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Lambdas Streams
And Functional
Style
Programming

Java 8 In Action Lambdas Streams And Functional Style Programming

**This book
concisely**

Where To
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In Action
introduces Java
Lambdas Streams
8's most
And Functional
valuable new
Style
features,
Programming
including
lambda
expressions
(closures) and
streams. If
you're an
experienced
Java
programmer, the

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author's
Lambdas, Streams
practical
And Functional
insights and
Style
sample code
Programming
will help you
quickly take
advantage of
these and other
Java language
and platform
improvements.
Serverless
revolutionizes

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the way
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organizations
build and
deploy
software. With
this hands-on
guide, Java
engineers will
learn how to
use their
experience in
the new world
of serverless

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computing.
Lambdas, Streams
You'll discover
And Functional
how this cloud
Style
computing
Programming
execution model
can drastically
decrease the
complexity in
developing and
operating
applications
while reducing
costs and time

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to market.
Lambdas, Streams
Engineering
And Functional
leaders John
Chapin and Mike
Roberts guide
you through the
process of
developing
these
applications
using AWS
Lambda,
Amazon's event-

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driven,
Lambdas, Streams
serverless
And Functional
computing
platform.

You'll learn
how to prepare
the development
environment,
program Lambda
functions, and
deploy and
operate your
serverless

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software. The
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chapters
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include
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exercises to
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help you
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process. Get an
introduction to
serverless,
functions as a
service, and
AWS Lambda

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**Learn how to
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Lambda
functions to
the cloud**

**Program Lambda
functions and
learn how the
Lambda platform
integrates with
other AWS
services Build
and package**

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applications by
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and data
pipeline Test
your serverless
applications
using automated

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applications
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new
opportunities
of serverless
architecture
Well-respected

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illuminate the
central ideas,
and numerous

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edition.
With the
release of
version 8,
functional
programming has
finally come to
Java—bringing a
brand new way

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of thinking
about code. It
is an update
like no other
in Java's
history,
introducing new
syntax, new
libraries, and
a new
programming
paradigm. This
guide will help

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keep you on top
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veteran Java
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it is perfect

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default
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interfaces. New

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interfaces and
the newly
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Collections
library.

**Streams: A look
into the
Streams**

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library, how to
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streams, and
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how to best use
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streams—the
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partial
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and functional
composition.
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Lambda
Beginning Java
8 Language
Features
Functionnal
Programming for
the Masses
The Java
Language

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Specification

Summary AWS

Lambda in Action is an example-driven tutorial that teaches you how to build applications that use an event-driven approach on the back end. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning

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Publications. About the Technology With AWS Lambda, you write your code and upload it to the AWS cloud. AWS Lambda responds to the events triggered by your application or your users, and automatically manages the underlying computer resources for you.

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Back-end tasks like analyzing a new document or processing requests from a mobile app are easy to implement.

Your application is divided into small functions, leading naturally to a reactive architecture and the adoption of microservices. About the Book AWS

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Lambda in Action is an example-driven tutorial that teaches you how to build applications that use an event-driven approach on the back-end. Starting with an overview of AWS Lambda, the book moves on to show you common examples and patterns that you can

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use to call Lambda functions from a web page or a mobile app.

The second part of the book puts these smaller examples together to build larger applications. By the end, you'll be ready to create applications that take advantage of the high availability, security, performance, and

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In Action
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Style Programming

scalability of AWS.
What's Inside Create
a simple API Create
an event-driven media-
sharing application
Secure access to your
application in the
cloud Use functions
from different clients
like web pages or
mobile apps Connect
your application with
external services
About the Reader

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Requires basic knowledge of JavaScript. Some examples are also provided in Python. No AWS experience is assumed. About the Author Danilo Poccia is a technical evangelist at Amazon Web Services and a frequent speaker at public events and workshops. Table of

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In Action Contents PART 1 - Lambdas Streams FIRST STEPS

Running functions in
the cloud Your first
Lambda function Your
function as a web API

PART 2 - BUILDING EVENT-DRIVEN APPLICATIONS

Managing security
Using standalone
functions Managing
identities Calling
functions from a client

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In Action

Designing an
authentication service

Lambdas, Streams
Implementing an

authentication service

Adding more features

to the authentication

service Building a

media-sharing

application Why event-

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Programming

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- USING EXTERNAL

SERVICES Calling

external services

Receiving events from

other services

The introduction of

functional

programming

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concepts in Java SE 8
Lambdas, Streams
And Functional
Programming
was a drastic change
for this venerable
object-oriented
language. Lambda
expressions, method
references, and
streams
fundamentally
changed the idioms of
the language, and
many developers
have been trying to
catch up ever since.

