(http://baeldung.com)

Java 8

Features (http://openjdk.java.net/projects/jdk8/features) | Milestones (http://openjdk.java.net/projects/jdk8/milestones) | Mailing Lists (http://mail.openjdk.java.net/mailman/listinfo) | JEPs (http://openjdk.java.net/jeps/0) | JDK 8 Project (https://jdk8.java.net/) | Official Release (http://mreinhold.org/blog/jdk8-ga) |

This page is **a collection of Articles for each feature in Java 8**. The main working JSR for Java SE 8 is JSR-337 (https://jcp.org/en/jsr/detail?id=337).

Java 8 is now out (as of the 18th of March 2014) – here is the official announcement (http://mreinhold.org/blog/jdk8-ga) and the download page (http://www.oracle.com/technetwork/java/javase/downloads/index.html).

I will **keep this page updated** with new resources as they're created (and as I find them).

To keep track of what's going in with **the next release – Java 9** – I have a page that I frequently update with new developments here:

>> THE JAVA 9 PAGE (/java-9)

Release Notes for JDK 8:

- JDK 8u172 release notes (http://www.oracle.com/technetwork/java/javase/8u172-relnotes-4308893.html)
- JDK 8u171 release notes (http://www.oracle.com/technetwork/java/javase/8u171-relnotes-4308888.html)
- JDK 8u162 release notes (http://www.oracle.com/technetwork/java/javase/8u162-relnotes-4021436.html)
- JDK 8u161 release notes (http://www.oracle.com/technetwork/java/javase/8u161-relnotes-4021379.html)
- JDK 8u151 release notes (http://www.oracle.com/technetwork/java/javase/8u151-relnotes-3850493.html)
- JDK 8u152 release notes (http://www.oracle.com/technetwork/java/javase/8u152-relnotes-3850503.html)
- JDK 8u144 release notes (http://www.oracle.com/technetwork/java/javase/8u144-relnotes-3838694.html)
- JDK 8u141 release notes (http://www.oracle.com/technetwork/java/javase/8u141-relnotes-3720385.html)
- JDK 8u131 release notes (http://www.oracle.com/technetwork/java/javase/8u131-relnotes-3565278.html)
- JDK 8u121 release notes (http://www.oracle.com/technetwork/java/javase/8u121-relnotes-3315208.html)
- JDK 8u112 release notes (http://www.oracle.com/technetwork/java/javase/8u112-relnotes-3124973.html)
- JDK 8u111 release note (http://www.oracle.com/technetwork/java/javase/8u111-relnotes-3124969.html)
- JDK 8u102 release notes (http://www.oracle.com/technetwork/java/javase/8u102-relnotes-3021767.html)
- JDK 8u101 release notes (http://www.oracle.com/technetwork/java/javase/8u101-relnotes-3021761.html)
- JDK 8u92 release notes (http://www.oracle.com/technetwork/java/javase/8u92-relnotes-2949471.html)
- JDK 8u91 release notes (http://www.oracle.com/technetwork/java/javase/8u91-relnotes-2949462.html)
- JDK 8u77 release notes (http://www.oracle.com/technetwork/java/javase/8u77-relnotes-2944725.html)
- JDK 8u74 release notes (http://www.oracle.com/technetwork/java/javase/8u74-relnotes-2879024.html)
- JDK 8u73 release notes (http://www.oracle.com/technetwork/java/javase/8u73-relnotes-2874654.html)
- JDK 8u72 release notes (http://www.oracle.com/technetwork/java/javase/8u72-relnotes-2775802.html)
- JDK 8u71 release notes (http://www.oracle.com/technetwork/java/javase/8u71-relnotes-2773756.html)
- JDK 8u66 release notes (http://www.oracle.com/technetwork/java/javase/8u66-relnotes-2692847.html)
- JDK 8u65 release notes (http://www.oracle.com/technetwork/java/javase/8u65-relnotes-2687063.html)
- JDK 8u60 release notes (http://www.oracle.com/technetwork/java/javase/8u60-relnotes-2620227.html)
- JDK 8u51 release notes (http://www.oracle.com/technetwork/java/javase/8u51-relnotes-2587590.html)
- JDK 8u45 release notes (http://www.oracle.com/technetwork/java/javase/8u45-relnotes-2494160.html)
- JDK 8u40 release notes (http://www.oracle.com/technetwork/java/javase/8u40-relnotes-2389089.html)
- JDK 8u31 release notes (http://www.oracle.com/technetwork/java/javase/8u31-relnotes-2389094.html)
- JDK 8u25 (revision builds) (http://www.oracle.com/technetwork/java/javaseproducts/documentation/8u25-revision-builds-relnotes-2339787.html)
- JDK 8u25 (public release) (http://www.oracle.com/technetwork/java/javase/8u25-relnotes-2296185.html)

- JDK 8u20 (revision builds) (http://www.oracle.com/technetwork/java/javaseproducts/documentation/8u20-revision-builds-relnotes-2330773.html)
- JDK 8u20 (public release) (http://www.oracle.com/technetwork/java/javase/8u20-relnotes-2257729.html)
- JDK 8u11 (revision builds) (http://www.oracle.com/technetwork/java/javaseproducts/documentation/8u11-revision-builds-relnotes-2238246.html)
- JDK 8u11 (public release) (http://www.oracle.com/technetwork/java/javase/8u11-relnotes-2232915.html)
- JDK 8u5 (revision builds) (http://www.oracle.com/technetwork/java/javaseproducts/documentation/8u5revision-builds-relnotes-2226241.html)
- JDK 8u5 (public release) (http://www.oracle.com/technetwork/java/javase/8u5-relnotes-2226339.html)
- JDK 8 (public release) (http://www.oracle.com/technetwork/java/javase/8-relnotes-2226341.html)

Note: If you have updates, new resources to include or spot any incorrect information, please feel free to contact me directly (*eugen at this domain*) or leave a comment below.

Features

- **=> Lambda**
- **=> Language (core/lang)**
- **=> Libraries (core/libs)**
- **=> Networking (core/net)**
- **=> Security (core/sec)**
- **=> JVM – Garbage Collection (vm/gc)**
- **=> JVM – Real Time (vm/rt)**
- **=> JVM (vm/–)**
- **=> Core (–/–)**
- **=> Other JEPs**
- **=> General Java 8 Resources**

Lambda

101 – Generalized Target-Type Inference (core/lang) (**latest**: January 2014)

107 – Bulk Data Operations for collections (core/libs) (**latest**: January 2018)

109 – Enhance Core Libraries with Lambda (core/libs)

126 – Lambda Expressions & Virtual Extension Methods (–/–) (**latest**: Jan 2015)

160 – Lambda-Form Representation for Method HGandles (–/–)

General Lambda Resources (**latest**: Februaryy 2018)

Language (core/lang)

104 – Annotations on Java Types (**latest**: February 2014)

105 – DocTree API

106 – Add Javadoc to javax.tools

117 – Remove the Annotation-Processing Tool (apt)

118 – Access to Parameter Names at Runtime

120 – Repeating Annotations

139 – Enhance javac to Improve Build Speed

172 – DocLint

182 – Policy for Retiring javac *-source* and *-target* Options (~~DROPPED~~)

Libraries (core/libs)

102 – Process API Updates

103 – Parallel Array Sorting (**latest**: August 2014)

108 – Collections Enhancements from Third-Party Libraries (~~DROPPED~~)

111 – Additional Unicode Constructs for Regular Expressions (~~DROPPED~~)

112 – Charset Implementation Improvements

119 – javax.lang.model Implementation Backed by Core Reflection

135 – Base64 Encoding & Decoding

149 – Reduce Core-Library Memory Usage

150 – Date & Time API (**latest**: March 2015)

151 – Compress Time-Zone Data

154 – Remove Serialization

155 – Concurrency Updates (**latest**: May 2015)

170 – JDBC 4.2

177 – Optimize java.text.DecimalFormat.format

178 – Statically-Linked JNI Libraries

180 – Handle Frequent HashMap Collisions with Balanced Trees

Networking (core/net)

110 – New HTTP Client (~~DROPPED~~)

125 – Network Interface Aliases, Events, and Defaults (~~DROPPED~~)

168 – Network Discovery of Manageable Java Processes

183 – HTTP Cross-Origin Resource Sharing (~~DROPPED~~)

184 – HTTP URL Permissions

Security (core/sec)

113 – MS-SFU Kerberos 5 Extensions

114 – TLS Server Name Indication (SNI) Extension

115 – AEAD CipherSuites

116 – Extended Validation Certificates

121 – Stronger Algorithms for Password-Based Encryption

123 – Configurable Secure Random-Number Generation

124 – Enhance the Certificate Revocation-Checking API

129 – NSA Suite B Cryptographic Algorithms

130 – SHA-224 Message Digests

131 – PKCS#11 Crypto Provider for 64-bit Windows

140 – Limited doPrivileged

152 – Crypto Operations with Network HSMs

166 – Overhaul JKS-JCEKS-PKCS12 Keystores

General Security Resources (**latest**: March 2014)

JVM – Garbage Collection (vm/gc)

122 – Remove the Permanent Generation

132 – More-prompt finalization (~~DROPPED~~)

134 – Intuitive Semantics for Nested Reference Objects (~~DROPPED~~)

141 – Increase the Client VM's Default Heap Size (~~DROPPED~~)

144 – Reduce GC Latency for Large Heaps (~~DROPPED~~)

156 – G1 GC: Reduce need for full GCs (~~DROPPED~~)

157 – G1 GC: NUMA-Aware Allocation (~~DROPPED~~)

163 – Enable NUMA Mode by Default When Appropriate

173 – Retire Some Rarely-Used GC Combinations

General Gargage Collection Resources

JVM – Real Time (vm/rt)

136 – Enhanced Verification Errors

143 – Improve Contended Locking (~~DROPPED~~)

147 – Reduce Class Metadata Footprint

148 – Small VM

171 – Fence Intrinsics

181 – Align JVM Checks with Java Language Rules for Nested Classes (~~DROPPED~~)

JVM (vm/–)

142 – Reduce Cache Contention on Specified Fields
145 – Cache Compiled Code (~~DROPPED~~)
146 – Improve Fatal Error Logs (~~DROPPED~~)
169 – Value Objects (~~DROPPED~~)

