



The Connected Life, By Design

Understand smart devices, shape their data, and make connection work for you

Make the invisible useful.

SHAD EDDIE MONGRUE

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SHELF 16 OF 32 · INTERNET OF THINGS · CORE BOOK

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Every statistic, study finding and documented example is numbered and listed in the Sources, with a link to the page it came from. Each was checked word for word against its source in October 2026. Stories marked "composite example" are illustrations drawn from common situations; their names and details are not real people. Stories marked "documented example" come from the cited sources.

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An Invitation

A connected device can make an ordinary moment feel a little more responsive. A light comes on when you ask. A thermostat adjusts the temperature. A speaker answers a question while your hands are busy. None of that is magic, and none of it is automatically worth having. But the small exchange between you and a device opens up a surprisingly large set of questions: What did it notice? Where did that information go? What happens if it misunderstands you—or simply stops working?

That is why the connected life deserves more than a shopping list or a warning label. It sits where daily routines meet software, networks, homes, and public spaces. The Federal Trade Commission describes smart homes as including devices such as connected thermostats, light bulbs, security systems, and energy-saving appliances; some, including bulbs and security systems, may not be obvious to new owners as smart devices.¹ A useful first step is learning to notice the connection, even when it is tucked inside something familiar.

The subject is already close to everyday life for many people, though no single device is universal. Pew Research Center reported that 35% of U.S. adults had a smart speaker with AI features, while 18% reported a smart doorbell and 13% a robot vacuum.² Those figures are not a scorecard for how modern you are. They are a reminder that connected technology can arrive through practical purchases, gifts, or features built into things you already use.

To understand a connected thing, you do not need to become an engineer. NIST describes an IoT device as having a sensor or actuator that interacts with the physical world and a network interface that connects it to the digital world.³ Put simply, something notices or does something, and a connection may carry information between the device and other parts of a system. That plain chain—notice, communicate, act—makes the technology easier to question and less mysterious.

There is room for affection here, but it need not be uncritical. A well-chosen connection may reduce a bit of friction, support someone's independence, or make a routine easier to manage. It may also bring setup chores, confusing settings, privacy questions, or another object that needs attention. The point is not to call every device a breakthrough. It is to become good at recognizing

when a connection serves a human purpose, and when it asks more of you than it gives back.

This book is an invitation to build that judgment. You can be curious without buying everything, cautious without assuming the worst, and comfortable changing your mind. A connected life does not have to be a fully connected life. It can be a small set of useful choices, kept because they fit your priorities and revised when they no longer do. That kind of thoughtful connection is worth understanding—and, when it helps, worth loving.

Reasons to fall in love with this subject

- **It makes the ordinary newly interesting** A thermostat, doorbell, speaker, or light can be more than an object with a button. It can be part of a system that senses something, shares information, and responds. Once you see that pattern, everyday technology becomes easier to understand. You can ask how it works without needing to be dazzled by it. Curiosity turns a familiar device into a small, useful window on how the digital and physical worlds meet.
- **It puts usefulness ahead of novelty** The best question is not whether a device has an impressive feature. It is whether that feature matters in your actual day. Maybe a connection could ease a recurring annoyance; maybe a simpler tool already does the job. Learning to compare those options is a quiet kind of freedom. You get to choose by purpose rather than pressure, and to decide that a device is not for you without feeling that you missed the future.
- **It can make room for different ways of living** Connected technology can be designed around particular needs, not just convenience for its own sake. For example, a model smart home using sensors and antennas has been described as generating warnings about obstacles to help blind users navigate safely.⁴ That possibility is meaningful, while still leaving important questions about fit, usability, and individual preference. The human goal is not to make everyone use the same technology; it is to make useful choices available to the people they are meant to support.
- **It teaches you to notice what data means** Information can sound abstract until you connect it to a routine. A device may record a reading, pass it to an app, or use it to trigger an action. Understanding that path helps you ask sensible questions: What is collected? Who can access it? How long is it kept? Those questions are not a demand to become

suspicious of everything. They are ordinary tools for deciding what you are comfortable sharing and what a service needs in return.

- **It rewards thoughtful simplicity** A home full of automations is not automatically a better home. A small number of dependable settings can be easier to live with than a maze of clever rules. You can try one change, see whether it helps, and keep a manual option for tasks that matter. This approach respects your time and attention. It also leaves room for the charmingly low-tech solution: sometimes the best automation is remembering where you put the switch.
- **It gives you permission to revise** Technology changes, needs change, and a once-helpful device can become a source of clutter or upkeep. Loving the subject does not mean keeping every connection forever. It means knowing how to review what you use, protect what matters, and let go responsibly when a device no longer earns its place. The result is not a perfect setup. It is a connected life you can adjust, rather than one that quietly makes all the decisions for you.

