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Retour JavaOne 2009

Alexis Moussine-Pouchkine
Sun Microsystems



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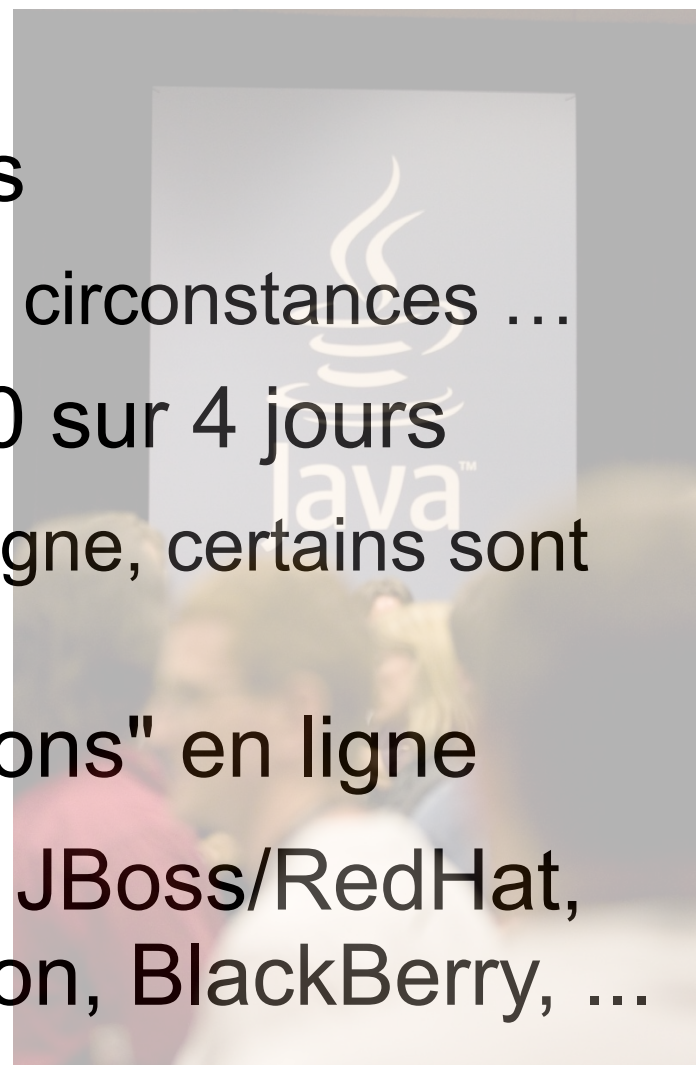
- Journée entière la veille de JavaOne consacrée aux communautés (OpenSource)
 - Linux, SGBDR, Scripting, Cloud, Social software
- Keynotes Sun:
 - Cloud Computing:
 - Virtualbox, Kenai.com, storage service, compute cloud (ouvert au partenaires)
 - OpenSolaris 2009.06
 - Version de base pour la prochaine version de Solaris
 - ZFS timeslider, virtualisation réseau, support SPARC & Xeon 5500, sondes dtrace dans MySQL/PHP/GlassFish, stockage, améliorations IPS, ...



Thanks for attending

JavaOne

- 14ème édition
- 15 000 participants de 43 pays
 - Très bon chiffre étant donné les circonstances ...
- 389 sessions de 8h30 à 22h00 sur 4 jours
 - Presque tous les PDF sont en ligne, certains sont des drafts
- Webcasts des "General Sessions" en ligne
- Co-sponsors principaux: Intel, JBoss/RedHat, Microsoft(!), IBM, Sony Ericsson, BlackBerry, ...

