

Java™ magazine

By and for the Java community 

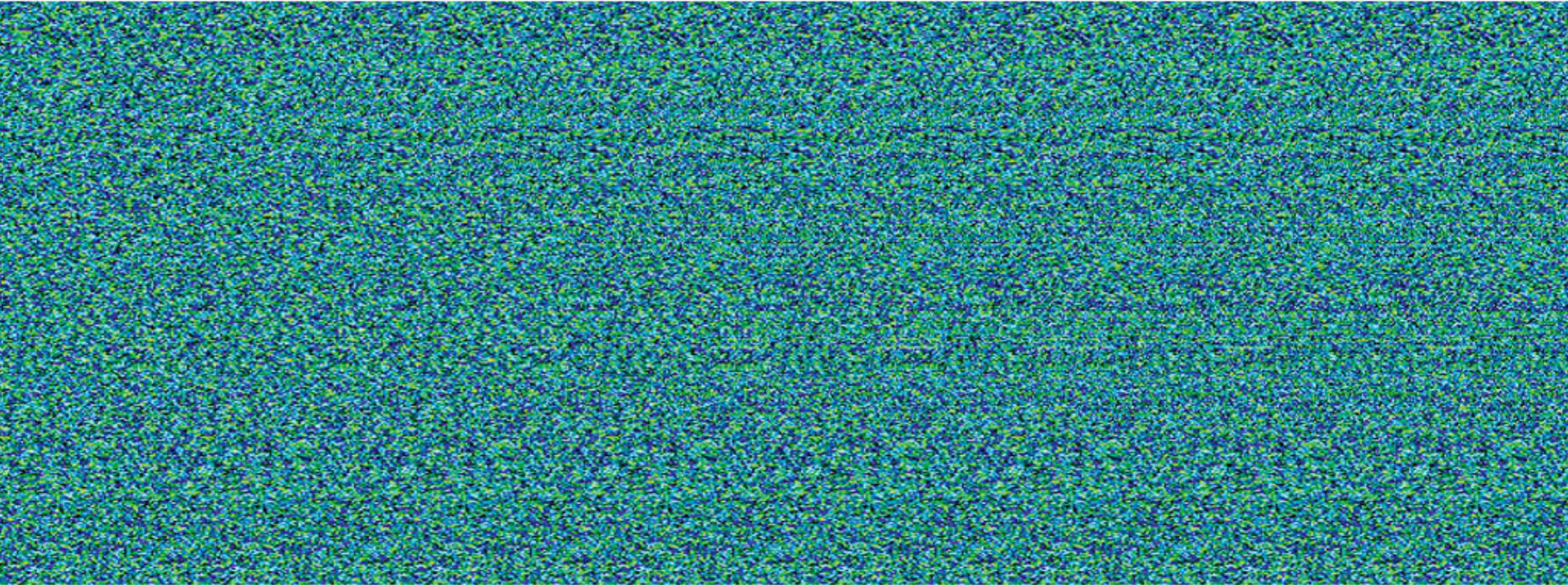
THE INTERNET OF THINGS JAVA IS EVERYWHERE

13
HENRIK STÅHL
ON JAVA AND IOT

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INDUSTRIAL AUTOMATION
WITH ROBOTS

+ **20**
JAVA: THE NEXT
GENERATION

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Bruno Maisonnier



Paul Perrone



Andra Kay

COMMUNITY KEYNOTE

At the JavaOne Community keynote, Java Evangelist James Weaver gathered a large group of innovators, who showed off Java-based projects—everything from programs that teach kids to code to automated vehicle testing systems that can save lives.

Robotics was a key theme. Some highlights: **Andra Kay**, director at Silicon Valley Robotics, said, "By 2020 your household robot will be your house."

Bruno Maisonnier, CEO at Aldebaran, a world leader in humanoid robots, presented a video showing robots teaching children mathematics in schools.

Paul Perrone of Perrone Robotics lamented the 30,000 deaths from auto accidents each year

in the United States, and showed a video about his automated vehicle testing system with an advanced braking system that could save lives—a first step toward cars with full autonomy.

The Community keynote ended with the traditional T-shirt toss (or catapult), led by **James Gosling**. It was the perfect ending to a great week of information sharing, learning, and community building.

