HOW TO GET WHAT YOU WANT

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WELCOME TO THE KOBAKANT DIY WEARABLE TECHNOLOGY DOCUMENTATION

This website aims to be a comprehensible, accessible and maintainable reference resource, as well as a basis for further exploration and contribution.

MOST RECENT POSTS

Sensors

BEADED SWAY SENSOR

swing, sway, wave, trail, quiver, quake, judder, jiggle, jig, joggle, jog, jerk, waggle, wiggle, wriggle, wobble, shake, shiver, shudder, squirm, slant, lean, tip, slope, incline, dip, angle, twitch, totter, teeter, tremble, rock, roll, flutter, flap, vibrate, oscillate, convulse ...work in progress... This beaded sway sensor was designed to capture the swinging, swaying, jerking, tilting movements [...]

Tools

E-TEXTILE SENSOR TESTER

Build a simple circuit with an LED, a coin-cell battery pouch and interrupt the full circuit connection by inserting two crocodile clips. When the clips connect, the circuit is complete and the LED light will shine. When you mount a textile sensor between the clips, the LED brightness will depend on the resistance of the [...]

http://www.kobakant.at/DIY

HOW TO GET WHAT YOU WANT

Conductive Materials

CONDUCTIVE THREADS

also see: conductive yarn

conductive threads are usually manufactured for anti-static, electromagnetic shielding, intelligent textiles, wearable technology, data transfer and heating purposes. Most threads are metalized with an alloy of various metals, which can include silver, copper, tin and nickel. The core is normally cotton or polyester.

Conductive threads are uninsulated and sewing them tightly to metal usually makes for a good connection, though this connection tends to loosen over time where movement occurs. One way of avoiding this is to include a squishy material, such as stretch conductive fabric underneath the stitches, or a non-conductive material, so long as it does not obstruct the electrical connection.

see also: Syuzi Pakhchyan's summary of conductive threads on Fashioning Technology
>> http://www.fashioningtech.com/page/conductive-thread

About

Karl Grimm GmbH & Co. KG
Fabrik Leonischer Waren
Grimmstraße 75
91154 Roth - Eckersmühlen

Tel.: +49 (0) 9171 - 96 01 - 0
Fax: + 49 (0) 9171 - 96 01 - 25
Email: info@karl-grimm.com
Internet: www.karl-grimm.com

PRICE LIST

High-Flex

High-Flex No.:		3981	3981	3981	3981	3981	
Twisting		7 x 1	7 x 2	7 x 3	7 x 4	7 x 5	
Made of		E-Cu	E-Cu	E-Cu	E-Cu	E-Cu	
Length	about	4.300	2.100	1.400	1.050	850	meters/kilo
Diameter	about	0,42	0,62	0,75	0,80	0,9	mm
Resistance	about	2,3	1,2	0,75	0,55	0,45	Ohm/m
Breaking Strength	about	2,8	5,6	8,3	11,0	14,0	kilo
Copper Cross Section	about	0,013	0,027	0,041	0,054	0,068	mm^2
Copper tinned	€	82,--	97,--	86,--	82,--	76,--	per kilo
Copper silver plated 14/ooo	€	96,--	111,--	100,--	96.--	90,--	per kilo

All prices are quoted with the addition of the copper-DEL-note + 5 % working costs following the day of the incoming order.

The price for the silver plated tinsel is basing on a price of EUR 250,00 for 1 kg Silver.
In case of higher or lower price an addition or deduction based on the difference will be added.

Karl Grimm Postfach 3162 91146 Roth Germany	Quantity	Price per kilo EUROS	Total EUROS	XE.com exchange rate 1.306 on Feb. 3, 2012	TOTAL CDN
HIGH FLEX SILVER THREAD Copper Silver Plated					
7x1	1 kilo	96	96.00 €		
7x2	1 kilo	111	111.00 €		
7x3	1 kilo	100	100.00 €		
7x4	1 kilo	94	94.00 €		
7x5	1 kilo	90	90.00 €		
Thread Subtotal			**491.00 €**		
Surcharge for metals increase	30%		147.00 €		
Subtotal			**638.00 €**		
German Taxes	19%		121.28 €		
			759.28 €	x 1.306	$991.62
				plus GST PST	xxx
				plus shipping	xxx

Arduino – Home

https://www.arduino.cc

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ARDUINO

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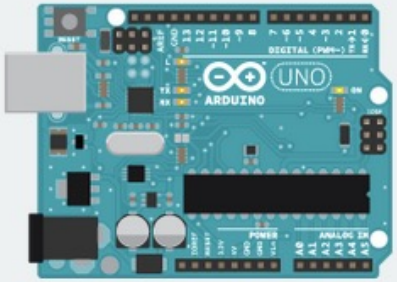
WHAT IS ARDUINO?



