JBoss Polyglot Revolution
Be part of it! :)

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- Infinispan developer
- Over 10 years developing java apps
- Lately playing a lot with scala, python, ruby..
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Agenda

- JBoss as a java middleware producer
- Evolution into multi-language platforms
- JVM as runtime platform
- Lessons learnt
- Join the revolution!

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In the beginning...

JBoss ~= Java MW

JBoss produced mostly **Java only** middleware

Why Java?

VM execution, automatic memory management, safe referencing, static typing, **readable**,...etc

First offering - EJBoss
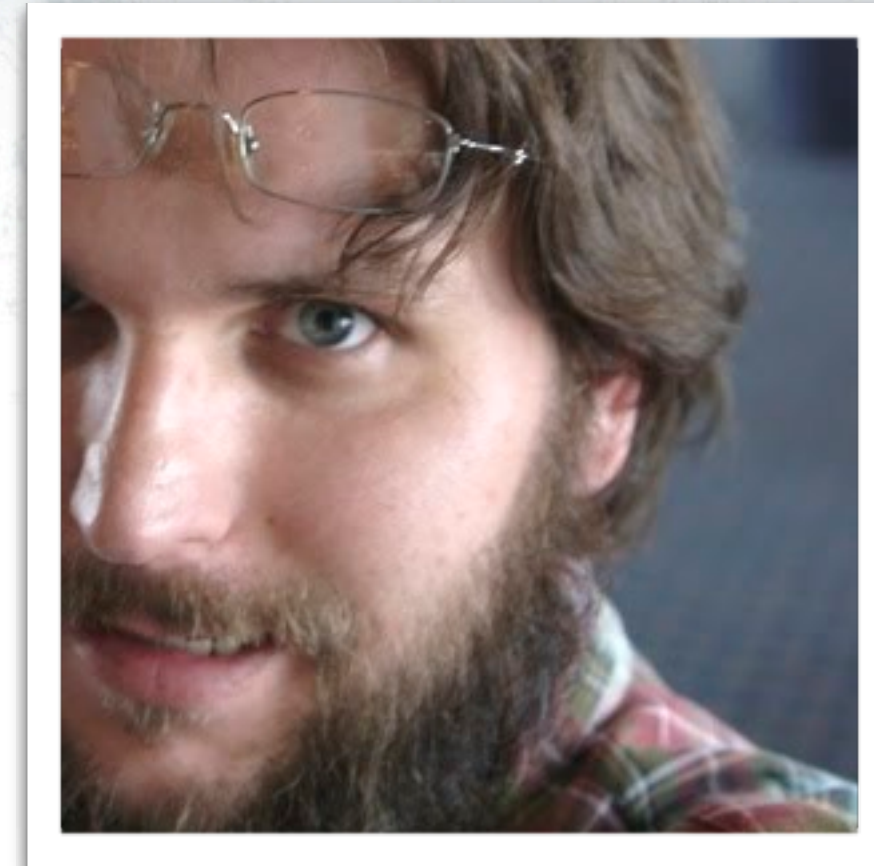
An **EJB open source** implementation (1999)

More additions

ArjunaTS (Transactions)

Bob McWhirter

A **Ruby on Rails** fan, used to run JBoss.org, but in **2008** he went back to development

Ruby on Rails issues

Deployment of rails apps was sucky, and there were **scalability concerns** (i.e. Twitter)

Why not Rails in Java?

JRUBY is **Rails-happy**…

Deploy RoR on JBoss!

Scheduled jobs,
built-in **clustering**, messaging,
platform independence,
deploy without .war files...etc

Torquebox was born!

Deploy **RoR** on JBoss =

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Immutant

Take **lessons learnt** with

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Why Scala?

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Just when you thought...

Ceylon

= A **new language**

deeply influenced by

Why still like Java?

is **easy** and is **robust**

Why Ceylon then?

No 1 Java problem:
Defining **user interfaces** or **structured data** in a typesafe/ hierarchical syntax not easy

But there's more...

Outdated class libraries, **lack of** language level **modularity**, **meta-programming** is **clumsy**...etc

Ceylon goals

- Readability
- Predictability
- Toolability
- Modularity
- Metaprogrammability

Why can these langs run in JVM?

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Binary class file format

JVM knows nothing about Java lang, it **only knows** about the **binary class file format**

Dynamic langs in JVM

Pre JDK7, **hacks required** to get them working, but **since JDK7** a new bytecode allows them to **run much faster**

Lessons learnt so far in this revolution...

AS7 rocks!!!

JBoss **AS7** is **better suited** for **building middleware** on top compared to predecessors

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IDE integration is key!

IDE integration makes **Scala** a **joy** to work with and **Ceylon** has it as one its **goals**

Join the revolution!

Infinispan

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Summary

JBoss started as **Java middleware** producer but has evolved to accommodate **other languages**

Summary

We've created a new language called **Ceylon** which targets **team development**

Summary

JVM ready to accommodate other languages since day 1!

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Questions

http://infinispan.org
http://torquebox.org/
http://ceylon-lang.org/
http://immutant.org/

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