324

BIEM
ZAIKS

SUPER QUALITY

LASERDANCE
FUTURE GENERATION

LASERDANCE
FUTURE GENERATION

LASER DANCE

including
Bonus-Track
"FEAR"
from ZYX 5754
Remix

FUTURE GENERATION

zyx
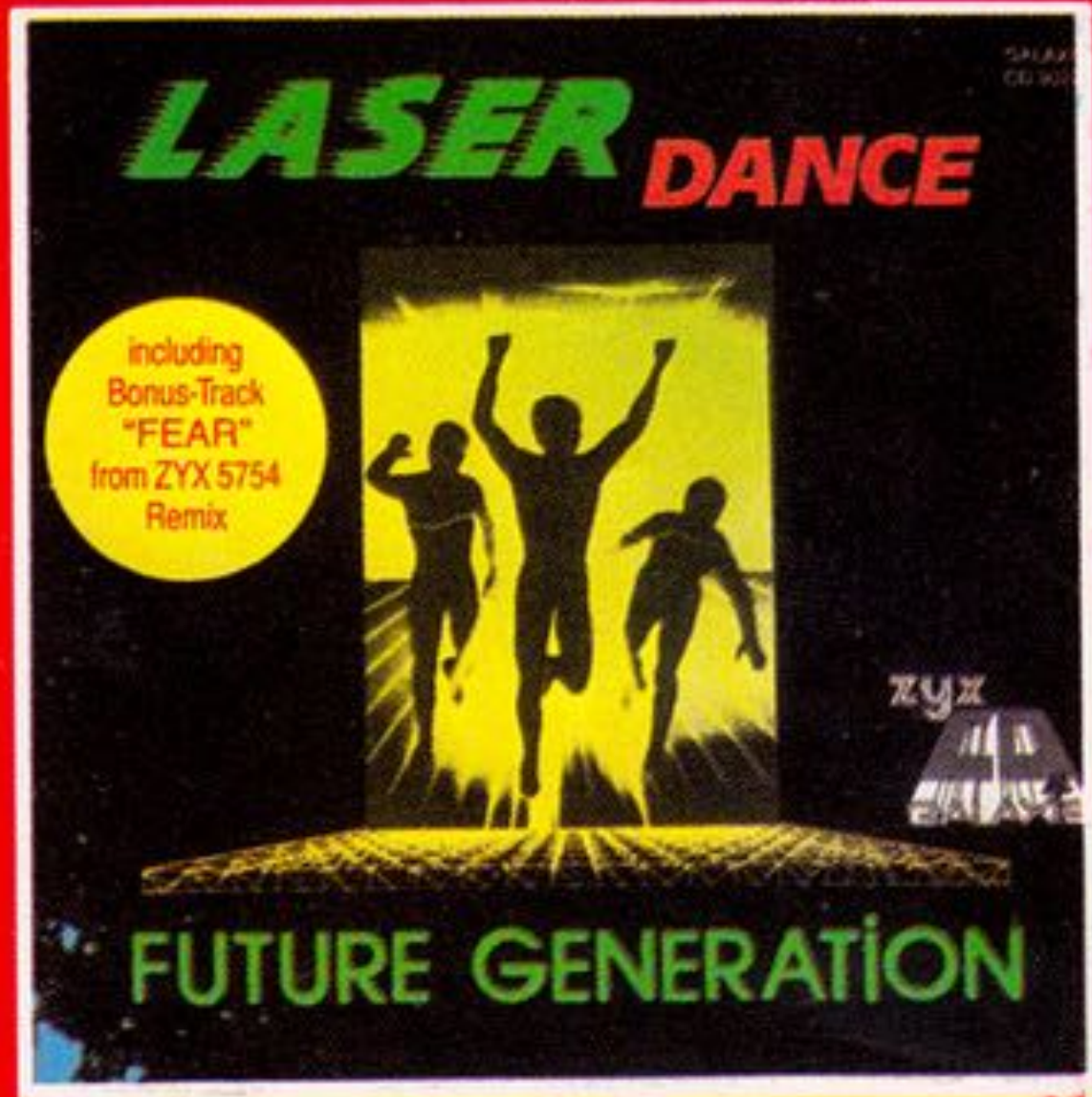
LASER DANCE

FUTURE GENERATION

Space Rock
—STEREO—
DOLBY SYSTEM

11:00 - 11:30 Welcome & Introduction & exercise
11:30 - 12:30 Introduction to Electronics, Arduino
and Touch sensors
12:30 - 13:30 Lunch
13:30 - 17:00 Constructing Wearables
17:00 - 18:00 Outcomes, Conclusions, Discussions
19:00 onwards Dance, Jan van Eyck Basement