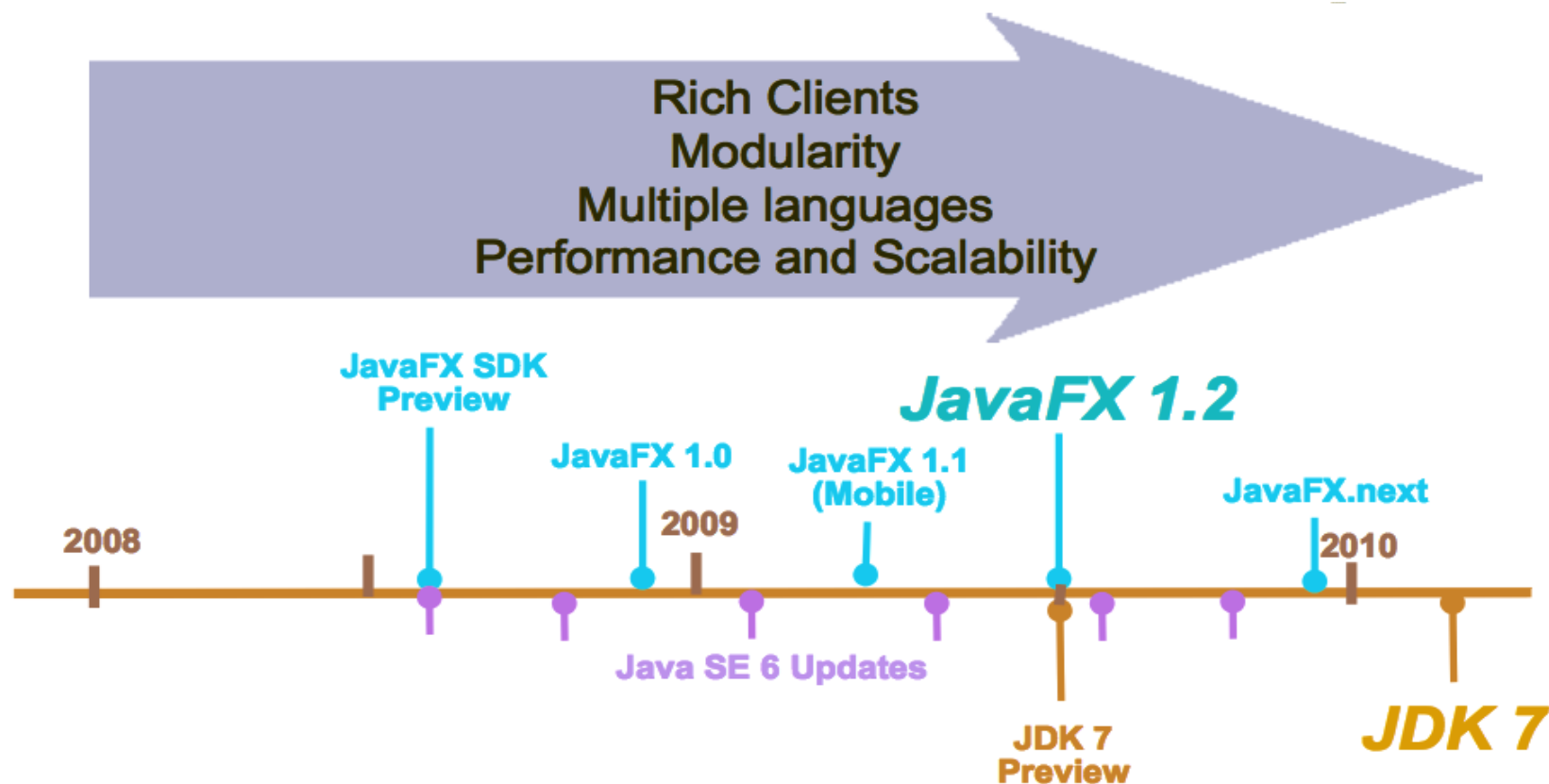


Keynote Jonathan/James/Scott/Larry

- Jonathan Schwartz (CEO Sun)
- James Gosling (Geek)
- Scott McNealy (Chairman)
- Larry Ellison (God?)
 - Java matters
 - FX rules/Ajax sucks (!)
 - Android



JDK – Roadmap



- Final by February 2010
- See roadmap at <http://openjdk.java.net/projects/jdk7/>

Top 5 sur JDK 7

1. Modularity

Modularity

- Project Jigsaw
 - Low level modularity system in JDK 7
 - Breaking up the JDK 7 code
 - Packaging format
 - Uses Java language modularity (JSR 294)
 - <http://openjdk.java.net/projects/jigsaw/>
 - <http://jcp.org/en/jsr/detail?id=294>

2. Multi-language VM

Bytecode for dynamic invocation

Lightweight method handles

A variety of other possible optimizations

DaVinci Project:

