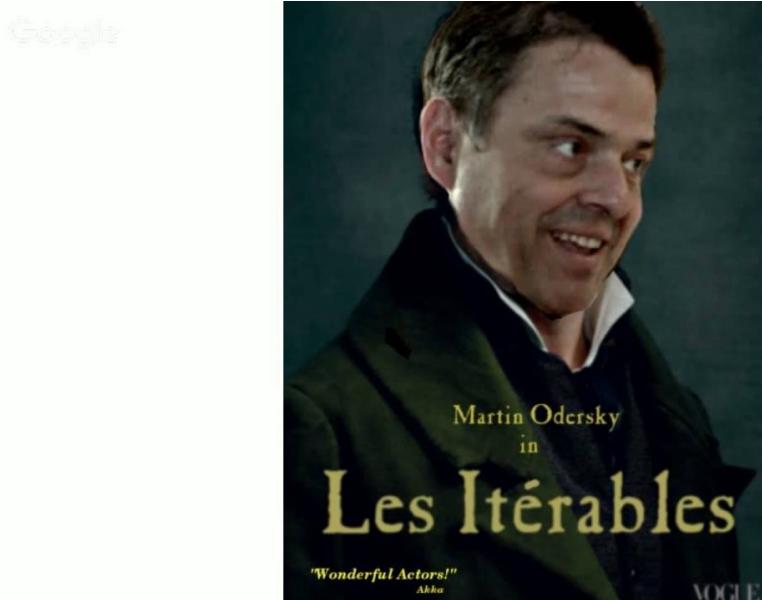


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- [Design is a Process, not a Document](#)

Flavors of Java Concurrency



Writing concurrent code that is also correct is unbelievably hard. Naturally, humanity has developed a number of approaches to handle concurrency in the code, starting from basic threads that follow the hardware way to do concurrency to higher level primitives like fibers and work-stealing solutions. But which approach is the best for you?



<http://virtualjug.com/?p=1827>



Resilience is by design



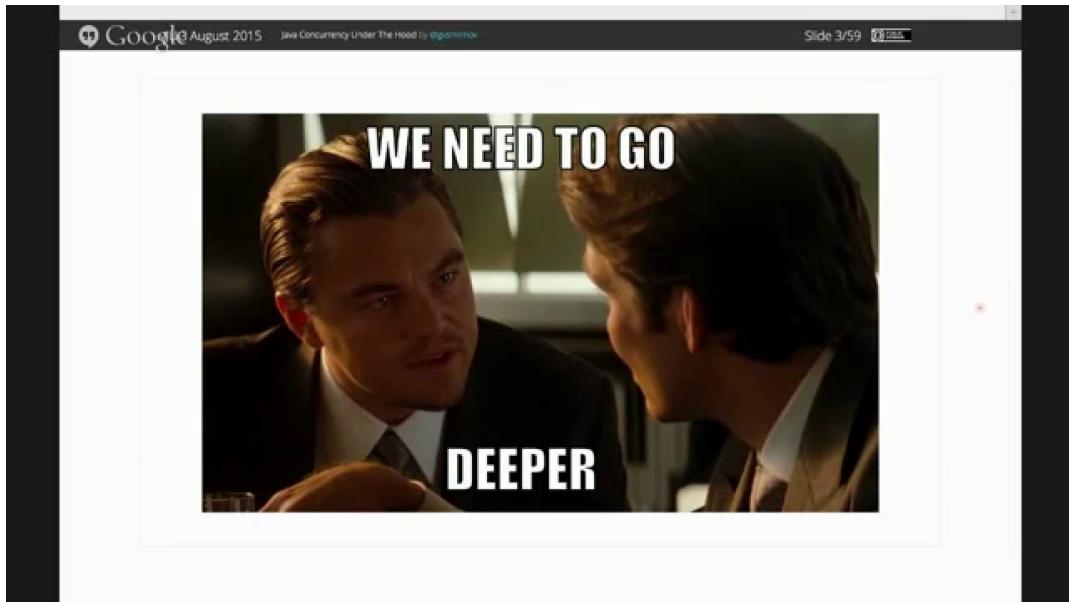
Resilience; most developers understand what the word means, at least superficially, but way too many lack a deeper understanding of what it really means in the context of the system that they are working on now. I find it really sad to see, since understanding and managing failure is more important today than ever. Outages are incredibly costly—for many definitions of cost—and can sometimes take down whole businesses. In this talk we will explore the essence of resilience. What does it really mean? What is its mechanics and characterizing traits? How do other sciences and industries manage it? We will see that everything hints at the same conclusion; there is no “happy path”, failure is an option and resilience is by design. In this talk we will explore how.



<http://virtualjug.com/?p=1807>



Java Concurrency Under the Hood



In this age when parallelism matters, being able to write proper concurrent code is paramount. While Java hides lots of implementation details by its ‘Write Once, Run Anywhere’ motto, all abstractions will eventually leak. When they do, you will have to go deeper and see how that thing actually works.



<http://virtualjug.com/?p=1799>



Getting Started with Minecraft Modding



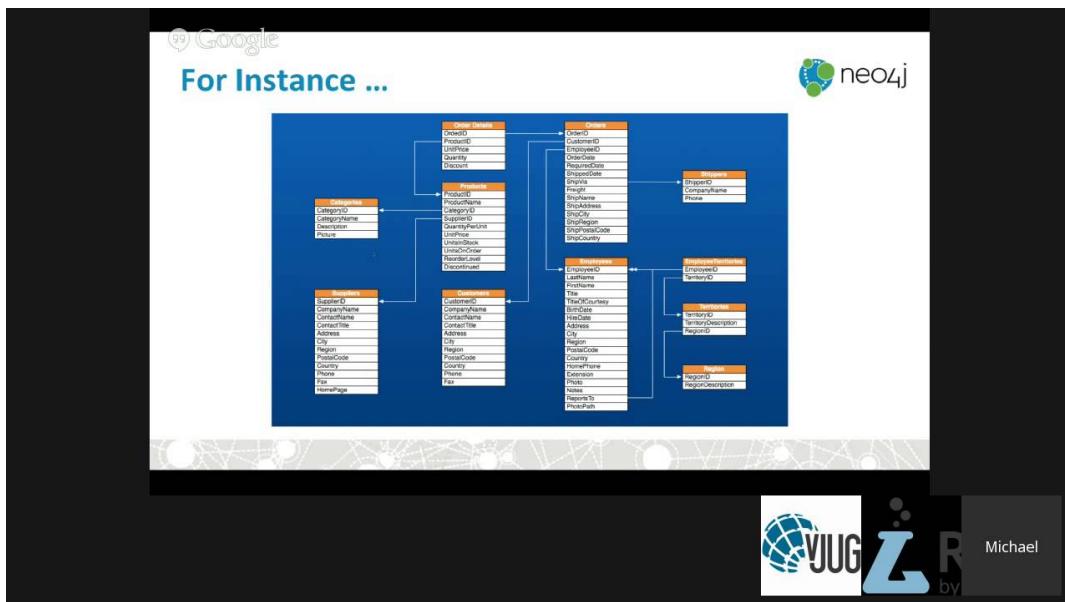
In this session, we'll show parents and kids how to get started building Minecraft mods with Minecraft Forge. We'll show you how to setup your computer with little fuss, as well as walk you through the process of creating your first mod. You'll also learn essential Java programming skills. If you're a kid searching for new ways to have fun with the game, or a parent looking to nurture your kids' creativity through code, you won't want to miss this exciting, hands-on tutorial.



<http://virtualjug.com/?p=1794>



Value in Relationships – How Graphs make databases fun again



Looking at the world around us – society, social, science, economy and tech we can't see any isolated pieces of information. Instead everything is densely connected and a lot of the valuable information lives in the relationships between your entities. In the past and present databases always had a hard time to manage highly connected and semi-structured information in an efficient manner.



<http://virtualjug.com/?p=1745>



So why would I use a distributed database like Apache Cassandra?



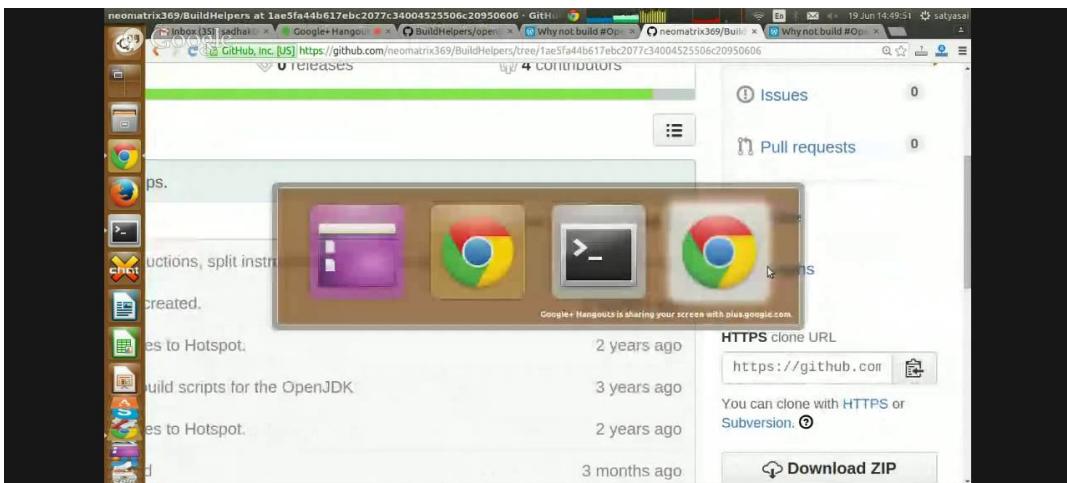
A new “database” seems to appear every other week. Most of them are “NoSQL” so they must be cool. All these new tools make it really hard for developers to cut through the fluff and know which type of data store to use and why.