Core (–/–)

138 – Autoconf-Based Build System
161 – Compact Profiles
162 – Prepare for Modularization
164 – Leverage CPU Instructions for AES Cryptography
174 – Nashorn JavaScript Engine (**latest**: Oct 2014)
175 – PowerPC/AIX Port
176 – Mechanical Checking of Caller-Sensitive Methods
179 – Document JDK API Support and Stability

Other JEPs

127 – Improve Locale Data Packaging and Adopt Unicode CLDR Data (core/i18n)
128 – BCP 47 Locale Matching (core/i18n)
133 – Unicode 6.2 (core/i18n)
153 – Launch JavaFX Applications (core/–)
185 – JAXP 1.5: Restrict Fetching of External Resources (web/jaxp)

General Java 8 Resources

Java 8 Installation and IDE Support (**latest**: Oct 2015)
Other Official/Oracle Java 8 Resources
Other General Java 8 Resources (**latest**: March 2018)

JEP Details

— Lambda —

101 – Generalized Target-Type Inference

JEP (http://openjdk.java.net/jeps/101) | Mailing List (mailto:lambda-dev@openjdk.java.net) | JSR (https://jcp.org/en/jsr/detail?id=335)

Resources

- A Lesser-Known Java 8 Feature: Generalized Target-Type Inference (http://blog.jooq.org/2013/11/25/a-lesser-known-java-8-feature-generalized-target-type-inference/) (Nov 2013)
- On StackOverflow – Java 8 and Generalized Target-Type Inference (http://stackoverflow.com/questions/19934204/java-8-and-generalized-target-type-inference) (Nov 2012)

107 – Bulk Data Operations for Collections

JEP (http://openjdk.java.net/jeps/107) | Mailing List (mailto:lambda-dev@openjdk.java.net) | Project (http://openjdk.java.net/projects/lambda/) | JSR (https://jcp.org/en/jsr/detail?id=335)

Oracle/Official Resources

- Official Tutorial – Aggregate Operations (http://docs.oracle.com/javase/tutorial/collections/streams/)

Resources

- Java 8 Streams: Convert List into Map (https://blog.marcnuri.com/java-8-streams-convert-list-into-map/) (**new** – March 2018)
- A Guide to Streams in Java 8: In-Depth Tutorial with Examples (https://stackify.com/streams-guide-java-8/) (**new** – March 2018)

- Joining Objects into a String with Java 8 Stream API (https://coderwall.com/p/im4lja/joining-objects-into-a-string-with-java-8-stream-api) (**new** – March 2018)
- Java 8 Stream map() examples (http://frugalisminds.com/java/java-8-stream-map-examples/) (**new** – March 2018)
- Mastering Java 8 Streams – Part 2 | Java 8 Features (https://www.youtube.com/watch?v=7yKom_LjuXE) (**video**) (**new** – March 2018)
- Mastering Java 8 Streams – Part 1 | Java 8 Features (https://www.youtube.com/watch?v=NEcA1JRT7pg) (**video**) (**new** – March 2018)
- Java 8 Convert Streams to & from Arrays Examples (https://byexample.xyz/java/8/streamtoandfromarray/) (**new** – February 2018)
- Java 8 Stream Cheatsheet (https://www.gunnargissel.com/java8-stream-cheatsheet.html) (**new** – February 2018)
- Java 8 Streams Collect Examples (https://byexample.xyz/java/8/collect/) (**new** – January 2018)
- Java 8 Streams Tutorial (https://www.youtube.com/watch?v=t1-YZ6bF-g0) (**new** – January 2018)
- Stream API in Java 8 (https://www.pixelstech.net/article/1517292329-Stream-API-in-Java-8) (**new** – January 2018)
- Java Stream reduce (http://zetcode.com/java/streamreduce/) (**new** – January 2018)
- Java 8 Streams Map Examples (http://www.novixys.com/blog/java-8-streams-map-examples/) (**new** – January 2018)
- Debugging Java 8 Streams (http://chocksaway.com/code/2018/01/02/Java-8-Lambda-Stream-Debugging.html) (**new** – January 2018)
- Java 8 Convert a Stream to List Example (https://examples.javacodegeeks.com/core-java/java-8-convert-stream-list-example/) (**new** – January 2018)
- Java 8 Streams: allMatch(), anyMatch(), noneMatch() Example (https://examples.javacodegeeks.com/core-java/java-8-streams-allmatch-anymatch-nonematch-example/) (**new** – January 2018)
- Custom thread pool in Java 8 parallel stream (https://questionfocus.com/custom-thread-pool-in-java-8-parallel-stream.html) (**new** – December 2017)
- Java 8 stream reverse order (https://exceptionshub.com/java-8-stream-reverse-order.html) (**new** – December 2017)
- In Java8 – How to Convert Array to Stream using Arrays.stream() and Stream.of() Operations (http://crunchify.com/in-java8-how-to-convert-array-to-stream-using-arrays-stream-and-stream-of-operations/) (**new** – December 2017)
- Java SE 8 New Features Tour: Processing Collections with Streams API (https://www.codeproject.com/Articles/1219746/Java-SE-New-Features-Tour-Processing-Collections) (**new** – December 2017)
- Java 8 Stream API And Its improvements in Java 9 (http://www.oodlestechnologies.com/blogs/Java-8-Stream-API-And-Its-improvements-in-Java-9) (**new** – December 2017)
- Java 8 Stream : Need with examples and Limitations (https://blog.knoldus.com/2017/12/08/java-8-stream-need-with-examples-and-limitations/) (**new** – December 2017)
- Java 8 Stream Distinct Examples (http://javabycode.com/java-8-tutorial/java-8-stream-distinct-examples.html) (**new** – November 2017)
- Java 8 Stream – Java Stream (https://www.journaldev.com/2774/java-8-stream) (**new** – November 2017)
- Java 8 Stream map example (http://codingwithcake.com/java/java-8-stream-map-example/) (**new** – November 2017)
- Java 8 Stream min and max method examples (http://codevscolor.com/2017/11/java-8-min-max/) (**new** – November 2017)
- Java 8 Stream – anyMatch() example (https://beginnersbook.com/2017/11/java-8-stream-anymatch-example/) (**new** – November 2017)
- Java 8 Stream – allMatch() example (https://beginnersbook.com/2017/11/java-8-stream-allmatch-example/) (**new** – November 2017)
- Java 8 Stream – noneMatch() example (https://beginnersbook.com/2017/11/java-8-stream-nonematch-example/) (**new** – November 2017)
- Java8 StringJoiner, String.join() and Collectors.joining() Tutorial with all Details – 5 Different ways (http://crunchify.com/java8-stringjoiner-string-join-and-collectors-joining-tutorial-with-all-details-5-different-ways/) (**new** – November 2017)

- Performance With Java8 Streams (https://dzone.com/articles/performance-with-java-8-streams) (**new** – November 2017)
- Java 8 for Android Development: Stream API and Date & Time Libraries (https://code.tutsplus.com/tutorials/java-8-for-android-development-stream-api-and-date-time-libraries--cms-29904) (**new** – November 2017)
- Merging Multiple Maps Using Java 8 Streams (https://coderwall.com/p/oflatw/merging-multiple-maps-using-java-8-streams) (**new** – November 2017)
- Java8 StringJoiner, String.join() and Collectors.joining() Tutorial with all Details – 5 Different ways (http://crunchify.com/java8-stringjoiner-string-join-and-collectors-joining-tutorial-with-all-details-5-different-ways/) (**new** – November 2017)
- Java 8 features – Stream API advanced examples (https://automationrhapsody.com/java-8-features-stream-api-advanced-examples/) (**new** – October 2017)
- Java 8 features – Stream API explained (https://automationrhapsody.com/java-8-features-stream-api-explained/) (**new** – October 2017)
- Java 8 – Stream Collectors Class with examples (https://beginnersbook.com/2017/10/java-8-stream-collectors-class-with-examples/) (**new** – October 2017)
- Java 8 Stream Filter with examples (https://beginnersbook.com/2017/10/java-8-stream-filter/) (**new** – October 2017)
- Java 8 Stream Map (https://www.java2blog.com/java-8-stream-map/) (**new** – October 2017)
- How to create a Stream in Java 8? (http://nour-it.com/java-8/how-to-create-a-stream-in-java-8/) (**new** – October 2017)
- Controlling parallelism level of Java parallel streams (https://kamilszymanski.github.io/controlling-parallelism-level-of-java-parallel-streams/) (**new** – October 2017)
- Java 8 Streams – Sequential vs Parallel streams (https://www.linkedin.com/pulse/java-8-streams-sequential-vs-parallel-saral-saxena/) (**new** – September 2017)
- Streaming MySQL Results Using Java 8 Streams (https://www.gonwan.com/2017/09/04/streaming-mysql-results-using-java-8-streams/) (**new** – September 2017)
- Java 8 streams – List to Map examples (https://www.javagists.com/java-8-streams-list-to-map-examples) (**new** – September 2017)
- Handling checked exceptions in Java streams (https://www.oreilly.com/ideas/handling-checked-exceptions-in-java-streams) (**new** – September 2017)
- Stream Count Number of Elements Example (https://howtodoinjava.com/java-8/stream-count-elements-example/) (**new** – September 2017)
- Convert IntStream to Collection/Array (https://howtodoinjava.com/java-8/convert-intstream-collection-array/) (**new** – September 2017)
- Java 8 Boxed Stream Example (https://howtodoinjava.com/java-8/java8-boxed-intstream/) (**new** – September 2017)
- Java 8 Stream Distinct Examples (https://howtodoinjava.com/java-8/java-stream-distinct-examples/) (**new** – September 2017)
- Java 8 Streams – Timeout? (https://stackoverflow.com/questions/45432373/java-8-streams-timeout)(August 2017)
- Java.Util.Stream – Stream APIs Basics | Java8 (http://codepumpkin.com/stream-apis-basics/) (July 2017)
- Are Java 8 Streams Truly Lazy? Not Completely! (https://blog.jooq.org/2017/07/03/are-java-8-streams-truly-lazy-not-completely/) (July 2017)
- A Java 8 Streams Cookbook (https://dzone.com/articles/a-java-8-streams-cookbook) (February 2017)
- Java 8: Accumulate the elements of a Stream using Collectors (http://www.deadcoderising.com/2017-02-21-java-8-accumulate-your-streams-using-collectors/) (February 2017)
- An Introduction to Functional Programming in Java 8: Part 3 – Streams (https://flyingbytes.github.io/programming/java8/functional/part3/2017/02/18/Java8-Part3.html) (February 2017)
- Dipping Into Java 8 Streams (https://dzone.com/articles/dipping-into-java-8-streams) (January 2017)
- Understanding Java 8 Streams Operations | Intermediate and Terminal Operations | Tutorial with examples (https://www.javabrahman.com/java-8/understanding-java-8-streams-operations-intermediate-and-terminal-operations-tutorial-with-examples/) (January 2017)
- Java – Read File Line by Line Using Java 8 Streams (http://www.novixys.com/blog/java-read-file-line-using-java-8-streams/) (January 2017)