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LEARN ARDUINO

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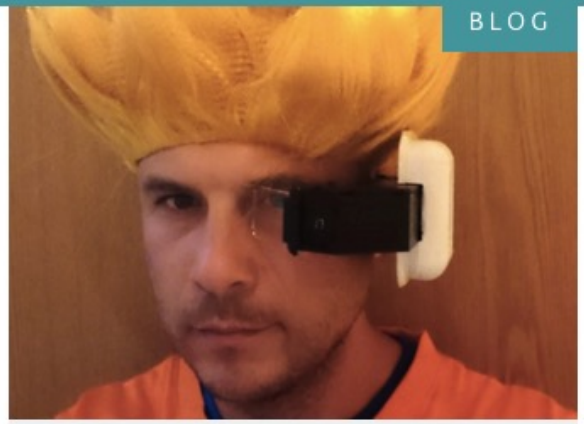
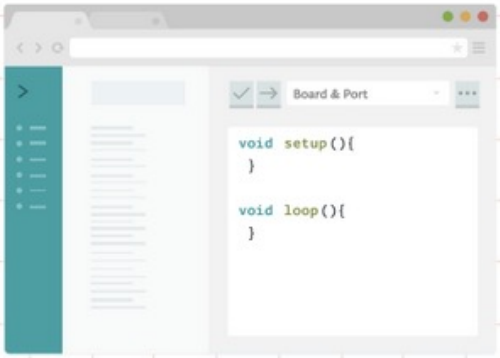
BLOG



DRAGON BALL Z HEAD-MOUNTED SCOUTER COMPUTER REPLICA

> ARDUINO
> WEB EDITOR
> CODE ONLINE!



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Constructing an hourglass

https://blog.arduino.cc/2018/10/26/constructing-an-hourglass-lamp-with-arduino/

Arduino – Home | Arduino Project Hub

https://create.arduino.cc/p

Arduino > Community > Project Hub

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PROJECT HUB

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Petoi Nybble

Project showcase by **Rongzhong Li (李...**

11,436 VIEWS **24** COMMENTS **192** RESPECTS

Automated Chess Board

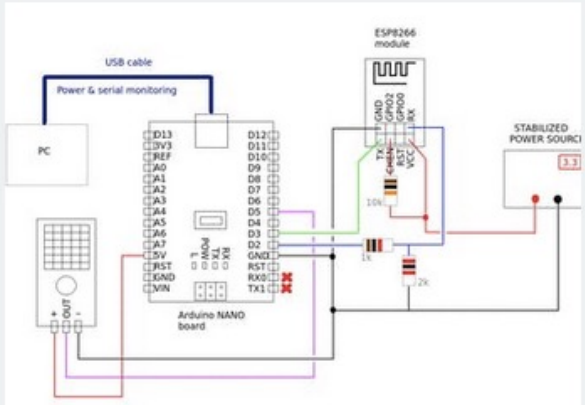
Project showcase by **maguerero**

3,986 VIEWS **6** COMMENTS **55** RESPECTS

SerialDebug: Improving Debug to Arduino

Project tutorial by **JoaoLopesF**

1,278 VIEWS **6** COMMENTS **16** RESPECTS



Publish Your Arduino Data to

Build Your Own Banksy's "Self

Arduino RS485 DIN Rail Mount

Adafruit customer service forur

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- SENSORS (191)
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- WIRELESS (122)
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- 3D PRINTING (65)

NEW PRODUCTS
(SEE ALL 65)


