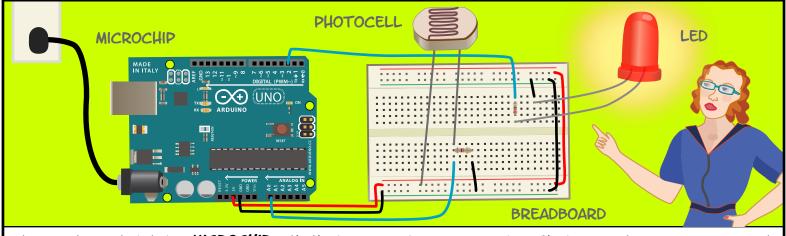
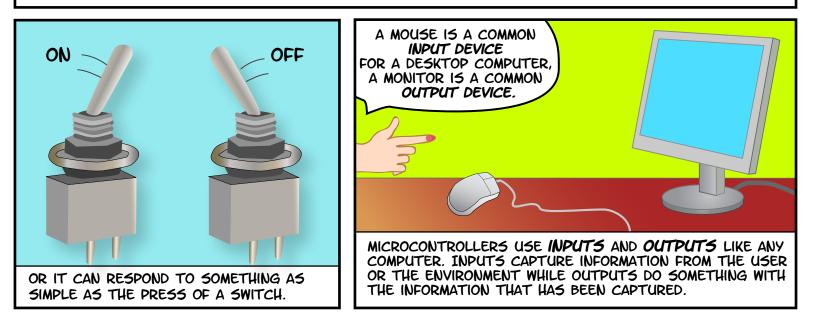
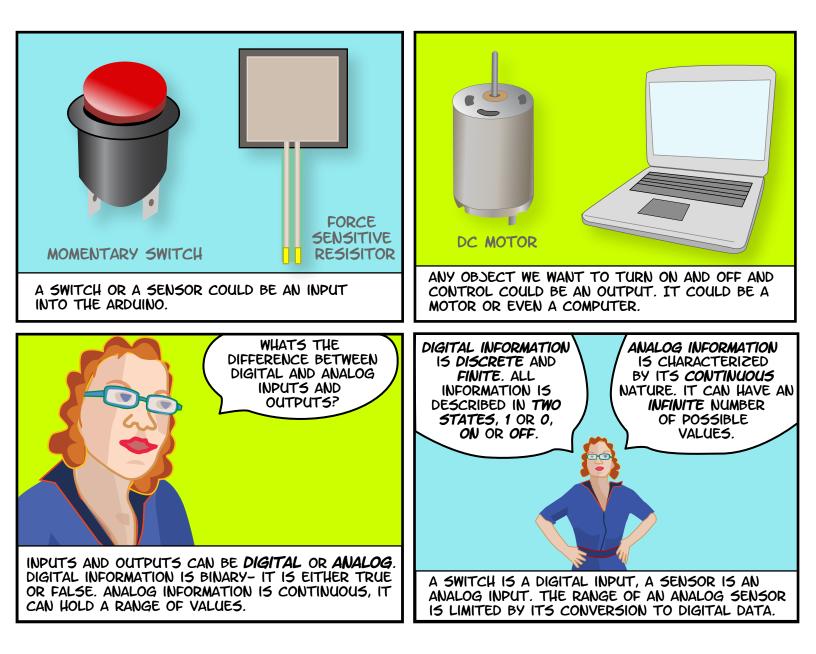