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This cookbook will help. With more than 70 detailed recipes, author Ken Kousen shows you how to use the newest features of Java to solve a wide range of problems. For developers comfortable with previous Java versions, this guide covers nearly all of Java SE 8, and

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In Action
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Style
Programming

includes a chapter
focused on changes
coming in Java 9.

Need to understand
how functional idioms
will change the way
you write code? This
cookbook—chock full
of use cases—is for
you. Recipes cover:
The basics of lambda
expressions and
method references
Interfaces in the

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Programming

java.util.function
package Stream
operations for
transforming and
filtering data
Comparators and
Collectors for sorting
and converting
streaming data
Combining lambdas,
method references,
and streams
Creating
instances and extract
values from Java's

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Optional type New I/O capabilities that

support functional streams The Date-

Time API that replaces the legacy

Date and Calendar classes Mechanisms

for experimenting with concurrency and

parallelism

Start building powerful programs with Java

6—fast! Get an

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overview of Java 6
and begin building
your own programs
Even if you're new to
Java
programming—or to
programming in
general—you can get
up and running on this
wildly popular
language in a hurry.
This book makes it
easy! From how to
install and run Java to

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In Action

understanding
Lambdas, Streams
classes and objects

and juggling values

with arrays and

collections, you will

get up to speed on

the new features of

Java 6 in no time.

Discover how to Use

object-oriented

programming Work

with the changes in

Java 6 and JDK 6

Save time by reusing

Where To
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In Action
code Mix Java and
Javascript with the
Lambdas Streams
new scripting tools
And Functional
Troubleshoot code
Style
problems and fix bugs
Programming
All on the bonus CD-
ROM Custom build of
JCreator and all the
code files used in the
book Bonus chapters
not included in the
book Trial version of
Jindent, WinOne, and
NetCaptor freeware

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A practical introduction to Java programming—fully

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revised for long-term support release Java SE 11 Thoroughly updated for Java Platform Standard Edition 11, this hands-on resource shows, step by step, how to get started programming in Java from the very first chapter. Written by Java guru Herbert Schildt, the book

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starts with the basics, such as how to create, compile, and run a Java program. From there, you will learn essential Java keywords, syntax, and commands. Java: A Beginner's Guide, Eighth Edition covers the basics and touches on advanced features, including multithreaded

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Lambdas, Streams
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Swing. Enumeration,
modules, and
Programming
interface methods are
also clearly explained.
This Oracle Press
guide delivers the
appropriate mix of
theory and practical
coding necessary to
get you up and
running developing

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Java applications in
no time. • Clearly
explains all of the new
features

• Features self-
tests, exercises, and
downloadable code
samples • Written by
bestselling author and
leading Java authority
Herbert Schildt

Java Programming in
a Multicore World
Functional Java

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An Introduction to
Lambdas, Streams
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Programming
Through Lambda
Calculus

Kafka Streams in
Action

Exam 1Z0-808

This open access
book constitutes the
proceedings of the
23rd International
Conference on

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Approaches to
Software
Engineering, FASE
2020, which took
place in Dublin,
Ireland, in April
2020, and was held
as Part of the
European Joint
Conferences on
Theory and Practice
of Software, ETAPS
2020. The 23 full

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papers, 1 tool paper
and 6 testing
competition papers
presented in this
volume were
carefully reviewed
and selected from 81
submissions. The
papers cover topics
such as requirements
engineering,
software
architectures,
specification,

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Asynchronous
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software quality,
validation,
verification of
functional and non-
functional properties,
model-driven
development and
model
transformation,
software processes,
security and software
evolution.

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one book has served

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as the definitive
reference to Java for
all serious
developers: The Java
Language
Specification, by
James Gosling, Bill
Joy, and Guy Steele.
Now, these world-
renowned Java
authorities (along
with new co-author
Gilad Bracha) have
delivered a

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monumental update.

This completely

revised Second

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and precision,

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Java's creators to

every developer.

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Lambdas Streams
Syntax and
Semantics of the Java
programming
language. Developers
will turn to this book
again and again.