<http://virtualjug.com/?p=1716>



Live From Devoxx UK Hackergarten: From vJUG virtuality to Devoxx UK real



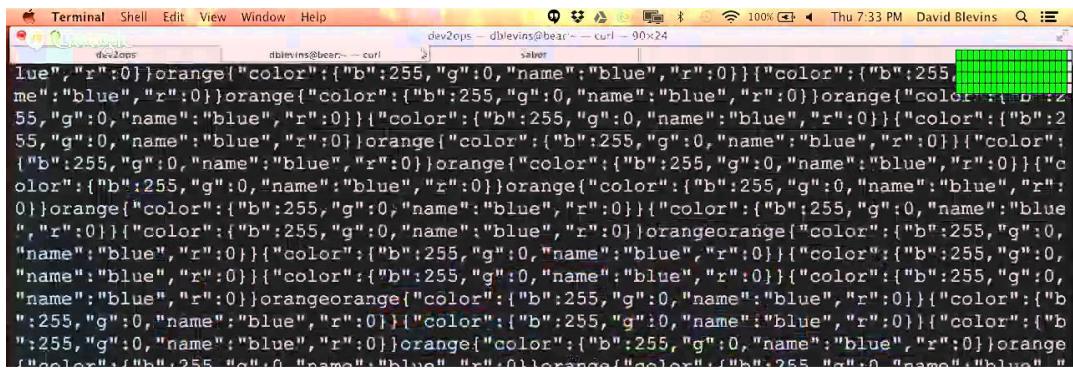
One dev: Did you know what happened at a recent Java conference few months ago ?



<http://virtualjug.com/?p=1714>



Live From Devoxx UK: Apache TomEE from Dev to Ops



```
Terminal Shell Edit View Window Help
dev2ops - dblevins@bear: ~ curl -s https://www.devoxxuk.com/api/v1/sessions/1711 | jq .sessions[0].title
dblevins@bear: ~ curl -s https://www.devoxxuk.com/api/v1/sessions/1711 | jq .sessions[0].title
[{"id": 1711, "name": "Apache TomEE from Dev to Ops", "description": "Apache TomEE is the Java EE distribution of Apache Tomcat. This live vJUG session goes beyond the basics and explores some fun features both TomEE-specific and JavaEE-portable for supercharging your application development, runtime and maintenance. Have a huge pile of DAOs? Use TomEE's abstract bean concept. Need to configure your application for many different environments? CDI and portable-extensions to the rescue. Want to create secured microservice distributions without any fuss? Nothing beats the TomEE Maven Plugin. Looking for a way to get detailed stats from your code? Hello annotation-driven monitoring support. Ever wish you could make your own management API? Check out the portable SSH Connector. The perfect session for any TomEE or Java EE enthusiast looking for cool toys for both developer and operations bliss.", "speakers": [{"name": "David Blevins", "bio": "David Blevins is a Principal Software Engineer at Red Hat, where he leads the development of the TomEE project. He has over 15 years of experience in Java EE and open source software development, and is a frequent speaker at international conferences like Devoxx, JavaOne, and JBossWorld. David is also a member of the JBoss Seam and Weld teams, and has contributed to numerous other open source projects."}, {"name": "Mike Proctor", "bio": "Mike Proctor is a Principal Software Engineer at Red Hat, where he leads the development of the TomEE project. He has over 15 years of experience in Java EE and open source software development, and is a frequent speaker at international conferences like Devoxx, JavaOne, and JBossWorld. Mike is also a member of the JBoss Seam and Weld teams, and has contributed to numerous other open source projects."}], "start_time": "2015-09-25T14:00:00Z", "end_time": "2015-09-25T15:00:00Z", "location": "Devoxx UK 2015", "status": "Completed", "type": "Session"}, {"id": 1712, "name": "Apache TomEE from Dev to Ops", "description": "Apache TomEE is the Java EE distribution of Apache Tomcat. This live vJUG session goes beyond the basics and explores some fun features both TomEE-specific and JavaEE-portable for supercharging your application development, runtime and maintenance. Have a huge pile of DAOs? Use TomEE's abstract bean concept. Need to configure your application for many different environments? CDI and portable-extensions to the rescue. Want to create secured microservice distributions without any fuss? Nothing beats the TomEE Maven Plugin. Looking for a way to get detailed stats from your code? Hello annotation-driven monitoring support. Ever wish you could make your own management API? Check out the portable SSH Connector. The perfect session for any TomEE or Java EE enthusiast looking for cool toys for both developer and operations bliss.", "speakers": [{"name": "David Blevins", "bio": "David Blevins is a Principal Software Engineer at Red Hat, where he leads the development of the TomEE project. He has over 15 years of experience in Java EE and open source software development, and is a frequent speaker at international conferences like Devoxx, JavaOne, and JBossWorld. David is also a member of the JBoss Seam and Weld teams, and has contributed to numerous other open source projects."}, {"name": "Mike Proctor", "bio": "Mike Proctor is a Principal Software Engineer at Red Hat, where he leads the development of the TomEE project. He has over 15 years of experience in Java EE and open source software development, and is a frequent speaker at international conferences like Devoxx, JavaOne, and JBossWorld. Mike is also a member of the JBoss Seam and Weld teams, and has contributed to numerous other open source projects."}], "start_time": "2015-09-25T14:00:00Z", "end_time": "2015-09-25T15:00:00Z", "location": "Devoxx UK 2015", "status": "Completed", "type": "Session"}]
```

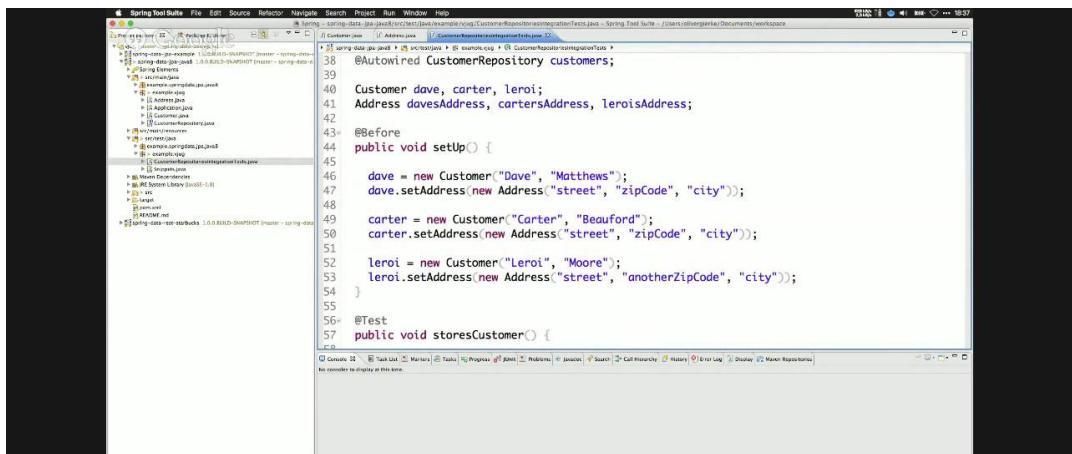
Apache TomEE is the Java EE distribution of Apache Tomcat. This live vJUG session goes beyond the basics and explores some fun features both TomEE-specific and JavaEE-portable for supercharging your application development, runtime and maintenance. Have a huge pile of DAOs? Use TomEE's abstract bean concept. Need to configure your application for many different environments? CDI and portable-extensions to the rescue. Want to create secured microservice distributions without any fuss? Nothing beats the TomEE Maven Plugin. Looking for a way to get detailed stats from your code? Hello annotation-driven monitoring support. Ever wish you could make your own management API? Check out the portable SSH Connector. The perfect session for any TomEE or Java EE enthusiast looking for cool toys for both developer and operations bliss.



<http://virtualjug.com/?p=1711>



State of the art data access with Spring Data



The screenshot shows the Spring Tool Suite interface with a Java file named 'CustomerRepositoryIntegrationTests.java' open in the editor. The code demonstrates how to use Spring Data JPA repositories in a test environment. It includes annotations like @Autowired for the repository, @Before for setup, and @Test for the test method. The code creates three Customer objects (dave, carter, leroi) and their corresponding Address objects, then stores them.

```
CustomerRepository customers;
```

```
@Before
public void setUp() {
    dave = new Customer("Dave", "Matthews");
    dave.setAddress(new Address("street", "zipCode", "city"));
    carter = new Customer("Carter", "Beauford");
    carter.setAddress(new Address("street", "zipCode", "city"));
    leroi = new Customer("Leroy", "Moore");
    leroi.setAddress(new Address("street", "anotherZipCode", "city"));
}
```

```
@Test
public void storesCustomer() {
```

Even with the invention of JPA, implementing data-access layers in Java has been a tedious job for developers, often resulting in a lot of boilerplate code. Spring Data is an umbrella project that provides a convenient and consistent interface-based programming model to implement repositories. It can be used on top of JPA as well as NoSQL stores like MongoDB and Neo4j.



<http://virtualjug.com/?p=1709>



Gradle: hot or not?



Maven has been the preferred build tool of many Java based projects for years however times are a-changing, there's a new build tool in town and it promises to speed up build times, deliver build consistency, easier CI setup, extensibility and more. This tool is Gradle. Prominent open source projects have switched to Gradle already; organizations around the world are evaluating it too or made the switch already. So what makes Gradle tick? Join us to figure out the details! After all, it's not a "should I change to Gradle" question, rather "_when_ should I change to Gradle".



<http://virtualjug.com/?p=1704>



Java byte code in practice

The screenshot shows a portion of the Java Virtual Machine Specification. It includes:

- INVOKESPECIAL pkg/Bar foo ()V**
Invokes a super class's version of an inherited method.
Invokes a "constructor method".
Invokes a private method.
Invokes an interface default method (Java 8).
- INVOKESTATIC pkg/Bar foo ()V**
Invokes a static method.
- INVOKEINTERFACE pkg/Bar foo ()V**
Invokes an interface method.
(Similar to INVOKEVIRTUAL but without virtual method table index optimization.)
- INVOKEDYNAMIC foo ()V bootstrap**
Queries the given *bootstrap method* for locating a method implementation at runtime.
(MethodHandle: Combines a specific method and an `INVOKE*` instruction.)

At the bottom right, there is a logo for VJUG and a photo of a man named Rafael.

