

Making Things Talk Using Sensors Networks And Arduino To See Hear And Feel Your World Physical Methods For Connecting Physical Objects Pdf

Making Things Talk (Make)

2012-06-22 Tom Igoe Es macht Spaß, elektronische Dinge zu bauen, die mit der realen Welt interagieren. Aber so richtig cool wird's erst, wenn die Dinge anfangen sich untereinander zu unterhalten. Mit 33 leicht nachzubauenden Projekten wird dir in Making Things Talk - Die Welt hören, sehen, fühlen gezeigt, wie du deine Gadgets dazu bringst, mit dir und mit der Umwelt zu kommunizieren. Das Buch ist genau für die geschrieben, die zwar nur wenig technische Erfahrung, dafür aber umso mehr geekige Neugierde mitbringen. Lass Mikrocontroller, PCs, Server und Smartphones miteinander quatschen. Vielleicht willst du deinen Freunden zeigen, wie man das Wetter aus unterschiedlichen Teilen der Welt clever darstellen kann. Vielleicht bist du aber auch eine Künstlerin, die ihren Skulpturen mechanisches Leben einhauchen möchte. In diesem Standardwerk lernst du, wie man Geräte-Netzwerke schafft, die sich Daten teilen und auf Befehle von außen reagieren. Mit ein wenig Elektronikgrundwissen, preiswerten Mikrocontrollern und ein paar Netzwerkmodulen baust du coole Projekte: Blink - Dein allererstes Programm Monski Pong - Steuere ein Computerspiel mit einem flauschigen, pinkfarbenen Stoffäffchen Internet-Luftqualitätsmesser - Bau eine Internet-Messstation für Luftqualität Giftwarnung in der Werkstatt - Verwende ein XBee-Modul, Sensoren und ein Stofftier, um dich vor giftigen Dämpfen warnen zu lassen. Bluetooth GPS - Bau einen batteriebetriebenes GPS-Gerät, das via Bluetooth seinen Standort mitteilt. Tweets mit RFID - Lese einen Twitter-Stream via RFID-Tags.

Making Things Talk

2011-09-08 Tom Igoe Make microcontrollers, PCs, servers, and smartphones talk to each other. Building electronic projects that interact with the physical world is good fun. But when the devices you've built start to talk to each other, things really get interesting. With 33 easy-to-build projects, Making Things Talk shows you how to get your gadgets to communicate with you and your environment. It's perfect for people with little technical training but a lot of interest. Maybe you're a science teacher who wants to show students how to monitor the weather in several locations at once. Or a sculptor looking to stage a room of choreographed mechanical sculptures. In this expanded edition, you'll learn how to form networks of smart devices that share data and respond to commands. Call your home thermostat with a smartphone and change the temperature. Create your own game controllers that communicate over a network. Use ZigBee, Bluetooth, Infrared, and plain old radio to transmit sensor data wirelessly. Work with Arduino 1.0, Processing, and PHP--three easy-to-use, open source environments. Write programs to send data across the Internet, based on physical activity in your home, office, or backyard. Whether you want to connect simple home sensors to the Internet, or create a device that can interact wirelessly with other gadgets, this book explains exactly what you need.

iOS Sensor Apps with Arduino

2011-09-20 Alasdair Allan This book looks at how to integrate iOS devices intodistributed sensors network, both to make use of its ownon-board sensors in such networks, but also as a hub.Beyond the discussion of basic client-serverarchitectures, and making use of the existing wirelescapabilities, this book examines how to connect iOSdevices to microcontroller

Making Things Talk

2007-09-28 Tom Igoe Provides instructions for building a variety of projects that are able to communicate with one another, including a video game controlled by a stuffed monkey and a battery powered GPS that reports its location over Bluetooth.