Java 8 in Action
Summary Kotlin in
Action guides
experienced Java
developers from the
language basics of

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Kotlin all the way
through building
applications to run
on the JVM and
Android devices.
Foreword by Andrey
Breslav, Lead
Designer of Kotlin.
Purchase of the print
book includes a free
eBook in PDF,
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Manning

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Publications. About
the Technology

Developers want to
get work done - and
the less hassle, the
better. Coding with
Kotlin means less
hassle. The Kotlin
programming
language offers an
expressive syntax, a
strong intuitive type
system, and great
tooling support along

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with seamless interoperability with existing Java code, libraries, and frameworks. Kotlin can be compiled to Java bytecode, so you can use it everywhere Java is used, including Android. And with an efficient compiler and a small standard library, Kotlin

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imposes virtually no
runtime overhead.

About the Book

Kotlin in Action
teaches you to use
the Kotlin language
for production-
quality applications.

Written for
experienced Java
developers, this
example-rich book
goes further than
most language

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In Action
Lambdas Streams
like building DSLs
with natural
language syntax. The
authors are core
Kotlin developers, so
you can trust that
even the gnarly
details are dead
accurate. What's
Inside Functional
programming on the
JVM Writing clean

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In Action
and idiomatic code
Combining Kotlin
Lambdas Streams

and Java Domain-
specific languages

About the Reader

This book is for
experienced Java
developers. About
the Author Dmitry
Jemerov and
Svetlana Isakova are
core Kotlin

developers at
JetBrains. Table of

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INTRODUCING
KOTLIN Kotlin: what
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basics Defining and
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Classes, objects, and
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Programming with
lambdas The Kotlin
type system PART 2 -
EMBRACING
KOTLIN Operator
overloading and

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other conventions
Lambdas Streams
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functions: lambdas
Style
as parameters and
return values
Programming
Generics Annotations
and reflection DSL
construction
A Project-Driven
Guide to
Fundamentals in Java
Kotlin in Action
OCA: Oracle
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Reactive Streams in
Java
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programmer's
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**in one small
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heart of this
Deluxe Edition is
the Java
Reference
Library on CD-
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brings together
five volumes for
Java developers
and**

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with Java 1.1.

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s the basics of
Java 1.1 and
offers a clear,
systematic
overview of the

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have been added
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instance
initializers.**

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documentation
on the core Java
1.1 classes that
comprise the java
.lang,java.io,java.
net,java.util,java.t
ext,java.math,jav
a.lang.reflect, an
djava.util.zippack**

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**ages. These
classes provide
general-purpose
functionality that
is fundamental to**

**every Java
application.**

**The Java AWT Re
ference provides
complete
reference
documentation**

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**on the Abstract
Window Toolkit
(AWT), a large
collection of
classes for
building
graphical user
interfaces in
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Edition, the
bestselling book**

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to Java,
containing
descriptions of
all of the classes
in the Java 1.1
core API, with a

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of all methods
and variables,
with the
exception of the
still-evolving
Enterprise APIs.
These APIs will
be covered in a
future volume.
Highlights of the
library include:

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Java's style of
object-oriented
programming
Detailed
coverage of all

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g, java.io, java.util, j
ava.net, java.awt
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Network
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Content and
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Mac users can

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version (see [http://
/online-books.oreilly.com/books/javaref/](http://online-books.oreilly.com/books/javaref/) for more information). A Web browser that supports HTML 3.2, Java, and JavaScript, such as

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**Netscape 3.0 or
Internet Explorer
3.0, is required.**

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concurrency,
data streams,
and the
propagation of
change in today's**

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**streams
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with the Android
SDK. Reactive
Streams in Java
explains how to
manage the
exchange of
stream data
across an
asynchronous bo
undary—passing**

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**elements on to
another thread or
thread-
pool—while
ensuring that the
receiving side is
not forced to
buffer arbitrary
amounts of data
which can reduce
application
efficiency. After**

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using this book,
you'll be
proficient in
programming
reactive streams
for Java in order
to optimize
application
performance, and
improve memory
management and**

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data exchanges.
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and how to use
them Work with
the latest
features in Java 9
and Java 11 Apply
reactive streams
using RxJava
Program using

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Streams Carry out
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programmers.
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code in Java
using simple,

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model real-world
objects and
events, making**

learning easy.