Speaker - 40mm Diameter - 4 Ohm 3 Watt
$4.95


Adafruit NeoTrellis M4 with Enclosure and Buttons Kit Pack
$59.95


Silicone Elastomer 4x4 Button Keypad - 2 Pack
$9.50

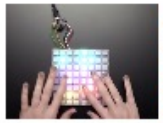

Adafruit NeoTrellis M4 Mainboard - featuring SAMD51
$39.95


NeoTrellis M4 Acrylic Enclosure Kit
$12.50

FEATURED PRODUCTS
(SEE ALL 33)


Adafruit NeoTrellis M4 with Enclosure and Buttons Kit Pack
$59.95


Mini Ad Blocking Pi-Hole Kit with Pi Zero WH - No Soldering!
$39.95


Adafruit NeoTrellis RGB Driver PCB for 4x4 Keypad
$12.50


Adafruit HalloWing M0 Express
$34.95


Adafruit Feather M4 Express - Featuring ATSAMD51
$22.95

https://www.adafruit.com

LilyPad – SparkFun Electronics

SparkFun Electronics (US)

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- ★★★★
- ★★★
- ★★
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PRICE:

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LilyPad

LilyPad Sewable Electronics Kit
KIT-13927
$99.95

LilyPad Coin Cell Battery Holder - Switched - 20mm
DEV-13883

E-textile Basics Lab Pack
LAB-13165
$199.95

LilyPad Arduino USB - ATmega32U4 Board
DEV-12049
$25.95

Microcontrollers - RobotShop

https://www.robotshc

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    - Arduino

Microcontrollers

Microcontrollers are robot brains. Microcontrollers allow the designer to interface sensors and specialized control electronics together (along with anything else required for the project) and contain the overall logic of the robot.

Feedback

DigiKey Electronics - Free Ship

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Potentiometers, Variable Resistors
Resistors
Thermal Management

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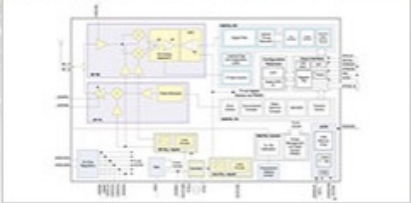
Audio
Fans
Industrial Automation and Controls

REFERENCE DESIGNS

EVAL-CN0350-PMDZ: Piezoelectric Sensor Signal Conditioning

The circuit in this design is a 12-bit, 1 MSPS data acquisition system utilizing only two active devices. The system processes charge input signals from piezoelectric sensors using a single 3.3 V supply.



ARTICLE

Rapidly Implement a Real Time Location System Accurate to 10 cm

Radiolocation systems have become a ubiquitous feature in nearly every type of mobile device and associated application.

BLOG

New Product Discovery: Fluke Electronics Test Meter T6-600

Clamp ammeters measure current flow without the hassle of breaking apart a circuit to insert test leads for current readings.