BY THE END OF THIS BOOK, YOU WILL BE ABLE TO

- Explain the basic pattern by which a device senses, communicates, and may act.
- Recognize that familiar household objects can include connected features.
- Ask what information a device collects, where it travels, and who may access it.
- Choose a connected solution by starting with a real need and comparing simpler options.
- Set up a device carefully, review its permissions, and test its basic functions.
- Build a small routine, check whether it works, and keep a manual alternative for important tasks.
- Think through updates, account access, compatibility, outages, maintenance, and responsible retirement.

How to use this book

Read the chapters in order if you want a guided path from basic ideas to a personal practice. Each chapter builds on the last: first you learn to recognize

connected systems, then you consider their data and purpose, and then you practice choosing, setting up, and evaluating them. You can also turn to a chapter when a particular question is on your mind.

Keep your own devices—or a device you are considering—in view as you read. When a chapter raises a question, write it down in plain language. You might note what the device seems to sense, what it shares, or what would count as a worthwhile benefit for you. You do not need to answer everything at once. A clear question is a useful start.

Try changes gradually. Review instructions before setup, test the basic function before relying on an automation, and notice whether a setting makes daily life easier or more complicated. If a connection does not fit, that is useful information, not a personal failure. The aim is not to optimize every corner of your life; it is to make choices you understand and can revise.

HOW THIS BOOK HANDLES EVIDENCE

This book distinguishes documented examples, which are based on the numbered sources cited in the text, from composite examples, which are illustrative situations rather than reports about real people. Citations identify the source for factual claims; they are not a guarantee that a product will work the same way in every home. The book is educational, not personal professional advice. Connected devices have limits, trade-offs, and changing support conditions, so use the ideas here to inform your own choices rather than as promises of safety, savings, accessibility, or results.

A World That Answers Back

A COMPOSITE EXAMPLE · NAMES AND DETAILS ARE ILLUSTRATIVE

Mara comes home with grocery bags and a damp sleeve from the rain. The porch light has switched on before she reaches the steps. Inside, a thermostat is holding the temperature she prefers, and a small speaker offers the weather while she puts the kettle on. Her phone shows a notification from the doorbell camera: a delivery has arrived. None of these objects looks like a science-fiction control room. They look like the ordinary equipment of a home, only with a little more information moving between them.

Mara likes the porch light. She is less sure about the camera. She appreciates not having to adjust the thermostat every time the weather changes, but she wonders what information it keeps and who else might see it. The speaker is useful when her hands are full; some evenings, though, she would rather have a quiet kitchen.

That mixture is a sensible place to begin. Connected devices can make a familiar task easier, add a new way to get help, or simply satisfy curiosity. They can also ask for attention, share data, and introduce new chores. You do not need to love every device—or reject them all—to enjoy learning how this connected world works.

The connected world is closer than it looks

When people picture the Internet of Things, they may imagine a dramatic display of screens and blinking lights. In daily life, the connected world is often quieter: a thermostat, a bulb, a security system, or an appliance that communicates with an app. The Federal Trade Commission describes smart homes as including connected thermostats, light bulbs, security systems, and energy-saving appliances.¹ Some devices are less obvious than others. A thermostat may announce itself as “smart,” while a light bulb or security system may not look different enough to catch your attention.¹

That matters when you move into a home, inherit a device, or find an unfamiliar app already on a household phone. The first question is not whether

a gadget is impressive. It is whether something in your environment is sensing, communicating, or acting in ways you should understand. A connected bulb might be controlled from a phone; a security system might send alerts; an appliance might connect to a service outside the home. You do not have to learn every technical detail at once. Start by noticing which objects have apps, network settings, accounts, or instructions about updates.

Connected life also reaches beyond the front door. Public spaces can use networks of sensors to gather information about their surroundings. At Chicago's Wrigley Field, a project connected with the Array of Things used sensors to explore environmental conditions and questions about the ballpark experience.⁵ This is a different scale from a home speaker, but the basic idea is familiar: a physical place produces signals, and a connected system makes those signals available for analysis or use.

A small chain turns signals into actions

A simple way to understand a connected device is to follow its chain. First, something is sensed. Then information is processed, shared, or both. Finally, the system may display a result or take an action. A thermostat senses conditions; its software may use that information to guide heating or cooling. A connected doorbell can register activity and send a notification. A speaker receives a request and responds through sound. The details vary, but the chain gives you a map.