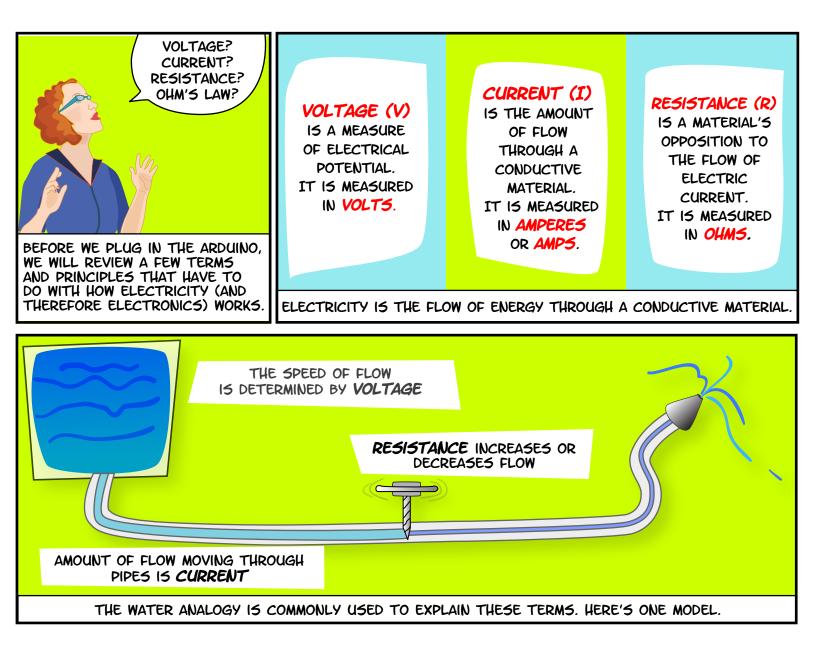
OPEN SOURC	E- "RESOURCES THAT CAN BE USED, REDISTRIBUTED OR REWRITTEN FREE OF CHARGE. OFTEN SOFTWARE OR HARDWARE."
ELECTRONIC	5- "TECHNOLOGY WHICH MAKES USE OF THE CONTROLLED MOTION OF ELECTRONS THROUGH DIFFERENT MEDIA."
PROTOTYPE-	"AN ORIGINAL FORM THAT CAN SERVE AS A BASIS OR STANDARD FOR OTHER THINGS."
PLATFORM-	"HARDWARE ARCHITECTURE WITH SOFTWARE FRAMEWORK ON WHICH OTHER SOFTWARE CAN RUN."

