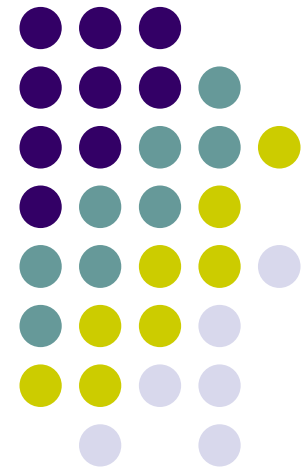


Java SE 6

What's new?

Marcin Werla <marcin@werla.pl>



Java SE 6



- Release date: 11th December 2006
- Code-name: Mustang
- Changes described in JSR 270
- Changes priorities
 - Release drivers (RD)
 - Group drivers (GD)
 - Targets of opportunity (TO)

Java SE 6



- „Themes” for J SE 6
 - Compatibility
 - Ease of Development
 - Diagnosability, Monitoring, & Management
 - Enterprise Desktop
 - XML & WS
 - Transparency

Java SE 6



- Areas and components:
 - Client – Desktop and other user-interface components
 - 2D, AWT, i18n, Swing
 - Core – Core platform components
 - General core features, Debug, Libs, M&M, Net, Sec, Tools
 - EE – Components shared with the Java EE platform
 - General enterprise features, JDBC, XML

Java SE 6 - Client



- 2D
 - GIF image writer [TO]
- AWT
 - Access to desktop helper applications [TO]
 - Fast splash screens [TO]
 - Improved modal dialogs [TO]
 - System-tray support [GD]
- i18n
 - Pluggable locale data [GD]
 - Resource-bundle enhancements [TO]
 - Unicode string normalization [TO]



Java SE 6 - Client

- Swing
 - Baseline/gap APIs [TO]
 - Easy-to-use Swing layout manager [TO]
 - Improve Swing drag-&-drop [TO]
 - JTabbedPane: Tabs as components [TO]
 - JTable sorting, filtering, and highlighting [GD]
 - SwingWorker [TO]
 - Text-component printing [TO]



Java SE 6 - Core

- JSR 223: Scripting for the Java Platform [GD]
- Debug
 - Access to heap contents [TO]
 - Attach-on-demand [GD]
 - Multiple simultaneous agents [TO]



Java SE 6 - Core

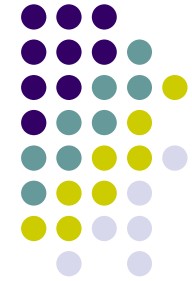
- Libs
 - JSR 202: Java Class-File Specification Update [RD]
 - Array reallocation [TO]
 - Collections: Deques [TO]
 - Collections: Sorted sets and maps with bidirectional navigation [TO]
 - Critical file-I/O enhancements [GD]
 - Floating point: Add core IEEE 754 recommended functions [TO]
 - java.util.concurrent updates [GD]
 - Password prompting [GD]
 - Service-provider lookup [TO]

Java SE 6 - Core



- M&M
 - Generalized lock monitoring [TO]
 - Generalized MBean descriptors [GD]
 - Generic annotations for MBean descriptor contents [TO]
 - MXBeans [GD]
- Net
 - Internationalized domain names [TO]
 - Programmatic access to network parameters [TO]
 - Simple HTTP cookie manager [TO]

Java SE 6 - Core



- Sec
 - JSR 105: XML Digital-Signature APIs [RD]
- Tools
 - JSR 199: Java Compiler API [RD]
 - JSR 269: Pluggable Annotation-Processing API [RD]



Java SE 6 - EE

- JSR 250: Common Annotations [GD]
- JDBC
 - JSR 221: JDBC 4.0 [RD]
- XML
 - JSR 173: Streaming API for XML (StAX) [RD]
 - JSR 181: Web-Services Metadata [RD]
 - JSR 222: Java Architecture for XML Binding (JAXB) 2.0 [RD]
 - JSR 224: Java API for XML-Based Web Services (JAX-WS) 2.0 [RD]
 - JavaBeans Activation Framework (JAF) 1.1 [RD]

Java SE 6



- Native platform Security (GSS/Kerberos) integration.
- Java Authentication and Authorization Service (JAAS) login module that employs LDAP authentication
- Embedded Rhino Javascript engine from Netscape/Mozilla
- Java DB (derived from Apache Derby) included with Sun's package
- New Smart Card I/O API

Java SE 6

- That's all...