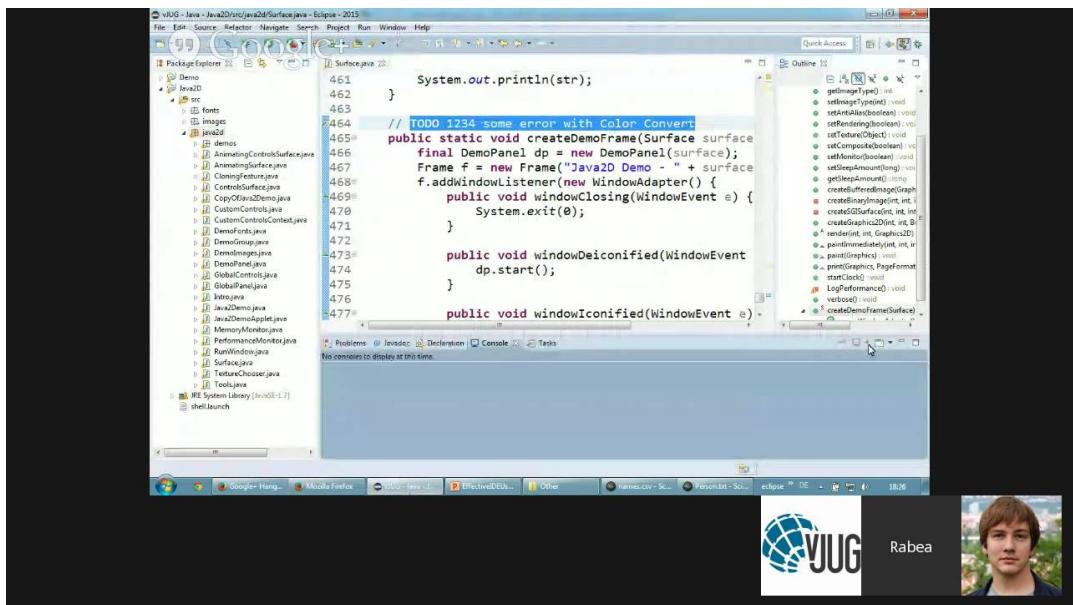
At first glance, Java byte code can appear to be some low level magic that is both hard to understand and effectively irrelevant to application developers. However, neither is true. With only little practice, Java byte code becomes easy to read and can give true insights into the functioning of a Java program. In this talk, we will cast light on compiled Java code and its interplay with the Java virtual machine. In the process, we will look into the evolution of byte code over the recent major releases with features such as dynamic method invocation which is the basis to Java 8 lambda expressions. Finally, we will learn about tools for the run time generation of Java classes and how these tools are used to build modern frameworks and libraries. Among those tools, I present Byte Buddy, an open source tool of my own efforts and an attempt to considerably simplify run time code generation in Java.
(<http://bytebuddy.net>)



<http://virtualjug.com/?p=1673>



Effective IDE Usage



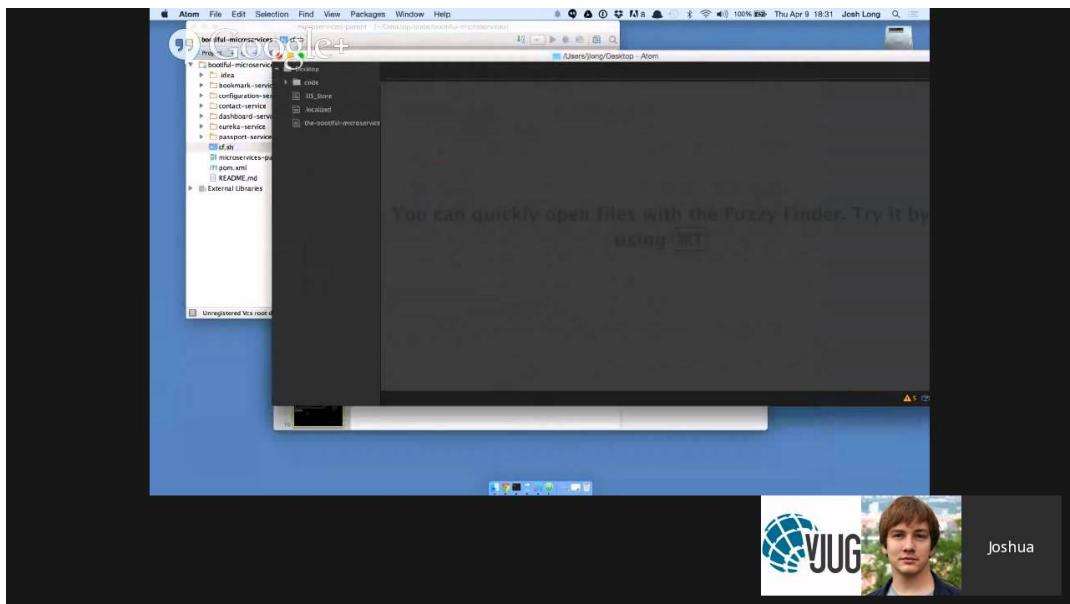
You don't want your IDE to propose `java.awt.List` as import when you need `java.util.List`? This talk will show you how to get rid of the proposal and how to use your IDE effectively to concentrate on your work.



<http://virtualjug.com/?p=1658>



Building “Bootiful” Microservices with Spring Cloud



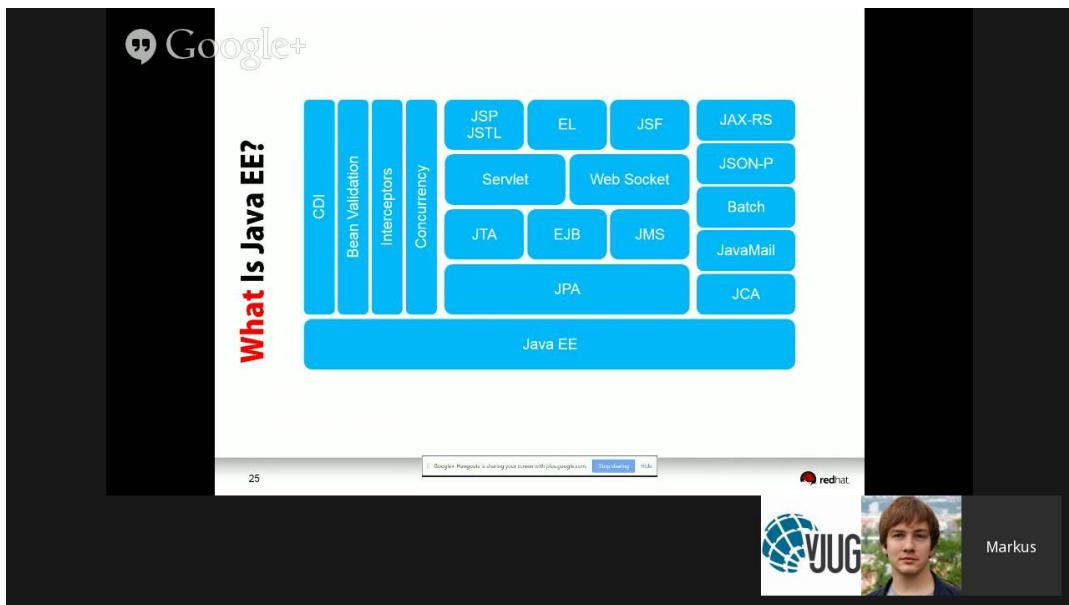
We get it already! Microservices help you build smaller, singly-focused services, quicker. They scale out. They’re more agile because individual teams can deliver them at their own pace. They work well in the cloud because they’re smaller, and benefit from elastic, horizontal scaling. But what about the complexity? There’s a cost associated with adding services and coordinating the interactions between them. In this talk, we’ll look at Spring Cloud, which builds atop Spring Boot and the Netflix OSS stack, and see how it lets you easily integrate service-discovery, security, reliability patterns like the circuit breaker, and centralized and journaled property configuration (and more) to build resilient microservices that scale.



<http://virtualjug.com/?p=1552>



Architecting Large Enterprise Java Projects



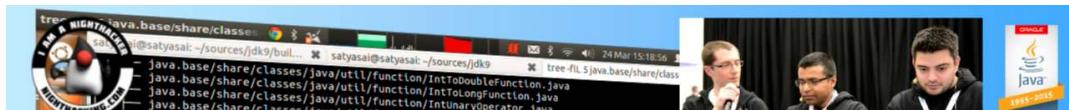
In the past I've been building component oriented applications with what I had at hand. Mostly driven by the features available in the Java EE standard to be "portable" and easy to use. Looking back this has been a perfect fit for many customers and applications. With an increasing demand for highly integrated applications which use already available services and processes from all over the place (departmental, central or even cloud services) this approach starts to feel more and more outdated. And this feel does not come from a technology perspective but from all the requirements around it. Having this in mind this post is the starting point of a series of how-to's and short tutorials which aim to showcase some more diverse ways of building (Java EE) applications that fit better into today's requirements and landscapes.



<http://virtualjug.com/?p=1546>



JavaLand Session: How is Java/JVM built?