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pick up the
concepts without
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Absolute**

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development in
language anyone
can understand,
giving you the
best possible
start. You'll see
clear code
descriptions and
layout so that
you can get your**

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soon as possible.
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away with the
basics to get
started writing
programs in
Java. Author
Iuliana Cosmina
focuses on
practical**

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getting up to
speed
quickly—all the
bits and pieces a
novice needs to
get started
programming in
Java. First, you'll
discover how
Java is executed,
what type of**

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and what it is
good for. With
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choose an editor
such as IntelliJ
IDEA, and write
your first simple
Java program.
Along the way**

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And Functional
Style
Programming

**you'll compile
and execute this
program so it can
run on any
platform that
supports Java.**

**As part of this
tutorial you'll see
how to write high-
quality code by
following
conventions and**

Where To
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In Action
respecting well-
known
Lambdas Streams
And Functional
programming
Style
Programming
making your
projects more
professional and
efficient. Finally,
alongside the
core features of
Java, you'll learn
skills in some of

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**the newest and
most exciting
features of the
language:
Generics,**

**Lambda
expressions,
modular
organization,
local-variable
type inference,
and local variable**

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And Functional
Style
expressions.

Java for Absolute
Beginners gives
you all you need
to start your Java
9+ programming
journey. No
experience
necessary. What
You'll Learn Use

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**data types,
operators, and
the new stream
API** Install and
use a build tool
such as Gradle
Build interactive
Java applications
with JavaFX
Exchange data
using the new
JSON APIs Play

Where To
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In Action
with images
Lambdas Streams
using multi-
And Functional
resolution APIs
Style
Use the publish-
subscribe
Programming
framework Who
This Book Is For
Those who are
new to
programming
and who want to
start with Java.

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Style
Programming

**The Definitive
Guide to Lambda
Expressions
Mastering
Lambdas: Java
Programming in
a Multicore World
describes how
the lambda-
related features
of Java SE 8 will
enable Java to**

Where To
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meet the
challenges of
Lambdas Streams
And Functional
Style
parallel hardware
Programming
architectures.

The book
explains how to
write lambdas,
and how to use
them in streams
and in collection
processing,

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Lambdas Streams
And Functional
Style
Programming

**providing code
examples
throughout.**

**You'll learn how
to use lambda
expressions to
take full
advantage of
performance
improvements
provided by
today's multicore**

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And Functional
Style
Programming

**hardware. This
Oracle Press
book covers:
Why lambdas
were needed,
and how they will
change Java
programming
Syntax of lambda
expressions The
basic operation
of streams and**

Where To
Download Java 8
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pipelines Using
Lambdas, Streams
collectors and
And Functional
reduction to end
Style
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Creating streams
Spliterators, the
fork/join
framework, and
exceptions
Examining
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performance with

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ng API evolution
Lambdas, Streams
And Functional
using default
Style
methods
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Really Impatient
Modern Java
Recipes
On Java 8
Java 9 Modularity
Mastering
Lambdas

Where To
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In Action
**Event-driven
serverless
applications**
Lambdas, Streams
And Functional
Style
Programming

*When carefully
selected and used,
Domain-Specific
Languages (DSLs)
may simplify complex
code, promote
effective
communication with
customers, improve
productivity, and*

Where To
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In Action
unclog development
bottlenecks. In
Lambdas, Streams
Domain-Specific
Languages , noted
software development
expert Martin Fowler
first provides the
information software
professionals need to
decide if and when to
utilize DSLs. Then,
where DSLs prove
suitable, Fowler
presents effective

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*techniques for building
them, and guides
software engineers in
choosing the right
approaches for their
applications. This
book's techniques
may be utilized with
most modern object-
oriented languages;
the author provides
numerous examples in
Java and C#, as well
as selected examples*

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in Ruby. Wherever possible, chapters are organized to be self-standing, and most reference topics are presented in a familiar patterns format.

Armed with this wide-ranging book, developers will have the knowledge they need to make important decisions about DSLs—and,

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where appropriate, gain the significant technical and business benefits they offer. The topics covered include: How DSLs compare to frameworks and libraries, and when those alternatives are sufficient Using parsers and parser generators, and parsing external DSLs

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*Understanding,
comparing, and
choosing DSL*

language constructs

*Determining whether
to use code*

generation, and

comparing code

generation strategies

Previewing new

language workbench

tools for creating

DSLs

"Java 8 in Action is a

Where To Download Java 8

*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*

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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

Where To Download Java 8 In Action page.

This book, written by one of the designers of generics, is a thorough explanation of how to use generics, and particularly, the effect this facility has on the way developers use collections.