Making Things Talk

2017-08-14 Tom Igoe The workbenches of hobbyists, hackers, and makers have become overrun with microcontrollers, computers-on-a-chip that power homebrewed video games, robots, toys, and more. In Making Things Talk, Tom Igoe, one of the creators of Arduino, shows how to make these gadgets talk. Whether you need to connect some sensors to the Internet or create a device that can interact wirelessly with other creations, this book shows you what you need. Although they are powerful, the projects in this book are inexpensive to build: the Arduino microcontroller board itself ranges from around \$25 to \$40. The networking hardware covered here includes

Ethernet, Wi-Fi, Bluetooth, and can be had for \$25 to \$50. Fully updated for the latest Arduino hardware and software, this book lets you combine microcontrollers, sensors, and networking hardware to make things... and make them talk to each other!

Getting Started with RFID

2012-03-09 Tom Igoe If you want to experiment with radio frequency identification (RFID), this book is the perfect place to start. All you need is some experience with Arduino and Processing, the ability to connect basic circuits on a breadboard with jumper wire—and you're good to go. You'll be guided through three hands-on projects that let you experience RFID in action. RFID is used in various applications, such as identifying store items or accessing a toll road with an EZPass system. After you build each of the book's projects in succession, you'll have the knowledge to pursue RFID applications of your own. Use Processing to get a sense of how RFID readers behave Connect Arduino to an RFID reader and discover how to use RFID tags as keys Automate your office or home, using RFID to turn on systems when you're present, and turn them off when you leave Get a complete list of materials you need, along with code samples and helpful illustrations Tackle each project with easy-to-follow explanations of how the code works

Getting Started with the Internet of Things

2011-05-24 Cuno Pfister This hands-on introductory guide will quickly show how to program embedded devices using the .NET Micro Framework and the Netduino Plus board, and then connect these devices to the Internet using Pachube, a cloud platform for sharing real-time sensor data.

Making Things See

2012-01-27 Greg Borenstein A guide to creating computer applications using Microsoft Kinect features instructions on using the device with different operating systems, using 3D scanning technology, and building robot arms, all using open source programming language.

Making Things Talk

2011-09-15 Tom Igoe Provides instructions for building thirty-three projects that interact with the physical world, including a stuffed monkey video game controller and a battery powered GPS that reports its location over Bluetooth.

Getting Started with Arduino

2011-09-13 Massimo Banzi Presents an introduction to the open-source electronics prototyping platform.

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Zara had always dreamed of exploring the world, but she never imagined that she would discover a hidden civilization. She had joined an expedition to the Amazon rainforest, hoping to find clues about her missing father, who had vanished while searching for the legendary city of Z. She had inherited his passion for adventure, and his journal, which contained maps and notes about his quest. But she soon realized that she was not the only one looking for Z. A ruthless treasure hunter, who had a personal vendetta against her father, was also on her trail. He would stop at nothing to find the city and claim its secrets for himself. Zara had to race against time and danger, and rely on her courage and intelligence, to uncover the truth about Z and her father's fate. But she also had to face the mysteries of her own heart, as she found herself drawn to a mysterious native guide, who seemed to know more than he let on. Zara was about to embark on the most thrilling and dangerous journey of her life, and she would never be the same again.

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bookshelves where countless tales compete for recognition, "Harmonys Embrace" by the prodigious storyteller Harmony Melody has resonated with readers on a frequency that transcends the ordinary. The symphony of praise, encapsulated in the form of stellar ratings, heralds Melody as a virtuoso of storytelling.

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sun-soaked vineyards of Tuscany, a renowned sommelier named Isabella uncorked a bottle of wine rumored to be the elixir of immortality. the ancient vintage touched her lips, Isabella found herself entangled in a centuries-old conspiracy that spanned continents and epochs.

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realm of historical fiction, where the past comes alive through the artistry of words, "Echoes of Eternity" by the maestro Penelope Timeless has garnered more than just historical accuracy—it has amassed a trove of glowing reviews and accolades, making it the gold standard in the genre.

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