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## Arduino BLINK Blueprints

Arduino is an open source prototyping platform based on easy-to-use hardware and software. Arduino has been used in thousands of different projects and applications by a wide range of programmers and artists, and their contributions have added up to an incredible amount of accessible knowledge that can be of great help to novices and experts alike. Want to build exciting LED projects with Arduino? This book will be your companion to bring out the creative genius in you. To begin with, you will be introduced to the maker movement and the open source hardware development Arduino boards. You will then move on to develop a mood lamp and a remote-controlled TV backlight. As you progress through the book, you will develop an LED cube and will learn to use sound visualization to develop a sound-controlled LED Christmas tree. You will then move on to build a Persistence of Vision (POV) wand. At the end of each chapter, you'll see some common problems, their solutions, and some workarounds.

### Who this book is written for

Anyone with basic computer knowledge should be able to get the most out of this book. Although familiarity with some of the electronics would be helpful, it is not a must.

### What you will learn from this book

- Set up Arduino boards to run a basic "Hello World" program
- Develop a mood lamp and expand it to become an LED night lamp
- Control TV backlight color and intensity using an IR remote
- Develop an IR-controlled 4\*4 LED cube
- Use sound visualization to develop a sound-controlled LED Christmas tree
- See a fun way to create interesting long exposure photographs and light displays using POV wands

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