<http://openjdk.java.net/projects/mlvm>

3. Java Language Additions

Java Language Additions

- Can be really useful (enhanced `for` loop)
...but are very permanent
- Project Coin :
<http://openjdk.java.net/projects/coin>
 - Strings in `switch`
 - Multiple Exception handling
 - Improved Type Inference
 - `String s = maybeNull?.toString() ?: "nothing";`

4. More new I/O

New filesystem API

File notifications

Directory operations

Asynchronous I/O

5. G1 GC

Predictably low pauses
+ Few full GCs
+ Good throughput
= Great for a wide variety of applications

Try in Java SE 6 Update 14

```
-XX:+UnlockExperimentalVMOptions -XX:+UseG1GC
```

Java FX

- JavaFX 1.0: December 2008
- JavaFX 1.1: Feb. 2009
- JavaFX 1.2: June 2009
- JavaFX.next: 2009

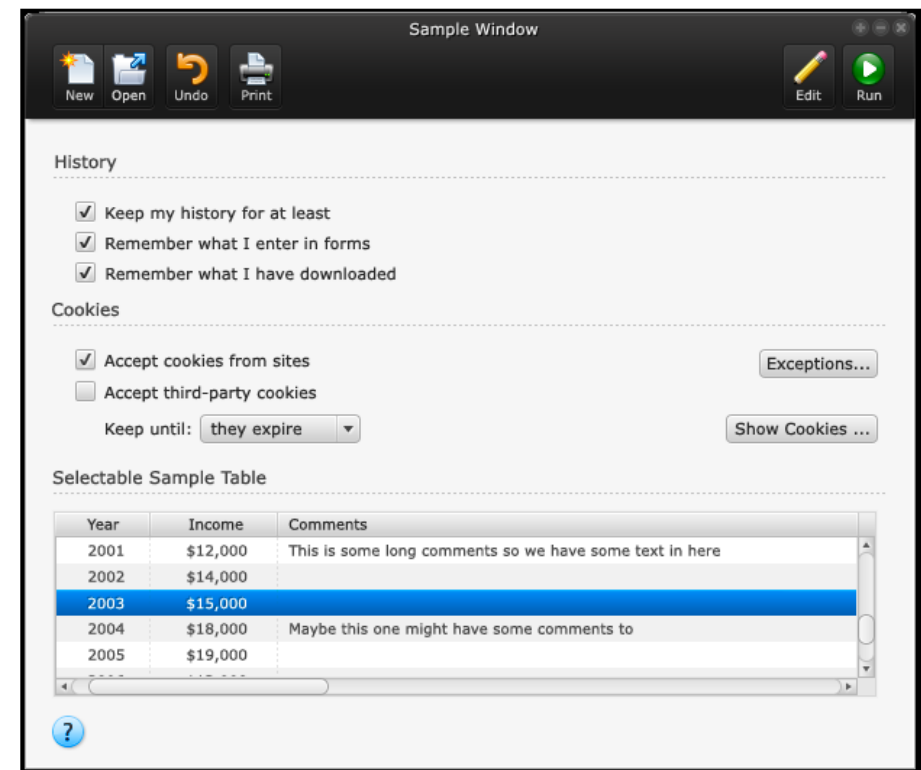
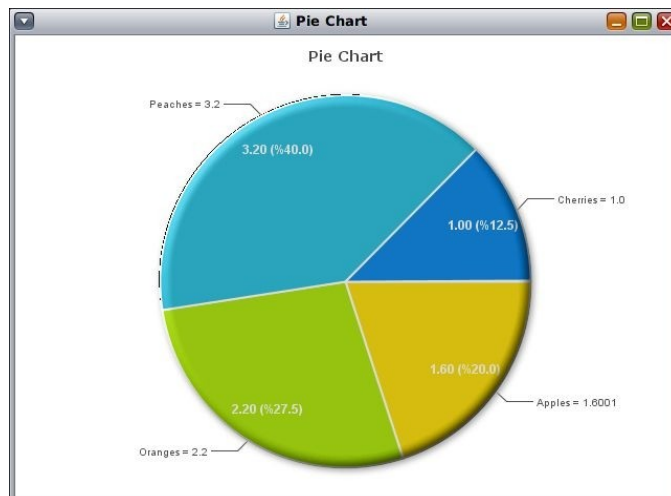
JavaFX 1.2

- Desktop
 - Windows, Mac OS, Linux, OpenSolaris
- TV
 - LG Telecom (preview)
- Phone
 - Developer phones: HTC Diamond, LG & Sony Ericsson
 - Developer Emulator



JavaFX 1.2 (cont.)