- How to Filter Distinct Elements from a Collection in Java 8 (https://www.webucator.com/how-to/how-filter-distinct-elements-from-collection-java-8.cfm) (January 2017)
- Java 8 groupingBy Example (http://adambien.blog/roller/abien/entry/java_8_groupingby_example) (January 2017)
- Java 8 Stream (http://www.javatpoint.com/java-8-stream) (January 2017)
- How to Skip Elements with the Skip Method in Java 8 (https://www.webucator.com/how-to/how-skip-elements-with-the-skip-method-java-8.cfm) (January 2017)
- 3 Ways to Convert Java 8 Stream to an Array (http://javarevisited.blogspot.com/2017/01/3-ways-to-convert-java-8-stream-to-array.html) (January 2017)
- Introduction to java 8 stream api (https://www.slideshare.net/Vladislavsidlyarevic/introduction-to-java-8-stream-api) (**Slide**) (January 2017)
- Java 8 – Stream filter() method example (https://www.boraji.com/java-8-stream-filter-method-example) (January 2017)
- Java 8 Stream limit & skip method Example (http://codedestine.com/java-8-stream-limit-skip-method/) (January 2017)
- Java 8 Convert List to Map using Streams API (http://codedestine.com/java-8-convert-list-to-map/) (January 2017)
- Controlling Parallelism of Java 8 Collection Streams (https://www.codementor.io/nitinpuri/controlling-parallelism-of-java-8-collection-streams-umex0qbt1) (January 2017)
- Java 8: An Introduction to Streams (http://www.gravytrain.co.uk/blog/java-8-introduction-streams/) (December 2016)
- Java 8: Converting An Array To A Stream (http://adambien.blog/roller/abien/entry/java_8_converting_an_array) (December 2016)
- Java 8 and Java EE 7: Parallel streams (https://www.lynda.com/Java-tutorials/Java-8-Java-EE-7-Parallel-streams/516591/567026-4.html) (December 2016)
- About the Java 8 Stream API Bug (http://126kr.com/article/5f5nt5aww9u) (December 2016)
- How to Deal with Java 8 Stream API (http://www.ru-rocker.com/2016/12/15/how-to-deal-with-java-8-stream-api/) (December 2016)
- Printing elements of a Stream in Java 8 (http://www.topjavatutorial.com/java-8/printing-elements-of-a-stream-in-java-8/) (December 2016)
- Java 8 Streams : 10 missing features (https://medium.com/@johnmcclean/java-8-streams-10-missing-features-ec82ee90b6c0#.njjf0sqpg) (November 2016)
- Streams in Java 8 (http://www.java-tv.com/2016/11/09/streams-in-java-8/) (November 2016)
- Java 8 – How to 'peek' into a running Stream| Stream.peek method tutorial with examples (http://www.javabrahman.com/java-8/java-8-how-to-peek-into-a-running-stream-peek-method-tutorial-with-examples/) (November 2016)
- Reactor 3.0, a JVM Foundation for Java 8 and Reactive Streams (https://www.infoq.com/presentations/reactor-3-java8) (November 2016)
- How to Read a File line by line using Java 8 Stream – Files.lines() and Files.newBufferedReader() Utils (http://crunchify.com/how-to-read-a-file-line-by-line-using-java-8-stream-files-lines-and-files-newbufferedreader-utils/) (November 2016)
- Distributed Java 8 Streams with Hazelcast JET (https://vimeo.com/192292108) (November 2016)
- Exploring a directory with the Java 8 Stream API (https://dotnetcodr.com/2016/11/06/exploring-a-directory-with-the-java-8-stream-api-2/) (November 2016)
- Java 8 Streams – Reduction (http://www.logicbig.com/tutorials/core-java-tutorial/java-util-stream/reduction/) (November 2016)
- Java 8 Stream Grouping (http://www.technicalkeeda.com/java-8-tutorials/java-8-stream-grouping) (November 2016)
- PowerMock and Java8 Streams (http://126kr.com/article/6cbtqjena6y) (November 2016)
- Functional Programming in Java 8 (with Lambdas and Streams) (https://confengine.com/functional-conf-2016/proposal/2684/functional-programming-in-java-8-with-lambdas-and-streams) (**Slide**) (November 2016)
- Java 8: Lambda Expressions and Streams (https://www.safaribooksonline.com/library/view/java-8-lambda/9780133750867/part47.html) (November 2016)
- Using JDK 8 Streams to Convert Between Collections of Wrapped Objects and (https://dzone.com/articles/using-jdk-8-streams-convert)(October 2016)
- Collections of Wrapper Objects (https://dzone.com/articles/using-jdk-8-streams-convert) (October 2016)

- Introduction to Java 8 Streams (https://dzone.com/articles/introduction-to-java-8-streams) (October 2016)
- Grouping using Java 8 streams (https://marcin-chwedczuk.github.io/grouping-using-java-8-streams) (October 2016)
- Java 8 Stream filter() Example (http://www.concretepage.com/java/jdk-8/java-8-stream-filter-example) (October 2016)
- Java 8 Stream flatMap (http://www.topjavatutorial.com/java-8/java-8-stream-flatmap/) (October 2016)
- Java 8 Streams (http://javasampleapproach.com/java/java-8-streams#more-1813) (October 2016)
- Distributed Java 8 Streams with Hazelcast JET (https://www.meetup.com/seajug/events/235099219/) (October 2016)
- Java 8 Streams – Ordering (http://www.logicbig.com/tutorials/core-java-tutorial/java-util-stream/ordering/) (October 2016)
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JEP (http://openjdk.java.net/jeps/109) | Mailing List (mailto:core-libs-dev@openjdk.java.net) | JSR (https://jcp.org/en/jsr/detail?id=335)

Oracle/Official Resources

- Official Tutorial – Lambda Expressions (http://docs.oracle.com/javase/tutorial/java/javaOO/lambdaexpressions.html)
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JEP (http://openjdk.java.net/jeps/126) | Mailing List (mailto:lambda-dev@openjdk.java.net) | JSR (https://www.jcp.org/en/jsr/proposalDetails?id=335) | Project (http://openjdk.java.net/projects/lambda/)

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JEP (http://openjdk.java.net/jeps/160) | Mailing List (mailto:mlvm-dev@openjdk.java.net)

General Lambda Resources

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- Using Java 8 Lambdas Efficiently (https://www.beyondjava.net/blog/using-java-8-lambdas-efficiently/) (**new** – January 2018)
- Programming with Java 8 Lambdas and Streams (https://www.safaribooksonline.com/live-training/courses/programming-with-java-8-lambdas-and-streams/0636920132677/) (**new** – January 2018)
- Creating Stubs Using Java 8 Lambdas (https://dzone.com/articles/to-mock-to-stub-or-to-lambda) (**new** – January 2018)
- Java Programming Java Tutorial Java 8 Lambda Expressions | java tutorial | learn java (http://www.codingmods.com/java-programming-java-tutorial-java-8-lambda-expressions-java-tutorial-learn-java/) **(new** – January 2018)
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- Java 8 Lambdas vs Anonymous Classes (https://www.linkedin.com/pulse/java-8-lambdas-vs-anonymous-classes-saral-saxena/) (**new** – October 2017)

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- Java 8 : How to sort a List using Stream or Lambda Expression (http://www.topjavatutorial.com/java-8/java-8-sort-list-using-stream-lambda-expression/) (August 2017)
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- Java 8 Friday Goodies: Lean Concurrency (http://blog.jooq.org/2014/03/14/java-8-friday-goodies-lean-concurrency/) (March 2014)
- Simplifying ReadWriteLock with Java 8 and lambdas (http://www.nurkiewicz.com/2014/03/simplifying-readwritelock-with-java-8.html) (March 2014)
- How to avoid ruining your world with lambdas in Java 8 (http://zeroturnaround.com/rebellabs/how-to-avoid-ruining-your-world-with-lambdas-in-java-8/) (March 2014)
- Java 8, Haskell, FP and Monoids (https://sites.google.com/a/athaydes.com/renato-athaydes/posts/java8haskellfpandmonoids) (March 2014)
- Java 8 Friday Goodies: Easy-as-Pie Local Caching (http://blog.jooq.org/2014/02/28/java-8-friday-goodies-easy-as-pie-local-caching/) (Feb 2014)
- Java 8 Friday Goodies: Local Transaction Scope (http://blog.jooq.org/2014/02/21/java-8-friday-goodies-local-transaction-scope/) (Feb 2014)
- Java 8: Sorting values in collections (http://www.markhneedham.com/blog/2014/02/23/java-8-sorting-values-in-collections/) (Feb 2014)
- Lazy loading in Java 8! (http://technicalitee.blogspot.in/2014/02/lazy-loading-in-java-8.html) (Feb 2014)
- 10 Example of Lambda Expressions and Streams in Java 8 (http://javarevisited.blogspot.com/2014/02/10-example-of-lambda-expressions-in-java8.html) (Feb 2014)
- Java 8: Lambda Expressions vs Auto udseable (http://www.markhneedham.com/blog/2014/02/26/java-8-lambda-expressions-vs-auto-closeable/) (Feb 2014)
- Java 8 Friday Goodies: Map Enhancements (http://blog.jooq.org/2014/02/14/java-8-friday-goodies-map-enhancements/) (Feb 2014)
- Java 8 Friday Goodies: Lambdas and SQL (http://blog.jooq.org/2014/02/07/java-8-friday-goodies-lambdas-and-sql/) (Feb 2014)
- Java 8's Lambda expressions (http://marioosh.5dots.pl/2014/02/10/java-8s-lambda-expressions.html) (Feb 2014)
- Java 8 Lambda Expressions Tutorial with Examples (http://viralpatel.net/blogs/lambda-expressions-java-tutorial/) (Jan 2014)
- Java 8 Friday Goodies: Lambdas and Sorting (http://blog.jooq.org/2014/01/31/java-8-friday-goodies-lambdas-and-sorting/) (Jan 2014)
- Java 8 Friday Goodies: The New New I/O APIs (http://blog.jooq.org/2014/01/24/java-8-friday-goodies-the-new-new-io-apis/) (Jan 2014)
- Java 8 Friday Goodies: Lambdas and XML (http://blog.jooq.org/2014/01/17/java-8-friday-goodies-lambdas-and-xml/) (Jan 2014)
- Java 8 Friday Goodies: java.io finally rocks! (http://blog.jooq.org/2014/01/10/java-8-friday-goodies-java-io-finally-rocks/) (Jan 2014)
- Compiling Lambda Expressions: Scala vs. Java 8 (http://www.takipiblog.com/2014/01/16/compiling-lambda-expressions-scala-vs-java-8/) (Jan 2014)

