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	Titolo	Arduino for musicians : a complete guide to Arduino and teensy microcontrollers / / Brent Edstrom
	Pubbl/distr/stampa	Oxford, England : , : Oxford University Press, , 2016 ©2016
	ISBN	0-19-046004-0 0-19-930933-7
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	Soggetti	Electronic musical instruments - Construction Arduino (Programmable controller) Microcontrollers - Programming MIDI controllers - Construction Electronic books.
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	Livello bibliografico	Monografia
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	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Programming and the Arduino IDECompiler; Circuitry; Solderless Breadboard; Review; Design Cycle; Organization of the Book; Things You Will Need to Get Started; Beginner; Intermediate; Advanced; Purchasing Parts; Conclusion; 2: Introduction to Programming; What Is a Programming Language?; Why the C Language?; Getting Started; Writing Your First Sketch; Error Messages; Uploading a Program; "Hello, world!" in Detail; Functions; Serial Output; Adding Comments; Code Improvisation; Variables, Data Types, and Operators; Initializing Variables; Operators; Code Improvisation; Data Types; Bits Signed and Unsigned Data TypesUniversal Data Types; Constants; Enumerations; Comparison Operators and Control Structures; "If" Statements; Boolean Operators; Switch Statements; Code Improvisation; Control Loops; While Loop; Do While Loop; For Loop; Endless Loops; Practical Application; Code Improvisation; Writing a First Function; Function Parameters; Using a Custom Function; A First Sketch Involving Hardware; Introduction to Arrays; Array Syntax; Array Initialization; The Ugly Truth: Working with Text in C; String Literals; Character Arrays; An

Sommario/riassunto	The Arduino platform provides a virtually limitless range of creative opportunities to musicians who are interested to explore new technologies. In Arduino for Musicians, Brent Edstrom provides a comprehensive guide to the underlying technologies enabling the creation of custom instruments that respond to light, touch, breath, and other forms of control.