

# Java 9, a review of JSR 379

<ul style="list-style-type: none"> <li>Store Interned Strings in CDS Archives</li> <li>Improve Contended Locking</li> <li>Compact Strings</li> <li>Improve Secure Application Performance</li> <li>Leverage CPU Instructions for GHASH and RSA</li> <li>Tiered Attribution for javac</li> <li>Javadoc Search</li> <li>Marlin Graphics Renderer</li> <li>HiDPI Graphics on Windows and Linux</li> <li>Enable GTK 3 on Linux</li> <li>Update JavaFX/Media to Newer Version of GStreamer</li> </ul> <p><b>Behind the scenes</b></p>	<ul style="list-style-type: none"> <li>Process API Updates</li> <li>Variable Handles</li> <li>Spin-Wait Hints</li> <li>Dynamic Linking of Language-Defined Object Models</li> <li>Enhanced Method Handles</li> <li>More Concurrency Updates</li> <li>Compiler Control</li> </ul> <p><b>Specialized</b></p>	<ul style="list-style-type: none"> <li>Parser API for Nashorn</li> <li>Prepare JavaFX UI Controls &amp; CSS APIs for Modularization</li> <li>Modular Java Application Packaging</li> <li>New Version-String Scheme</li> <li>Reserved Stack Areas for Critical Sections</li> <li>Segmented Code Cache</li> <li>Indify String Concatenation</li> <li>Unified JVM Logging</li> <li>Unified GC Logging</li> <li>Make G1 the Default Garbage Collector</li> <li>Use CLDR Locale Data by Default</li> <li>Validate JVM Command-Line Flag Arguments</li> <li>Java-Level JVM Compiler Interface</li> <li>Disable SHA-1 Certificates</li> <li>Simplified Doclet API</li> <li>Deprecate the Applet API</li> <li>Process Import Statements Correctly</li> <li>Annotations Pipeline 2.0</li> <li>Elide Deprecation Warnings on Import Statements</li> <li>Milling Project Coin</li> </ul> <p><b>Housekeeping</b></p>
<ul style="list-style-type: none"> <li>Jigsaw – Modularize JDK</li> <li>Enhanced Deprecation</li> <li>Stack-Walking API</li> <li>Convenience Factory Methods for Collections</li> <li>Platform Logging API and Service</li> <li>Jshell: The Java Shell (Read-Eval-Print Loop)</li> <li>Compile for Older Platform Versions</li> <li>Multi-Release JAR Files</li> <li>Platform-Specific Desktop Features</li> <li>TIFF Image I/O</li> <li>Multi-Resolution Images</li> </ul> <p><b>New functionality</b></p>	<ul style="list-style-type: none"> <li>HTTP 2 Client</li> <li>Unicode 8.0</li> <li>UTF-8 Property Files</li> <li>Datagram Transport Layer Security (DTLS)</li> <li>OCSP Stapling for TLS</li> <li>TLS Application-Layer Protocol Negotiation Extension</li> <li>SHA-3 Hash Algorithms</li> <li>DRBG-Based SecureRandom Implementations</li> <li>Create PKCS12 Keystores by Default</li> <li>Merge Selected Xerces 2.11.0 Updates into JAXP</li> <li>XML Catalogs</li> <li>HarfBuzz Font-Layout Engine</li> <li>HTML5 Javadoc</li> </ul> <p><b>New standards</b></p>	<ul style="list-style-type: none"> <li>Remove GC Combinations Depreciated in JDK 8</li> <li>Remove Launch-Time JRE Version Selection</li> <li>Remove the JVM TI hprof Agent</li> <li>Remove the jhat Tool</li> </ul> <p><b>Gone</b></p>

compact1	compact2	compact3
java.io	java.rmi	java.lang.instrument
java.lang	java.rmi.activation	java.lang.management
java.lang.annotation	java.rmi.registry	java.security.acl
java.lang.invoke	java.rmi.server	java.util.prefs
java.lang.ref	java.sql	javax.annotation.processing
java.lang.reflect	javax.rmi.ssl	javax.lang.model
java.math	javax.sql	javax.lang.model.element
java.net	javax.transaction	javax.lang.model.type
java.nio	javax.transaction.xa	javax.lang.model.util
java.nio.channels	javax.xml	javax.management
java.nio.channels.spi	javax.xml.datatype	javax.management.loading
java.nio.charset	javax.xml.namespace	javax.management.modelbean
java.nio.charset.spi	javax.xml.parsers	javax.management.monitor
java.nio.file	javax.xml.stream	javax.management.openmbean
java.nio.file.attribute	javax.xml.stream.events	javax.management.relation
java.nio.file.spi	javax.xml.stream.util	javax.management.remote
java.security	javax.xml.transform	javax.management.remote.rmi
java.security.cert	javax.xml.transform.dom	javax.management.timer
java.security.interfaces	javax.xml.transform.sax	javax.naming
java.security.spec	javax.xml.transform.stax	javax.naming.directory
java.text	javax.xml.transform.stream	javax.naming.event
java.text.spi	javax.xml.validation	javax.naming.ldap
java.util	javax.xml.xpath	javax.naming.spi
java.util.concurrent	org.w3c.dom	javax.script
java.util.concurrent.atomic	org.w3c.dom.bootstrap	javax.security.auth.kerberos
java.util.concurrent.locks	org.w3c.dom.events	javax.security.sasl
java.util.jar	org.w3c.dom.ls	javax.sql.rowset
java.util.logging	org.xml.sax	javax.sql.rowset.serial
java.util.regex	org.xml.sax.ext	javax.sql.rowset.spi
java.util.spi	org.xml.sax.helpers	javax.tools
java.util.zip		javax.xml.crypto
javax.crypto		javax.xml.crypto.dom
javax.crypto.interfaces		javax.xml.crypto.dsig
javax.crypto.spec		javax.xml.crypto.dsig.dom
javax.net		javax.xml.crypto.dsig.keyinfo
javax.net.ssl		javax.xml.crypto.dsig.spec
javax.security.auth		org.ietf.jgss
javax.security.auth.callback		
javax.security.auth.login		
javax.security.auth.spi		
javax.security.auth.x500		
javax.security.cert		