- Builder pattern using Java 8 (http://dotneverland.blogspot.com/2014/01/builder-pattern-using-java-8.html) (Jan 2014)

— 2013 —

- :: (double colon) operator in Java 8 (http://stackoverflow.com/questions/20001427/double-colon-operator-in-java-8) (Nov 2013)
- Java 8 first steps with Lambdas and Streams (https://blog.codecentric.de/en/2013/10/java-8-first-steps-lambdas-streams/) (Oct 2013)
- Java 8 Revealed: Lambdas, Default Methods and Bulk Data Operations (http://zeroturnaround.com/rebellabs/java-8-revealed-lambdas-default-methods-and-bulk-data-operations/) (June 2013)
- Maurice Naftalin's Lambda FAQ (http://www.lambdafaq.org/)
- Manning – Java 8 Lambdas in Action (http://www.manning.com/urma/) (**book**)

— Language (core/lang) —

104 – Annotations on Java Types

JEP (http://openjdk.java.net/jeps/104) | Mailing List (mailto:type-annotations-dev@openjdk.java.net) | Project (http://openjdk.java.net/projects/type-annotations/) | JSR (https://jcp.org/en/jsr/detail?id=308)

Oracle/Official Resources

- Type Annotations (JSR 308) and the Checker Framework (http://types.cs.washington.edu/jsr308/)
- Type annotations FAQ (http://types.cs.washington.edu/jsr308/current/jsr308-faq.html)
- JSR 308 Google Group (https://groups.google.com/forum/#!forum/jsr308-discuss)
- Official Tutorial – Type Annotations and Pluggable Type Systems (http://docs.oracle.com/javase/tutorial/java/annotations/type_annotations.html)

Resources

- JSR 308 Explained: Java Type Annotations (http://jaxenter.com/jsr-308-explained-java-type-annotations-49929.html) (April 2014)
- Java 8 Type Annotations (http://www.mscharhag.com/2014/02/java-8-type-annotations.html) (Feb 2014)
- Annotation Features in JDK 8 (http://types.cs.washington.edu/jsr308/) (**video**) (Dec 2012)
- Eclipse Support for JSR 308 – Open Issue (https://bugs.eclipse.org/bugs/show_bug.cgi?id=287648) (2009-2013)
- When Should You Jump? JSR 308. That's When. (http://java.dzone.com/articles/when-should-you-jump-jsr-308-t) (2008)

105 – DocTree API

JEP (http://openjdk.java.net/jeps/105) | Mailing List (mailto:compiler-dev@openjdk.java.net)

106 – Add Javadoc to javax.tools

JEP (http://openjdk.java.net/jeps/106) | Mailing List (mailto:compiler-dev@openjdk.java.net) | JSR (https://jcp.org/en/jsr/detail?id=199)

117 – Remove the Annotation-Processing Tool (apt)

JEP (http://openjdk.java.net/jeps/117) | Mailing List (mailto:compiler-dev@openjdk.java.net) | JSR (https://jcp.org/en/jsr/detail?id=269)

Resources

- An apt ending draws nigh (https://blogs.oracle.com/darcy/entry/apt_ending#) (Dec 2011)

118 – Access to Parameter Names at Runtime

JEP (http://openjdk.java.net/jeps/118) | Mailing List (mailto:enhanced-metadata-spec-discuss@openjdk.java.net) | JSR (https://jcp.org/en/jsr/detail?id=269)

Resources

- Eclipse Support for JEP 118 – Fixed Issue (https://bugs.eclipse.org/bugs/show_bug.cgi?id=406966) (2013)

120 – Repeating Annotations

JEP (http://openjdk.java.net/jeps/120) | Mailing List (mailto:enhanced-metadata-spec-discuss@openjdk.java.net) | JSR (https://jcp.org/en/jsr/detail?id=269) | JDK Bug (http://bugs.java.com/bugdatabase/view_bug.do?bug_id=7151010)

Oracle/Official Resources

- Official Tutorial (http://docs.oracle.com/javase/tutorial/java/annotations/repeating.html)
- Eclipse Support for JEP 120 – Fixed Issue (https://bugs.eclipse.org/bugs/show_bug.cgi?id=407864) (2013)
- Repeating annotations in the works (https://blogs.oracle.com/darcy/entry/repeating_annotations_in_the_works) (Mar 2012)

Resources

- JavaOne Monday: Enhanced Java SE 8 Metadata (http://patrikvarga.blogspot.com/2013/09/javaone-monday-enhanced-java-se-8.html) (Sept 2013)
- Subtle Changes in Java 8: Repeatable Annotations (http://blog.jooq.org/2013/05/10/subtle-changes-in-java-8-repeatable-annotations/) (May 2013)
- Annotation Features in JDK 8 (http://parleys.com/play/5148922b0364bc17fc56c953/chapter0/about) (**video**) (Dec 2012)
- Java 8 Features: Discover Repeating Annotations (http://blog.functr.com/2012/09/java-8-features-discover-repeating.html) (Sept 2012)

139 – Enhance javac to Improve Build Speed

JEP (http://openjdk.java.net/jeps/139) | Mailing List (mailto:compiler-dev@openjdk.java.net)

Oracle/Official Resources

- Part of JEP 138 – Autoconf-Based Build System (http://openjdk.java.net/jeps/138)
- OpenJDK – Compilation Overview (http://openjdk.java.net/groups/compiler/doc/compilation-overview/index.html)

Resources

- sjavac: Smart javac wrapper (http://openjdk.java.net/jeps/138) (2013)

172 – DocLint

JEP (http://openjdk.java.net/jeps/172) | Mailing List (mailto:javadoc-dev@openjdk.java.net)

Resources

~~182 – Policy for Retiring javac *-source* and *-target* Options (DROPPED)~~

JEP (http://openjdk.java.net/jeps/182) | Mailing List (mailto:discuss@openjdk.java.net)

Oracle/Official Resources

- Changing Sources and Moving Targets: Evolving the javac command line (https://blogs.oracle.com/darcy/entry/changing_sources_moving_targets)

— Libraries (core/libs) —

102 – Process API Updates

JEP (http://openjdk.java.net/jeps/102) | Mailing List (mailto:core-libs-dev@openjdk.java.net)

103 – Parallel Array Sorting

JEP (http://openjdk.java.net/jeps/103) | Mailing List (mailto:core-libs-dev@openjdk.java.net) | JSR (https://www.jcp.org/en/jsr/detail?id=166) | JDK Bug (http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=8003981)

Resources

- Java 8 Parallel Arrays Example (http://examples.javacodegeeks.com/core-java/util/concurrent/java-8-parallel-arrays-example/) (August 2014)

- New Parallelism APIs in Java 8: Behind The Glitz and Glamour (http://www.takipiblog.com/2014/04/03/new-parallelism-apis-in-java-8-behind-the-glitz-and-glamour/) (April 2014)
- Java 8 – Parallel Array Sorting (http://vaskoz.wordpress.com/2013/07/21/java-8-parallel-array-sorting/) (July 2013)
- *Arrays.sort* versus *Arrays.parallelSort* (http://blog.sanaulla.info/2013/04/08/arrays-sort-versus-arrays-parallelsort/) (April 2013)
- On StackOverflow – Difference between *Arrays.sort()* and *Arrays.parallelSort()* (http://stackoverflow.com/questions/17328077/difference-between-arrays-sort-and-arrays-parallelsort) (Jun 2013)

~~108 – Collections Enhancements from Third-Party Libraries (DROPPED)~~

JEP (http://openjdk.java.net/jeps/108) | Mailing List (mailto:core-libs-dev@openjdk.java.net)

~~111 – Additional Unicode Constructs for Regular Expressions (DROPPED)~~

JEP (http://openjdk.java.net/jeps/111) | Mailing List (mailto:core-libs-dev@openjdk.java.net)

112 – Charset Implementation Improvements

JEP (http://openjdk.java.net/jeps/112) | Mailing List (mailto:core-libs-dev@openjdk.java.net)

119 – *javax.lang.model* Implementation Backed by Core Reflection

JEP (http://openjdk.java.net/jeps/119) | Mailing List (mailto:compiler-dev@openjdk.java.net) | JDK Bug (http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=8004133)

Oracle/Official Resources

- *javax.lang.model* backed by core reflection (https://blogs.oracle.com/darcy/entry/core_backed_lang_model)

135 – Base64 Encoding & Decoding

JEP (http://openjdk.java.net/jeps/135) | Mailing List (mailto:core-libs-dev@openjdk.java.net)

Resources

- Base64 Encoding in Java 8 (http://blog.eyallupu.com/2013/11/base64-encoding-in-java-8.html) (Nov 2013)
- Base64 encoding and decoding performance (http://java-performance.info/base64-encoding-and-decoding-performance/) (Dec 2013)

149 – Reduce Core-Library Memory Usage

JEP (http://openjdk.java.net/jeps/149) | Mailing List (mailto:core-libs-dev@openjdk.java.net)