Summary Manning's bestselling Java 8 book has been

Where To
Download Java 8
In Action
revised for Java 9! In
Lambdas, Streams
Modern Java in
Action, you'll build on
your existing Java
language skills with
the newest features
and techniques.

Purchase of the print
book includes a free
eBook in PDF, Kindle,
and ePub formats
from Manning
Publications. About
the Technology

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Modern applications take advantage of innovative designs, including microservices, reactive architectures, and streaming data. Modern Java features like lambdas, streams, and the long-awaited Java Module System make implementing these designs significantly easier. It's

Where To Download Java 8

*time to upgrade your
skills and meet these
challenges head on!*

About the Book

*Modern Java in Action
connects new features
of the Java language
with their practical
applications. Using
crystal-clear examples
and careful attention
to detail, this book
respects your time. It
will help you expand*

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your existing knowledge of core Java as you master modern additions like the Streams API and the Java Module System, explore new approaches to concurrency, and learn how functional concepts can help you write code that's easier to read and maintain. What's

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*inside Thoroughly
revised edition of
Manning's bestselling
Java 8 in Action New
features in Java 8,
Java 9, and beyond
Streaming data and
reactive programming
The Java Module
System About the
Reader Written for
developers familiar
with core Java
features. About the*

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Author Raoul-Gabriel

Urma is CEO of

Cambridge Spark.

Mario Fusco is a

senior software

engineer at Red Hat.

Alan Mycroft is a

University of

Cambridge computer

science professor; he

cofounded the

Raspberry Pi

Foundation. Table of

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*Pragmatic Functional
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*Real-time apps and
microservices with the
Kafka Streams API*

*Domain-Specific
Languages*

Simple Solutions to

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*Difficult Problems in
Lambdas Streams
In-Depth Advice for
Tuning and
Programming Java 8,
11, and Beyond*
Explore the latest
Java-based
software
development
techniques and
methodologies
through the project-
based approach in

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this practical guide. Unlike books that use abstract examples and lots of theory, Real-World Software Development shows you how to develop several relevant projects while learning best practices along the way. With this engaging

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approach, junior developers capable of writing basic Java code will learn about state-of-the-art software development practices for building modern, robust and maintainable Java software. You'll work with many different software

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development topics
Lambdas Streams
that are often
Acid Functional
excluded from
Style
software develop
how-to references.
Programming
Featuring real-
world examples,
this book teaches
you techniques and
methodologies for
functional
programming,
automated testing,
security,

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*architecture, and
distributed
systems.*

*Summary Kafka
Streams in Action
teaches you
everything you
need to know to
implement stream
processing on data
flowing into your
Kafka platform,
allowing you to
focus on getting*

Where To
Download Java 8
In Action
more from your
data without
Streams
sacrificing time or
effort. Foreword by
Neha Narkhede,
Cocreator of
Apache Kafka
Purchase of the
print book includes
a free eBook in
PDF, Kindle, and
ePub formats from
Manning
Publications. About

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In Action
Lambdas Streams
Applications
Style
Programming

*the Technology Not
all stream-based
applications
require a dedicated
processing cluster.
The lightweight
Kafka Streams
library provides
exactly the power
and simplicity you
need for message
handling in
microservices and
real-time event*

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*processing. With
the Kafka Streams
API, you filter and
transform data
streams with just
Kafka and your
application. About
the Book Kafka
Streams in Action
teaches you to
implement stream
processing within
the Kafka platform.
In this easy-to-*

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follow book, you'll explore real-world examples to collect, transform, and aggregate data, work with multiple processors, and handle real-time events. You'll even dive into streaming SQL with KSQL! Practical to the very end, it finishes

Where To
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In Action
with testing and
operational
aspects, such as
monitoring and
debugging. What's
inside Using the
KStreams API
Filtering,
transforming, and
splitting data
Working with the
Processor API
Integrating with
external systems

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About the Reader
Assumes some
experience with
distributed
systems. No
knowledge of Kafka
or streaming
applications
required. *About the
Author Bill Bejeck*
is a Kafka Streams
contributor and
Confluent engineer
with over 15 years

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of software
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Advanced

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*applications with
Kafka Streams*

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information*

*Appendix B -
Exactly once
semantics*

*The upcoming Java
9 module system
will affect existing
applications and
offer new ways of*

Where To Download Java 8

*creating modular
and maintainable
applications. With
this hands-on book,
Java developers
will learn not only
about the joys of
modularity, but
also about the
patterns needed to
create truly
modular and
reliable
applications.*

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*Authors Sander
Mak and Paul
Bakker teach you
the concepts
behind the Java 9
module system,
along with the new
tools it offers.
You'll also gain
learn how to
modularize existing
code and how to
build new Java
applications in a*

Where To Download Java 8

modular way.