Watch the [Community keynote](#).

NullPointers Rock JavaOne



The NullPointers, the unofficial Java community band, rocked JavaOne at the JCP party and later in the week at Duke's Café. The band is made up entirely of JavaOne community members.

JAVA DEVELOPMENT FOR THE INTERNET OF THINGS



Oracle's **Henrik Ståhl** discusses the Internet of Things for Java developers.
BY TIMOTHY BENEKE



The Internet of Things (IoT) is poised to blow into our daily lives and make many of the things we interact with more efficient, faster, and more fun. Analysts predict that by 2020 there will be 50 billion devices wirelessly connected to each other and making smart decisions for us. We're seeing early adoption in healthcare, including lifestyle health devices, patient monitoring, and home healthcare. Another big area is telematics in the automotive industry—not to mention home automation. Suffice it to say that everything from our homes to healthcare to the workplace will change due to the IoT.

For Java developers, many opportunities and questions present themselves. How can they deploy their present skills to better apply them to IoT development? What changes

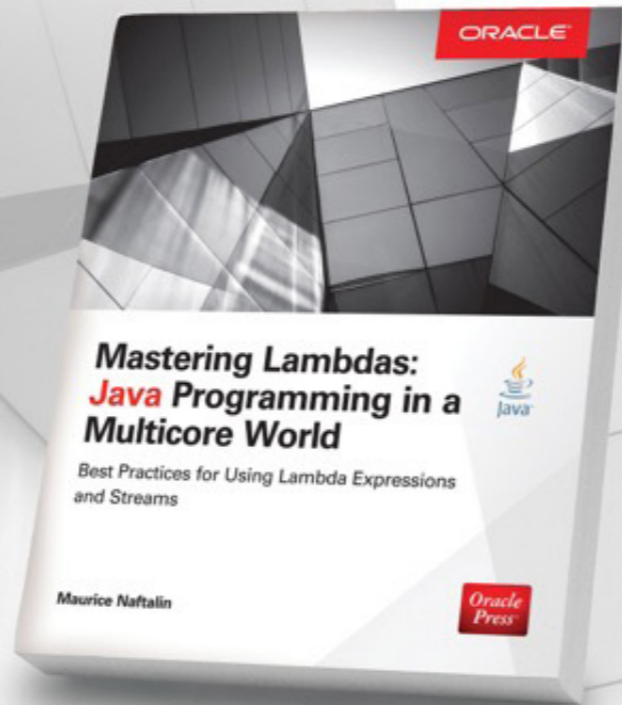
Written by leading Java experts, Oracle Press books offer the most definitive, complete, and up-to-date coverage of Java available.



Iron-Clad Java: Building Secure Web Applications

Jim Manico, August Detlefsen

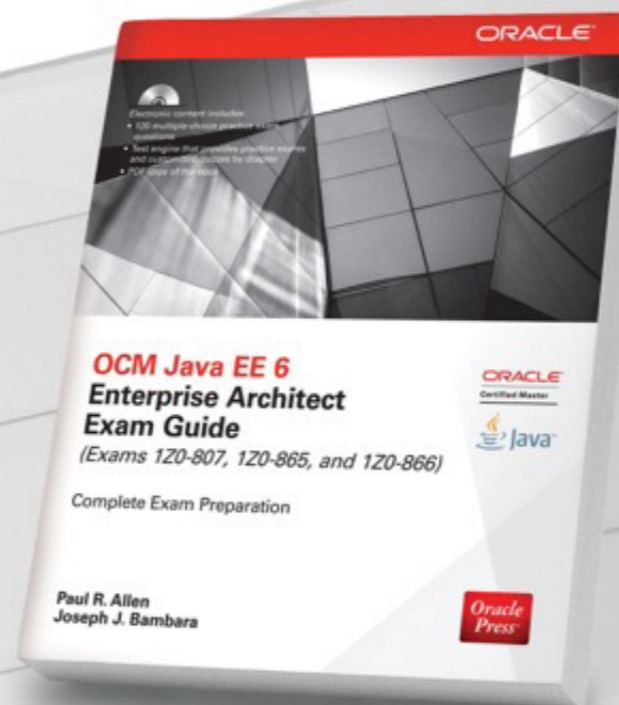
Develop, deploy, and maintain secure Java applications using the expert techniques and open source libraries in this Oracle Press guide.



