applications, from the simplest web applications to the largest enterprise deployments. It promises agility for web tier developers across all organizations, in addition to the ease of use and proven scalability of Java technology-based application servers. This presentation discusses how JRuby on Rails brings the Rails revolution to the Java platform, in all its splendor.

## Search Inside the Music: Using Signal Processing, Machine Learning, and 3-D Visualizations to Discover New Music

**Speaker** : **Paul Lamere**, *Sun Microsystems, Inc.*

This presentation discusses Search Inside the Music, a Sun Laboratories research project that is exploring new ways to help people discover new music even as our music collections get very large.

SITM, written entirely in the Java programming language, uses digital signal processing and machine learning algorithms to build a music-similarity model that can predict how similar or dissimilar a pair of songs sound. SITM uses this model to recommend music by finding music that sounds similar to music you already know and like.

We discuss some of the problems inherent in traditional music recommenders and how a content-based approach to music recommendation can help improve music recommendations. It covers some of the algorithms involved in building a music-similarity model, including the digital-signal-processing algorithms used for extracting music features and the machine-learning algorithms for identifying significant patterns in music. It also discusses some of the algorithms used to generate immersive interactive visualizations of a music space, using the Java 3D API. It concludes with a demonstration of the Search Inside the Music system.

*(Session Overview continues on next page.)*



### jPDL: Simplified Workflow for Java Technology

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**Speaker :** *Tom Baeyens, JBoss, a division of Red Hat, Founder and Lead of JBoss jBPM*

Are you considering developing a homegrown workflow engine? Then you should definitely attend this session first. Java Process Definition Language (jPDL) is a language for expressing long-running processes. Unlike most orchestration technologies, jPDL focuses on plain Java technology and includes sophisticated task management capabilities. Attendees learn in which scenarios jPDL is more appropriate than BPEL or other process languages.

On the one hand, jPDL has all the required features for business process management (BPM), but on the other hand, jPDL is also designed to fit like a glove on standard and enterprise Java technology-based applications. Ease of use for Java programming language developers is often neglected in BPM offerings, and jPDL solves this problem.

### Developing Flashy Mobile Applications, Using SVG and JSR 226

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**Speakers :** *Martin Brehovsky, Software Engineer, Sun Microsystems, Inc.*  
*Andrei Mihaila, Senior SW Design Engineer, Nokia*  
*Marc Verstaen, Senior Director Engineering, Hyperion*

Developing UIs for Java Platform, Micro Edition (Java ME) applications has typically meant using either high-level LCDUI components, which do not provide enough flexibility, or creating a custom UI using low-level graphics, which is flexible but very difficult. With the introduction of JSR 226 (Scalable 2D Vector Graphics API for Java ME), the landscape has changed—now applications with a rich, animated, and interactive UI can be easily developed by use of appropriate tools.

This session discusses all stages of JSR 226-powered application development—from authoring tools for developing the SVG content, through the Java ME IDE utilizing JSR 226 for integrating the SVG content with business logic, to the deployment of the created application to the real device. Multiple examples and demos, along with source code, are shown for each stage of the development cycle, including a demonstration of JSR 226-based applications running on real devices.

### The Apache Harmony Project

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**Speakers :** *Tim Ellison, Senior Software Engineer, IBM UK Ltd.*  
*Geir Magnusson Jr., Senior Software Engineer, VP, JCP, and Chairman of the Apache Harmony Java SE Project, Apache Software Foundation*

Apache Harmony is an effort of the Apache Software Foundation to build a compatible implementation of Java Platform, Standard Edition (Java SE) 5. The project's goals include creating an open, modular architecture that supports interoperability between multiple implementations of the Java virtual machine (VM) and multiple implementations of the Java SE class library. Defining a strong modular architecture enables a disparate set of developers to collaborate on producing a compliant Java technology implementation.

This presentation describes techniques for defining the major functional areas of Java SE and gives a status report on the implementations progress to date. It shares some of the technical lessons learned in the Apache Harmony project to facilitate interoperability between open source and proprietary Java VMs and class library code. It demonstrates how the VM interface and class library architecture achieve the right degree of independence while ensuring that implementation choices are not compromised.

