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The initial code for shuffling an array (originally in class "org.apache.commons.math3.random.RandomDataGenerator", now replaced by a method in class "org.apache.commons.math3.util.MathArrays") was inspired from the algorithm description provided in "Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999). The textbook (containing a proof that the shuffle is uniformly random) is available here:

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[1] <http://www.ecma-international.org/publications/standards/Ecma-376.htm>

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JUnit test library (junit-4.\*.jar) & JaCoCo (\*jacoco\*)

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[1] <http://www.ecma-international.org/publications/standards/Ecma-376.htm>

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[3]

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#### Bouncy Castle library (bcprov-\*.jar, bcpg-\*.jar, bcpkix-\*.jar)

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Avalon Framework API 4.3.1

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zlib.h -- interface of the 'zlib' general purpose compression library



version 1.2.1, November 17th, 2003

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Jean-loup Gailly [jloup@gzip.org](mailto:jloup@gzip.org)

Mark Adler [madler@alumni.caltech.edu](mailto:madler@alumni.caltech.edu)

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BWidget ToolKit

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HK2 API module 2.5.0-b32

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Hibernate 3.3.2.GA

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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Hibernate JMX Module 3.3.2.GA

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Hibernate JPA 2.1 API 1.0.0.Final

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JBoss Marshalling API 1.4.10 Final

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\*

JDOM 1.1

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JFreeChart: 1.0.19

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analysis/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,

analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,  
 analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt See  
<http://members.unine.ch/jacques.savoy/clef/index.html>. The  
 German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish  
 light stemmers (common) are based on BSD-licensed reference implementations  
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 analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java  
 analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java  
 analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java  
 analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java  
 analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java  
 analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java  
 analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java  
 analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java  
 analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java  
 analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java  
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#### Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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Lucene QueryParsers 7.3.0

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analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,  
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt See

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration

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Numeral-js - adamwdraper/Numeral-js: 2.0.6

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Pull API for parsing MIME messages – MIMEpull 1.9.6



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QDox: 1.12.1

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Quartz backward compatibility package: 2.1.7

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Saxon XSLT and XQuery Processor - Saxon-HE 9.2.1.5

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SiteMesh library: 2.2.1

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Tiles request - Servlet support: 1.0.6

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Xerces2-j - xerces:xercesImpl: 2.12.0

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backbone.babysitter: 0.1.12

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beanvalidation-api 1.1.0.Final

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com.amazonaws:jmespath-java: 1.11.505

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dom4j: flexible XML framework for Java: 2.1.1

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dragdropextra 0.5

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eigenbase-properties 1.1.2

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Yan Corneille

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hazelcast 3.4

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hk2:osgi-resource-locator (Custom Component) 1.0.1

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

\* Brian Langel

\*

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javax.activation:javax.activation-api 1.2.0



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jaxb-xjc 2.3.2

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jQuery.selection 1.0.1

jQuery.selection - jQuery Plugin

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Json Path 2.2.0

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org.apache.xmlgraphics:batik-awt-util: 1.11

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quartz-commonj: 2.1.7

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require-css: 0.1.10

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requirejs-domready 2.0.1

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requirejs-plugins: 1.0.2

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rivets 0.6.9

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saaj-impl 1.5.1





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snappy-java 1.1.2.6

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xml-apis-ext 1.3.04

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xmlstreambuffer: 1.5.7

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License: W3C

Project: <https://www.w3.org/Submission/ws-addressing/>

Source: <http://schemas.xmlsoap.org/ws/2004/08/addressing/ant-launcher> (1.10.2)

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Project: <https://ant.apache.org/>

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<http://central.maven.org/maven2/org/apache/ant/ant-launcher/1.10.2/ant-launcher-1.10.2-sources.jar>

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<http://central.maven.org/maven2/commons-logging/commons-logging/1.1.2/commons-logging-1.1.2-sources.jar>  
JUnit (4.12)