- UI Components
 - Buttons, Checkboxes, Hyperlinks, Labels, Lists, Progress indicators, Radio buttons, Scroll bars, Sliders, Textboxes, Toggles, Charts
 - All Skinnable (CSS)
- Layouts



Sample Window

New Open Undo Print Edit Run

History

- Keep my history for at least
- Remember what I enter in forms
- Remember what I have downloaded

Cookies

- Accept cookies from sites [Exceptions...](#)
- Accept third-party cookies

Keep until:

[Show Cookies ...](#)

Selectable Sample Table

Year	Income	Comments
2001	\$12,000	This is some long comments so we have some text in here
2002	\$14,000	
2003	\$15,000	
2004	\$18,000	Maybe this one might have some comments to
2005	\$19,000	

JavaFX 1.2 (cont.)

- Performance
 - RTSP for media
 - Optimizations in generated code
 - Careful optimizations in scenegraph
- More, Better ways to use data
 - RSS, Atom feed support
 - Simple asynchronous framework
 - Simple data storage API

JavaFX Designer Tool

- Timeline, visual binding, no/less coding, multiple-screen support
- Available end of 2009
- Java Web Start application, save to the cloud



Java Store

- Market place for Java applications
- 800 million desktop Java technology users
- « Drag to install »
- GlassFish + Jersey backend
- Current limitations
 - Desktop only (mobile coming)
 - US only (for now)
 - No charging (get it right)
- Technical details at :
<http://java.sun.com/warehouse/>



Java EE 6

- Extensibility, Profiles, Pruning
 - Servlet 3.0, JSF 2.0, EJB 3.1, JPA 2.0, JAX-RS 1.1, BeanValidation 1.0, and possibly JSR 299
- Final by September 2009
 - Most JSRs will complete this summer (JSF 2.0 final)
 - Some clarification needed between JSR 330 & 299
- Web Profile to evolve independently



GlassFish Portfolio



- GlassFish v3 Preview
 - Java EE 6, extensible, OSGi, web and full profiles, Embedded API, Admin RESTful API.
- Eclipse tools bundle
- Python and Django in GlassFish
 - From the GlassFish update center
- WebSpace (Portal)
 - Liferay collaboration + secure web access, sharepoint and IdM integration, CMS, ...
- WebStack (1.5) and Hudson
- Atmosphere (Comet)