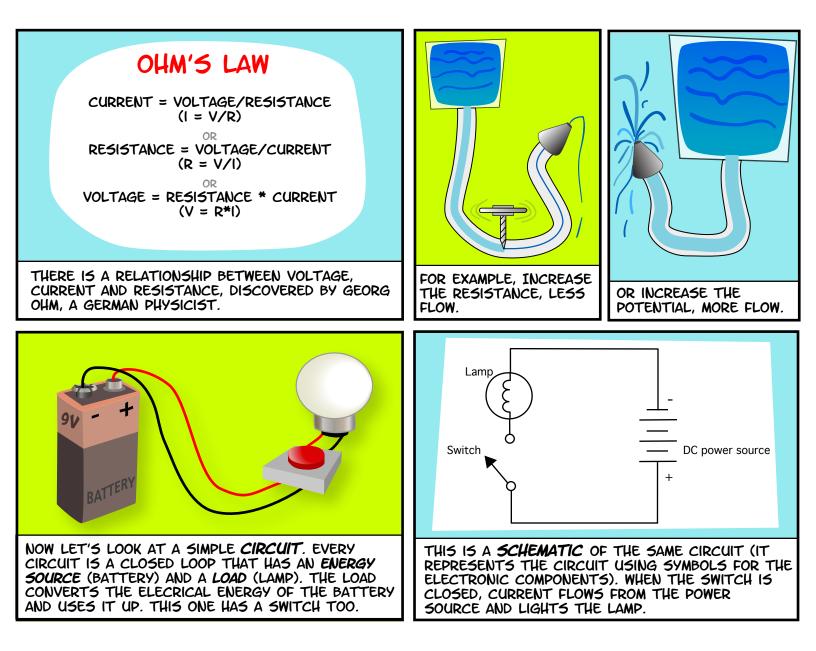


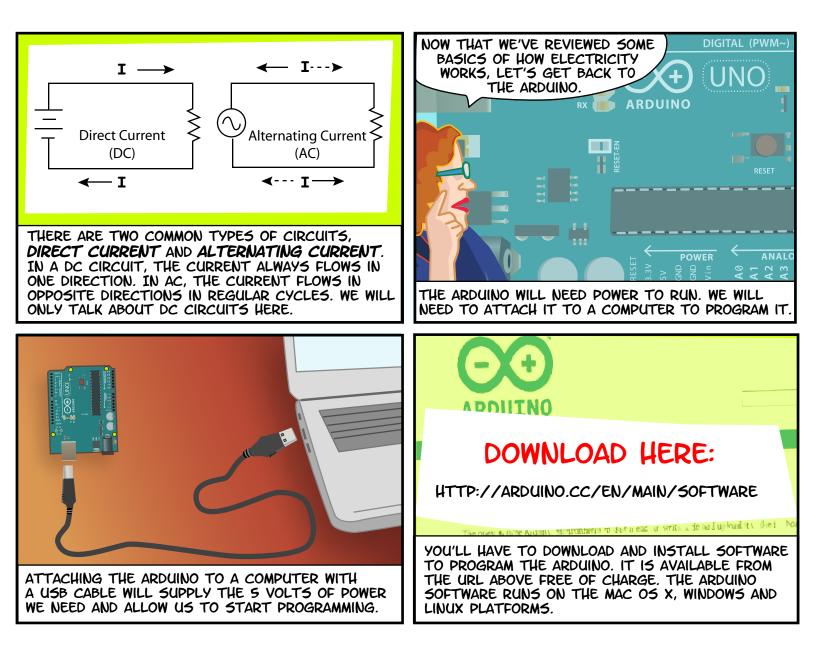
AN ARDUINO CONTAINS A **MICROCHIP**, WHICH IS A VERY SMALL COMPUTER THAT YOU CAN PROGRAM. YOU CAN ATTACH SENSORS TO IT THAT CAN MEASURE CONDITIONS (LIKE HOW MUCH LIGHT THERE IS IN THE ROOM). IT CAN CONTROL HOW OTHER OBJECTS REACT TO THOSE CONDITIONS (ROOM GETS DARK, LED TURNS ON).

