



Back to the Future

Java 8 is here!

Georges Saab, @gsaab

VP Java Platform Group, Oracle

Paul Sandoz, @PaulSandoz

Consulting Engineer, Java Platform Group, Oracle

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

Problem...



Georges Saab

@gsaab

+ Follow

Hey @united - flight ua903 delayed 4 hrs out of SFO, anything you can do on connection FRA-AMS? Would hate to miss my keynote at #gotoams

📍 California, USA

Solution!



<http://hauteliving.com/2011/12/back-to-the-future-items-head-to-auction-including-delorean-dmc-12/230606/>

What is Java? (circa 1995)

“A simple, object oriented, distributed, interpreted, robust, secure, architecture-neutral, portable, high performance, multithreaded, dynamic language”

– Dr. James Gosling

Some Benefits of Java

- Simple (relatively)
- Stable
- Fast
- Scalable
- Easy to read and maintain
- Choice of compatible implementations
- Great software ecosystem
- Future-proof
 - We optimize for new HW/OS

Version History

- JDK 1.0 Jan 1996
- JDK 1.1 Feb 1997
- JDK 1.2 Dec 1998
- JDK 1.3 May 2000
- JDK 1.4 Feb 2002
- JDK 5.0 Sep 2004
- JDK 6 Dec 2006
- ...



ACQUISITION

Image Credit: http://aterocana.blogspot.se/2011_07_01_archive.html

Version History

- JDK 1.0 Jan 1996
- JDK 1.1 Feb 1997
- JDK 1.2 Dec 1998
- JDK 1.3 May 2000
- JDK 1.4 Feb 2002
- JDK 5.0 Sep 2004
- JDK 6 Dec 2006
- JDK 7 Jul 2011
- JDK 8 Mar 18, 2014

Java 8



Getty Images

<http://www.fifa.com/worldcup/teams/team=43960/photos/index.html#2376173>

Recent Headline

“The Second Coming of Java: A Clinton Era Relic Returns to Rule Web”

– Wired, Sep 25, 2013

Roadmap Principles

- Major releases – Every 2 years
- Minor/Feature releases – 3 in between each major, roughly 6 month cadence
- Security and bug fix releases – Quarterly, dates announced 1 year in advance, synchronized between major release lines

Top 8 Reasons to Use JDK 8

- Project Lambda & Stream APIs
- New Date and Time APIs
- Compact Profiles
- Nashorn
- Java Flight Recorder/Java Mission Control
- No more permanent generation!
- Updated standards
- Developed in OpenJDK
- Also -- Java 7 EOPL is April 2015

Code Examples!

Top 8 Great Things About OpenJDK

- Transparency
- Collaboration with the best minds on Java
- Members from different companies and backgrounds
- Increasing y/y contributions and membership
- Continually improving infrastructure
- Open innovation
- AdoptOpenJDK
- Java SE RI is OpenJDK – increased compatibility

Java 9

- Jigsaw Modules
 - Enterprise deployment
 - Continued JVM improvement:
 - Increase sharing, increased isolation
 - Additional improvements in Serviceability
 - Lots of other things – look in the Java Bug System!
-
- JEP 2.0 and JBS
 - Mailing lists and blogs
 - JVMLS papers and recordings

Java 9 and Beyond

- Some things which have been discussed in the OpenJDK community:
 - Enhanced Volatiles
 - FFI & Project Panama
 - Value types
 - Arrays 2.0

Things You Can Do to Help

- Try weekly JDK builds and give feedback!
 - 8u20, 8u40, 9!
- Move to Java 8 as soon as you can
- Join a Java User Group
- Check out OpenJDK (and AdoptOpenJDK)