Download the Arduino IDE

Windows Installer, for Windows XP and up
Windows ZIP file for non admin install

Windows app Requires Win 8.1 or 10
Get

Mac OS X 10.8 Mountain Lion or newer

Linux 32 bits
Linux 64 bits
Linux ARM 32 bits
Linux ARM 64 bits

Release Notes
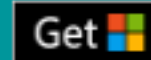Source Code
Checksums (sha512)

ARDUINO 1.8.10

The open-source Arduino Software (IDE) makes it easy to write code and upload it to the board. It runs on Windows, Mac OS X, and Linux. The environment is written in Java and based on Processing and other open-source software.
This software can be used with any Arduino board. Refer to the Getting Started page for Installation instructions.

Go to www.arduino.cc and click Downloads > Software

or

https://www.arduino.cc/en/Main/Software
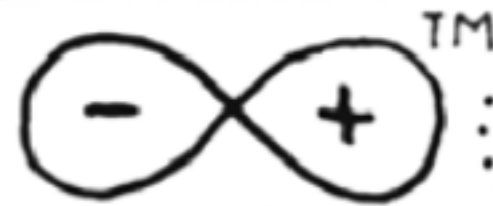
sensors - input
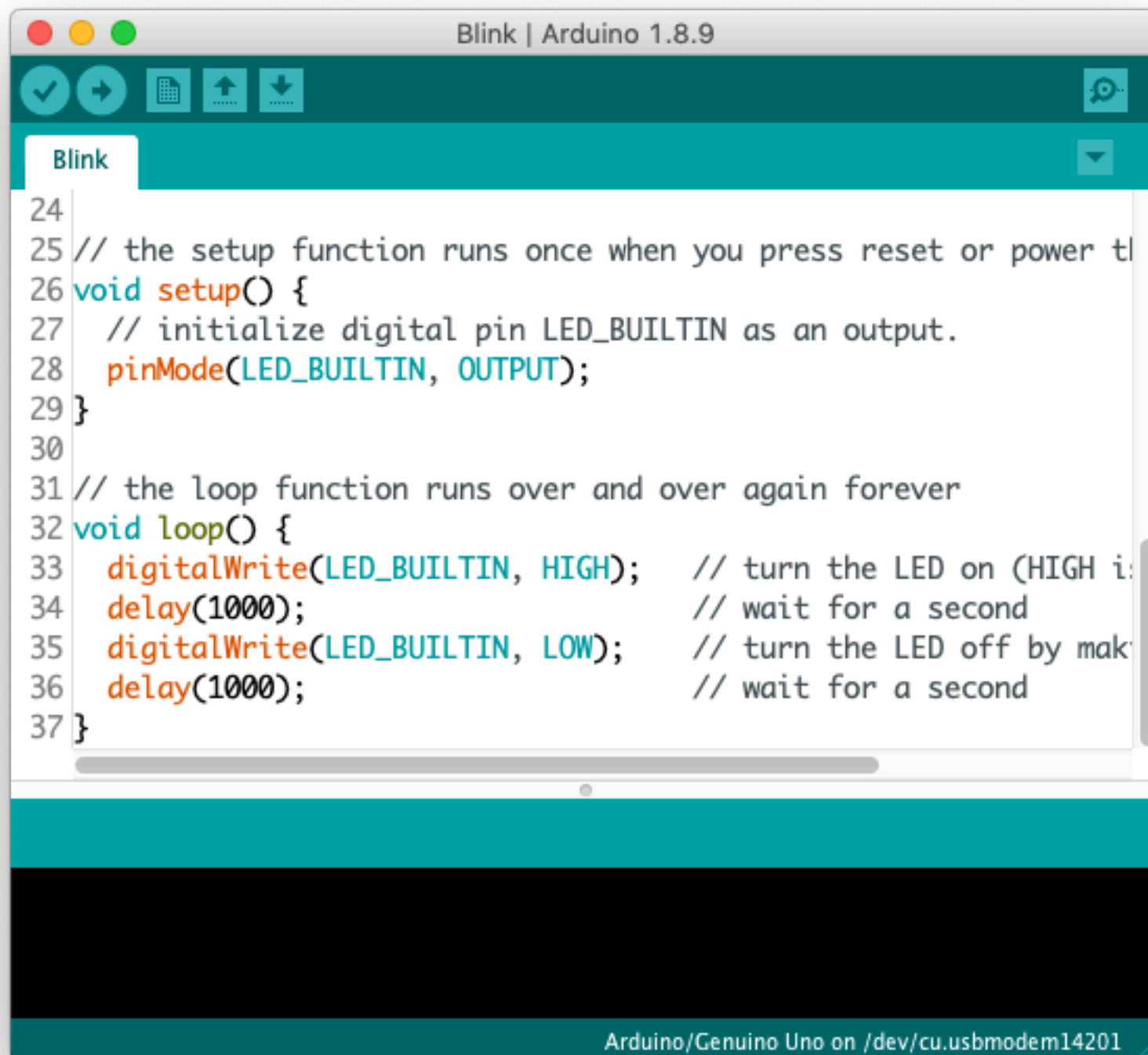
actuator - output
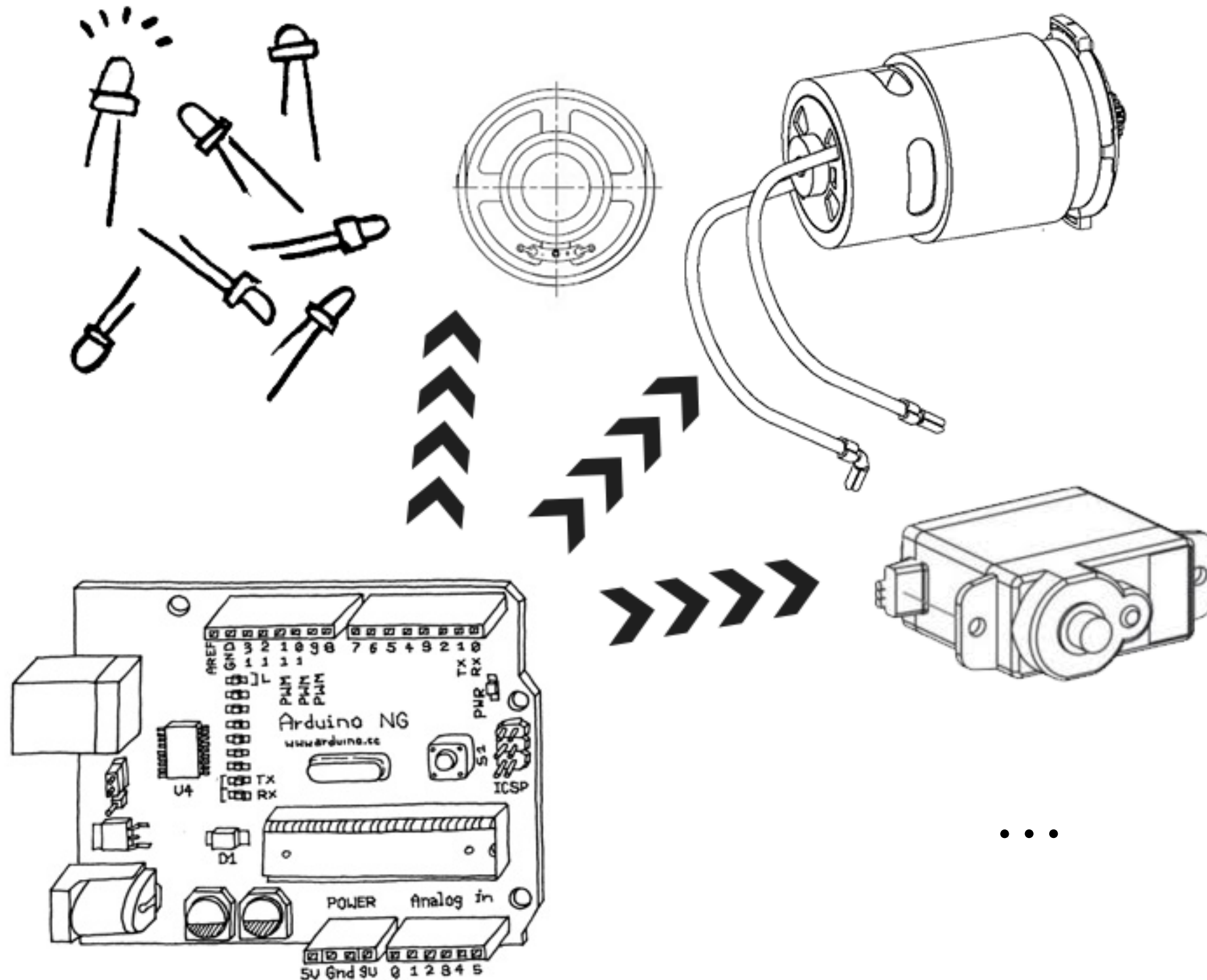
Arduino Terms

