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- Co-founder & Tech Fellow, jClarity
- Java Champion & JavaOne Rock Star Speaker
- Java Community Process Executive Committee
- London Java Community
 - Organising Team, Co-founder, AdoptAJSR & AdoptOpenJDK





About Me













- Java in a Nutshell (6th Edition)
- Introduction to Java 8
- The Well-Grounded Java Developer
- Practical Java Performance (forthcoming) ullet

Previously:

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- Deutsche Bank Chief Architect (Listed Derivatives)
- Morgan Stanley MATRIX, Google IPO, Dodd-Frank
 - SportingBet Chief Architect

[美] Benjamin J. Evans & David Flanagan 著

Java

权威技术手册

Java in a Nutshell, 6th Edition

人民邮电出版社

NEW BOOK (2015) Java权威技术手册(第6版) 预计出版日期: 2015年6月

About Me

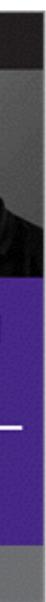




Introduction to Java 8

Ben Evans & Martijn Verburg VIDEO





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7最新特性	
y、Scala 1上的应用	
程的优势	

Happy Birthday, Duke!









It's almost 10 years since Java was released as open-source

• More reasons to celebrate...

Not Only That



- - Mostly employed by vendors •
 - Oracle •
 - IBM •

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- Red Hat
- Other major vendors

What's The Catch?

Future of Java is in the hands of a relatively small group of developers





- devs
 - Are a better fit to what's needed •
 - Are more widely adopted •

• Ultimately - better standards for us all...



Does It Matter?

Experience shows that standards that involve end user



What Can We Do?

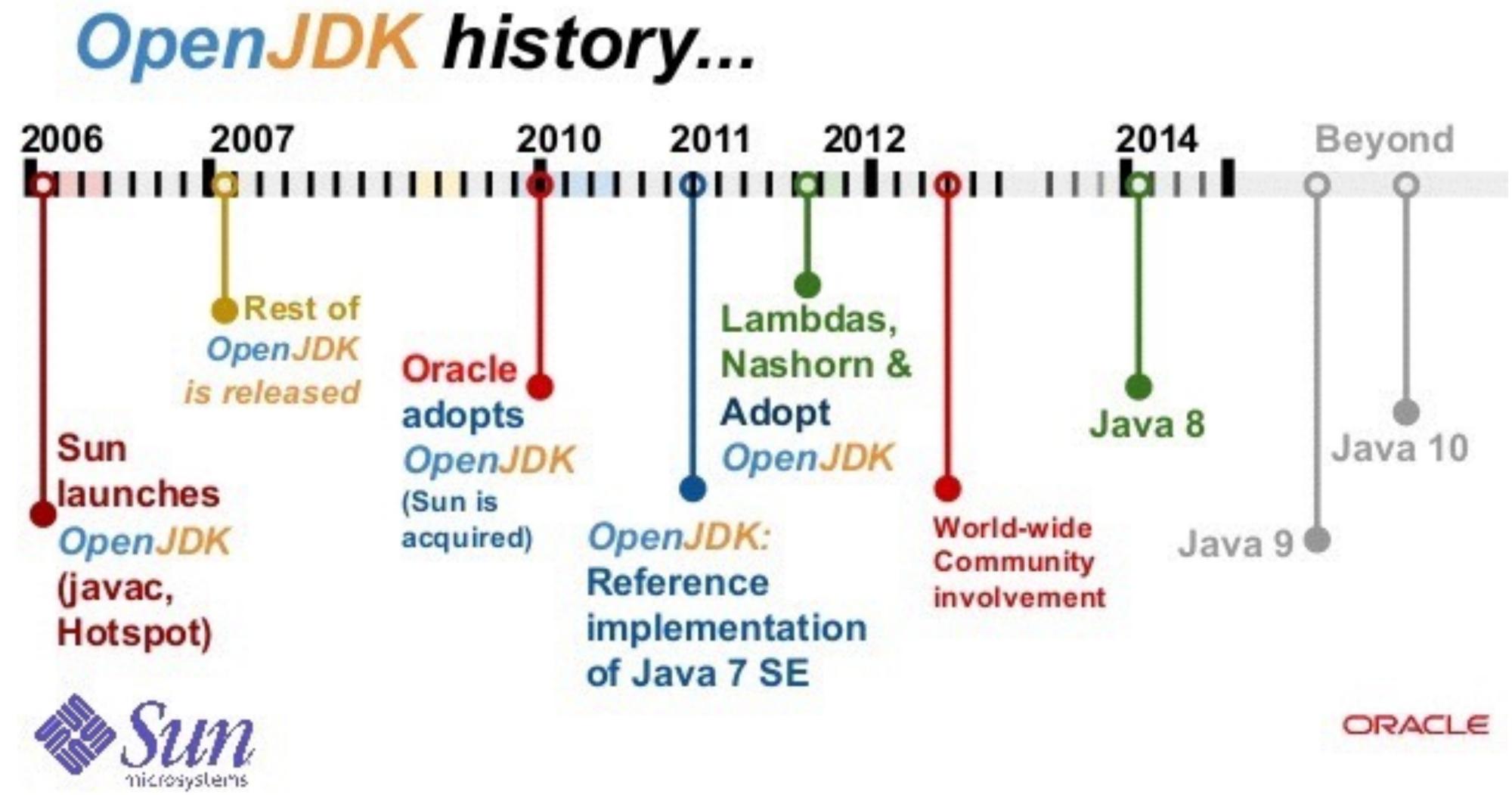
- A group of developers have started trying to help
- We have 3 projects

