JavaCal is a UCB forum for Java, Scala and enterprise computing software to collaborate and share ideas.

Mailing list: javacal@lists.berkeley.edu

Organized by Richard Katz: richkatz@berkeley.edu

What's here?

**Thing of the Week (TOTW)**

for those interested in the extensive new realms of Data Sciences, Apache Spark, TensorFlow and how to work with them.

**Language of the Week (LOTW)**

to gauge the direction of computer languages not necessarily relative to Java 8, 9:

Objectives

To develop and enhance practices for the University of California, Berkeley One IT concept. To develop Best practices, Best Tools, To collaborate and network with Cal Campus and IT groups and with the IT industry in the Silicon Valley and through out the Bay Area. Student and Faculty participation are encouraged.

Java Related Meetings (Bay Area):

- East Bay Java User Group
- San Francisco Java User Group

Java, Scala and Enterprise Computing Related Courses at UC Berkeley

Courses at Cal of interest specifically to Java and IT enterprise software include:

<table>
<thead>
<tr>
<th>CS 9G Java for Programmers</th>
<th>CS 160 User Interfaces, CS 260A User Interface Design and Development</th>
<th>INFO 253 Web Architecture</th>
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</thead>
<tbody>
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<td>CS 10 The Beauty and Joy of Computing (BJC), CS 61B Data Structures</td>
<td>CS 260A User Interface Design and Development</td>
<td>INFO 260 Distributed Computing Applications and Infrastructure, INFO 225 Managing in Information-Intensive Companies</td>
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<td>AMP Camp Mini-course (avail online)</td>
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Possible Upcoming Topics/Meetings:

**Development:** High Speed DevelopmentHot Deployment in IntelliJ and Eclipse: using hot deploy software such as JRebel
Future topics and interests.

<table>
<thead>
<tr>
<th>Web Apps and Deployment at Cal</th>
<th>Java in Industry</th>
<th>Java and JEE Development</th>
<th>JVM, Languages, Platforms and Performance</th>
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</thead>
<tbody>
<tr>
<td>• Configuring two way SSL in Tomcat</td>
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<td>• Java EE 8 Overview and Java EE7 by Arjan Tijms</td>
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<td>Deployment at UC Berkeley: Adapting Development and Deployment to Jenkins and Nexus</td>
<td>Workflow Software and Integration Software and Companies in the Bay Area and elsewhere.</td>
<td>Front-end Development using JQuery, GWT, JFX, Ext, new Java HTTP features. Other Java frameworks.</td>
<td>Languages of the JVM: LISP (Clojure, and Omega), Scala, JRuby, Jython, etc.</td>
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<td>Application Build Tools: Using IntelliJ and Eclipse, taking advantage of Nexus, Maven, Jenkins</td>
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<td>• What every Java developer needs to know about Java 9, Ben Evens, O'Reilly, Sep 18 discusses new HTTP and JSON features.</td>
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<td>The Java Language: Effective and Expressive Java</td>
<td>The future of Java: Java 8, Java 9, Lambda Expressions, Valhalla (Bernie Goetz): better Generics</td>
<td>Using Mobile Devices</td>
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Places to visit, in person, and on the Net

Java and Scala Groups

- East Bay Java User Group
- Bay Area Scala Enthusiasts
- Oakland advanced Scala Study Group
- San Francisco Java User Group (3,600 members)
- SF Scala
- Scala Bay (2,000 members)
- Silicon Valley Java User Group (3,800 members)
- Spark User Meetup (3,000 members)
- Javit: Reddit Java (31,000 readers)
- r/scala (6,800 readers)

Recent Field trip to the East Bay Java User Group meeting:

Modern tools for developing and deploying applications

Wednesday, July 16, 2014 6:30 PM

Robert Half International, 10th floor

1999 Harrison Street, Oakland, CA (map)

Agenda:
6.30-7pm - networking and pizza
7pm-9pm - presentation

There will be three talks on modern development and deployment tools by Fred Simon, founder of JFrog, the creators of Artifactory, an open-source repository manager.

**Developing for multi-component environments while keeping your sanity**

Managing a modern multi-component application in a continuous integration/deployment environment can be very tricky.

In this session we will concentrate on two of the aspects - environment setup, showcasing tools like Vagrant, Chef and Puppet for creating and controlling development, testing, staging, production and other environments and pushing the deliverables through those environments, using tools like Gradle, Jenkins and Artifactory.

Join us and get all the little tips and tricks that will help you rule your development world.

**How we took our server-side application to the Cloud and liked what we got**

Taking traditional Java server-side applications to the multi-tenant Cloud introduces lots of challenges. In this session, we will share our experience of creating a SaaS offering, which is currently being used successfully by the Java community. We will start by reviewing the challenges we faced during the SaaS conversion. Next, we will share our experience with the EC2 platform. We will discuss the importance of automation and how we use tools like Chef and Puppet for SaaS provisioning. Finally, we will describe how creating a SaaS version of our product shifted our way of thinking about software release. We will recommend what’s required to successfully release both SaaS and downloadable versions of your product.

**Continuously building, releasing and deploying software: The Revenge of the Machines!**

We used to release one product, once a year, built by one team. Today we have teams of hundreds of developers creating a multitude of software packages that are released multiple times a day. How did that happen?! In this talk, we’ll give you the answer: As the good old advice of Computer Science goes, “If it hurts, do it more often!” Suddenly, we realized that what we do during the “Release Month Code Freeze” is actually a lot of repeatable, automatable steps. So, we called in the machines. Now we have Continuous Integration servers controlling an exponential amount of robot developers (agents) that are building and testing our code, all day long. Continuous Deployment tools, dictating their order to robot sysadmin, deploying our software on a rapidly increasing amount of varied platforms, as frequent as we please. The Machines got their revenge, and “we, for ones, welcome our new robotic overlords”!