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maven-plugin-annotations (3.5.1)

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Project:

<https://maven.apache.org/plugin-tools/maven-plugin-annotations/project-info.html>

Source:

<https://github.com/apache/maven-plugin-tools/tree/maven-plugin-tools-3.5.1/maven-plugin-annotations/maven-plugin-api>  
maven-plugin-api (3.5.2)

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Project: <https://maven.apache.org/>

Source: <https://github.com/apache/maven/tree/master/maven-plugin-api>  
maven-resolver-api (1.1.1)

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mex.xsd Version: 2004/09 (n/a)

License: Oasis Style

Project: <https://www.w3.org/Submission/WS-MetadataExchange/#appendix-II>

Source: <http://schemas.xmlsoap.org/ws/2004/09/mex/MetadataExchange.xsd>  
plexus-utils (3.1.0)

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relaxng-datatype (1.0)

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stax2-api (4.1)

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Project: <https://github.com/FasterXML/stax2-api>  
Source:  
<http://central.maven.org/maven2/org/codehaus/woodstox/stax2-api/4.1/stax2-api-4.1-sources.jar>  
testng (6.14.2)

License: Apache-2.0 AND MIT  
Project: <https://testng.org/doc/index.html>  
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woodstox-core-asl (4.4.1)

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Project: <https://github.com/FasterXML/woodstox>  
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ws-addr.wsd (1.0)

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Project: <https://www.w3.org/2005/08/addressing/>  
Source: <https://www.w3.org/2006/03/addressing/ws-addr.xsd>  
wsat.xsd Version: 2004/10 (n/a)

License: Oasis Style  
Project: <http://schemas.xmlsoap.org/ws/2004/10/wsat/>  
Source: <http://schemas.xmlsoap.org/ws/2004/10/wsat/wsat.xsd>  
wscoor.xsd (1.0)

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Project: <http://docs.oasis-open.org/ws-tx/wscoor/2006/06>  
Source:  
<http://docs.oasis-open.org/ws-tx/wscoor/2006/06/wstx-wscoor-1.1-schema-200701.xsd>  
wsrm Version: 2005/02 (n/a)

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Project: <http://schemas.xmlsoap.org/ws/2005/02/rm/>

Source:

<http://schemas.xmlsoap.org/ws/2005/02/rm/wsrn.xsd;%20http://schemas.xmlsoap.org/ws/2005/02/rm/wsrn-wsrn.xsd> (1.2)

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xmlsec (1.5.8)

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Project: <http://santuario.apache.org/>

Source:

<https://repo1.maven.org/maven2/org/apache/santuario/xmlsec/1.5.8/xmlsec-1.5.8-sources.jar>

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xregexp: 4.2.4

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- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
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## Barbecue - Java barcode generator 1.5-beta1

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Version 2.1, February 1999

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hsqldb 2.4.0

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JCommander: 1.27

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JFreeChart - 3. JCommon: 1.0.23

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JTidy r938

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\* Java HTML Tidy - JTidy

\* HTML parser and pretty printer

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\* Contributing Author(s):

\*

\* Dave Raggett <dsr@w3.org>

\* Andy Quick <ac.quick@sympatico.ca> (translation to Java)

\* Gary L Peskin <garyp@firsttech.com> (Java development)

\* Sami Lempinen <sami@lempinen.net> (release management)

\* Fabrizio Giustina <fgiust at users.sourceforge.net>

\*

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PostgreSQL JDBC Driver 9.4.1210

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RequireJS: 2.3.6

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Tyrus Grizzly Client Container: 1.13.1

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WebSocket server API: 1.1

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XChart: 3.2.2

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jqueryui: 1.12.1

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jai-imageio-core: 1.3.1

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javax.annotation API 1.2

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olap4j 0.9.7

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org.apache.xmlgraphics:batik-awt-util: 1.11

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r.js: 2.3.5

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requirejs-async: 0.1.2

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snakeyaml: 1.6

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