

Building the Web of Things: With examples in Node.js and Raspberry Pi

By Dominique Guinard, Vlad Trifa

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Summary

A hands-on guide that will teach how to design and implement scalable, flexible, and open IoT solutions using web technologies. This book focuses on providing the right balance of theory, code samples, and practical examples to enable you to successfully connect all sorts of devices to the web and to expose their services and data over REST APIs.

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

About the Technology

Because the Internet of Things is still new, there is no universal application protocol. Fortunately, the IoT can take advantage of the web, where IoT protocols connect applications thanks to universal and open APIs.

About the Book

Building the Web of Things is a guide to using cutting-edge web technologies to build the IoT. This step-by-step book teaches you how to use web protocols to connect real-world devices to the web, including the Semantic and Social Webs. Along the way you'll gain vital concepts as you follow instructions for making Web of Things devices. By the end, you'll have the practical skills you need to implement your own web-connected products and services.

What's Inside

- Introduction to IoT protocols and devices
- Connect electronic actuators and sensors (GPIO) to a Raspberry Pi
- Implement standard REST and Pub/Sub APIs with Node.js on embedded systems
- Learn about IoT protocols like MQTT and CoAP and integrate them to the Web

of Things
- Use the Semantic Web (JSON-LD, RDFa, etc.) to discover and find Web Things
- Share Things via Social Networks to create the Social Web of Things
- Build a web-based smart home with HTTP and WebSocket
- Compose physical mashups with EVRYTHNG, Node-RED, and IFTTT

About the Reader

For both seasoned programmers and those with only basic programming skills.

About the Authors

Dominique Guinard and **Vlad Trifa** pioneered the Web of Things and cofounded EVRYTHNG, a large-scale IoT cloud powering billions of Web Things.

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Editorial Review

About the Author

Dominique Guinard is the CTO and co-founder of EVRYTHNG, a large-scale Web of Things cloud making products smart by connecting them the Web. Dom Guinard got his Ph.D. from ETH Zurich, where he worked on the early concepts of the Web of Things architecture: an open application layer for the Internet of Things. Recently Dom joined the Web of Things Interest Group at W3C with EVRYTHNG as a founding member organization.

Vlad Trifa is co-founder and head of R&D at EVRYTHNG - a new Internet software company providing online profiles, or "Active Digital Identities," for any physical object. He completed his PhD at the Institute for Pervasive Computing at ETH Zurich working on the Web of Things and real-time data sharing, collection, and processing using Web technologies.

Users Review

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