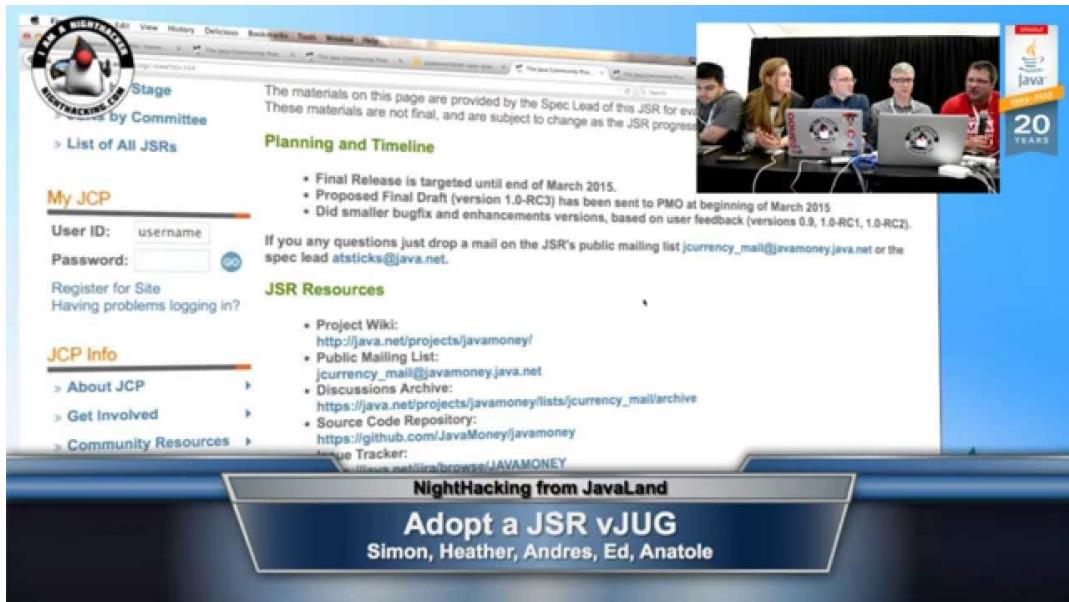
Mr Webber developer and **Ms Janet Java developer** are both developers who are interested in broadening their know-how of the Java platform. **Mr Webber developer** shares with **Ms Janet Java developer** conservations about Javaland, vJUG, Nighthacking and Adopt OpenJDK – a preview of their conversation.



<http://virtualjug.com/?p=1533>



JavaLand Session: What's coming in Java.Next?



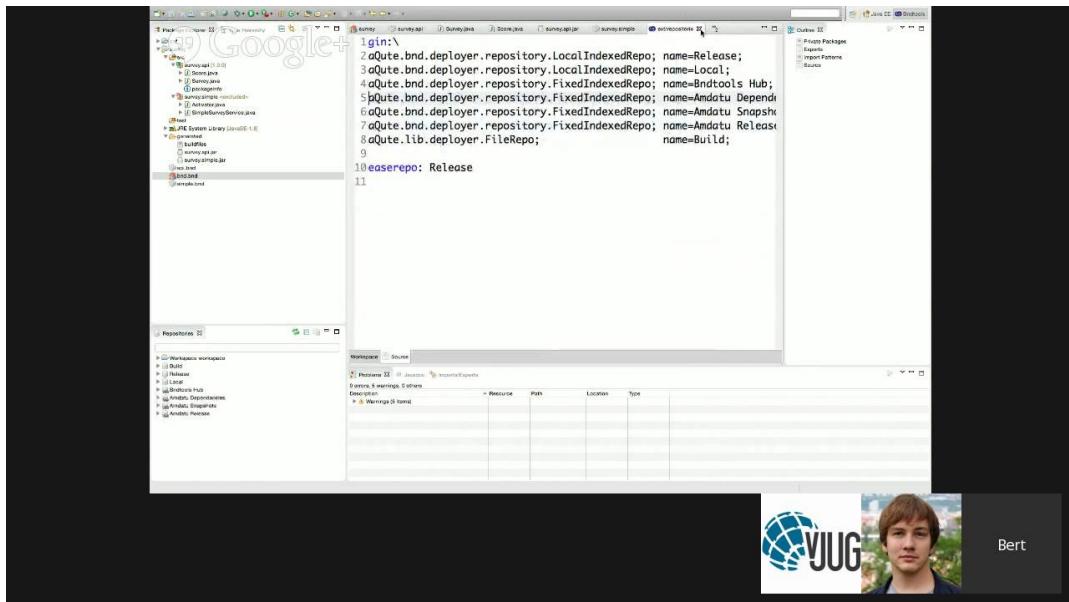
This session will take place live from the Javaland conference in Germany on the Nighthacking stage! Learn from **Heather VanCura** how you can take part in Java technology by Adopting a JSR. This session give a brief overview of the Adopt-a-JSR program and how to participate through the Virtual JUG. We will meet and discuss with three current JCP Spec Leads to find out how their JSRs could benefit from vJUG Adopt-a-JSR participation.



<http://virtualjug.com/?p=1532>



Building Modular Java Applications in the Cloud



Bert

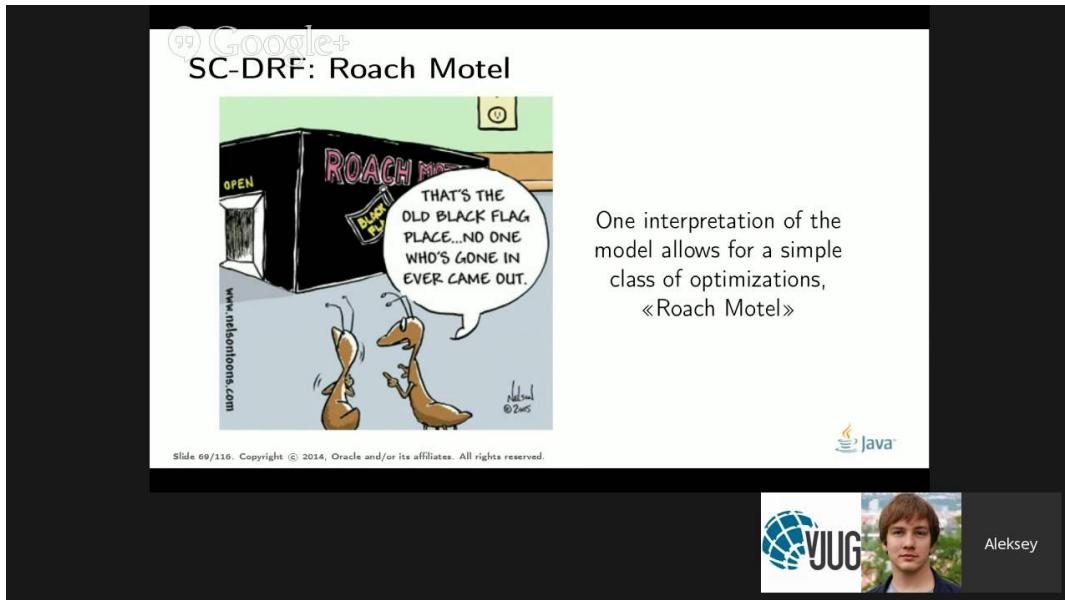
Modularity is an architectural theme that you'll hear about more and more. Being able to deal with change in a codebase is not something trivial and requires some serious thought. In this talk I will show you that it is actually pretty easy to achieve a modular architecture using OSGi, and the right set of tools. Of course everything will be demonstrated using live coding!



<http://virtualjug.com/?p=1436>



Java Memory Model Pragmatics



The Java Memory Model is the most complicated part of Java spec that must be understood by at least library and runtime developers. Unfortunately, it is worded in such a way that it takes a few senior guys to decipher it for each other.



<http://virtualjug.com/?p=1388>



The Live Reflection Madness

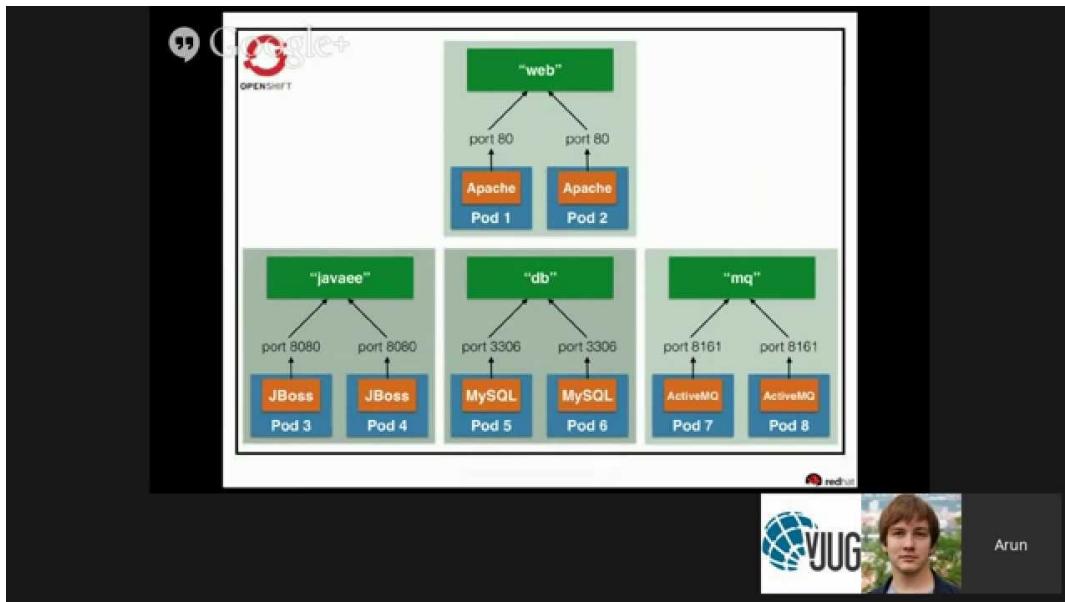
Heinz likes to compare reflection to opium. Not the perfume. The drug. In this live coding session, he will start by showing some of the powerful features available to us in Java.