150 – Date & Time API

JEP (http://openjdk.java.net/jeps/150) | Mailing List (mailto:core-libs-dev@openjdk.java.net) | Project (http://openjdk.java.net/projects/threeten/) | JSR (https://jcp.org/en/jsr/detail?id=310)

Oracle/Official Resources

- Java SE 8 Date and Time (http://www.oracle.com/technetwork/articles/java/jf14-date-time-2125367.html)
- Official Tutorial – Date-Time API (http://docs.oracle.com/javase/tutorial/datetime/)
- JavaOne 2013: JDK 8 Date and Time APIs (https://blogs.oracle.com/thejavatutorials/entry/javaone_2013_jdk_8_date)
- Previous Project Homepage on Github (https://github.com/ThreeTen/threeten)

Resources

- Java 8 – 20 Examples of Date and Time API (http://javarevisited.blogspot.ro/2015/03/20-examples-of-date-and-time-api-from-Java8.html) (March 2015)
- Date and Time API in Java 8 (http://www.smissltd.com/blog/date-and-time-api-java-8) (**new**)
- Java 8 Date Time API Example Tutorial – LocalDate, Instant, LocalDateTime, Parse and Format (http://www.journaldev.com/2800/java-8-date-time-api-example-tutorial-localdate-instant-localdatetime-parse-and-format) (April 2014)
- What's new in Java 8 – Date API (http://codingjunkie.net/java-8-dates-part1/) (March 2014)

- A deeper look into the Java 8 Date and Time API (http://www.mscharhag.com/2014/02/java-8-datetime-api.html) (Feb 2014)
- The new JDK 1.8 Date and Time API – JSR-310 (http://vimeo.com/87157763) (**video**) (Feb 2014)
- JSR 310 – Java 8 Date/Time library performance (as well as Joda Time 2.3 and j.u.Calendar) (http://java-performance.info/jsr-310-java-8-datetime-library-performance-well-joda-time-2-3-j-u-calendar/) (Feb 2014)
- It's About Time (https://blog.codecentric.de/en/2014/01/time/) (Jan 2014)
- Java 8 Date Time: Happy Martin Luther King Day (http://javajimlondon.blogspot.com/2014/01/java-8-date-time-happy-martin-luther.html) (Jan 2014)
- Java 8 Date and Time API with Jim Gough (http://nighthacking.com/java-8-date-and-time-api-with-jim-gough/) (**video**) (Jan 2014)
- Introduction to JSR 310 Part 3 : Overview of new Java Date and Time API (http://java.amitph.com/2014/01/introduction-to-jsr-310-part-3-overview_25.html) (Jan 2014)
- Java 8 APIs: java.util.time – Instant, LocalDate, LocalTime, and LocalDateTime (http://blog.eyallupu.com/2013/07/java-8-apis-javautiltime-instant.html) (July 2013)
- Date and Time API changes in Java 8 (http://docs.oracle.com/javase/tutorial/datetime/) (Lambda) (May 2013)
- Introduction to JSR 310 Part 2 : Overview of Joda Time API (http://java.amitph.com/2013/04/introduction-to-jsr-310-part-2-overview.html) (April 2013)
- Articles about ThreeTen (http://threeten.github.io/articles/index.html) (2013)
- A new Date and Time API for JDK 8 (http://docs.oracle.com/javase/tutorial/datetime/) (Sept 2012)

~~151 – Compress Time-Zone Data~~ ~~(Superseded by JEP 150)~~

JEP (http://openjdk.java.net/jeps/151) | Mailing List (mailto:i18n-dev@openjdk.java.net)

~~154 – Remove Serialization~~ ~~(Withdrawn)~~

JEP (http://openjdk.java.net/jeps/154) | Mailing List (mailto:core-libs-dev@openjdk.java.net)

155 – Concurrency Updates

JEP (http://openjdk.java.net/jeps/155) | Mailing List (mailto:core-libs-dev@openjdk.java.net) | JSR (https://www.jcp.org/en/jsr/detail?id=166)

Oracle/Official Resources

- Official Tutorial – Fork/Join (http://docs.oracle.com/javase/tutorial/essential/concurrency/forkjoin.html)
- Concurrency JSR-166 Interest Site (http://gee.cs.oswego.edu/dl/concurrency-interest/index.html)

Resources

- Java 8 Concurrency Tutorial: Atomic Variables and ConcurrentMap (http://winterbe.com/posts/2015/05/22/java8-concurrency-tutorial-atomic-concurrent-map-examples/) (May 2015)
- Java 8 Concurrency Tutorial: Synchronization and Locks (http://winterbe.com/posts/2015/04/30/java8-concurrency-tutorial-synchronized-locks-examples/) (April 2015)
- Java 8 Concurrency Tutorial: Threads and Executors (http://winterbe.com/posts/2015/04/07/java8-concurrency-tutorial-thread-executor-examples/) (April 2015)
- Java 8 StampedLocks vs. ReadWriteLocks and Synchronized (http://www.takipiblog.com/2014/05/30/java-8-stampedlocks-vs-readwritelocks-and-synchronized/) (May 2014)
- JVM concurrency: Java 8 concurrency basics (http://www.ibm.com/developerworks/java/library/j-jvmc2/index.html) (April 2014)
- Is Java 8 the fastest JVM ever? Performance benchmarking of Fork-Join (http://zeroturnaround.com/rebellabs/is-java-8-the-fastest-jvm-ever-performance-benchmarking-of-fork-join/) (March 2014)
- Java 8 Part 4 – Concurrency, TLS SNI, and PermGen (https://blog.credera.com/technology-insights/java/java-8-part-4-concurrency-tls-sni-permgen/) (Dec 2013)
- Java 8 Concurrency: *LongAdder* (http://minddotout.wordpress.com/2013/05/11/java-8-concurrency-longadder/) (May 2013)
- JDK 8 backported ConcurrentHashMaps in Infinispan (http://blog.infinispan.org/2012/03/jdk-8-backported-concurrenthashmaps-in.html) (March 2012)

170 – JDBC 4.2

JEP (http://openjdk.java.net/jeps/170) | Mailing List (mailto:jdbc-spec-discuss@openjdk.java.net) | JSR (https://jcp.org/en/jsr/detail?id=114), JSR (https://jcp.org/en/jsr/detail?id=221)

177 – Optimize *java.text.DecimalFormat.format*

JEP (http://openjdk.java.net/jeps/177) | Mailing List (mailto:core-libs-dev@openjdk.java.net) | JDK Bug (http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=7050528)

178 – Statically-Linked JNI Libraries

JEP (http://openjdk.java.net/jeps/178) | Mailing List (mailto:jdk8-dev@openjdk.java.net)

Resources

- Java 8 gets tougher security and statically-linked JNI libraries (http://jaxenter.com/java-8-gets-tougher-security-and-statically-linked-jni-libraries-46881.html) (May 2013)

180 – Handle Frequent HashMap Collisions with Balanced Trees

JEP (http://openjdk.java.net/jeps/180) | Mailing List (mailto:core-libs-dev@openjdk.java.net) | JDK Bug (http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=8005698)

Oracle/Official Resources

- OpenJDK Discussion Thread (http://mail.openjdk.java.net/pipermail/core-libs-dev/2013-May/016937.html)

— Networking (core/net) —

~~125 – Network Interface Aliases, Events, and Defaults (DROPPED)~~

JEP (http://openjdk.java.net/jeps/125) | Mailing List (mailto:net-dev@openjdk.java.net)

168 – Network Discovery of Manageable Java Processes

JEP (http://openjdk.java.net/jeps/168) | Mailing List (mailto:serviceability-dev@openjdk.java.net)

~~183 – HTTP Cross-Origin Resource Sharing (DROPPED)~~

JEP (http://openjdk.java.net/jeps/183) | Mailing List (mailto:net-dev@openjdk.java.net)

184 – HTTP URL Permissions

JEP (http://openjdk.java.net/jeps/184) | Mailing List (mailto:net-dev@openjdk.java.net)

— Security (core/sec) —

113 – MS-SFU Kerberos 5 Extensions

JEP (http://openjdk.java.net/jeps/113) | Mailing List (mailto:security-dev@openjdk.java.net)

Oracle/Official Resources

- [MS-SFU]: Kerberos Protocol Extensions: Service for User and Constrained Delegation Protocol (http://msdn.microsoft.com/en-us/library/cc246071.aspx)
- Java Generic Security Services and Kerberos (http://docs.oracle.com/javase/8/docs/technotes/guides/security/jgss/jgss-features.html)

114 – TLS Server Name Indication (SNI) Extension

JEP (http://openjdk.java.net/jeps/114) | Mailing List (mailto:security-dev@openjdk.java.net) | JDK Bug (http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=7068321)

Oracle/Official Resources

- JDK 8 Security Enhancements (http://docs.oracle.com/javase/8/docs/technotes/guides/security/enhancements-8.html)

- Server Name Indication (SNI) Extension section in the *JSSE Reference Guide* (http://docs.oracle.com/javase/8/docs/technotes/guides/security/jsse/JSSERefGuide.html#SNIExtension)
- The *javax.net.ssl* JavaDoc (http://docs.oracle.com/javase/8/docs/api/javax/net/ssl/package-summary.html)

115 – AEAD CipherSuites

JEP (http://openjdk.java.net/jeps/115) | Mailing List (mailto:security-dev@openjdk.java.net)

116 – Extended Validation Certificates

JEP (http://openjdk.java.net/jeps/116) | Mailing List (mailto:security-dev@openjdk.java.net)

121 – Stronger Algorithms for Password-Based Encryption

JEP (http://openjdk.java.net/jeps/121) | Mailing List (mailto:security-dev@openjdk.java.net) | JDK Bug (http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=6383200)

Oracle/Official Resources

- JDK 8 Security Enhancements (http://docs.oracle.com/javase/8/docs/technotes/guides/security/enhancements-8.html)
- Java Cryptography Architecture Oracle Providers Documentation for JDK 8 (http://docs.oracle.com/javase/8/docs/technotes/guides/security/SunProviders.html)

123 – Configurable Secure Random-Number Generation

JEP (http://openjdk.java.net/jeps/123) | Mailing List (mailto:security-dev@openjdk.java.net)

124 – Enhance the Certificate Revocation-Checking API

JEP (http://openjdk.java.net/jeps/124) | Mailing List (mailto:security-dev@openjdk.java.net) | JDK Bug (http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=6854712)