Understand Java 9

module system

concepts Master

the patterns and

practices for

building truly

modular

applications

Migrate existing

applications and

libraries to Java 9

modules Use JDK 9

tools for modular

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In Action
Lambdas Streams
Gain insight into
how hexagonal
architecture can
help to keep the
cost of
development low
over the complete
lifetime of an
application Key
Features Explore
ways to make your
software flexible,

Where To Download Java 8

*extensible, and
adaptable Learn
new concepts that
you can easily
blend with your
own software
development
style Develop the
mindset of building
maintainable
solutions instead of
taking
shortcuts*

**Book
Description We**

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would all like to build software architecture that yields adaptable and flexible software with low development costs. But, unreasonable deadlines and shortcuts make it very hard to create such an architecture. Get Your Hands Dirty

Where To
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In Action
on Clean
Lambdas Streams
Architecture starts
with a discussion
about the
conventional
layered
architecture style
and its
disadvantages. It
also talks about the
advantages of the
domain-centric
architecture styles
of Robert C.

Where To
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In Action
Martin's Clean
Lambdas Streams
Architecture and
Alistair Cockburn's
Hexagonal
Style
Architecture. Then,
Programming
the book dives into
hands-on chapters
that show you how
to manifest a
hexagonal
architecture in
actual code. You'll
learn in detail
about different

Where To
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In Action
mapping strategies
between the layers
of a hexagonal
architecture and
see how to
assemble the
architecture
elements into an
application. The
later chapters
demonstrate how
to enforce
architecture
boundaries. You'll

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*also learn what
shortcuts produce
what types of
technical debt and
how, sometimes, it
is a good idea to
willingly take on
those debts. After
reading this book,
you'll have all the
knowledge you
need to create
applications using
the hexagonal*

Where To
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In Action
architecture style
Lambdas Streams
of web
development. What
you will
learnIdentify
potential
shortcomings of
using a layered
architectureApply
methods to enforce
architecture
boundariesFind out
how potential
shortcuts can

Where To Download Java 8

*affect the software
architecture
eArguments for
when to use which
style of architectur
eStructure your
code according to
the
architecture
Apply
various types of
tests that will cover
each element of
the
architecture*

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*this book is for This
book is for you if
you care about the
architecture of the
software you are
building. To get the
most out of this
book, you must
have some
experience with
web development.
The code examples
in this book are in
Java. If you are not*

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a Java programmer but can read object-oriented code in other languages, you will be fine. In the few places where Java or framework specifics are needed, they are thoroughly explained.

*Core Java SE 9 for
the Impatient*

Where To
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Java for Absolute
Beginners
Streams
Java 8 in Action
23rd International
Conference, FASE
2020, Held as Part
of the European
Joint Conferences
on Theory and
Practice of
Software, ETAPS
2020, Dublin,
Ireland, April
25-30, 2020,
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Java 8 Lambdas

Java 8 is a giant step forward for the Java language. In Project Lambda, Java gets a new closure syntax (lambda expressions), method-references, and default and static methods on interfaces.

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It manages to add many of the features of functional languages without losing the clarity and simplicity Java developers have come to expect. In addition, many of the existing Java core library classes have been enhanced with the new Streams API. This book will help you understand Java

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8, including: Project Lambda, the new Date-Time API, Streams, default methods, the Nashorn Javascript engine, and more.

Describes ways to incorporate domain modeling into software development.

Are you looking for a deeper understanding of the Java™ programming

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language so that you can write code that is clearer, more correct, more robust, and more reusable? Look no further! Effective Java™, Second Edition, brings together seventy-eight indispensable programmer's rules of thumb: working, best-practice solutions for the programming

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challenges you encounter every day. This highly anticipated new edition of the classic, Jolt Award-winning work has been thoroughly updated to cover Java SE 5 and Java SE 6 features introduced since the first edition. Bloch explores new design patterns and language idioms, showing you

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how to make the most of features ranging from generics to enums, annotations to autoboxing. Each chapter in the book consists of several "items" presented in the form of a short, standalone essay that provides specific advice, insight into Java platform subtleties, and