<http://virtualjug.com/?p=1347>



Package your Java EE application using Docker and Kubernetes



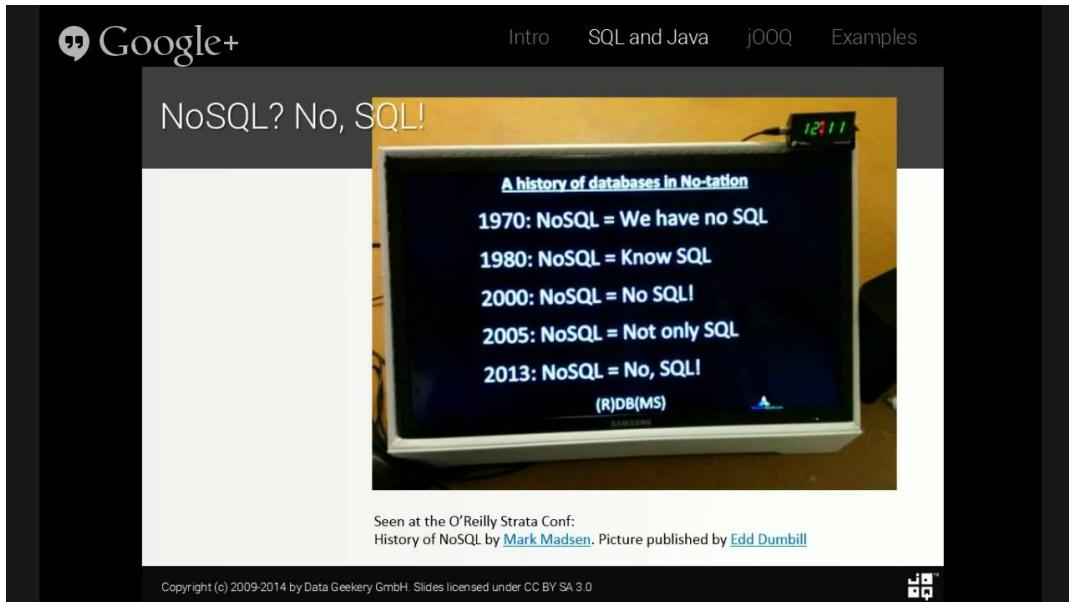
Docker simplifies software delivery by making it easy to build and share images that contain your application's operating system. It packages your application and infrastructure together, managed as one component.



<http://virtualjug.com/?p=1343>



jOOQ: Get Back in Control of Your SQL



SQL is a powerful and highly expressive language for queries against relational databases. SQL is established, standardised and hardly challenged by alternative querying languages.



<http://virtualjug.com/?p=1337>



Java and the Wave Glider, by James Gosling



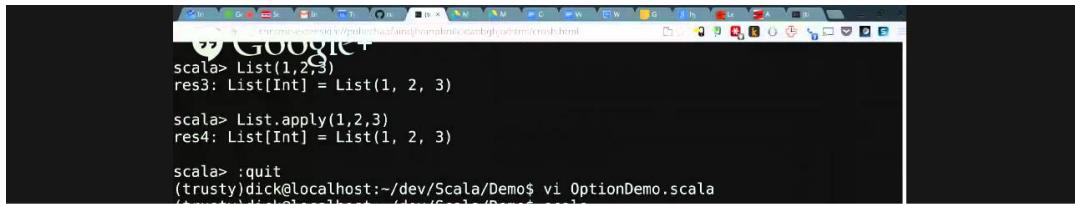
[IRC logs be be found here.](#)



<http://virtualjug.com/?p=1325>



Scala for Java Developers



A screenshot of a terminal window titled "Google". The window shows Scala code being run:

```
scala> List(1,2,3)
res3: List[Int] = List(1, 2, 3)

scala> List.apply(1,2,3)
res4: List[Int] = List(1, 2, 3)

scala> :quit
(trusty)dick@localhost:~/dev/Scala/Demo$ vi OptionDemo.scala
```

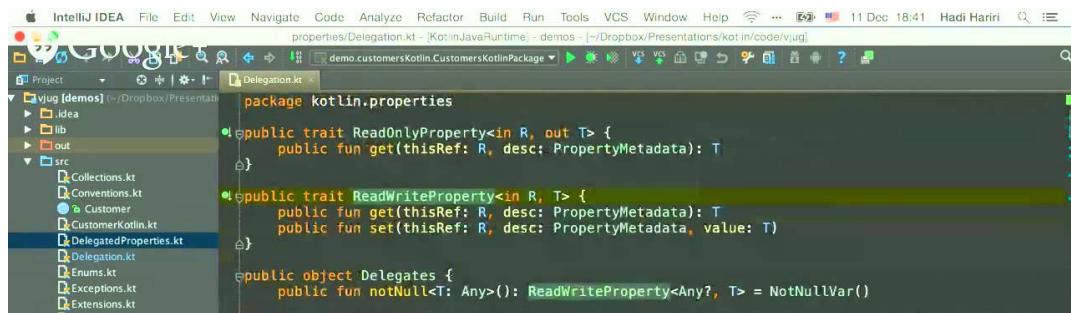
- What are the major advantages/features Scala provides
- Why should someone move from Java to Scala
- What is the future direction of Scala



<http://virtualjug.com/?p=1302>



Kotlin for Java Developers



The screenshot shows the IntelliJ IDEA interface with the following details:

- File Menu:** File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, Help.
- Toolbar:** Standard toolbar items like New, Open, Save, etc.
- Status Bar:** 11 Dec 18:41, Hadi Hariri.
- Project View:** Shows a project named "vjug [demos]" with subfolders like .idea, lib, out, and src containing files such as Collections.kt, Conventions.kt, CustomerKotlin.kt, DelegatedProperties.kt, Delegation.kt, Enums.kt, Exceptions.kt, and Extensions.kt.
- Code Editor:** The current file is "Delegation.kt" which contains Kotlin code defining traits and objects:

```
package kotlin.properties

public trait ReadOnlyProperty<in R, out T> {
    public fun get(thisRef: R, desc: PropertyMetadata): T
}

public trait ReadWriteProperty<in R, T> {
    public fun get(thisRef: R, desc: PropertyMetadata): T
    public fun set(thisRef: R, desc: PropertyMetadata, value: T)
}

public object Delegates {
    public fun notNull<T: Any?>(): ReadWriteProperty<Any?, T> = NotNullVar()
}
```

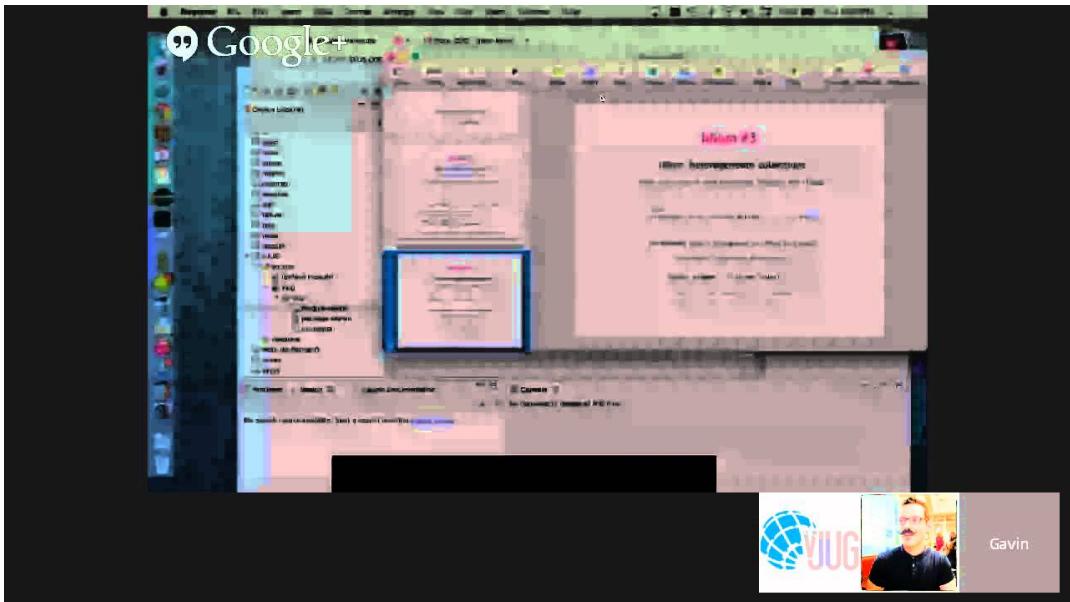
- What are the major advantages/features Kotlin provides
- Why should someone move from Java to Kotlin
- What is the future direction of Kotlin



<http://virtualjug.com/?p=1297>



Ceylon for Java Developers



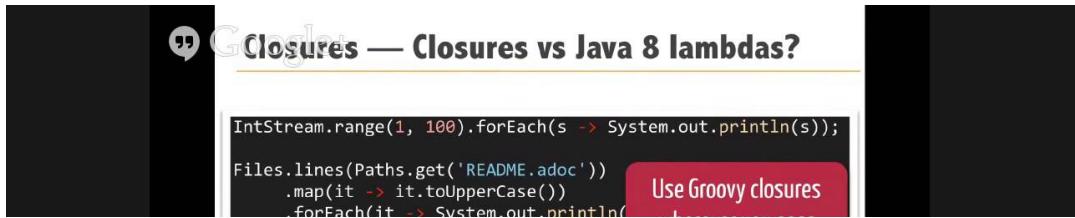
- What are the major advantages/features Ceylon provides
- Why should someone move from Java to Ceylon
- What is the future direction of Ceylon