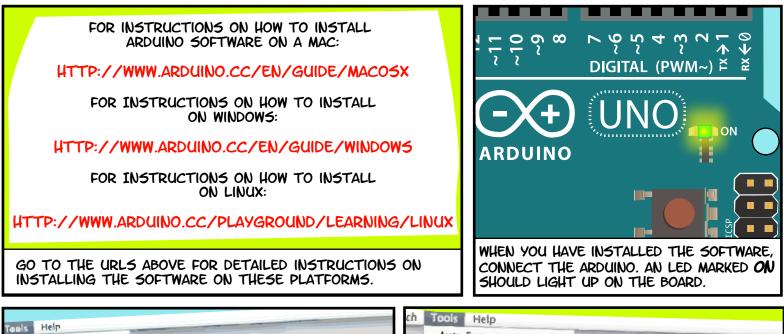




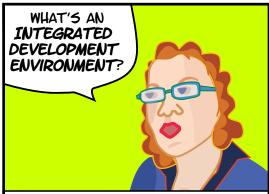








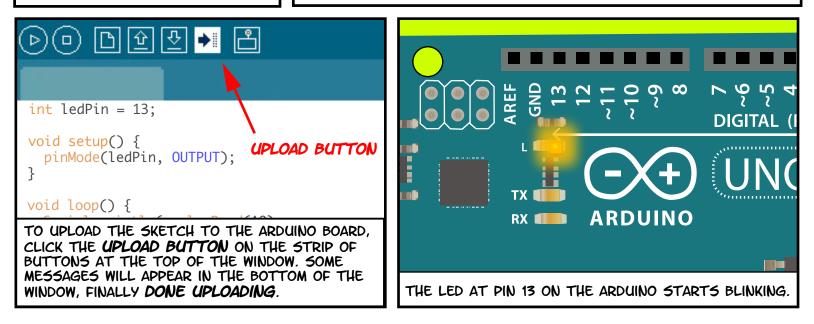
Tools Help	ch look Help
Auto Formal XT Archive Sketch Fix Encoding & Reload Serial Monitor © XSM	Auto Format 第T Archive Sketch Fix Encoding & Reload Serial Monitor 分解M
Serial Port Arduino Uno Arduino Uno Arduino Duemilanove or Nano w/ ATmega328 Arduino Duemilanove, or Nano w/ ATmega168	Board
Burn Bootloader  Arduino Mega 2560 Arduino Mega (ATmega1280) Arduino Mini Arduino Fio Arduino BT w/ ATmega328 Arduino BT w/ ATmega328 LilyPad Arduino w/ ATmega328	Serial Port / dev/try.usbmodemfd131 Burn Bootloader // dev/cu.usbmodemfd131 /dev/cu.usbmodemfd131 /dev/tty.Nokia3555b-NokiaPCSuite-2 /dev/cu.Nokia3555b-NokiaPCSuite-2 /dev/tty.Nokia3555b-Dial-upnetwo-3 /dev/cu.Nokia3555b-Dial-upnetwo-3 /dev/tty.Bluetooth-Modem
LilyPad Arduino w/ ATmega168 LilyPad Arduino Pro Mini (SV 16 MHz) w/ ATmega128 Arduino Pro or Pro Mini (SV 16 MHz) w/ ATmega168	NEXT SELECT THE SERIAL PORT.
LAUNCH THE ARDUINO SOFTWARE. IN THE TOOLS MENU, SELECT THE BOARD YOU ARE USING (TOOLS > BOARD). FOR EXAMPLE, ARDUINO UNO.	(TOOLS > SERIAL PORT) ON A MAC IT WILL BE SOMETHING LIKE /DEV/TTY.USBMODEM. ON A WINDOWS MACHINE, IT WILL BE COM3 OR SOMETHING LIKE THAT.

