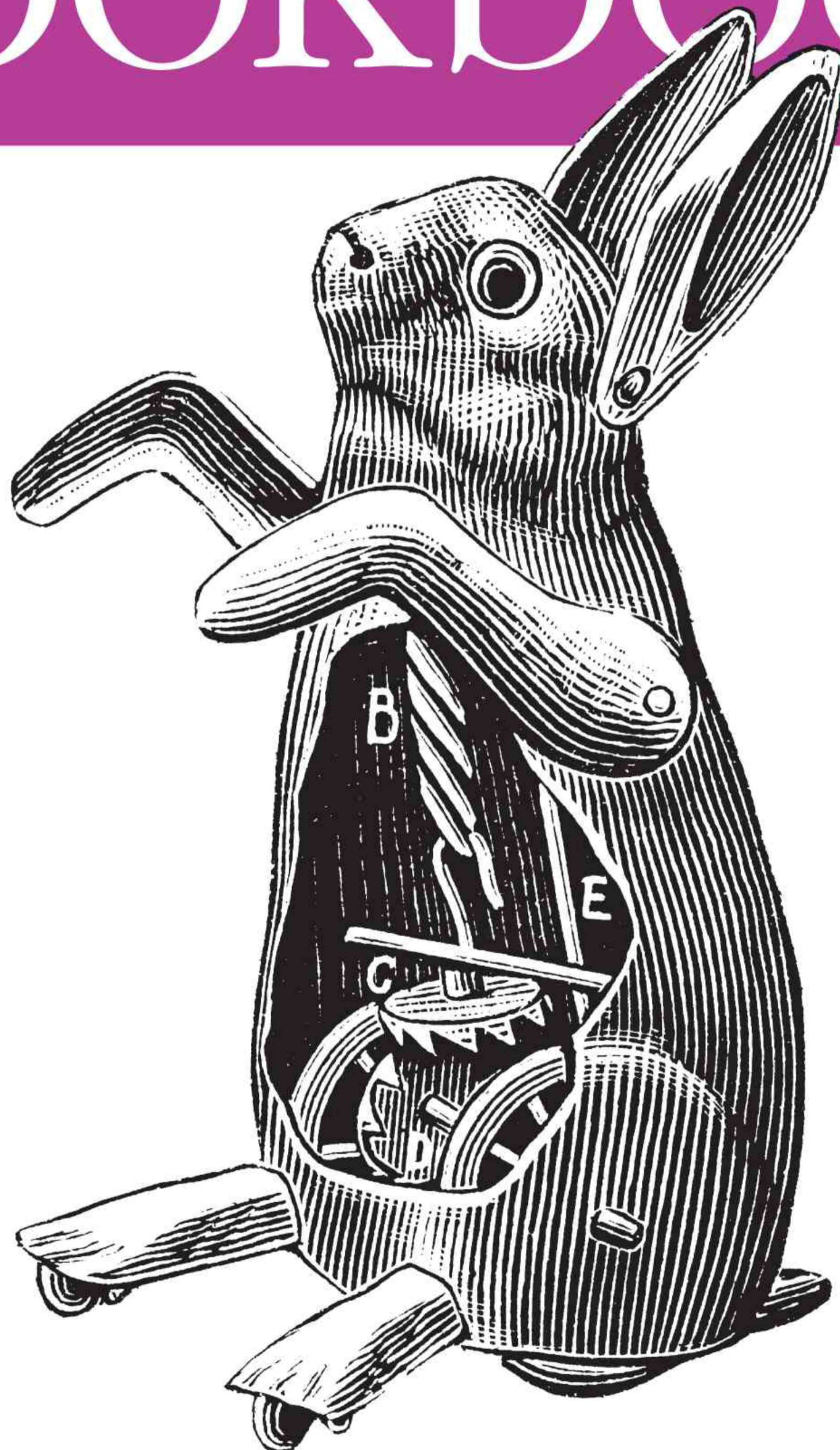


*Recipes to Begin, Expand, and
Enhance Your Projects*

2nd Edition
Covers Arduino 1.0

Arduino Cookbook



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Michael Margolis

Arduino Cookbook

Want to create devices that interact with the physical world? This cookbook is perfect for anyone who wants to experiment with the popular Arduino microcontroller and programming environment. You'll find more than 200 tips and techniques for building a variety of objects and prototypes such as toys, detectors, robots, and interactive clothing that can sense and respond to touch, sound, position, heat, and light.

You don't need experience with Arduino or programming to get started. Updated for the Arduino 1.0 release, the recipes in this second edition include practical examples and guidance to help you begin, expand, and enhance your projects right away—whether you're an artist, designer, hobbyist, student, or engineer.

- Get up to speed quickly on the Arduino board and essential software concepts
- Learn basic techniques for reading digital and analog signals
- Use Arduino with a variety of popular input devices and sensors
- Drive visual displays, generate sound, and control several types of motors
- Interact with devices that use remote controls, including TVs and appliances
- Learn techniques for handling time delays and time measurement
- Apply advanced coding and memory handling techniques

Michael Margolis is a technologist in the field of real-time computing, with expertise in developing hardware and software for interacting with the environment. He has more than 30 years of experience at senior levels with Sony, Microsoft, and Lucent/Bell Labs, and has written libraries and core software included in the Arduino 1.0 distribution.

“Michael Margolis’s comprehensive set of recipes is a fine gift to the burgeoning Arduino community. Whatever your background or skill, the Cookbook provides solutions for that project you’re wrestling with today and fuel for imagining what you’ll build tomorrow. I doubt it will ever leave my workbench table.”

—**Mikal Hart**
Arduino Uno Advisory Team

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Arduino Cookbook

Michael Margolis

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Arduino Cookbook, Second Edition

by Michael Margolis

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