<http://virtualjug.com/?p=1294>



Groovy for Java Developers



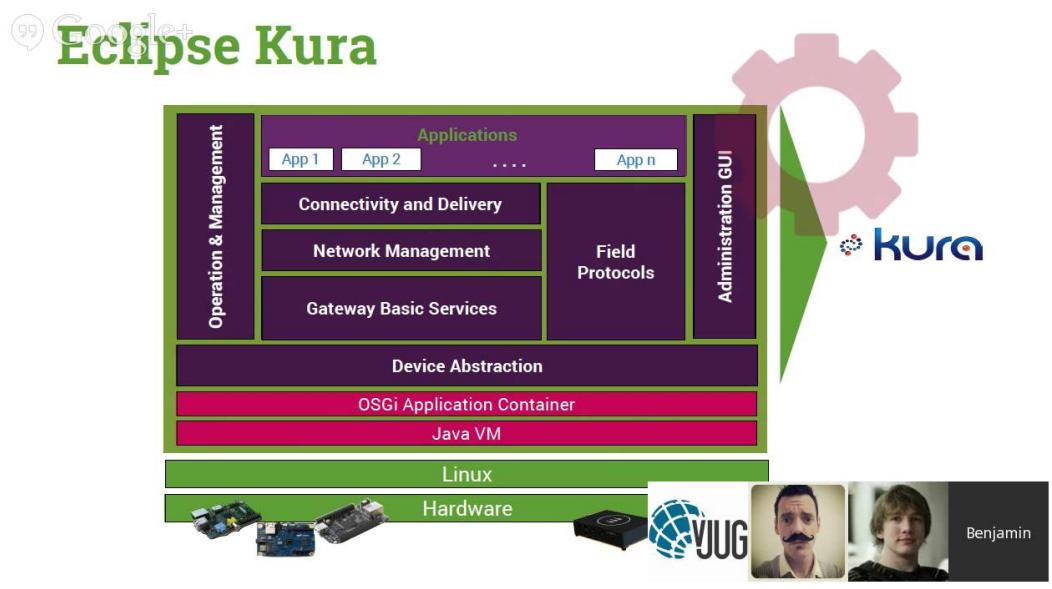
Speaker: Guillaume Laforge



<http://virtualjug.com/?p=1288>



Building the Internet of Things with Java



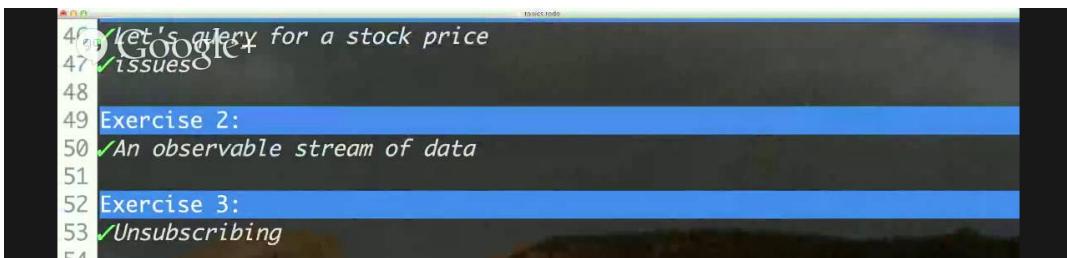
It may seem hard to get started with the Internet of Things (IoT) with so many technologies, protocols, hardware platforms, involved. In this session, Benjamin Cabé from the Eclipse Foundation will cover all you need to know



<http://virtualjug.com/?p=1195>



Reactive Programming: Creating highly responsive applications



Reactive Programming is gaining a lot of attention recently, but what is it? It is a culmination of a lot of good ideas developed over the years, but brought together by the forces of recent developments



<http://virtualjug.com/?p=1193>



Shaping Java's future & vJUG party!



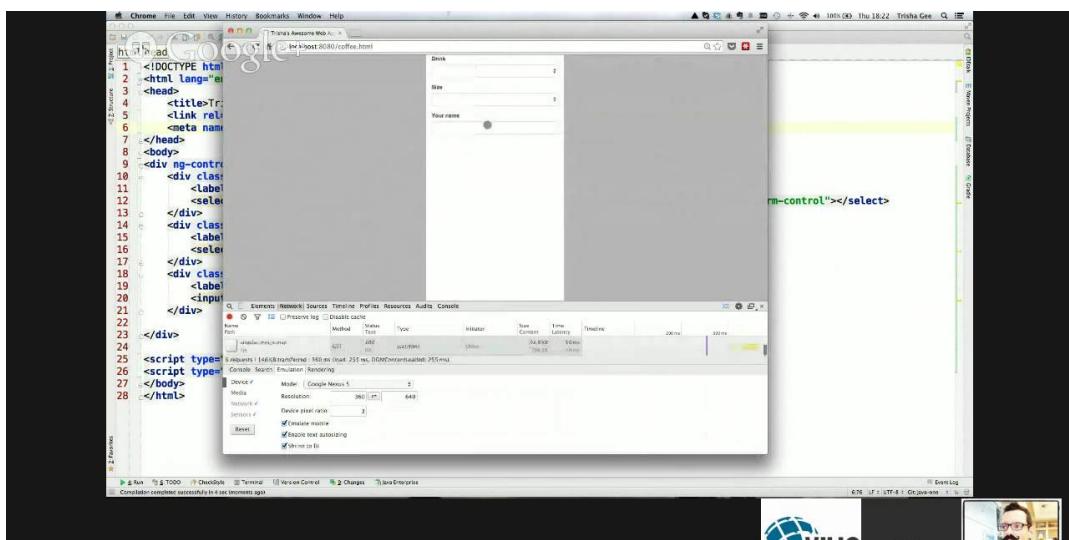
Shaping Java's future & vJUG party!



<http://virtualjug.com/?p=1191>



HTML5, AngularJS, Groovy, Java and MongoDB all together – what could go wrong?



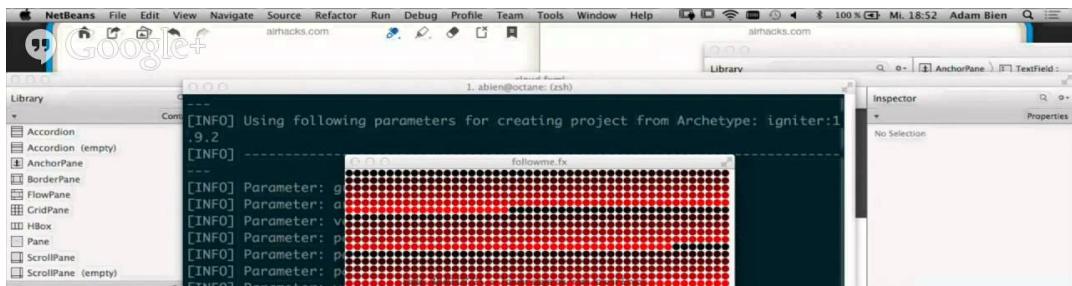
Speaker: Trisha Gee



<http://virtualjug.com/?p=1188>



Opinionated JavaFX 8



Speaker: Adam Bien



<http://virtualjug.com/?p=1157>



3 years of backend testing at Shazam [the stuff we got wrong]

Speaker: Colin Vipurs



<http://virtualjug.com/?p=1155>



Pragmatic Functional Refactoring with Java 8



Scenario: be able to link together train journeys
to form longer journeys.



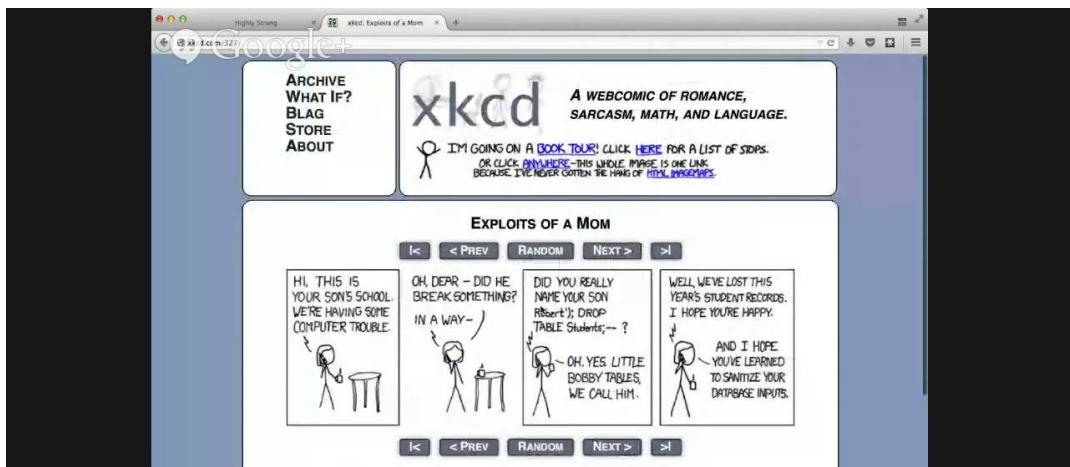
Speakers: Richard Warburton & Raoul-Gabriel Urma



<http://virtualjug.com/?p=1152>



Highly Strung: Understanding your Type System



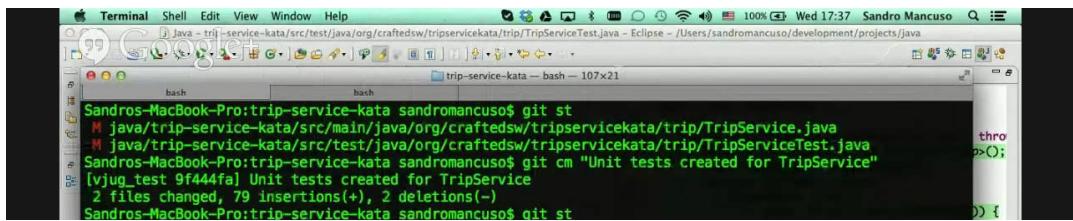
Highly Strung: Understanding your Type System



<http://virtualjug.com/?p=1121>



Testing and Refactoring Legacy Code



A screenshot of a macOS desktop environment. In the center is a terminal window titled "trip-service-kata — bash — 107x21". The terminal shows the following command-line session:

```
Sandros-MacBook-Pro:trip-service-kata sandromancuso$ git st
M java/trip-service-kata/src/main/java/org/craftedsw/tripservicekata/trip/TripService.java
M java/trip-service-kata/src/test/java/org/craftedsw/tripservicekata/trip/TripServiceTest.java
Sandros-MacBook-Pro:trip-service-kata sandromancuso$ git cm "Unit tests created for TripService"
[vjug_test 9f444fa] Unit tests created for TripService
 2 files changed, 79 insertions(+), 2 deletions(-)
Sandros-MacBook-Pro:trip-service-kata sandromancuso$ git st
```