TechForum

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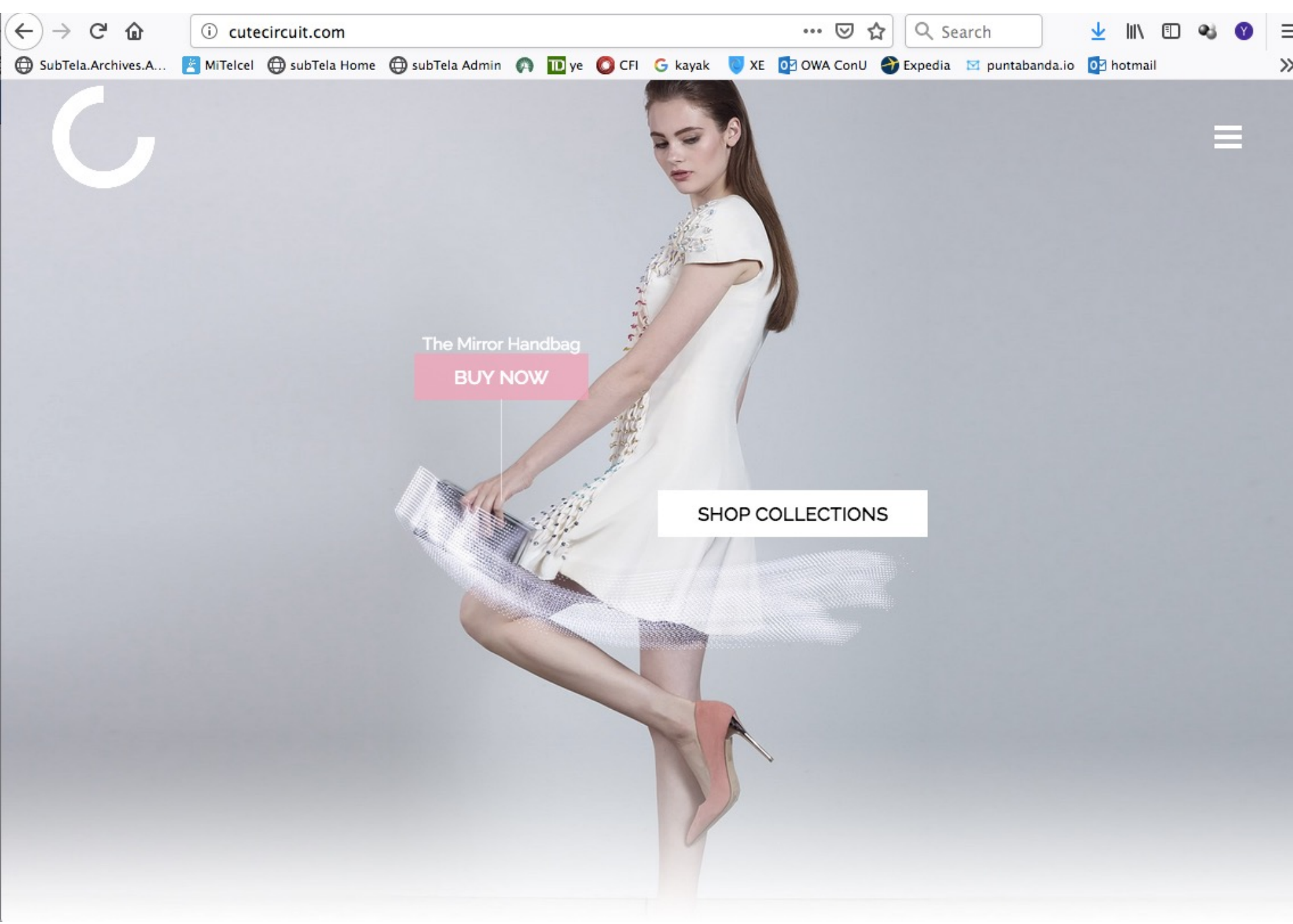
https://www.digikey.ca/en/articles/techzone/2018/may/rapidly-implement-a-real-time-location-system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LEAH BUECHLEY

Leah Buechley is a designer, engineer, and educator. Her work explores integrations of electronics, computing, art, craft, and design. She has done foundational work in paper and fabric-based electronics. Her inventions include the LilyPad Arduino, a construction kit for sew-able electronics. She currently runs a design firm, Rural / Digital, that explores playful integrations of technology and design. Previously, she was an associate professor at the MIT Media Lab, where she founded and directed the High-Low Tech group. Her work has been featured in publications including The New York Times, Boston Globe, Popular Science, and Wired. Leah received a PhD in computer science from the University of Colorado at Boulder and a BA in physics from Skidmore College. At both institutions she also studied dance, theater, fine art, and design.

Leah was the recipient of the 2017 Edith Ackerman award for Interaction Design and Children.