Mastering Lambdas: Java Programming in a Multicore World

Maurice Naftalin

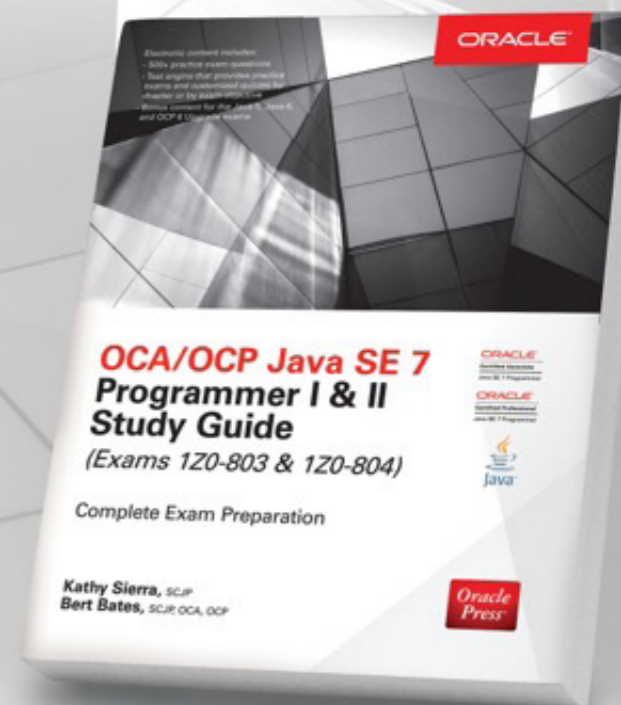
Effectively use lambda expressions to maximize performance improvements provided by multicore hardware.



OCM Java EE 6 Enterprise Architect Exam Guide

Paul Allen, Joseph Bambara

Get complete details on Oracle Certified Master Java EE 6 Enterprise Architect Exams 1Z0-807, 1Z0-865, and 1Z0-866. 120 multiple-choice practice exam questions are included.



OCA/OCP Java SE 7 Programmer I & II Study Guide

Kathy Sierra, Bert Bates

This self-study tool offers full coverage of OCA/OCP Exams 1Z0-803 and 1Z0-804. Electronic content includes 500 practice exam questions.



More Organizations

Girls Who Code

This US-based nonprofit organization works to educate, inspire, and equip high school girls with the skills and resources to pursue opportunities in computing fields.

CoderDojo

CoderDojo is a global network of volunteer-led, independent, free computer programming clubs for young people between 7 and 17 who learn how to code; develop websites, apps, programs, and games; and explore technology.

Maker Kids

The Toronto, Canada-based Maker Kids builds maker learning activities for kids and educators and runs one of the world's only "makerspaces" for kids. Curriculum and training are available to educators, parents, and interested adults in any location.

Hour of Code

This global programming movement is reaching tens of millions of students in every country. Hour of Code takes place during Computer Science Education Week, December 8 to 14, 2014. Hour of Code offers one-hour tutorials in more than 30 languages for ages 4 and up.



Daniel de Luca, worldwide manager of Devox4Kids (top row, center, in white), and Arun Gupta of Devox4Kids Bay Area (top row, second from right) with Devox4Kids day participants, volunteers, and NAO robots.

training to colleges and universities. JEDI4KiDS was developed when the JEDI founders realized that there was a need to teach programming at an early age. The program offers one-day workshops in Greenfoot, LEGO Mindstorms, and Scratch in partnership with Devox4Kids.

"Coding allows children to think creatively and use their brains in a way they have never imagined," says Gerald Concha, founding partner of JEDI4KiDS. "It allows them to feel confident that

they can solve problems. If there is something they don't like, they can fix or change it. If there is something they wish they had, they can create it."

The momentum around exposing more kids to computer technology opens the door to a bright future—both for Java and the next generation of Java developers, technologists, and creative minds. [.</article>](#)

Caroline Kvitka is editor in chief of *Java Magazine*.