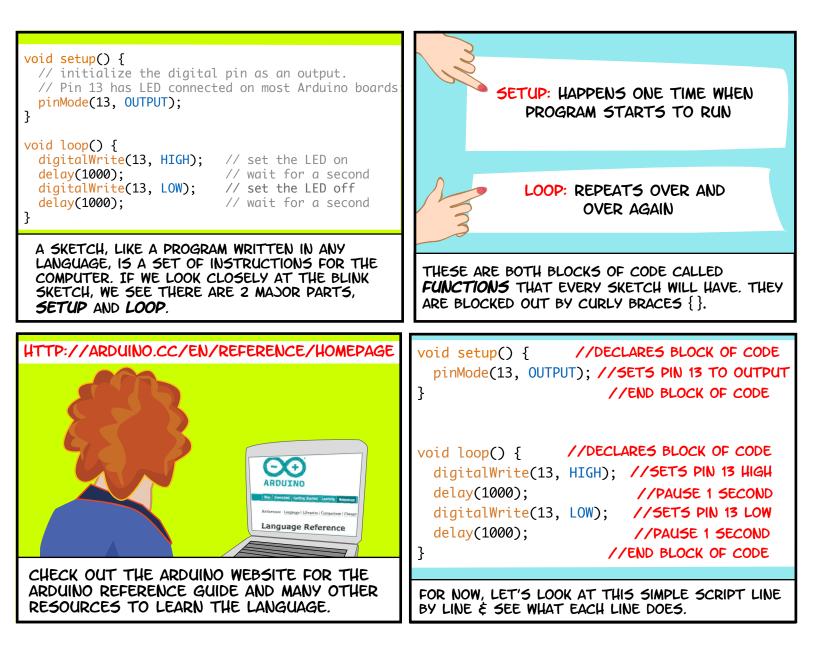


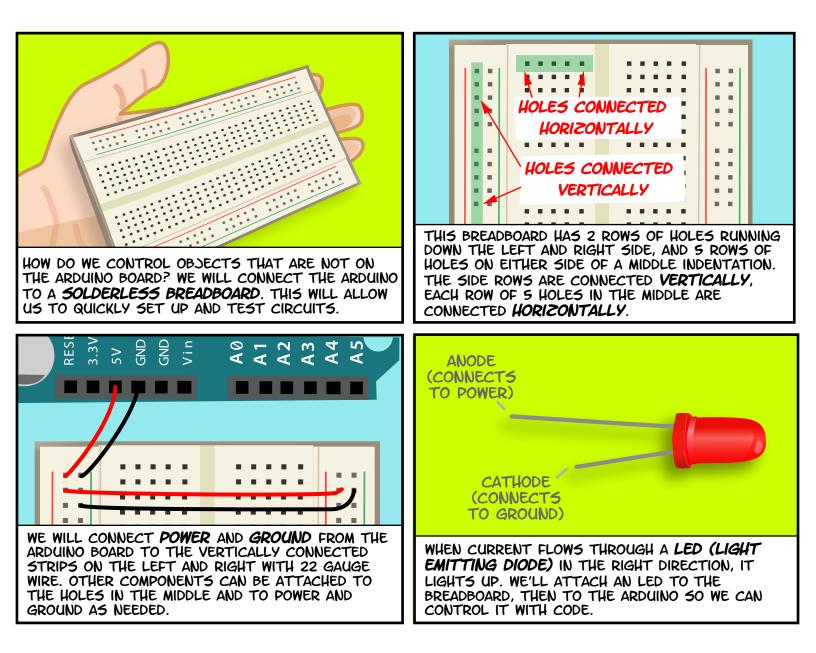
WHEN YOU DOWNLOADED THE ARDUINO SOFTWARE, YOU DOWNLOADED AN **IDE**. IT COMBINES A TEXT EDITOR WITH A COMPILER AND OTHER FEATURES TO HELP PROGRAMMERS DEVELOP SOFTWARE.

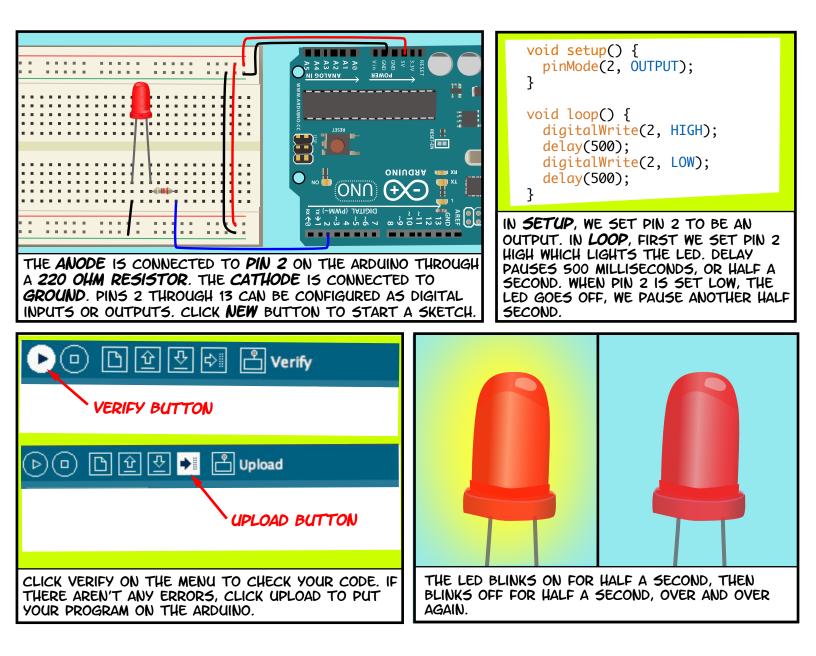
rduino	File Edit Sketch	Tools	Help		
	New Open Sketchbook	≍N ≍O			
	Examples		1.Basics		AnalogRea
	Close Save Save As Upload to I/O Board	#W #S 0#S #U	2.Digital 3.Analog 4.Communication 5.Control 6.Sensors 7.Display 8.Strings ArduinolSP	* * *	BareMinimi Blink DigitalRead Fade
	Page Setup Print	<u>ዕ</u> ዙዖ ዙዖ		* * *	