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outstanding code examples. The comprehensive descriptions and explanations for each item illuminate what to do, what not to do, and why. Highlights include: New coverage of generics, enums, annotations, autoboxing, the for-each loop, varargs, concurrency utilities,

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and much more
Updated techniques
and best practices on
classic topics,
including objects,
classes, libraries,
methods, and
serialization How to
avoid the traps and
pitfalls of commonly
misunderstood
subtleties of the
language Focus on the
language and its most

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fundamental libraries:
java.lang, java.util,
and, to a lesser extent,
java.util.concurrent
and java.io. Simply put,
Effective Java™,
Second Edition,
presents the most
practical, authoritative
guidelines available for
writing efficient, well-
designed programs.
Beginning Java 8
Language Features

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covers essential and advanced features of the Java programming language such as the new lambda expressions (closures), inner classes, threads, I/O, Collections, garbage collection, streams, and more.

Author Kishori

Sharan provides over 60 diagrams and 290 complete programs to

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help you visualize and better understand the topics covered in this book. The book starts with a series of chapters on the essential language features provided by Java, including annotations, inner classes, reflection, and generics. These topics are then complemented by

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details of how to use lambda expressions, allowing you to build powerful and efficient Java programs. The chapter on threads follows this up and discusses everything from the very basic concepts of a thread to the most advanced topics such as synchronizers, the fork/join framework,

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and atomic variables.
This book contains
unmatched coverage of
Java I/O, including
NIO 2.0, the Path API,
the FileVisitor API,
the watch service and
asynchronous file I/O.
With this in-depth
knowledge, your data-
and file-management
programs will be able
to take advantage of
every feature of Java's

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powerful I/O
framework. Finally,
you'll learn how to use
the Stream API, a new,
exciting addition to
Java 8, to perform
aggregate operations
on collections of data
elements using
functional-style
programming. You'll
examine the details of
stream processing such
as creating streams

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Programming

from different data sources, learning the difference between sequential and parallel streams, applying the filter-map-reduce pattern, and dealing with optional values.

Fundamental
Approaches to
Software Engineering
Build and Deploy
Serverless
Applications with Java

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In Action
Learn to Program the
Fundamentals the
Java 9+ Way

Style
Tackling Complexity
in the Heart of
Software

Lambda Expressions,
Inner Classes,
Threads, I/O,
Collections, and
Streams

Threads are a

Where To
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In Action
fundamental part
Lambdas Streams
of the Java
And Functional
platform. As
Style
multicore
Programming
processors
become the norm,
using concurrency
effectively
becomes essential
for building high-
performance
applications. Java

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And Functional
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Programming

SE 5 and 6 are a huge step forward for the development of concurrent applications, with improvements to the Java Virtual Machine to support high-performance, highly scalable

Where To
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In Action
concurrent classes
Lambdas, Streams
and a rich set of
And Functional
new concurrency
Style
building blocks. In
Programming
Java Concurrency
in Practice , the
creators of these
new facilities
explain not only
how they work
and how to use
them, but also the

Where To
Download Java 8
In Action
motivation and
Lambdas, Streams
design patterns
And Functional
behind them.

Style
However,
Programming
developing,
testing, and
debugging
multithreaded
programs can still
be very difficult; it
is all too easy to
create concurrent

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programs that appear to work, but fail when it matters most: in production, under heavy load. Java Concurrency in Practice arms readers with both the theoretical underpinnings and concrete

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And Functional
Style
Programming

techniques for
building reliable,
scalable,
maintainable
concurrent

applications.

Rather than simply
offering an
inventory of
concurrency APIs
and mechanisms,
it provides design

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In Action
rules, patterns,
Lambdas, Streams
And Functional
Style
Programming
that make it easier
to build
concurrent

programs that are
both correct and
performant. This
book covers: Basic
concepts of
concurrency and
thread safety

Where To
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Techniques for
Lambdas Streams
building and
And Functional
composing thread-
Style
safe classes Using
Programming
the concurrency
building blocks in
java.util.concurren
t Performance
optimization dos
and don'ts Testing
concurrent
programs

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And Functional
Style
Programming

Advanced topics
such as atomic
variables,
nonblocking
algorithms, and
the Java Memory
Model

If you ' re a
developer with
core Java SE skills,
this hands-on
book takes you

Where To
Download Java 8
In Action
through the
Lambdas Streams
language changes
And Functional
in Java 8 triggered
Style
by the addition of
Programming
lambda

expressions.