•

- <u>AdoptOpenJDK</u> work on the platform itself ullet
- <u>AdoptAJSR</u> work on in-progress new Java standards •
 - May or may not form part of the core platform
- Adoption Official OpenJDK group that aids OpenJDK projects ulletLower barriers to contribution. •



Some History







- Dalibor Topic (Oracle) (Leader)
- Daniel Bryant (OpenCredo)
- Edward Wong (Deutsche Bank)
- Martijn Verburg (jClarity) •
- Mani Sarkar (Independent)
- Mario Torre (Red Hat)
- Rory O'Donnell (Oracle) •
- Steve Poole (IBM)

Adoption





- Java 8 Date & Time
- Lambdas Hackdays
- Cloudbees Testing
- 50 OSS Projects forward-tested on JDK 8





- Java EE 8 •
- Java SE 9 •
 - Modularity Hackdays •
 - **REPL Hackdays** •
- Build Infrastructure
- Code Coverage for Java SE
 - JUGs & Adoption made this happen! •
- New Tools Betterrev, JITWatch

What's Current?

- 102 Process API Updates
- 110 HTTP/2 Client
- 143 Improve Contended Locking
- 158 Unified JVM Logging
- 165 Compiler Control
- 199 Smart Java Compilation, Phase Two
- 212 Resolve Lint and Doclint Warnings
- 215 Tiered Attribution for javac
- 219 Datagram Transport Layer Security (DTLS)
- 221 Simplified Doclet API
- 222 jshell: The Java Shell (Read-Eval-Print Loop) REPL

Java SE 9



- 223 New Version-String Scheme
- 226 UTF-8 Property Files
- 227 Unicode 7.0
- 228 Add More Diagnostic Commands
- 230 Microbenchmark Suite
- 232 Improve Secure Application Performance •
- 235 Test Class-File Attributes Generated by javac
- 240 Remove the JVM TI hprof Agent
- 241 Remove the jhat Tool
- 243 Java-Level JVM Compiler Interface
- 245 Validate JVM Command-Line Flag Arguments

Java SE 9 (Continued)

A New Initiative

- Announcing a new initiative
 - Look at one of these JEPs more closely •
 - Provide targeted feedback to project lead •
 - Make better standards in a high impact area •
 - Significant uplift to the core Java platform •





• A new HTTP standard



HTTP/2

Why is HTTP / 2 Important?

- HTTP/1.1 has significant problems
 - Head-of-line blocking •
 - Restricted connections to a single site •
 - Overhead of control headers ullet

- HTTP / 2 is a re-imagining
 - Binary ullet
 - Fast \bullet
 - •

Optimized for the needs of large, high-volume websites

Why does HTTP / 2 Matter for Java?

- - Protocol agnostic •
 - Based on best ideas at the time •
 - HTTPS is an afterthought

- But the world has changed •
 - HTTPS is everything (with HTTP as legacy) •

Java's support for HTTP clients comes from a different era



An Opportunity to Fix Things

- HTTP/2 is a core piece of Java functionality for next decade
- Revisit our old assumptions
 - "Second bite of the cherry" •
- Also, produce test cases that can be used for interop
 - Not just Java •
 - We all have to talk to each other •
 - BDD? \bullet



Simple Sample

HttpResponse response = HttpRequest .create(new URI("http://www.google.com"))

.body(noBody())

.GET().send();

int responseCode = response.responseCode(); String responseBody = response.body(asString());

System.out.println(responseBody);



• An initial cut of the API is in place

- Some Problems
 - No way to explode modules (currently .jimage files) •
 - HTTP/2 support is limited •

Current Status





- Try out the API
- Run Hackdays •
- Don't be Afraid •
 - Core developers want our feedback & perspectives •
 - They are concerned about getting swamped •
 - Let Adopt* help we can be the first place that devs contact •
- HTTP / 2 is a great place to make an impact
- Please join us...

How Can We Help?

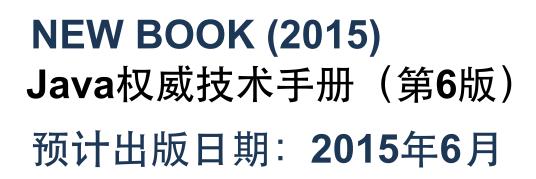




- Commercials
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THANK YOU









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