Java 8 Best Practices Cheat Sheet

REBELLABS

Default methods

Evolve interfaces & create traits

```
//Default methods in interfaces
@FunctionalInterface
interface Utilities {
  default Consumer<Runnable> m() {
    return (r) -> r.run();
  }
  // default methods, still functional
  Object function(Object o);
}
class A implements Utilities { // implement
  public Object function(Object o) {
    return new Object();
  }
  {
    // call a default method
    Consumer<Runnable> m = new A().m();
  }
}
```

Lambdas

Syntax:
(parameters) -> expression
(parameters) -> { statements; }

```
// takes an object, returns an Integer
Function<Long, String> f = (l) -> l.toString();
// takes nothing gives you Threads
Supplier<Thread> s = Thread::currentThread;
// takes a string as the parameter
Consumer<String> c = System.out::println;

// use them with streams
new ArrayList<String>().stream().
// peek: debug streams without changes
peek(e -> System.out.println(e)).
// map: convert every element into something
map(e -> e.hashCode()).
// filter: pass some elements through
filter(e -> (e.hashCode() % 2) == 0).
// collect all values from the stream
collect(Collectors.toCollection(TreeSet::new))
```

java.util.Optional

A container for possible null values

```
// Create an optional
Optional<String> optional =
Optional.ofNullable(s);
// process the optional
optional.map(s -> "Rebellabs:" + s);
// map a function that returns Optional
optional.flatMap(s -> Optional.ofNullable(s));

// run if the value is there
optional.ifPresent(System.out::println);
// get the value or throw an exception
optional.get();

// return the value or the given value
optional.orElse("Hello world!");
// return empty Optional if not satisfied
optional.filter(s -> s.startsWith("Rebellabs"));
```

Rules of Thumb

Traits: 1 default method per interface
Don't enhance functional interfaces
Only conservative implementations

Expressions over statements
Refactor to use method references
Chain lambdas rather than growing them

Fields - use plain objects
Method parameters, use plain objects
Return values - use Optional
Use orElse() instead of get()

Java 8 Streams Best Practices And Pitfalls Cheat Sheet

Camilla Rothe

Java 8 Streams Best Practices And Pitfalls Cheat Sheet:

Tech Hopper: Professional Cheat Sheet for Java: Streams API Robert Pulsipher,2025-10-13 Java 8 New Features Richard Reese,2014 The latest version of Java offers numerous improvements and new features to better utilize Java Streams for example supports a fluent approach to problem solving and lets the developer take advantage of concurrency with minimal effort whilst lambda expressions offer new ways of expressing a solution that brings efficiency and succinct programming Topics in this book include interface enhancements such as default methods that affect new additions to Java 8 and their impact on multiple inheritance between interfaces lambda expressions to simplify solutions to development problems Stream interface that supports query type problems new support for concurrent processing with Streams date and time enhancements information on the Nashorn JavaScript Engine File IO enhancements and Project Jigsaw *Mastering Java 8 Stream API* Kunal Bhangale,2025-02-26 Mastering Java 8 Stream API is an in depth guide that helps Java developers students and professionals leverage the power of functional programming using Streams This book provides over 200 coding challenges covering topics such as stream creation intermediate and terminal operations collectors parallel streams and optional handling Through practical examples and real world problem solving this book helps you Understand Java 8 Streams from basics to advanced concepts Improve coding efficiency using functional programming Prepare for technical interviews with stream based coding problems Optimize performance using parallel streams Whether you are preparing for interviews or looking to improve your Java coding skills this book is your go to resource for mastering the Stream API Java 8 Lambda Expressions and Streams Marty Hall,2016 6 Hours of Video Instruction Overview Java 8 Lambda Expressions and Streams LiveLessons 2nd Edition covers the most important new features introduced in Java 8 The video training is presented by Marty Hall a bestselling author world renowned instructor and president of the training company coreservlets com If you are comfortable with previous Java versions and want to learn the new Java 8 features as quickly as possible continue on You are in the right place If however you are new to Java and want learn the full range of Java programming but in the context of the latest version Java 8 please see the video Learning Modern Java A Crash Course Using Java 8 LiveLessons instead Description This LiveLessons video explains the syntax and usage of Java 8 lambda expressions shows the prebuilt functions covers streams thoroughly describes best practices for the use of parallel operations provides examples of the types of applications to which lambdas and streams are well suited and shows how applying the power of streams can dramatically simplify file I O The final version of Java 8 was released in 2014 and it is by far the most significant upgrade to the Java programming language since at least 2004 probably since Java s inception In general Java 8 s high level goals were to make code more flexible to better use multiple cores and to more easily deal with large data sets Specifically there are four main reasons that it is important for existing Java programmers to know the new Java 8 features More flexible and reusable code thanks to lambdas Lambda expressions in Java 8 are a way of representing functions and their judicious use can make your

code significantly more adaptable and reusable Convenience thanks to high level Stream methods Streams are wrappers around collections or other data sources that use lambda expressions pervasively They support many convenient and high performance operations that use lambdas including map reduce filter and forEach These methods make many types of code much simpler to write compared to the clunky and low level Collection methods Faster and more memory efficient code thanks to lazy evaluation and automatic parallelization Streams support lazy evaluation so if you map firstName over Employees filter ones that start with P then choose the first it really only maps and filters until the first match Streams can also be designated as parallel so that t *Java 8 in Action* Raoul-Gabriel Urma,2014 Java 8 in Action is a clearly written guide to the new features of Java 8 It begins with a practical introduction to lambdas using real world Java code Next it covers the new Streams API and shows how you can use it to make collection based code radically easier to understand and maintain It also explains other major Java 8 features including default methods Optional CompletableFuture and the new Date and Time API This book course is written for programmers familiar with Java and basic OO programming Resource description page

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