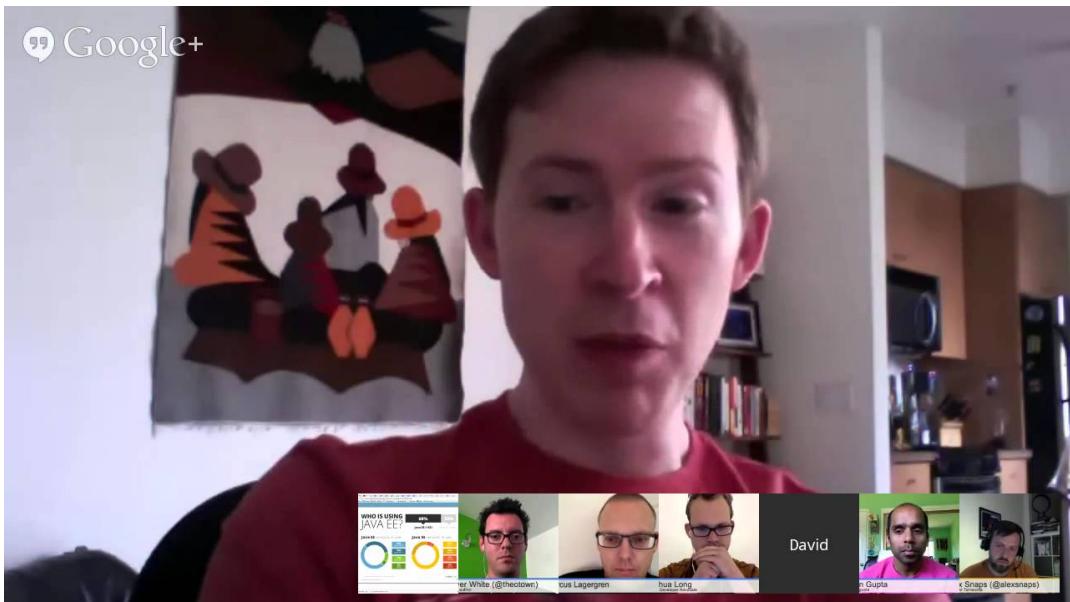
Speaker: Sandro Mancuso



<http://virtualjug.com/?p=993>



vJUG panel: Review of 2164 Survey Responses on Java Tools and Technology



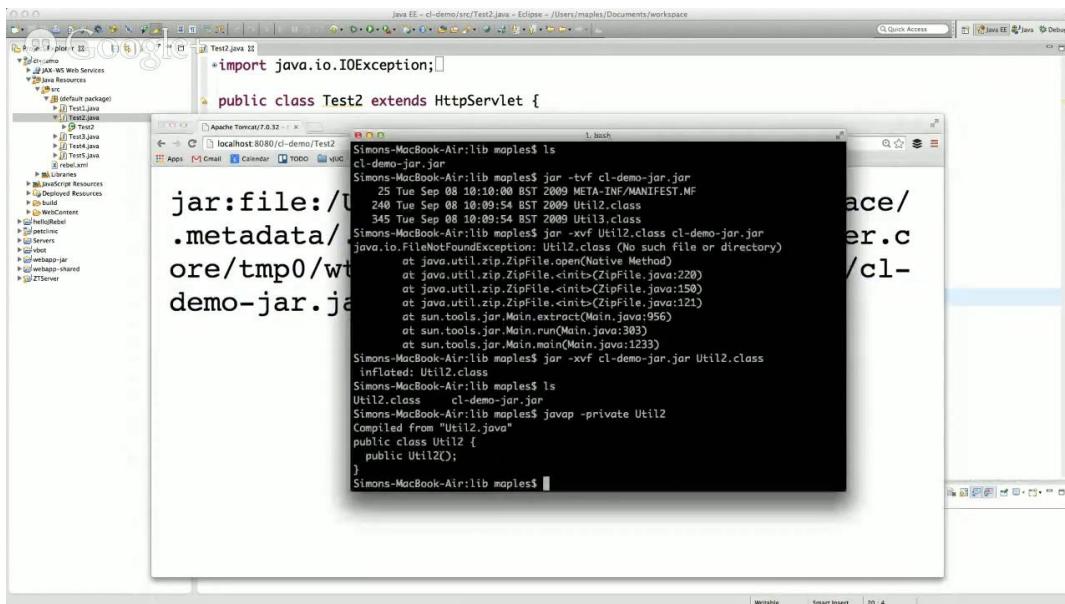
Speakers: Arun Gupta, Josh Long, Marcus Lagergren, Alex Snaps, David Blevins & Oliver White (Moderator). We look at the recent explosive publication of RebelLabs' "Java Tools and Technologies Landscape for 2014", a beautifully-designed, 56-page snapshot of what over 2000 Java developers from around the world are using in their daily development.



<http://virtualjug.com/?p=938>



Java Classloaders: The good, the bad and the WTF.



The screenshot shows the Eclipse IDE interface. On the left, the Project Explorer displays a Java project structure with packages like 'JAX-WS Web Services' and 'Java Resources'. In the center, the code editor shows a Java file named 'Test2.java' with the following code:

```
*import java.io.IOException;*
public class Test2 extends HttpServlet {
```

To the right of the code editor is a terminal window titled 'Terminal' showing command-line output. The output shows the execution of a 'jar' command to extract classes from a jar file, followed by the compilation of a Java source file ('Util2.java') into a class ('Util2.class'). The terminal window is running on a Mac OS X system, as indicated by the prompt 'Simons-MacBook-Air:lib maples\$'.

Speaker: Simon Maple.



<http://virtualjug.com/?p=936>



vJUG Panel: What do the Oracle/Google shenanigans mean to the Java Developer?



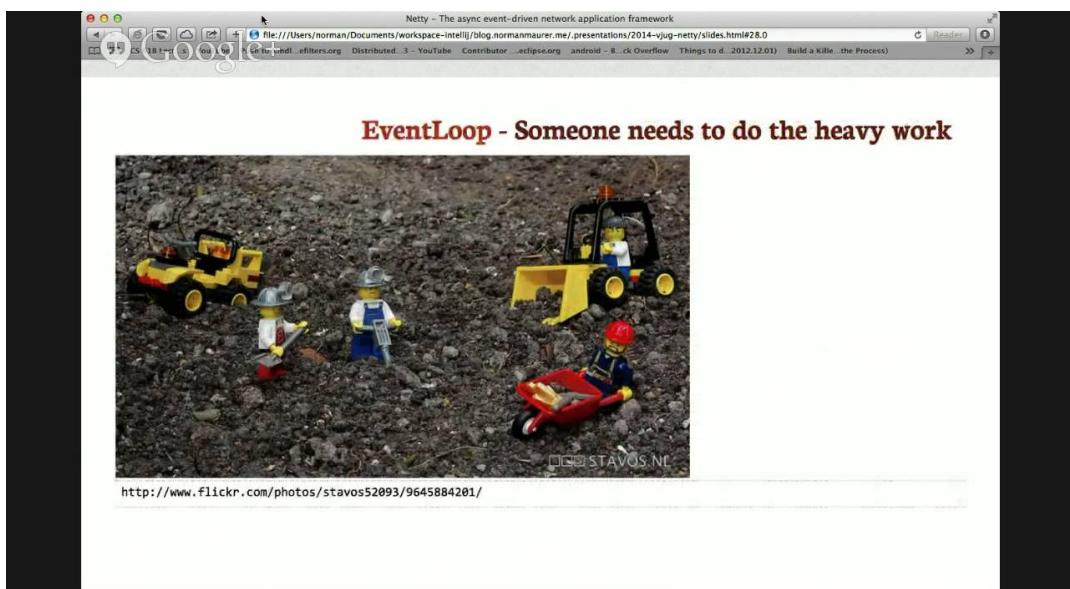
Speaker(s): Bruno Souza, Martijn Verburg and Hildeberto Mendonça, Lukas Eder & Michael Rice. (Moderated by Simon Maple)



<http://virtualjug.com/?p=865>



Netty – The async event-driven network application framework



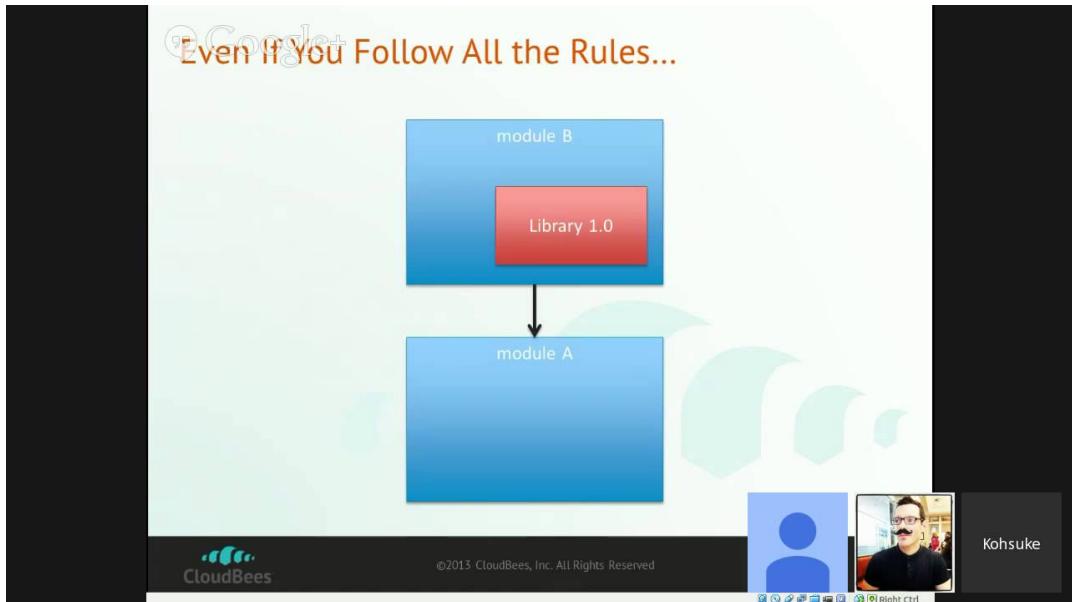
Speaker: Norman Maurer.



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Evolving code without breaking compatibility



Speaker: Kohsuke Kawaguchi



<http://virtualjug.com/?p=159>



Building Bootiful Applications with Spring Boot



Speaker: Josh Long



<http://virtualjug.com/?p=157>



Java 8 Parallel Streams Workshop

Speaker: Stuart Marks.