NIST describes an IoT device as having at least one sensor or actuator that interacts with the physical world and a network interface that connects it to the digital world.³ A product can include more than the object in your hand: it may also rely on components such as an app or a backend service.³ That means a device's behavior can depend on several parts working together. If a notification never arrives, the issue might be the sensor, the device's connection, an account setting, an app, or a service. Knowing the chain helps you troubleshoot without assuming the gadget is either magic or broken beyond repair.

It also helps you ask better questions before connecting something. What does it sense? What can it do? What information must travel somewhere else for it to work? Does it need a phone, an account, or an internet connection? If the network goes down, what still works? These questions turn a vague promise into a practical picture of the system. You can then decide whether the connection solves a problem you actually have.

The chain offers a useful way to locate trade-offs, too. A device that reacts automatically may save you a repeated step, but it may also need information about your routines. A camera can help you check an entrance, but it involves a different kind of data than a connected light. The point is not to treat every sensor as equally sensitive. It is to notice what each part contributes, and what you are giving the system in return.

Convenience is real; so is the choice

A well-chosen connection can remove a small friction from a day. You may value a light that you can control without crossing a dark room, a reminder that arrives when you need it, or an appliance that lets you check its status without walking back to it. Small conveniences are not silly just because they are small. Repeated tasks occupy time and attention, and a tool that fits your life can give some of that attention back.

But “smart” does not automatically mean easier. A device can add setup, account management, notifications, updates, troubleshooting, or a new dependency on an app. A feature that sounds helpful in a product description may not help with your particular routine. Ask what you want to become easier, then picture the whole experience: buying or acquiring the device, setting it up, using it, maintaining it, and eventually replacing or removing it. If the practical benefit appears only in the sales pitch, you have learned something useful before spending money or effort.

Adoption figures can put the landscape in perspective without telling you what to buy. Pew Research Center reported that 35% of U.S. adults say they have a smart speaker with AI features, while 18% report a smart doorbell and 13% a robot vacuum.² Those numbers show that these devices are present in many ordinary lives, but they do not tell us whether owners find them worthwhile, how often they use them, or whether they suit your needs. Popularity is context, not a verdict.

You are allowed to choose a simpler alternative. A regular switch, a paper reminder, a manual thermostat, or simply doing a task by hand may be more dependable or less distracting for you. The goal is not to turn every object into a connected object. The goal is to make a deliberate match between a tool and a need—and to leave a gap where no tool is needed.

Public sensors, shared questions

A connected device in a public place raises questions that differ from those at home. Who decides what the system measures? Who can use the results? What is made public, and what remains protected? A city sensor, for example, can help people study environmental conditions or infrastructure. But useful information is not the only consideration; people also have a stake in how data about shared places is gathered and handled.

The Array of Things project in Chicago offers a concrete example of connection serving public curiosity. At Wrigley Field, the Cubs wanted to explore questions including how conditions might differ between upper and lower decks, how far game-day noise might travel, and whether attendees were satisfied with their experience.⁵ Across four games, nearly 5,000 fans answered a satisfaction question at one of five exit-gate stations.⁵ The project also involved students who built technology for the sensor network, and the Cubs planned to share data back with Lane Tech for future workshops.⁵

A project like this does not prove that every public sensor is useful, or that every person will agree with how a system is designed. It does show how sensing can support questions about a place and create information that people may be able to examine. When you encounter connected technology in a shared space, it is reasonable to ask what purpose it serves, what it measures, and who benefits. Curiosity and scrutiny belong together.

RESEARCH SPOTLIGHT

Research spotlight

Pew Research Center reported that 35% of U.S. adults have a smart speaker with AI features. Its figures also show differences by age: ownership was reported by 41% of adults ages 30–49 and 24% of those 65 and older.² A separate overall estimate says smartwatch ownership was 37%.² These figures are a snapshot of reported ownership, not a measure of how often people use their devices, how satisfied they are, or what the devices do for them. They also cannot tell you whether a smart speaker or smartwatch would be useful in your home. What they can do is make one point clear: connected devices are not a far-off curiosity. Many people already encounter them as part of everyday life, while plenty of others do not own them. Either choice is normal.