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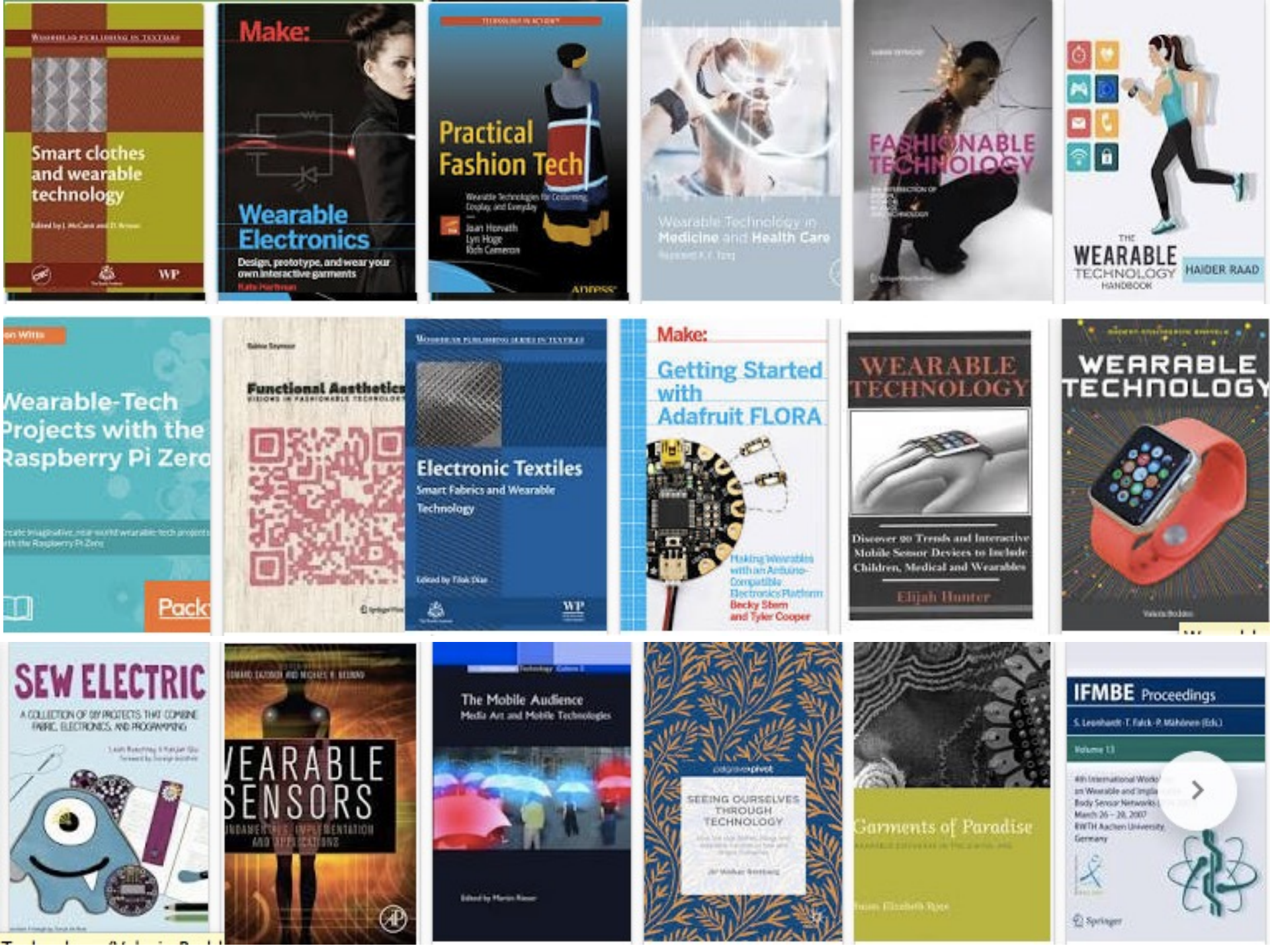
Rural / Digital
High-Low