



Raspberry Pi with Java: Programming the Internet of Things (IoT) (Programming & Web Development - OMG)

By Stephen Chin, James Weaver

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Use Raspberry Pi with Java to create innovative devices that power the internet of things!

Raspberry Pi with Java: Programming the Internet of Things (IoT) fills an important gap in knowledge between seasoned Java developers and embedded-hardware gurus, taking a project-based approach to skills development from which both hobbyists and professionals can learn. By starting with simple projects based on open-source libraries such as Pi4J, hobbyists can get immediate results without a significant investment in time or hardware.

Later projects target simplified industrial use cases where professionals can start to apply their skills to practical problems in the fields of home automation, healthcare, and robotics. This progression prepares you to be an active participant in the IoT revolution that is reshaping our lives.

For the hobbyist:

- Hardware used in projects is affordable and easily accessible
- Follows a project-based learning approach with a gradual learning curve
- Projects are based on open-source code repositories with commercial friendly licenses

For the professional computer engineer:

- Uses an industry-standard platform that allows for high performance, secure, production-ready applications
- Introduces Java SE Embedded for large devices and Java ME Embedded for small devices
- Code is portable to a wide variety of ARM and MIPS based platforms
- Provides practical skill development with advanced projects in the fields of home automation, healthcare, and robotics

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Editorial Review

About the Author

Stephen Chin is a Java Ambassador for Oracle specializing in embedded and UI technology, and the JavaOne Content Chair. He has been featured at Java conferences worldwide. When he is not traveling, Stephen enjoys teaching kids how to do embedded and robot programming together with his 11-year-old daughter.

James L. Weaver is a Java Ambassador for Oracle, developer, author, teacher, and international speaker focused on client-side Java, robotics, and the internet of things (IoT). He tweets at @JavaFXpert.

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