Demo

Java EE 6

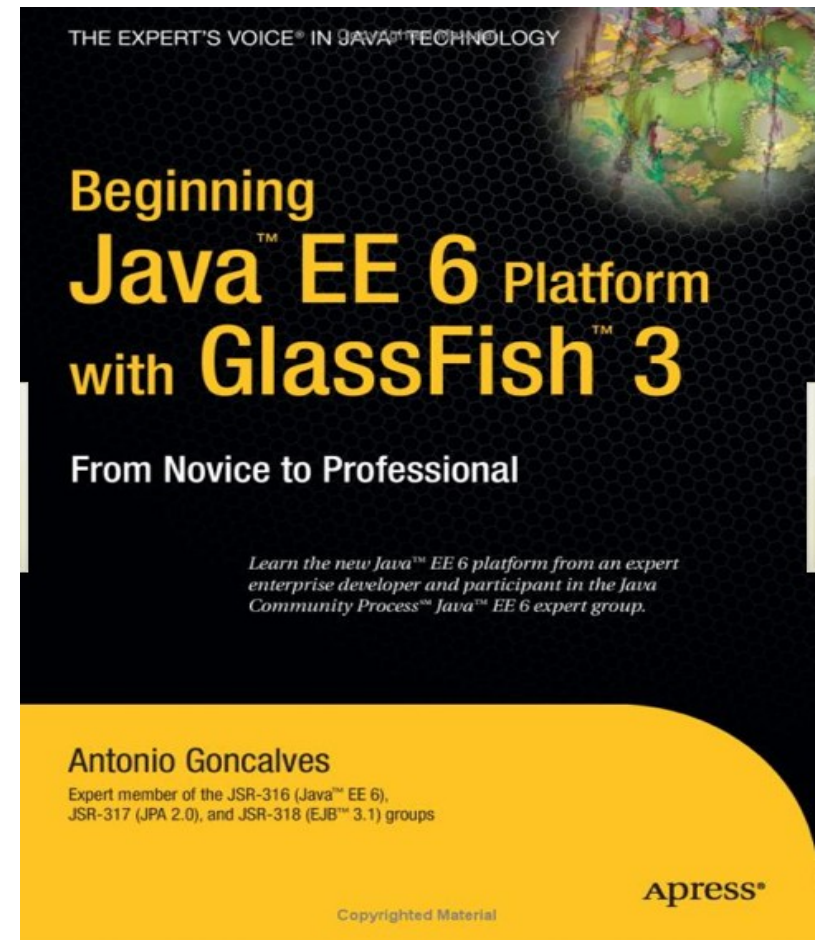
Eclipse

GlassFish v3 Preview

Beginning Java EE 6 w/ GlassFish 3

From Novice to Professional

- Antonio Goncalves
 - ParisJUG leader
 - Expert Group Member
 - Consultant
- First book on Java EE 6
- Available in electronic format



Kenai.com

- SVN, hg, JIRA, Confluence, mailing lists & forums, feeds, ...
- Collaborative
- Hudson in the cloud !



The screenshot shows the Project Kenai website interface. At the top, there is a navigation bar with the Sun Microsystems logo, the text "Project Kenai beta", and links for "Login", "Join Now", "Help", and a "Jump to..." search box. Below the navigation bar is a main content area with a left sidebar and a main body. The sidebar contains navigation links for "FORUMS", "PEOPLE", "PROJECTS", "MY PAGE", and "HOME", along with a "PROJECT TAGS" section listing various technologies like ajax, apache, application, c, c#, c++, cakephp, cloud, cms, community, computing, database, desktop, development, distributed, eclipse, editor, ejb, file, framework, game, games, glassfish, graphics, gui, hibernate, http, j2me, java, javaee, javafx, javascript, jee, jpa, jquery, jruby, jsf, kdp, library, management, maven, mobile, mysql, netbeans, netbeans-platform, openjive, opensolaris, opensource, p2p, parser, php, plugin, postgresql, python, rails, ruby, security, social, solaris, spring, sql, sun, swing, system, test, testing, web, web2.0, webapp, xml. The main body features a "GET ENGAGED!" section with a "JOIN NOW" button and a "What You Get | Learn More" link. Below this is a "FORUM POSTS" section with "Recent Posts" and "Active Topics" tabs, listing recent posts such as "Fire Up Your Container And Test Your Bea" and "What is in Plug-in Update?". To the right, there is a "SITE NEWS" section with "Project Kenai and NetBeans" and "The Java Application Store Is Now Open!" news items, and a "Kenai Survey" section. Below the forum posts is a "PROJECTS" section with "Featured" and "Recent" tabs, listing projects like "Java EE Patterns And Best Practices" and "The APIs for the Sun Cloud". At the bottom, there is a footer with links for "Home", "My Page", "Projects", "People", "Contact Us", "Join Now", and "Documentation".

NetBeans 6.7

- Enterprise
 - Maven
 - GlassFish v3
- « Other »
 - Issue tracking
 - Hudson
 - Enhanced PHP, C++ supports
 - Java ME SDK 3.0 support
- Kenai.com
 - Code, issues, collaboration, ...
- Available any day now!



James Gosling Toy Show

- Duke Awards
 - Terracotta, Atlassian, BlueJ/Greenfoot, RuneScape, projet NetBeans platform, ...
- Demo designer JavaFX
- FIRST Robotics Competition
- Visuvi : visual search engine
- LincVolt : Lincoln Continental running on electricity with Java dashboard



Trends

- Ongoing momentum for scripting and dynamic environments
 - Scala / Lift framework
 - Jython 2.5 / Django
 - Groovy / Grails
 - jRuby / Rails



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