Tech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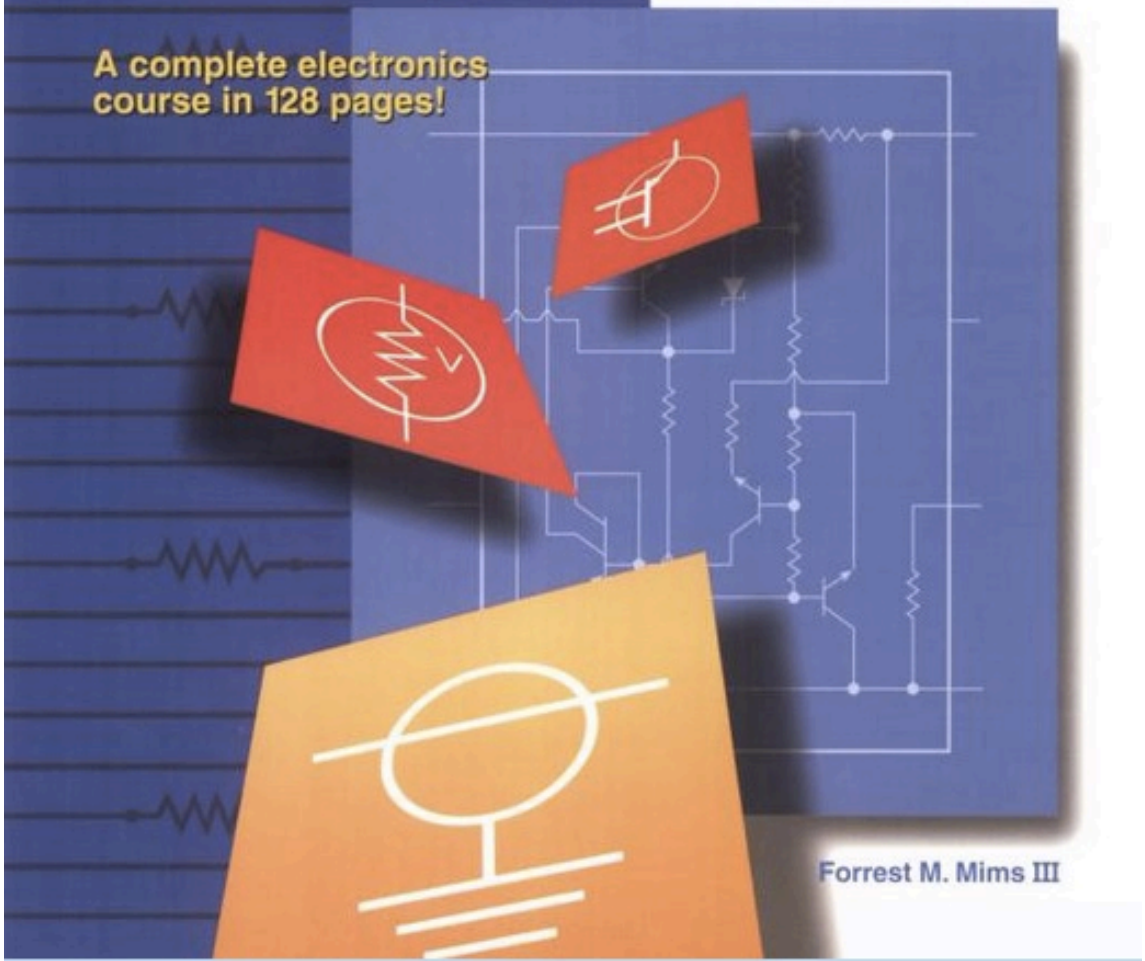
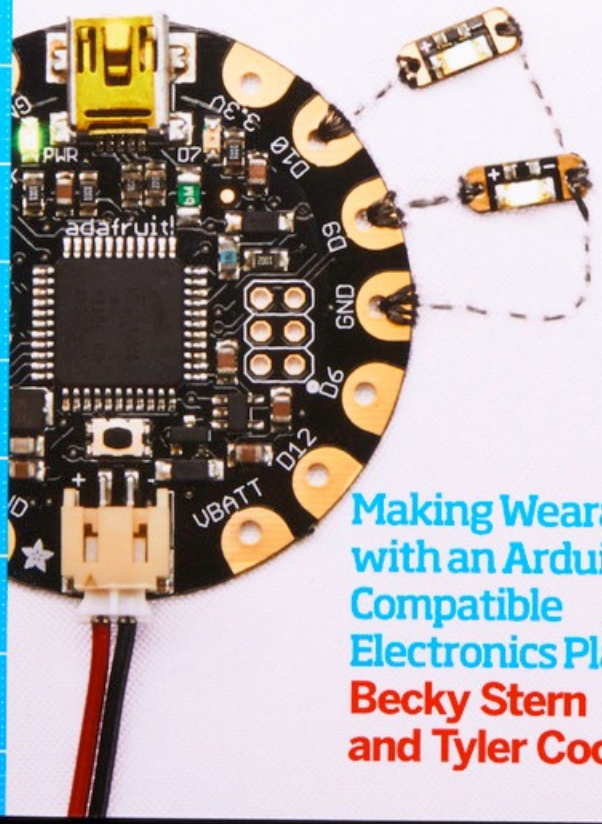


