



# Beginning Arduino Programming (Technology in Action)

Brian Evans

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#### **Beginning Arduino Programming (Technology in Action)**

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Beginning Arduino Programming allows you to quickly and intuitively develop your programming skills through sketching in code. This clear introduction provides you with an understanding of the basic framework for developing Arduino code, including the structure, syntax, functions, and libraries needed to create future projects. You will also learn how to program your Arduino interface board to sense the physical world, to control light, movement, and sound, and to create objects with interesting behavior.

With *Beginning Arduino Programming*, you'll get the knowledge you need to master the fundamental aspects of writing code on the Arduino platform, even if you have never before written code. It will have you ready to take the next step: to explore new project ideas, new kinds of hardware, contribute back to the open source community, and even take on more programming languages.

#### What you'll learn

- Start programming quickly with Arduino sketches.
- Write code that interacts with devices, such as LEDs, sensors, and motors.
- Work with loops, functions, randomness, and delays in your Arduino projects.
- Develop a style of writing code that reflects your individuality.
- Use many of the Arduino libraries to control even more devices.
- Read from RFID readers, write data to SD memory cards, and connect to the Internet using Ethernet.

#### Who this book is for

This book is for all Arduino board users who want to learn to program the Arduino board, regardless of hardware version or which devices are connected to the board. You do not need to have programmed before, but if you have, then you'll learn how to apply core coding features in the Arduino context.

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