



Digital Electronics for Musicians

Alexandros Drymonitis

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Digital Electronics for Musicians is the perfect book for musicians who want to dive into the world of computer music and physical computing. This book is aimed at adventurous musicians who want to learn about music programming with Arduino, sensors, and Pure Data, and how to make new interfaces and even new instruments with that knowledge.

You'll learn the basics of the Pure Data and Arduino language, how to incorporate sensors into your musical projects, and how to make use of abstractions in Pure Data so your code is shareable and reusable. You'll also learn how a Pure Data patch functions and how to modify existing code to fit your needs.

Along the way, you'll learn how to create a variety of innovative musical projects, including an interactive bow for stringed instruments, a digital drum set, a matrix synthesizer, a guitar looper, and even a microtonal keyboard using conductive ink.

If you are a musician or tinkerer who wants to explore the world of electronic and electroacoustic music and musical interfaces with Arduino, sensors, and Pure Data, *Digital Electronics for Musicians* is the book for you.

What you'll learn

- Learn the basics of the Pure Data and the Arduino languages
- Learn more about the available sensors on the market, and how you can incorporate them into your musical projects
- Focus on physical computing by combining Arduino and Pure Data, bringing the physical world to the world of the computers and vice versa
- Make use of additional libraries that extend the capabilities of the Arduino
- Make use of abstractions in Pure Data, generalizing your code in such a way that you can both re-use it and share it with others
- Learn how a Pure Data patch functions and be able to modify other people's work that fits your needs
- Get insight on the serial communication between the Arduino and other platforms, focusing on Pure Data

Who this book is for

Musicians who want to explore the world of electronic and electroacoustic music and musical interfaces with Arduino, sensors, and Pure Data.

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