Oracle/Official Resources

- JDK 8 Security Enhancements (http://docs.oracle.com/javase/8/docs/technotes/guides/security/enhancements-8.html)
- JEP 124: Enhance the Certificate Revocation-Checking API (https://blogs.oracle.com/mullan/entry/jep_124_enhance_the_certificate)
- JEP 124 Review – Official ReadMe (http://cr.openjdk.java.net/~mullan/jeps/124/api/draft.03/README.html)
- Java PKI Programmer's Guide – the new *PKIXRevocationChecker* (http://docs.oracle.com/javase/8/docs/technotes/guides/security/certpath/CertPathProgGuide.html#PKIXRevocationChecker)

129 – NSA Suite B Cryptographic Algorithms

JEP (http://openjdk.java.net/jeps/129) | Mailing List (mailto:security-dev@openjdk.java.net) | JDK Bug (http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=7044060)

Oracle/Official Resources

- NSA Suite B Cryptography (http://en.wikipedia.org/wiki/NSA_Suite_B_Cryptography)
- Java Cryptography Architecture – Standard Algorithm Name Documentation for JDK 8 (http://docs.oracle.com/javase/8/docs/technotes/guides/security/StandardNames.html)
- Java Cryptography Architecture – Oracle Providers Documentation for JDK 8 (http://docs.oracle.com/javase/8/docs/technotes/guides/security/SunProviders.html)

130 – SHA-224 Message Digests

JEP (http://openjdk.java.net/jeps/130) | Mailing List (mailto:security-dev@openjdk.java.net) | JDK Bug (http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=4963723)

Oracle/Official Resources

- JDK 8 Security Enhancements (http://docs.oracle.com/javase/8/docs/technotes/guides/security/enhancements-8.html)

- JDK 8 PKCS#11 Reference Guide
  (http://docs.oracle.com/javase/8/docs/technotes/guides/security/p11guide.html)

131 – PKCS#11 Crypto Provider for 64-bit Windows

JEP (http://openjdk.java.net/jeps/131) | Mailing List (mailto:security-dev@openjdk.java.net) | JDK Bug
(http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=6880559)

Oracle/Official Resources

- JDK 8 Security Enhancements
  (http://docs.oracle.com/javase/8/docs/technotes/guides/security/enhancements-8.html)
- JEP 131: PKCS#11 Crypto Provider for 64-bit Windows
  (https://blogs.oracle.com/mullan/entry/jep_131_pkcs_11_crypto)

140 – Limited *doPrivileged*

JEP (http://openjdk.java.net/jeps/140) | Mailing List (mailto:security-dev@openjdk.java.net) | JDK Bug
(http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=8014097)

152 – Crypto Operations with Network HSMs

JEP (http://openjdk.java.net/jeps/152) | Mailing List (mailto:security-dev@openjdk.java.net)

166 – Overhaul JKS-JCEKS-PKCS12 Keystores

JEP (http://openjdk.java.net/jeps/166) | Mailing List (mailto:security-dev@openjdk.java.net)

General Security Resources

Oracle/Official Security Resources

- JDK 8 will use TLS 1.2 as default (https://blogs.oracle.com/java-platform-group/entry/java_8_will_use_tls) (Jan
  2014)
- JDK 8 Security Enhancements
  (http://docs.oracle.com/javase/8/docs/technotes/guides/security/enhancements-8.html)
- Java Cryptography Architecture – Standard Algorithm Name Documentation for JDK 8
  (http://docs.oracle.com/javase/8/docs/technotes/guides/security/StandardNames.html)
- Java Cryptography Architecture – Oracle Providers Documentation for JDK 8
  (http://docs.oracle.com/javase/8/docs/technotes/guides/security/SunProviders.html)
- JDK 8 PKCS#11 Reference Guide
  (http://docs.oracle.com/javase/8/docs/technotes/guides/security/p11guide.html)
- Secure Coding Guidelines for the Java Programming Language, Version 4.0
  (http://www.oracle.com/technetwork/java/seccodeguide-139067.html#references)

Security Resources

- Significant SSL/TLS improvements in Java 8 (http://blog.ivanristic.com/2014/03/ssl-tls-improvements-in-java-
  8.html) (March 2014)

— JVM – Garbage Collection (vm/gc) —

122 – Remove the Permanent Generation

JEP (http://openjdk.java.net/jeps/122) | Mailing List (mailto:hotspot-dev@openjdk.java.net)

Oracle/Official Resources

- Java Platform, Standard Edition HotSpot Virtual Machine Garbage Collection Tuning Guide
  (http://docs.oracle.com/javase/8/docs/technotes/guides/vm/gctuning/)
- OpenJDK Discussion Thread – PermGen Elimination project is promoting
  (http://mail.openjdk.java.net/pipermail/hotspot-dev/2012-September/006679.html)

Resources

- Will Java 8 Solve PermGen OutOfMemoryError? (http://www.infoq.com/news/2013/03/java-8-permgen-metaspace) (March 2013)
- Java 8: From PermGen to Metaspace (http://javaeesupportpatterns.blogspot.ie/2013/02/java-8-from-permgen-to-metaspace.html) (Jan 2013)

~~132 – More-prompt finalization (DROPPED)~~

JEP (http://openjdk.java.net/jeps/132) | Mailing List (mailto:hotspot-dev@openjdk.java.net)

Oracle/Official Resources

- OpenJDK Discussion Thread (http://mail.openjdk.java.net/pipermail/hotspot-dev/2011-December/004885.html)

~~134 – Intuitive Semantics for Nested Reference Objects (DROPPED)~~

JEP (http://openjdk.java.net/jeps/134) | Mailing List (mailto:hotspot-dev@openjdk.java.net)

~~141 – Increase the Client VM's Default Heap Size (DROPPED)~~

JEP (http://openjdk.java.net/jeps/141) | Mailing List (mailto:hotspot-gc-dev@openjdk.java.net)

~~144 – Reduce GC Latency for Large Heaps (DROPPED)~~

JEP (http://openjdk.java.net/jeps/144) | Mailing List (mailto:hotspot-gc-dev@openjdk.java.net)

Resources

- OpenJDK Discussion Thread (http://mail.openjdk.java.net/pipermail/hotspot-gc-dev/2012-February/004111.html)

~~156 – G1 GC: Reduce need for full GCs (DROPPED)~~

JEP (http://openjdk.java.net/jeps/156) | Mailing List (mailto:hotspot-gc-dev@openjdk.java.net)

~~157 – G1 GC: NUMA-Aware Allocation (DROPPED)~~

JEP (http://openjdk.java.net/jeps/157) | Mailing List (mailto:hotspot-gc-dev@openjdk.java.net)

163 – Enable NUMA Mode by Default When Appropriate

JEP (http://openjdk.java.net/jeps/163) | Mailing List (mailto:hotspot-gc-dev@openjdk.java.net)

173 – Retire Some Rarely-Used GC Combinations

JEP (http://openjdk.java.net/jeps/173) | Mailing List (mailto:hotspot-gc-dev@openjdk.java.net)

Oracle/Official Resources

- OpenJDK Discussion Thread (http://mail.openjdk.java.net/pipermail/hotspot-gc-dev/2012-December/005361.html)

General Garbage Collection Resources

- Garbage Collectors – Serial vs. Parallel vs. CMS vs. G1 (and what's new in Java 8) (http://www.takipiblog.com/garbage-collectors-serial-vs-parallel-vs-cms-vs-the-g1-and-whats-new-in-java-8/) (Sept 2014)
- Garbage Collection Optimization for High-Throughput and Low-Latency Java Applications (https://engineering.linkedin.com/garbage-collection/garbage-collection-optimization-high-throughput-and-low-latency-java-applications) (July 2014)
- Java 8 Garbage Collectors (http://vaskoz.wordpress.com/2013/08/23/java-8-garbage-collectors/) (Aug 2013)

— JVM – Real Time (vm/rt) —

136 – Enhanced Verification Errors

JEP (http://openjdk.java.net/jeps/136) | Mailing List (mailto:hotspot-runtime-dev@openjdk.java.net)

~~143 – Improve Contended Locking (DROPPED)~~

JEP (http://openjdk.java.net/jeps/143) | Mailing List (mailto:hotspot-runtime-dev@openjdk.java.net)

147 – Reduce Class Metadata Footprint

JEP (http://openjdk.java.net/jeps/147) | Mailing List (mailto:hotspot-runtime-dev@openjdk.java.net)

148 – Small VM

JEP (http://openjdk.java.net/jeps/148) | Mailing List (mailto:hotspot-dev@openjdk.java.net)

171 – Fence Intrinsics

JEP (http://openjdk.java.net/jeps/171) | Mailing List (mailto:hotspot-dev@openjdk.java.net)

Oracle/Official Resources

- OpenJDK Discussion Thread (http://mail.openjdk.java.net/pipermail/hotspot-dev/2012-December/007483.html)

~~181 – Align JVM Checks with Java Language Rules for Nested Classes (DROPPED)~~

JEP (http://openjdk.java.net/jeps/181) | Mailing List (mailto:hotspot-dev@openjdk.java.net)

— JVM (vm/–) —

142 – Reduce Cache Contention on Specified Fields

JEP (http://openjdk.java.net/jeps/142) | Mailing List (mailto:hotspot-dev@openjdk.java.net)

~~145 – Cache Compiled Code (DROPPED)~~

~~JEP~~ | Mailing List (mailto:hotspot-dev@openjdk.java.net)

Resources

- On StackOverflow – Why doesn't the JVM cache JIT compiled code? (http://stackoverflow.com/questions/1992486/why-doesnt-the-jvm-cache-jit-compiled-code) (2010)

~~146 – Improve Fatal Error Logs (DROPPED)~~

JEP (http://openjdk.java.net/jeps/146) | Mailing List (mailto:hotspot-dev@openjdk.java.net)

~~169 – Value Objects (DROPPED)~~

JEP (http://openjdk.java.net/jeps/169) | Mailing List (mailto:mlvm-dev@openjdk.java.net)