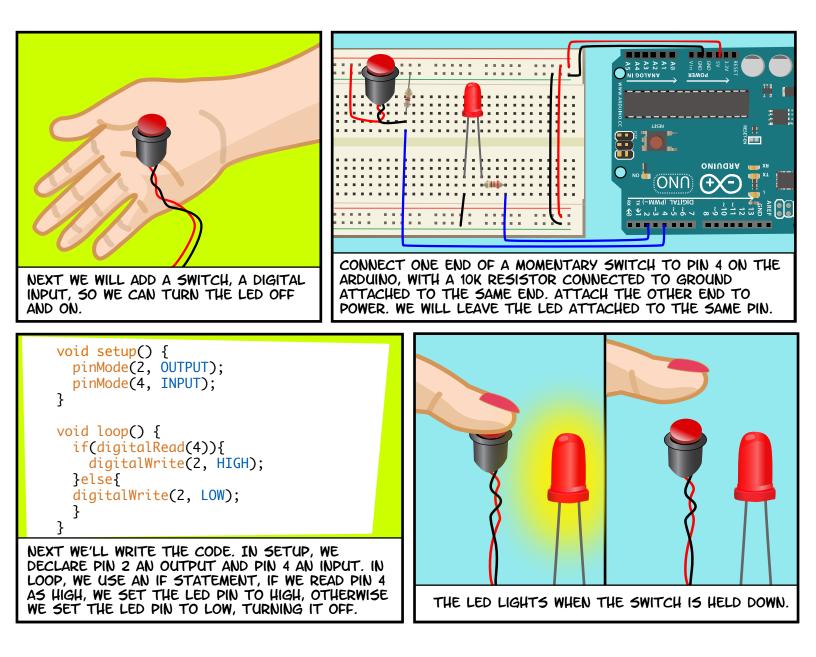
AND UPLOAD THEM TO THE ARDUINO BOARD. OPEN THE BLINK EXAMPLE IN THE FILE MENU. FILE > EXAMPLES > 1.BASICS > BLINK.