<http://virtualjug.com/?p=155>



Project Lambda: Functional Prog. Constructs and Simpler Concurrency in Java SE 8

The image shows a Google+ slide with a black header and footer. The header features the Google+ logo. The main content area has a white background with a dark border. At the top, it says "Internal Iteration With Lambdas". Below that is a block of Java code:

```
SomeList<Student> students = ...  
double highestScore =  
    students.stream()  
        .filter(Student s -> s.getGradYear() == 2011)  
        .map(Student s -> s.getScore())  
        .max();
```

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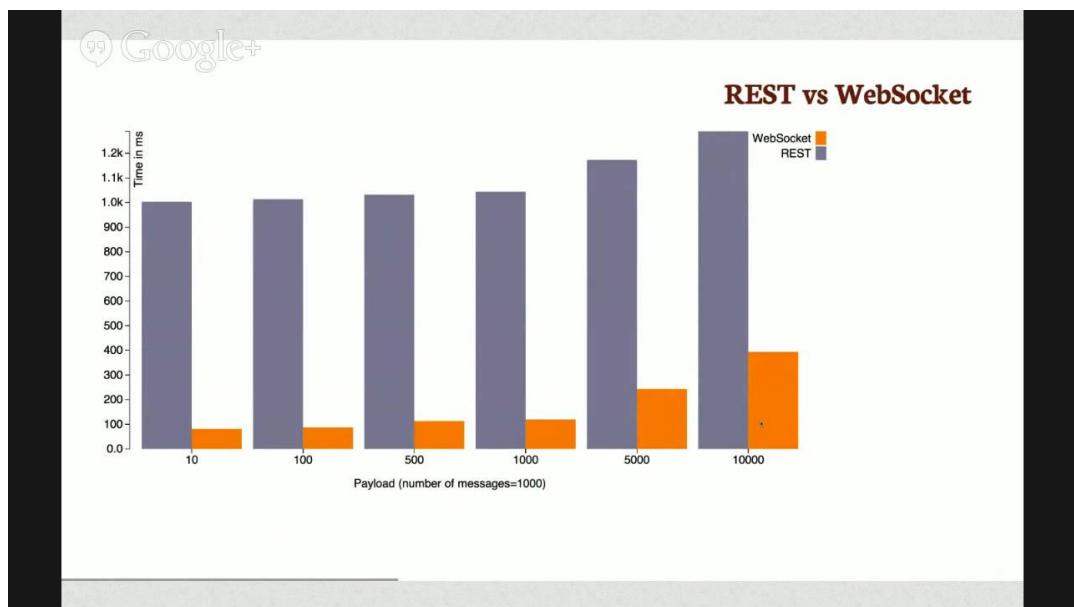
Speaker: Simon Ritter.



<http://virtualjug.com/?p=153>



WebSocket Applications using Java EE 7



Speaker: Arun Gupta.



<http://virtualjug.com/?p=151>



Comparing JVM Web Frameworks



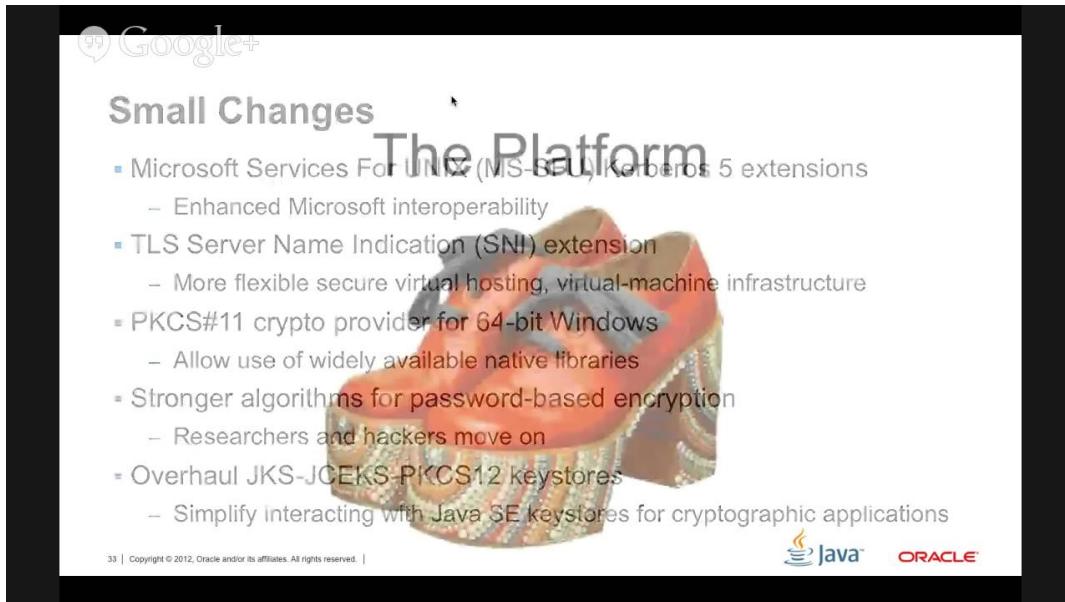
Speaker: Matt Raible



<http://virtualjug.com/?p=149>



55 New Features in Java SE 8



A Google+ slide titled "Small Changes" featuring a background image of a colorful, textured object. The slide lists "The Platform" features:

- Microsoft Services For UNIX (MS-SUL) Kerberos 5 extensions
 - Enhanced Microsoft interoperability
- TLS Server Name Indication (SNI) extension
 - More flexible secure virtual hosting, virtual-machine infrastructure
- PKCS#11 crypto provider for 64-bit Windows
 - Allow use of widely available native libraries
- Stronger algorithms for password-based encryption
 - Researchers and hackers move on
- Overhaul JKS-JCEKS-PKCS12 keystores
 - Simplify interacting with Java SE keystores for cryptographic applications

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Speaker: Simon Ritter



<http://virtualjug.com/?p=147>



How To Do Kick-Ass Software Development



Speaker: Sven Peters



<http://virtualjug.com/?p=144>



Getting started with Java EE 7

The slide features a central white rectangular area surrounded by black vertical bars on the left and right sides. Inside the white area, there is a small Google+ logo at the top left. To its right, the text "Java API for RESTful Web Services 2.0" is displayed. In the top right corner of the white area, there is an "HTML5" logo with a small character icon next to it. Below these, several bullet points list features: "Client API", "Message Filters and Entity Interceptors", "Asynchronous Processing – Server and Client", and "Common Configuration". At the bottom of the white area, there is a thin grey horizontal bar containing the number "19" on the left and the Red Hat logo on the right.

Presenter: Arun Gupta.



<http://virtualjug.com/?p=142>



Don't be that guy! Developer Security Awareness



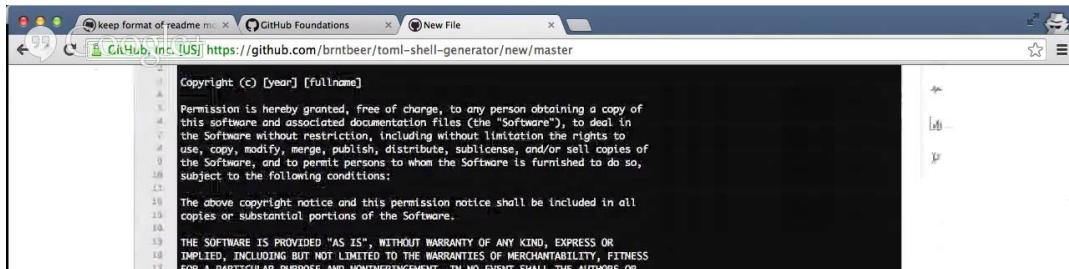
Presenter(s): Markus Eisele.



<http://virtualjug.com/?p=139>



Drive-by Contributions



A screenshot of a GitHub code editor window. The URL in the address bar is <https://github.com/brntbeer/toml-shell-generator/new/master>. The code editor displays a copyright notice:

```
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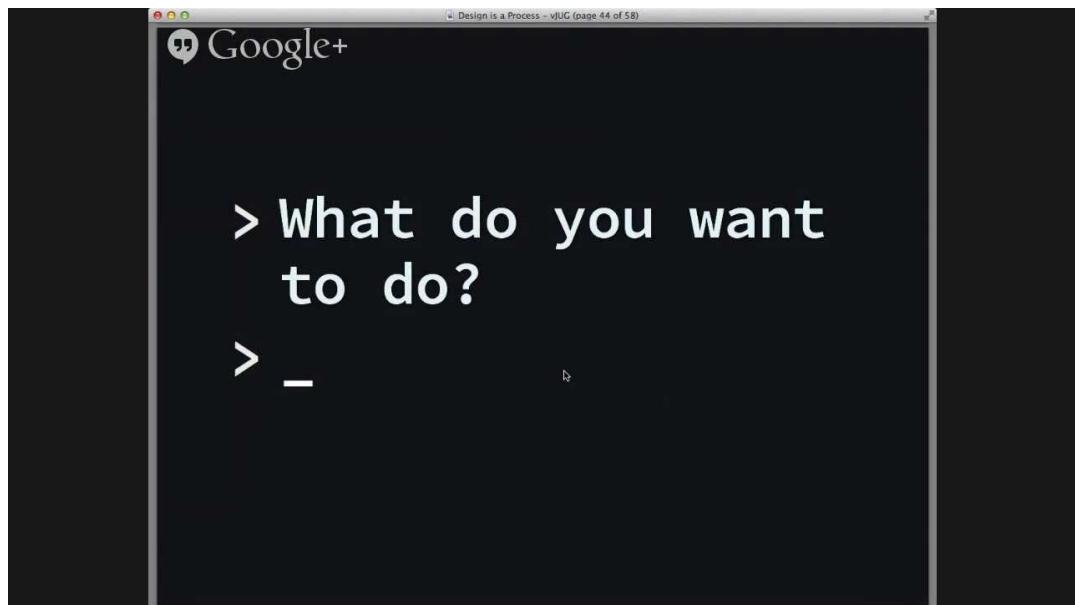
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```

Presenter(s): Brent Beer & Matthew McCullough.



<http://virtualjug.com/?p=137>

Design is a Process, not a Document



Presenter(s): Trisha Gee.



<http://virtualjug.com/?p=132>