Oracle/Official Resources

- larval objects in the VM (https://blogs.oracle.com/jrose/entry/larval_objects_in_the_vm)
- value types in the vm (https://blogs.oracle.com/jrose/entry/value_types_in_the_vm)
- Project Readme – Infrastructure for immutable objects, in support of value types (http://hg.openjdk.java.net/mlvm/mlvm/hotspot/raw-file/tip/value-obj-8001111.txt)

Resources

- Keynote: The Value of Values (http://www.infoq.com/presentations/Value-Values) (Aug 2012)

— Core (–/–) —

138 – Autoconf-Based Build System

JEP (http://openjdk.java.net/jeps/138) | Mailing List (mailto:jdk8-dev@openjdk.java.net)

161 – Compact Profiles

JEP (http://openjdk.java.net/jeps/161) | Mailing List (mailto:jdk8-dev@openjdk.java.net)

Oracle/Official Resources

- An Introduction to Java 8 Compact Profiles (https://blogs.oracle.com/jtc/entry/a_first_look_at_compact)
- Compact Profiles Demonstrated (https://blogs.oracle.com/jtc/entry/compact_profiles_demonstrated)
- Java SE 8 – Early Draft Review Specification – Profiles (http://cr.openjdk.java.net/~mr/se/8/java-se-8-edr-spec.html#profiles)

Resources

- JDK 8 Compact Profiles for Embedded and Oracle ADF Mobile on iOS Devices (http://parleys.com/play/52552052e4b0a43ac12124d5) (**video**) (Dec 2013)

162 – Prepare for Modularization

JEP (http://openjdk.java.net/jeps/162) | Mailing List (mailto:jigsaw-dev@openjdk.java.net) | Project (http://openjdk.java.net/projects/jigsaw/)

Oracle/Official Resources

- Project Jigsaw: Late for the train (http://mreinhold.org/blog/late-for-the-train)

Resources

- Jigsaw, Second Cut (http://www.infoq.com/news/2013/08/jigseen-it-before) (Aug 2013)

164 – Leverage CPU Instructions for AES Cryptography

JEP (http://openjdk.java.net/jeps/164) | Mailing List (mailto:hotspot-compiler-dev@openjdk.java.net)

174 – Nashorn JavaScript Engine

JEP (http://openjdk.java.net/jeps/174) | Mailing List (mailto:nashorn-dev@openjdk.java.net) | JSR | Project (http://openjdk.java.net/projects/nashorn/)

Oracle/Official Resources

- Java Platform, Standard Edition Nashorn User's Guide (http://docs.oracle.com/javase/8/docs/technotes/guides/scripting/nashorn/index.html)
- Oracle Java Platform, Standard Edition Java Scripting Programmer's Guide (http://docs.oracle.com/javase/8/docs/technotes/guides/scripting/prog_guide/index.html)
- Official Nashorn Oracle Blog (https://blogs.oracle.com/nashorn/)
- OpenJDK Nashorn Wiki (https://wiki.openjdk.java.net/display/Nashorn/Main)
- Wikipedia Entry – Nashorn (http://en.wikipedia.org/wiki/Nashorn_%28JavaScript_engine%29)

Resources

- Understanding the new Nashorn (http://www.theserverside.com/tip/Understanding-the-new-Nashorn) (Oct 2014)
- Java 8 Friday: JavaScript goes SQL with Nashorn and jOOQ (http://blog.jooq.org/2014/06/06/java-8-friday-javascript-goes-sql-with-nashorn-and-jooq/) (June 2014)
- Java 8 Nashorn Tutorial (http://winterbe.com/posts/2014/04/05/java8-nashorn-tutorial/) (April 2014)
- Java 8: Compiling Lambda Expressions in The New Nashorn JS Engine (http://www.takipiblog.com/2014/02/10/java-8-compiling-lambda-expressions-in-the-new-nashorn-js-engine/) (Feb 2014)
- JavaScript for the JVM – say hello to Nashorn! (http://www.youtube.com/watch?v=vkU8D0AP6tc) (**video**) (April 2013)
- Project Nashorn: JavaScript's Second Chance on the JVM (http://java.dzone.com/articles/project-nashorn-javascripts) (Dec 2012)
- JVM JavaScript engine Nashorn open sourced (http://jaxenter.com/jvm-javascript-engine-nashorn-open-sourced-45627.html) (Nov 2012)

175 – PowerPC/AIX Port

JEP (http://openjdk.java.net/jeps/175) | Mailing List (mailto:ppc-aix-port-dev@openjdk.java.net) | Project (http://openjdk.java.net/projects/ppc-aix-port/)

Oracle/Official Resources

- OpenJDK Wiki – PowerPC/AIX Port (https://wiki.openjdk.java.net/pages/viewpage.action?pageId=13041681)

176 – Mechanical Checking of Caller-Sensitive Methods

JEP (http://openjdk.java.net/jeps/176) | Mailing List (mailto:core-libs-dev@openjdk.java.net)

179 – Document JDK API Support and Stability

JEP (http://openjdk.java.net/jeps/179) | Mailing List (mailto:core-libs-dev@openjdk.java.net)

— Other JEPs —

127 – Improve Locale Data Packaging and Adopt Unicode CLDR Data (core/i18n)

JEP (http://openjdk.java.net/jeps/127) | Mailing List (mailto:i18n-dev@openjdk.java.net)

128 – BCP 47 Locale Matching (core/i18n)

JEP (http://openjdk.java.net/jeps/128) | Mailing List (mailto:i18n-dev@openjdk.java.net)

133 – Unicode 6.2 (core/i18n)

JEP (http://openjdk.java.net/jeps/133) | Mailing List (mailto:i18n-dev@openjdk.java.net)

Oracle/Official Resources

- Unicode 6.2 Standard (http://www.unicode.org/versions/Unicode6.2.0/)
- Internationalization Enhancements in JDK 8
  (http://docs.oracle.com/javase/8/docs/technotes/guides/intl/enhancements.8.html)

153 – Launch JavaFX Applications (core/–)

JEP (http://openjdk.java.net/jeps/153) | Mailing List (mailto:core-libs-dev@openjdk.java.net)

185 – JAXP 1.5: Restrict Fetching of External Resources (web/jaxp)

JEP (http://openjdk.java.net/jeps/185) | Mailing List (mailto:core-libs-dev@openjdk.java.net) | JSR
(https://jcp.org/en/jsr/detail?id=206)

Oracle/Official Resources

General Java 8 Resources

Java 8 Installation and IDE Support

- Unleashing the Java 8 Tooling in Eclipse (http://www.infoq.com/presentations/java8-eclipse) (**video**) (Oct 2015)
- Java 8 Eclipse Templates (https://www.tasktop.com/content/blog-entry/java-8-eclipse-templates) (Oct 2015)
- Oracle's Java 8 Update 65 – The return of the Java install application
  (https://derflounder.wordpress.com/2015/10/20/oracles-java-8-update-65-the-return-of-the-java-install-
  application/) (**new** – Oct 2015)
- Eclipse Neon (Eclipse 4.6) will require a Java 8 runtime (http://blog.vogella.com/2015/08/18/eclipse-neon-
  eclipse-4-6-will-require-a-java-8-runtime/) (August 2015)
- Eclipse Support for Java 8 (http://eclipsesource.com/blogs/2014/03/25/eclipse-support-for-java-8/) (March
  2014)
- Building and Running Java 8 Support (http://waynebeaton.wordpress.com/2014/02/04/building-and-running-
  java-8-support/) (Feb 2014)
- Java Platform, Standard Edition 8 Reference Implementations (https://jdk8.java.net/java-se-8-ri/) (Jan 2014)
- Java 8 Support in Eclipse (http://waynebeaton.wordpress.com/2014/01/31/java-8-support-in-eclipse/) (Jan
  2014)
- JDT/Eclipse Java 8 Support (BETA) (http://wiki.eclipse.org/JDT/Eclipse_Java_8_Support_%28BETA%29)
- Overview of JDK 8 Support in NetBeans IDE (https://netbeans.org/kb/docs/java/javase-jdk8.html)

Other Official/Oracle Java 8 Resources

- JDK 8 Massive Open and Online Course: Lambdas and Streams Introduction
  (https://apexapps.oracle.com/pls/apex/f?p=44785:145:0::::P145_EVENT_ID,P145_PREV_PAGE:4887,143)

- How can Java users confirm they are not affected by the SSL V3.0 POODLE (CVE-2014-3566) vulnerability? (https://www.java.com/en/download/help/disable_sslv3.xml)
- Java 7 Auto-Update to Java 8 (http://www.oracle.com/technetwork/java/javase/downloads/autoupdatejre7tojre8-2389085.html)
- Known Issues for JDK 8 (http://www.oracle.com/technetwork/java/javase/8-known-issues-2157115.html)
- Java SE 8 – Early Draft Review Specification (http://cr.openjdk.java.net/~mr/se/8/java-se-8-edr-spec.html)
- Java version history – Wikipedia Entry (http://en.wikipedia.org/wiki/Java_version_history)
- Eclipse Wiki – JDT Java 8 Support (http://wiki.eclipse.org/JDT_Core/Java8)
- Jigsaw prototype, take 2 (http://mail.openjdk.java.net/pipermail/jigsaw-dev/2013-August/003328.html) (on mailing list)

Other Semi-Official Oracle Java 8 Resources

- Announcing: JDK 8 MOOC: Lambdas and Streams, December 2nd! (https://blogs.oracle.com/thejavatutorials/entry/announcing_jdk_8_mooc_lambdas) (November 2016)
- Java 8 Release Highlights (https://java.com/en/download/faq/release_changes.xml) (October 2016)
- JavaOne 2016: Refactoring Your Code with Java 8 Functional Programming [UGF7875] (https://blogs.oracle.com/thejavatutorials/entry/javaone_2016_refactoring_your_code) (September 2016)
- Accelerating Java Streams with the SPARC Data Analytics Accelerator (https://community.oracle.com/docs/DOC-1006352) (September 2016)
- CompletableFuture for Asynchronous Programming in Java 8 (https://community.oracle.com/docs/DOC-995305) (March 2016)
- Survey Results – Java 8, Spring 4 and Spring Boot Adoption (/java-8-spring-4-and-spring-boot-adoption) (May 2015)
- Oracle to end publicly available security fixes for Java 7 this month (http://www.infoworld.com/article/2909685/application-development/oracle-cutting-publicly-available-security-fixes-for-java-7-this-month.html) (April 2015)