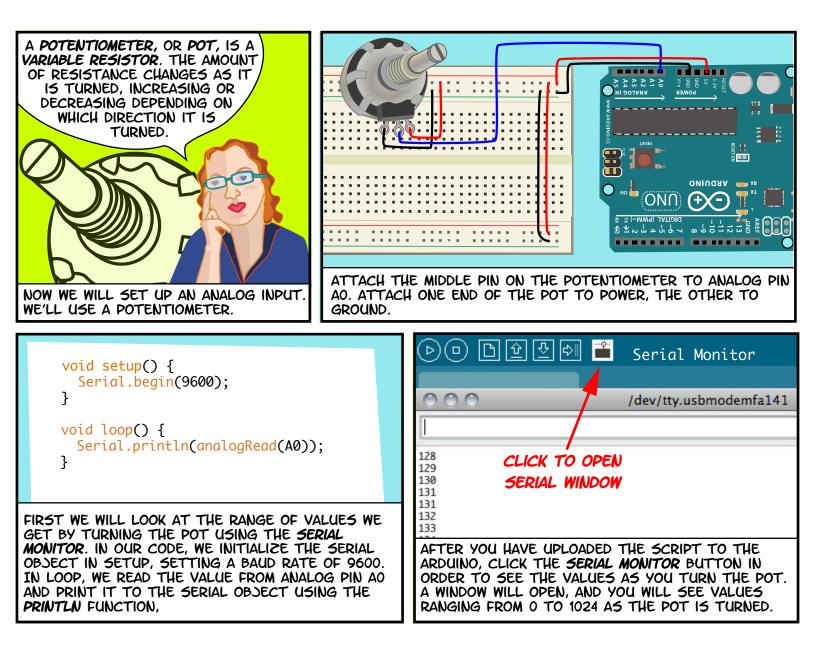


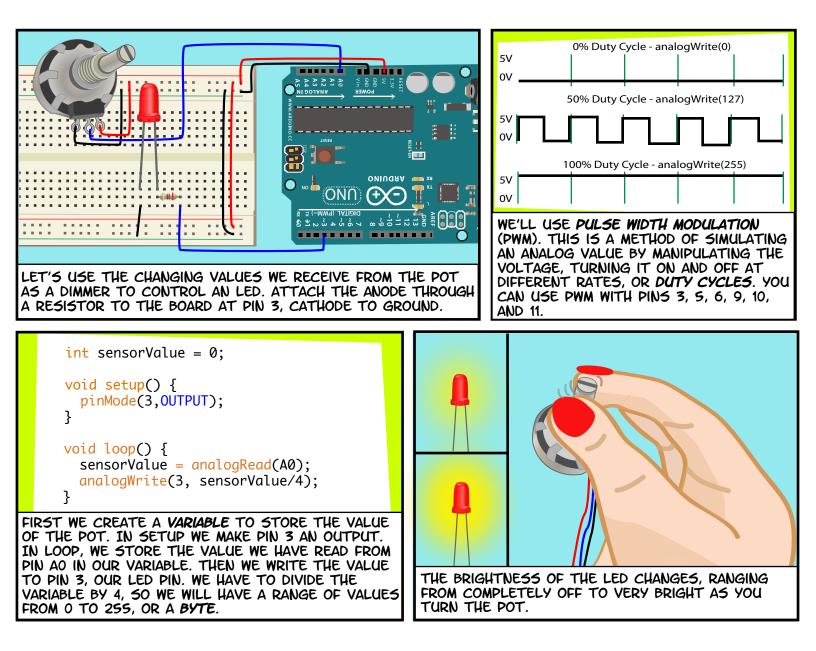


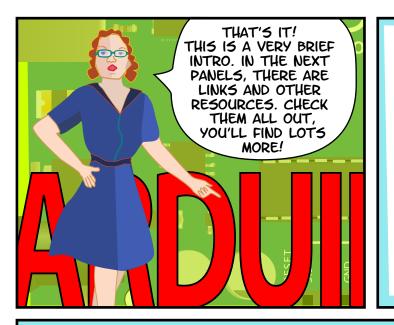












# LINKS

#### SOFTWARE

SOFTWARE DOWNLOAD HTTP://WWW.ARDUINO.CC/EN/MAIN/SOFTWARE LANGUAGE REFERENCE HTTP://ARDUINO.CC/EN/REFERENCE/HOMEPAGE

### SUPPLIES

SPARKFUN ELECTRONICS HTTP://WWW.SPARKFUN.COM/ ADAFRUIT INDUSTRIES HTTP://ADAFRUIT.COM/ MAKER SHED HTTP://WWW.MAKERSHED.COM/ SAMECO ELECTRONICS HTTP://WWW.SAMECO.COM/

## TUTORIALS

ARDUINO SITE TUTORIALS

HTTP://WWW.ARDUINO.CC/EN/TUTORIAL/HOMEPAGE LADY ADA

HTTP://WWW.LADYADA.NET/LEARN/ARDUINO/

INSTRUCTABLES

HTTP://WWW.INSTRUCTABLES.COM/TAG/TYPE-ID/ CATEGORY-TECHNOLOGY/CHANNEL-ARDUINO/

#### BOOKS

GETTING STARTED WITH ARDUINO BY MASSIMO BANZI MAKING THINGS TALK: USING SENSORS, NETWORKS, AND ARDUINO TO SEE, HEAR, AND FEEL YOUR WORLD BY TOM IGOE

PHYSICAL COMPUTING: SENSING AND CONTROLLING THE PHYSICAL WORLD WITH COMPUTERS BY DAN O'SULLIVAN & TOM IGOE

ARDUINO COOKBOOK BY MICHAEL MARGOLIS

### ALL TEXT AND DRAWINGS BY JODY CULKIN FOR MORE, CHECK OUT JODYCULKIN.COM

SPECIAL THANKS TO TOM IGOE, MARIANNE PETIT, CALVIN REID, THE FACULTY AND STAFF OF THE INTERACTIVE TELECOMMUNICATIONS PROGRAM AT NYU, PARTICULARLY DAN O'SULLIVAN, DANNY ROZIN AND RED BURNS. THANKS TO CINDY KARASEK, CHRIS STEIN, SARAH TEITLER, KATHY GONCHAROV & ZANNAH MARSH.

MANY, MANY THANKS TO THE ARDUINO TEAM FOR BRINGING US THIS ROBUST AND FLEXIBLE OPEN SOURCE PLATFORM.

AND THANKS TO THE LIVELY, ACTIVE AND EVER GROWING ARDUINO COMMUNITY.

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