### Exploring the Deep with SONIA

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**Speakers :** *Martin Morissette, Software Team Leader, SONIA AUV Team*  
*Félix Pageau, Team Leader, SONIA AUV Team*

SONIA, an autonomous underwater vehicle (AUV), has proven that Java technology is a technology of choice for modern robotics applications. A team composed of volunteer engineering students from Ecole de Technologie Supérieure (ETS) has successfully demonstrated the power, versatility, and portability of Java technology by building AUVs that continuously rank among the three best in the world.

*(Exploring the Deep with SONIA continues on next page.)*

This session presents how the switch to Java technology enabled SONIA to become a winning platform. It delves into the methodologies used to achieve high productivity within a part-time volunteer organization and provides details on its

- > Flexible architecture for data gathering, fusion, and decision systems
- > Simulator using Java 3D API
- > Telemetric interface managed by Java Management Extensions (JMX)
- > Swing-based vision client to modify robotic vision parameters and algorithms on the fly
- > Visual AI editor tool powered by Jgraph

## What's Hot in BEA JRockit

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**Speaker : Staffan Larsen, Chief Architect, BEA Systems, Inc.**

This session is a continuation of last year's session of the same name. This year it digs deeper into the technical details of BEA JRockit, uncovering some of the specific optimizations done by the compiler and the secrets behind the deterministic garbage collector. It also takes a look at what diagnostics and monitoring tools are available to developers and how to use them to solve problems in a deployment environment.

JRockit is one of a few top Java Virtual Machine (JVM™) platforms for enterprise-wide usage. It is available on the Solaris™ Operating System, Windows, and Linux (SPARC®/x86/x86-64/Itanium).

## The Top 10 Ways to Botch Enterprise Java Application Scalability and Reliability

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**Speaker : Cameron Purdy, President, Tangosol, Inc.**

This follow-on to the last JavaOne conference's sleeper hit "The Top 10 Ways to Botch an Enterprise Java Technology-Based Application" explores best practices for protecting against scalability and reliability in Java Platform, Enterprise Edition (Java EE) applications and compute grid environments. Starting with simple abuses of messaging and clustering technologies, this presentation navigates a wide swath of options available to enterprising architects seeking to limit the effectiveness of scale-out environments.

After last year's presentation, the speakers were disappointed that some attendees mistakenly used this information to avoid pitfalls, errors, and other common causes of project failure. They hope for better results this year.

## Writing Java Platform Applications for Ubuntu

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**Speakers : Jeff Bailey, Supervisor, Ubuntu**

**Sathyan Catari, Staff Engineer, Sun Microsystems, Inc.**

**Larry Freeman, Senior Staff Engineer, Sun Microsystems, Inc.**

**Etienne Goyer, Senior Ubuntu System Support Analyst, Canonical**

**Harpreet Singh, Member of Technical Staff, Sun Microsystems, Inc.**

Ubuntu is one of the most popular flavors of Linux, according to DistroWatch.com. It focuses on user experience, which it accomplishes through a very active community and its packaging system. This panel session is copresented by Sun and Ubuntu (Canonical Ltd.).

The session focuses on the steps involved in writing an application that gets released through Ubuntu. It walks through the steps of releasing an application as part of Ubuntu and shows what's involved in taking advantage of the applications that have already been released as Ubuntu packages.

In the presentation, Sun engineers discuss the experience of releasing a GlassFish<sup>SM</sup> project on Ubuntu and how a Java EE 5 application that runs as a GlassFish project can be released on Ubuntu.

Ubuntu engineers discuss what's happening on the Ubuntu side and how Ubuntu is able to come out with new releases every six months while continuously improving its user experience and quality.

*(Session Overview continues on next page.)*

### 3-D Earth Visualization with NASA World Wind

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**Speaker :** *Tom Gaskins, World Wind Project Lead, NASA*

NASA World Wind provides next-generation 3-D virtual globe technology for embedding in applications written in the Java programming language. World Wind supplies a suite of Java components that developers include within their own applications, providing virtual globe functionality to any application that can benefit from it. This makes virtual globe technology available to far more people in far more domains. Because of the Java programming language's write once, run anywhere design, NASA World Wind components are available and identical on all platforms. The components perform as well as, or better than, any other known virtual-globe implementation and utilize the OpenGL® API for 3-D graphics via Java OpenGL (JOGL). The presentation introduces NASA World Wind and shows several ways of embedding it in programs written in the Java programming language. It describes how to deploy World Wind with Java Web Start software and as an applet. It also shows how to extend World Wind to visualize any 2-D or 3-D information in the context of an accurately modeled 3-D Earth with terrain.