You ' ll learn
through code
examples,
exercises, and
fluid explanations
how these

Where To
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In Action
anonymous
Lambdas Streams
functions will help
And Functional
you write simple,
Style
clean, library-level
Programming
code that solves
business
problems. Lambda
expressions are a
fairly simple
change to Java,
and the first part
of the book shows

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Style
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you how to use
them properly.
Later chapters
show you how
lambda functions

help you improve
performance with
parallelism, write
simpler
concurrent code,
and model your
domain more

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Style
Programming

accurately,
including building
better DSLs. Use
exercises in each
chapter to help

you master
lambda

expressions in
Java 8 quickly

Explore streams,
advanced

collections, and

Where To
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In Action
other Java 8
Lambdas Streams
library
And Functional
improvements
Style
Leverage
Programming
multicore CPUs
and improve
performance with
data parallelism
Use techniques to
“lambdify” your
existing codebase
or library code

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Learn practical
Lambdas Streams
solutions for
And Functional
lambda expression
Style
unit testing and
Programming
debugging
Implement SOLID
principles of
object-oriented
programming with
lambdas Write
concurrent
applications that

Where To
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efficiently perform
Lambdas Streams
message passing
And Functional
and non-blocking
Style
I/O
Programming
Full coverage of
functional
programming and
all OCA Java
Programmer exam
objectives OCA,
Oracle Certified
Associate Java SE

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8 Programmer I
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Study Guide, Exam
And Functional
1Z0-808 is a
Style
comprehensive
Programming
study guide for
those taking the
Oracle Certified
Associate Java SE
8 Programmer I
exam (1Z0-808).
With complete
coverage of 100%

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of the exam
Lambdas, Streams
objectives, this
And Functional
book provides
Style
everything you
Programming
need to know to
confidently take
the exam. The
release of Java 8
brought the
language's biggest
changes to date,
and for the first

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exploring
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work under the
hood. You'll find

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technology Rust is
the perfect
language for
systems

programming. It
delivers the low-
level power of C
along with rock-
solid safety
features that let
you code
fearlessly. Ideal for

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applications
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requiring
And Functional
concurrency, Rust
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programs are
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compact, readable,
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famously smart
compiler helps
you avoid even
subtle coding
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structure. You ' ll
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implementations
for file
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discover awesome
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Practical examples

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programmers. No
previous
experience with
Rust required.

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About the author
Tim McNamara
uses Rust to build
data processing
pipelines and

generative art. He
is an expert in
natural language
processing and
data engineering.

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Java: A Beginner's
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Concurrency with
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testing are
generally
considered
separate areas
of expertise.**

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practical book,
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approach that
anyone who
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should be adept
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understanding
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will learn a
variety of
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the emphasis is
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such as ahead-
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Java-driven
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performance**

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programmer.**

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Programming in
Java teaches
Java developers
how to
incorporate the
most powerful
benefits of
functional
programming**

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**into new and
existing Java
code. You'll
learn to think
functionally
about coding
tasks in Java
and use FP to
make your
applications
easier to
understand,
optimize,**

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programming and
you'll be a
better Java
developer.
Fortunately,
you don't have
to master every
aspect of FP to
get a big
payoff. If you

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**take in a few
core
principles,
you'll see an
immediate boost
in the
scalability,
readability,
and
maintainability
of your code.
And did we
mention that**

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you'll have
fewer bugs?
Let's get
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Functional
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Java teaches
you how to
incorporate the
powerful
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into new and
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code. This book
uses easy-to-
grasp examples,
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illustrations
to teach core
FP principles
such as
referential
transparency,**

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**immutability,
persistence,
and laziness.
Along the way,
you'll discover
which of the
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inspired
features of
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**Writing code
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developers with
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experience.

About the
Author Pierre-
Yves Saumont is
a seasoned Java

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developer with
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on top of the
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features and
the functional
style that will
change and
improve your
code. This
short, targeted
book will help
you make the**

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**paradigm shift
from the old
imperative way
to a less error-
prone, more
elegant, and
concise coding
style that's
also a breeze
to parallelize.
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the syntax and
semantics of**

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functional
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which have been
around for
decades in
other
languages, you
can now write
elegant,

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**concise, less
error-prone
code using
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guide you
through the
paradigm
change, offer
the essential
details about
the new
features, and**

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**techniques to
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and sample code
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system to the
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expressions and*

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complex systems
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