Other General Java 8 Resources

- How To Install Oracle Java JDK8 on Ubuntu 16.04 / 17.10 / 18.04 Desktops (https://websiteforstudents.com/how-to-install-oracle-java-jdk8-on-ubuntu-16-04-17-10-18-04-desktops/) (**new** – March 2018)
- Quickstart for Java 8 for App Engine Standard Environment (https://cloud.google.com/appengine/docs/standard/java/quickstart) (**new** – March 2018)
- How to Install JAVA 8 on Ubuntu 16.04/14.04, LinuxMint 18/17 (https://tecadmin.net/install-oracle-java-8-ubuntu-via-ppa/) (**new** – March 2018)
- Java 8 Optional use cases (http://dolszewski.com/java/java-8-optional-use-cases/) (**new** – March 2018)
- Java 8: Bastion of Long-term Support (http://marxsoftware.blogspot.jp/2018/02/java-8-bastion-long-term-support.html) (**new** – February 2018)
- Mapping Java 8 Date/Time entity attributes with Hibernate (http://in.relation.to/2018/02/20/java8-date-time-mapping/) (**new** – February 2018)
- How do I update the Java Development Kit (JDK) version? (https://docs.microsoft.com/en-us/xamarin/android/troubleshooting/questions/update-jdk?tabs=vswin) (**new** – February 2018)
- Oracle extends Java JDK 8 updates to 2019 (https://www.infoworld.com/article/3252771/java/oracle-extends-java-jdk-8-updates-to-2019.html) (**new** – February 2018)
- Java 8 Runtime Environment (https://cloud.google.com/appengine/docs/standard/java/runtime-java8) (**new** – February 2018)
- What is Functional interface in Java 8 (http://javarevisited.blogspot.in/2018/01/what-is-functional-interface-in-java-8.html) (**new** – January 2018)
- Java 8 Consumer and Supplier Example (https://examples.javacodegeeks.com/core-java/java-8-consumer-supplier-example/) (**new** – January 2018)
- Java 8 forEach (https://springframework.guru/java-8-foreach/) (**new** – January 2018)
- Difference between Java 7 and Java 8 (http://www.differencebetween.net/technology/difference-between-java-7-and-java-8/) (**new** – January 2018)
- Java 8: Oogway's Advice on Optional (https://dzone.com/articles/java8-oogways-advise-on-optional) (**new** – January 2018)

- Functional purity (https://www.ibm.com/developerworks/library/j-java8idioms11/index.html) (**new** – January 2018)
- Java Default Methods (https://hackernoon.com/java-8-default-methods-37fc65c6a85a) (**new** – December 2017)
- Base64 encoding and decoding in Java 8 (https://www.javaworld.com/article/3240006/java-language/base64-encoding-and-decoding-in-java-8.html) (**new** – December 2017)
- Java 8 – The Bad Parts (http://4comprehension.com/java-8-the-bad-parts/) (**new** – December 2017)
- Using closures to capture state (https://www.ibm.com/developerworks/library/j-java8idioms10/index.html) (**new** – December 2017)
- Functional Interfaces in Java 8 (https://www.javadevjournal.com/java/java-functional-interfaces/) (**new** – November 2017)
- "Hello world" example of Futures in Java 8 (https://hackernoon.com/hello-world-example-of-futures-in-java-8-1d3b73caad02) (**new** – October 2017)
- Java 8 – Get Current Date and Time (https://beginnersbook.com/2017/09/java-8-get-current-date-and-time/) (**new** – September 2017)
- Java 8 Distinct Example (https://www.concretepage.com/java/jdk-8/java-8-distinct-example) (**new** – September 2017)
- Concatenating Strings in Java 8 (https://dzone.com/articles/joining-strings-in-java-8) (August 2017)
- Java 8 List All Files In Directory Example (https://howtodoinjava.com/java-8/java-8-list-all-files-example/) (August 2017)
- Think Async in Java 8 by Dmitry Aleksandrov (https://www.youtube.com/watch?v=1QW2m0q_bN4) (**video**) (August 2017)
- How to create a thread-safe ConcurrentHashSet in Java 8? (http://javarevisited.blogspot.com/2017/08/how-to-create-thread-safe-concurrent-hashset-in-java-8.html) (August 2017)
- Iterate Over A List or Set in Java 8 (https://howtoprogram.xyz/2016/08/25/iterate-over-list-set-java-8/) (August 2017)
- What's new in Java EE 8 (https://www.infoworld.com/article/3215135/java/whats-new-in-java-ee-8.html) (August 2017)
- Oracle considers moving Java EE to an open source foundation (http://www.zdnet.com/article/oracle-considers-moving-java-ee-to-an-open-source-foundation/) (August 2017)
- Java Blocking Queues Explained! (http://www.geek-programmer.com/java-blocking-queues-explained/) (August 2017)
- Iterate through a Map in Java (https://www.javadevjournal.com/java/iterate-map-java/)(July 2017)
- Java 8 CompletableFuture Tutorial (https://www.callicoder.com/java-8-completablefuture-tutorial/) (July 2017)
- Embracing Java 8 language features (https://jeroenmols.com/blog/2017/07/21/java8language/) (July 2017)
- Introduction to functional programming in Java (https://raimme.com/devcenter?articleId=1cd000000000m&ft=blog) (July 2017)
- Adapters in Java 8 (http://comunytek.com/en/adapters-in-java-8-adapter/) (July 2017)
- Java Data and Time API in Java 8 – Tutorial (http://www.vogella.com/tutorials/JavaDateTimeAPI/article.html) (July 2017)
- What is Java Garbage Collection? How It Works, Best Practices, Tutorials, and More (https://stackify.com/what-is-java-garbage-collection/) (July 2017)
- Basic Usage of Functional Interface in Java 8 (http://www.ru-rocker.com/2017/05/27/basic-usage-of-functional-interface-in-java-8/) (July 2017)
- Java 8 forEach tutorial (http://zetcode.com/articles/java8foreach/) (July 2017)
- Java Thread Synchronization, Deadlocks and Volatile Variables (http://www.geek-programmer.com/java-thread-synchronization-deadlocks-volatile-variables/) (July 2017)
- How to Tune Java Garbage Collection (http://www.cubrid.org/blog/how-to-tune-java-garbage-collection) (July 2017)
- Java EE 8 – The Next Frontier. SouJava Interview with Ruslan Synytsky (http://blog.jelastic.com/2017/05/16/java-ee-8-the-next-frontier-soujava-interview-with-ruslan-synytsky/) (**video**) (July 2017)
- DSLs with the Free Monad in Java 8 : Part I (https://medium.com/@johnmcclean/dsls-with-the-free-monad-in-java-8-part-i-701408e874f8) (July 2017)
- Reading and writing files in Java (Input/Output) – Tutorial (http://www.vogella.com/tutorials/JavaIO/article.html) (July 2017)

- How to Sort a HashMap by Key and Value in Java 8 – Complete Tutorial (https://crunchify.com/how-to-sort-hashmap-by-key-and-value-in-java8-complete-tutorial/) (July 2017)
- Writing a custom spliterator in Java 8 (https://hedleyproctor.com/2017/06/writing-a-custom-spliterator-in-java-8/) (July 2017)
- Java 8 Method References with Example (https://howtodoinjava.com/java-8/lambda-method-references-example/) (June 2017)
- Java Regex as Predicate using Pattern.compile() Method (https://howtodoinjava.com/java-8/regex-predicate-using-pattern-compile/) (June 2017)
- Take advantage of Java 8: The change is very much worth it (https://jaxenter.com/take-advantage-of-java-8-132477.html) (March 2017)
- Android switches to native Java 8 support (http://www.infoworld.com/article/3180758/mobile-development/android-switches-to-native-java-8-support.html) (March 2017)
- How to Dial and Answer Phone Calls with Spark and Java 8 in IntelliJ (https://www.twilio.com/blog/2017/03/dial-answer-phone-calls-spark-java-8-intellij.html) (March 2017)
- Functional Programming in Java 8 (Part 2): Optionals (https://dzone.com/articles/functional-programming-in-java-8-part-2-optionals) (February 2017)
- Java 8 Optional In Depth (https://www.mkyong.com/java8/java-8-optional-in-depth/) (February 2017)
- An easier path to functional programming in Java (https://www.ibm.com/developerworks/library/j-java8idioms1/) (February 2017)
- How to Use the Comparator.comparing Method in Java 8 (https://www.webucator.com/how-to/how-use-the-comparatorcomparing-method-java-8.cfm) (January 2017)
- SpringOne Platform 2016 Replay: Reactor 3.0, a JVM foundation for Java 8 and Reactive Streams (https://spring.io/blog/2017/01/16/springone-platform-2016-replay-reactor-3-0-a-jvm-foundation-for-java-8-and-reactive-streams) (January, 2017)
- Java 8 – Lazy argument evaluation (https://blog.logentries.com/2017/01/java-8-lazy-argument-evaluation/) (January, 2017)
- Days Between Dates in Java 8 (https://kousenit.org/2017/01/26/days-between-dates-in-java-8/) (January, 2017)
- The Advantages of Functional Programming in Java 8: Converter pattern (https://bulldogjob.pl/articles/156-the-advantages-of-functional-programming-in-java-8-converter-pattern) (January, 2017)
- Exploring Reactive Integrations in Java 8 with Akka Streams, Alpakka and Kafka (https://www.lightbend.com/blog/exploring-reactive-integrations-java8-akka-streams-alpakka-kafka) (January, 2017)
- How to Iterate Through Map and List in Java? Example attached (Total 5 Different Ways) (https://crunchify.com/in-java-8-how-to-iterate-through-java-util-map-and-java-util-list-example-attached-with-total-5-different-ways/) (January 2017)
- Java 8: New features in ConcurrentHashMap (http://www.deadcoderising.com/2016-01-17-java-8-new-features-in-concurrenthashmap/) (January 2017)
- Java 8 New Features, Part 2 (https://www.learningtree.com/courses/4893/java-8-training-new-features-part-2/) (December 2016)
- Install Oracle Java 8 on Manjaro 16.10 (https://manjaro-tutorial.blogspot.ro/2016/12/install-oracle-java-8-on-manjaro-1610.html) (December 2016)
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