### A Step Along the Way: Using Ajax, Portals, and Services to Provide Better Network Management

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**Speaker :** *Anton McConville, Software Architect, Nortel*

This presentation explores how one team at Nortel leveraged Web 2.0 concepts within a large corporation with a strong telecom hardware culture and history to strive toward a more capable management solution.

The presentation tells the story and discusses the ingredients: Enterprise JavaBeans™ (EJB™) 3.0 architecture, Ajax/portal-based user interface, service-oriented architecture, and agile development environment. It navigates through the terminology, cuts through the hype, and shows some bold decision-making here and there.

The session also demonstrates parts of the solution. A simple service is built and deployed to show how the technology fits together and how service orientation can help improve network manageability.

Although this solution doesn't close the digital divide in any immediate way, it rises to the challenge and hints at how we can grow to make the network smarter over time.

### Java Technology Libre Panel

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**Speakers :** *Geir Magnusson, Jr., VP, JCP, and Chairman of the Apache Harmony Java SE project, Apache Software Foundation*

*Tom Marble, Senior Java Performance Engineer, Sun Microsystems, Inc.*

*Dalibor Topic, Student In Chief for the SPASS project, Max Planck Institute for Computer Science*

*Tom Tromey, Engineer, Red Hat, Inc.*

*Mark Wielaard, GNU Maintainer, Free Software Foundation*

For the last 10 years, various projects have been working on free implementations of the Java programming language compilers, runtimes, and libraries. The recent Sun release of its Java SE implementation under GPLv2 adds the specification's reference implementation to the growing community of Java SE implementations. Come to this session to hear leading voices of the F/LOSS Java SE community discuss the effects of the move, collaboration points, where we want to go, and how to get there. The presentation also discusses what cooperation can lead to and how to retain an environment that fosters collaboration, innovation, and compatibility.

### Creating Amazing Web Interfaces with Ajax

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**Speaker :** *Ben Galbraith, Consultant*

How far we've come from the conventional wisdom of just a few years hence that web interfaces could never be "rich." In this session, Dion Almaer and Ben Galbraith of Ajaxian.com demonstrate exactly how to create rich web interfaces by using modern techniques pioneered by the Ajax community. They do this by presenting a variety of specific interface scenarios and case studies.

*(Session Overview continues on next page.)*

## What's Hot in IBM's Virtual Machine for the Java™ Platform? – 2007 Edition

**Speaker :** Trent Gray-Donald, Senior Technical Staff Member, J9 J2SE Technical Lead, IBM

IBM has provided a JVM for multiple platforms since the very early days of Java technology. The offering has matured significantly over the years, and this session aims to update the audience on the 2006 – 2007 progress IBM has made, notably with Java SE 6 and Sun Java Real-Time System. The presentation is technical in nature, discussing some of our key new technologies and some of the changes in our development methodology as we embrace new versions of the Java programming language.



# JAVA TECHNOLOGY BUSINESS DAY

## Leverage and Participate in the Java Technology Ecosystem

**New for  
2007**

**: MAY 8, 2007 :  
THE ARGENT HOTEL**

As Java technology evolves and grows, business policy makers are adapting to a changing landscape of rapid innovation, open source, global interconnectivity, and more. The JavaOne conference has been a fertile meeting ground for exchange of technology ideas and business ideas among peers across the industry. In these times of tremendous opportunity, effective leaders must consider best practices for innovation, indemnification, and monetization/ROI. For the first time, the JavaOne conference is offering a Java Technology Business Day, where you will experience real-world case studies and best practices from a manager's perspective.

### TOPICS INCLUDE:

- > Deployment
- > ROI
- > Implications of open source: monetization, legal concerns, cost structure
- > Articulating the value proposition of a project
- > Serviceability
- > Scalability
- > Architecture flexibility
- > Performance
- > Marketing, branding, distribution, partnering, and employment

If you or a coworker would benefit from a day of tutorial information on technical topics that will help executives make more-informed decisions, be sure to attend Java Technology Business Day during the 2007 JavaOne conference!

Visit [java.sun.com/javaone](http://java.sun.com/javaone) often for content updates.

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