OpenJDK

The First Year

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OpenJDK

What A fully-free JDK

Why Platform ubiquity

& developer mindshare

How Build a vibrant

OpenJDK Community

When Over the next year (or so)

```
May 2006
  November
    May 2007
      June
        July
           August
             September
               October
                  November
                    December
                      TODAY
                        January 2008
                           April
```

3

May 2006

"It is not a question of whether, but it is a question of how."

— R. Green

November 2006

GPLV2

HotSpot VM
Java compiler

openjdk.dev.java.net

8 May 2007

The rest of the code Interim Governance Board

openjdk.java.net

8 May 2007

The rest of the code* Interim Governance Board

openjdk.java.net

* Well, almost.

The rest of the code (almost)

Fully buildable != fully free

25,169 source files

894 (4%) binary only ("plugs")

1,885 (8%) not under GPLv2

The rest of the code (almost)

Graphics rasterizer
Font rasterizer
Imaging APIs
Sound engine
Crypto providers
Some SNMP code

8 May 2007

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openjdk.java.net

* Well, almost.

Governance

Present Sun in control

Patches via e-mail

Future Community in control

Non-Sun committers

Governance

"A republic, madam, if you can keep it."

— B. Franklin

Governance Board

Legislature + Judiciary !Executive

Governance Board

Legislature + Judiciary !Executive

Significant non-Sun representation

Two Sun employees, appointed

Three elected from Community

The OpenJDK Charter

WHEREBY Sun Microsystems, Inc. ("Sun") has granted license to a particular subset of its Java SE Development Kit, known henceforth as OpenJDK, to all under terms compatible with Open Source ideals, and whereby open and constructive development and dissemination of this code base is desired by all, Sun does by the execution of this Charter all of the following: First, establish an OpenJDK Governance Board ("GB") to supervise the OpenJDK Community ("Community") in its efforts to improve upon and advocate in favor of OpenJDK, so that the Community may long endure. Second, grant to the GB certain powers and rights as are necessary to discharge its duties. Third, appoint to the GB a suitable interim membership until such time as a Constitution may be constructed and ratified. Last, establish a time at which this Interim GB shall have discharged its responsibilities and ceded to its successor the powers and rights granted herein.

- 1. The GB shall be comprised of five natural persons. The GB shall conduct its affairs in accordance with democratic principles and shall represent the interests of the Community.
 - 1.1. Two members of the GB shall be employees of Sun. These appointees shall be selected by Sun and may be replaced at any time by Sun, at its sole discretion. These appointees shall represent Sun's interests but shall not have the power to speak for Sun Microsystems, Inc.
 - 1.2. The three remaining members of the GB shall be members of the Community who shall be elected via a democratic process defined in a properly ratified Constitution.
 - 1.3. Should the GB number fewer than five persons at any time then Sun shall, at its sole discretion, appoint to the GB additional Community members sufficient in number to increase the GB's membership to five. Appointees who fill elected seats shall serve

Interim Governance Board

Write a Constitution

Get it ratified by the Community

Hold elections for open seats

In the meantime, Sun remains the benevolent dictator

Interim Governance Board

Prof. Doug Lea

SUNY Oswego

Fabiane Biznella Nardon

CTO, ZILICS

Dalibor Topić

Max-Planck Institute for Computer Science

Simon Phipps

Chief Open-Source Officer, Sun Microsystems

Mark Reinhold

Java SE Chief Engineer, Sun Microsystems

Interim governance

Groups Projects

Interim governance

Group

A collection of participants who share a common interest

Project

A collaborative effort to create a specific artifact

Interim governance

Group

- Might be associated with code—or not
- Members participate in governance
- Has web content, mailing lists
- Does not have a file repository
- May sponsor Projects

Project

- Typically bounded in time
- Has Committers, not Members
- Has web content, mailing lists, file repository
- May be sponsored by one or more Groups

The big bang

- Initial Groups are Sun's existing teams
 - > More or less
 - HotSpot, Compiler, Networking, Security, I18n, 2D, AWT, Swing, ...
- Initial Projects
 - > Free font rasterizer
 - > Free graphics rasterizer
 - > Free sound engine
 - > Modules (JSRs 277 & 294)

Expanding the universe

- Add a new Member to a Group
 - Three-vote consensus (three yays, no nays) of the existing Members
- Create a new Group
 - > Proposed by a Member of an existing Group
 - > Seconded by two others
 - > Simple majority of the IGB
- Create a new Project
 - > One or more Groups decide to sponsor
 - > or: Simple majority of all Members

8 May 2007

The rest of the code* Interim Governance Board

openjdk.java.net

* Well, almost.

8 May 2007, 9:29am PDT

The rest of the code* Interim Governance Board

openjdk.java.net

* Well, almost.

8 May 2007, 9:29am PDT 8 May 2007, 2:46pm PDT

Gentoo OpenJDK ebuild

8 May 2007, 9:29am PDT 8 May 2007, 2:46pm PDT 9 May 2007, 3:06am PDT

Gentoo OpenJDK ebuild Fedora source rpm

7 June 2007

Iced Tea icedtea.classpath.org

"We intend this build repository, based on OpenJDK, to provide a basis on which to experiment. It's not a fork from OpenJDK, and doesn't contain the OpenJDK source code."

— Andrew Haley



23 May 2007

Framebuffer Toolkit Project

23 May 2007

Framebuffer Toolkit Project (Approved 13 June)

27 June 2007

Modules Project JSRs 277 & 294

July 2007

First IGB meetings

Constitutional principles agreed

9 August 2007

OpenJDK Community TCK License Agreement "OCTLA"

28 September 2007

Conformance Group

(Proposed)

IGB will vote on 18 December

9 October 2007

Multi-Language VM Project

(Approved 18 November)

5 November 2007

RedHat joins OpenJDK Signs both SCA & OCTLA

5 November 2007

SoyLatte
Landon Fuller's MacOS port

5 November 2007

SoyLatte

Landon Fuller's MacOS port

http://landonf.bikemonkey.org/static/soylatte

13 November 2007

Porters Group

(Approved 29 November)

31 October 2007

Mercurial

Experimental repositories published

http://hg.openjdk.java.net

http://selenic.com/mercurial



31 October 2007 4 December 2007

Mercurial

Experimental repositories published Transition complete!

http://hg.openjdk.java.net

http://selenic.com/mercurial



JDK 7 Project

(Approved 12 December)

Sun JDK team e-mail externalized

JavaPolis 2007

OpenJDK: The First Year

JavaPolis 2007

OpenJDK: The First Year

So, where are we now?

Summary: Groups & Projects

Groups

Porters Conformance*

Projects

Framebuffer Toolkit Multi-Language VM JDK 7

* Well, almost.

Summary: Related efforts

IcedTea
SoyLatte
Gervill
Kijaro

Coming in 2008 ...

Draft & ratify Constitution Infrastructure improvements Code reviews, OpenGrok, wiki, bug database, ... Externalize processes & tools Finish work on encumbrances Release deployment code JDK 6 JDK 7





http://openjdk.java.net

How to get involved



openjdk.java.net

planetjdk.org planet.classpath.org mail.openjdk.java.net irc.oftc.net #openjdk

How to get involved



openjdk.java.net

Sun Contributor Agreement Non-exclusive copyright assignment

Questions, comments, suggestions and patches most welcome!

23-24 February 2008

Free Java @ FOSDEM See you in Brussels!

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