Forrest M. Mims III

Make:

Getting Started with Adafruit FLORA



Making Wearables with an Arduino-Compatible Electronics Platform

Becky Stern and Tyler Cooper


Make:
Wearable Electronics
Design, prototype, and wear your own interactive garments
Kate Hartman

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INVENTING THE FUTURE OF FABRICS


designing
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smart
textiles
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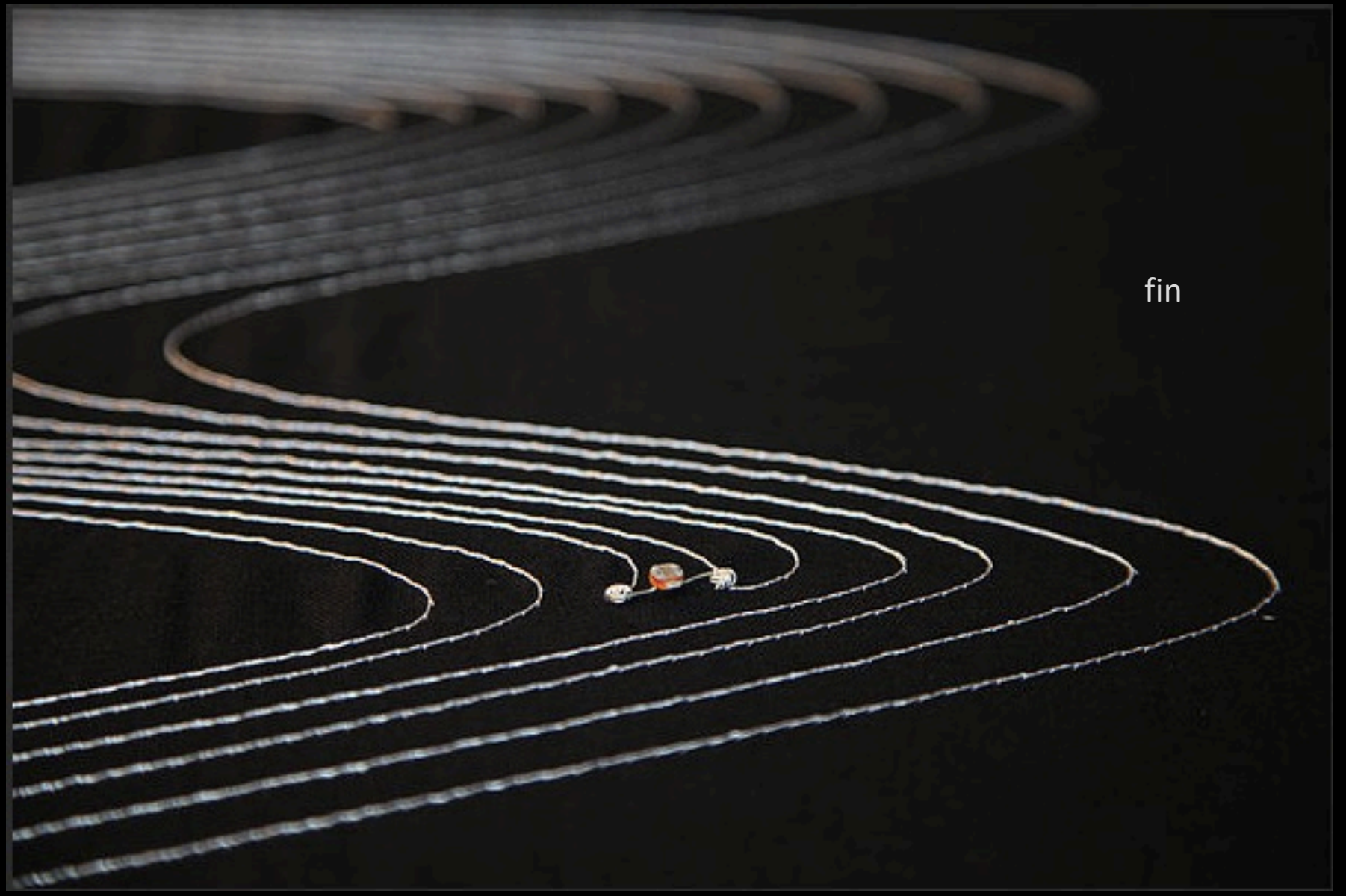
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