A life example

A DOCUMENTED EXAMPLE

A ballpark becomes a place to ask questions

Chicago's Array of Things project brought connected sensing into a public setting at Wrigley Field. Lane Tech students built technology for the project, a sensor network intended to collect information about activity, the environment, and infrastructure.⁵ At the ballpark, the Cubs were interested in questions such as whether weather differed between seating decks, how far game-day noise spread into the surrounding neighborhood, and whether attendees were happy with their experience.⁵

For one part of that work, five fan-sentiment stations were set up at exit gates. Across four games, nearly 5,000 fans responded to a question about whether they had had a good time.⁵ The Cubs said they planned to leave the sensors in place while they remained functional and share data with Lane Tech for future workshops.⁵

This example is not a claim that sensors can answer every question about a place. A measurement gives you information, but people still have to decide what it means and what to do with it. The appealing part is the possibility: technology can help a community investigate its own surroundings, and the process can invite learners into the work. The sensible part is keeping the purpose visible. Ask what is being measured, how the results will be used, and whether the information serves a real question.

TRY THIS

Map one connection in your day

Choose one connected device you already use, or one you are considering, and follow its path from your need to its result.

1. Name the task you want to make easier, more accessible, safer, or more interesting.
2. Identify what the device senses or receives. If you are unsure, check its instructions or settings rather than guessing.
3. Trace where the information goes: to the device itself, a phone app, an account, or another service, if applicable.
4. Notice what action or result follows, and what might stop working if the power, network, or app is unavailable.

5. Compare the connected option with one simpler alternative, such as a manual control or an existing routine.
6. Decide what would make the connection worth keeping, and what sign would tell you it is adding more work than value.

Myths and honest truths

- **Myth:** If it looks ordinary, it probably is not a connected device. **Truth:** Some connected devices, including light bulbs and security systems, may be difficult to recognize as smart devices.¹ Look for an app, account, network setting, or product instructions that describe connected functions.
- **Myth:** A popular device must be a good fit for me. **Truth:** Ownership figures show what people report having, not whether a device is useful or satisfying for you. Start with your own need and compare the whole experience, including setup and maintenance.
- **Myth:** A connected home has to be a fully connected home. **Truth:** You can keep the useful connections and leave other tasks manual. A deliberate choice not to connect something is part of shaping your connected life.

KEY TAKEAWAYS

- Connected devices are already woven into ordinary homes and public places.
- Follow the chain from sensing, through processing or sharing, to the result or action.
- Convenience matters, but so do setup, attention, data, and reliability.
- Popularity is not proof that a device fits your needs.
- A thoughtful connected life includes the freedom to say no.

REFLECT

1. Which connected device in your day makes a task noticeably easier, and what makes it worth keeping?
2. What device or feature would you rather keep manual, and why?
3. When you encounter sensors in a shared place, what would you want to know about their purpose and the information they produce?

Nine more chapters are waiting

You've read the Introduction and Chapter 1. The full 92-page book continues with:

- CH. 2 What Makes a Thing Smart
- CH. 3 The Story Your Devices Tell
- CH. 4 Start With a Human Need
- CH. 5 Make the First Connection
- CH. 6 Build Routines, Not Complexity
- CH. 7 Keep Connection in Its Place
- CH. 8 When Devices Don't Get Along
- CH. 9 Measure What Matters
- CH. 10 A Connected Life You Can Revise

Plus the research analysis "What the Evidence Says", a 30-day practice plan, a glossary, and every source with full research credits.

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Sources for these chapters

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- 1 **Federal Trade Commission (FTC).** *Buying or selling a “smart” home? Read this..* January 3, 2018. <https://consumer.ftc.gov/consumer-alerts/2018/01/buying-or-selling-smart-home-read>
- 2 **Pew Research Center.** *How opinions and use of AI differ by age.* June 17, 2026. <https://www.pewresearch.org/internet/2026/06/17/how-opinions-and-use-of-ai-differ-by-age/>
- 3 **NIST.** *Fact Sheet: Consumer IOT Product Cybersecurity.* June 2023. <https://www.nist.gov/system/files/documents/2023/06/08/FINAL%20Fact%20Sheet%20NIST%20IR%208425%20Consumer%20IoT%20Product%20Cybersecurity%20Baseline.pdf>
- 4 **Public Library of Science (PLOS).** Sally Lindsay. *Accessible independent housing for people with disabilities: A scoping review of promising practices, policies and interventions.* January 25, 2024. <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0291228>
- 5 **University of Chicago News.** *Students and UChicago scientists turn Wrigley Field into data lab.* Jun 26, 2018. <https://news.uchicago.edu/story/students-and-uchicago-scientists-turn-wrigley-field-data-lab>