- 'sketch' – program that runs on the Arduino

- 'pin' – input or output connected to something, like a LED or a switch
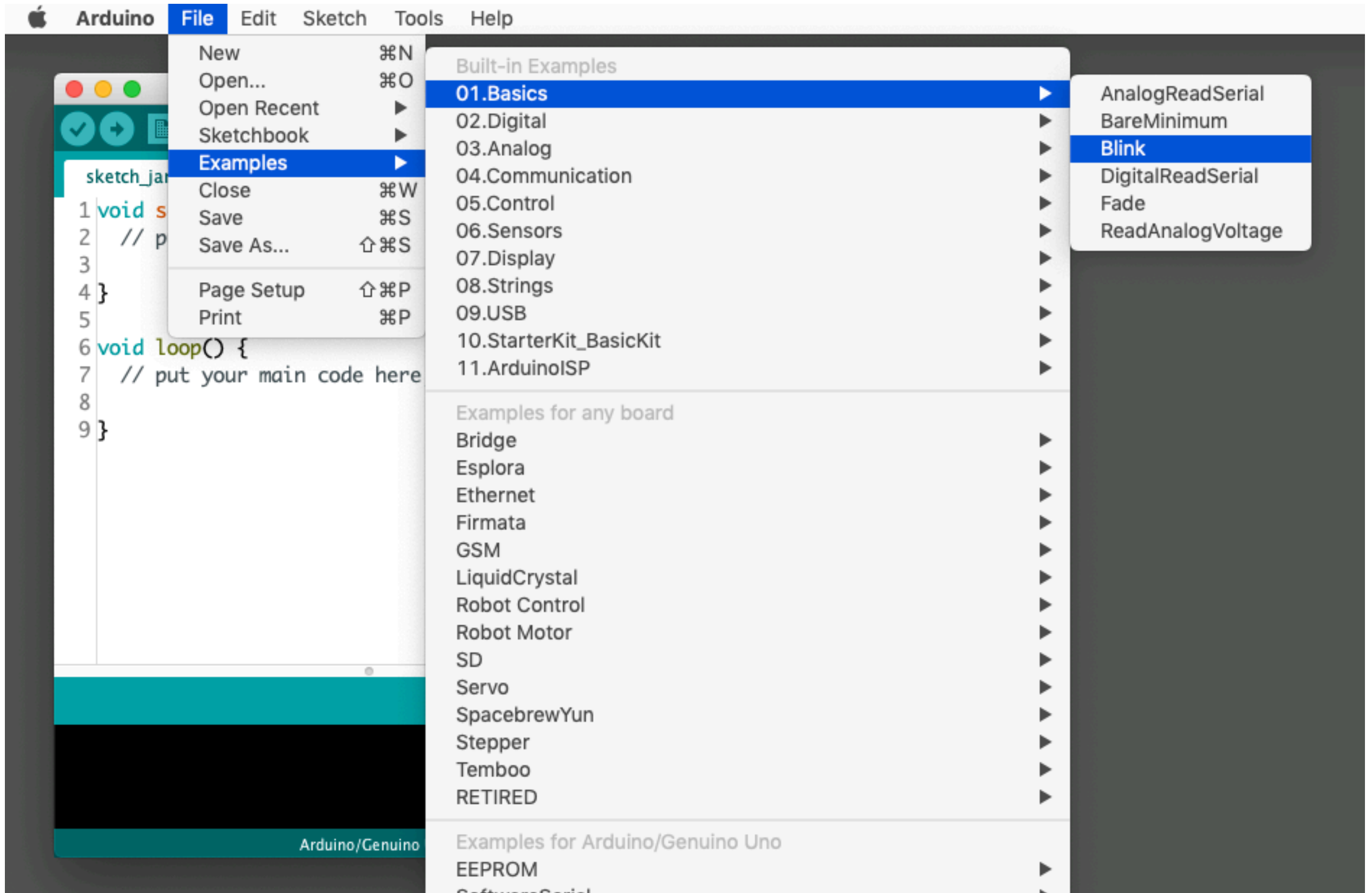
Blink

```
24
25 // the setup function runs once when you press reset or power th
26 void setup() {
27   // initialize digital pin LED_BUILTIN as an output.
28   pinMode(LED_BUILTIN, OUTPUT);
29 }
30
31 // the loop function runs over and over again forever
32 void loop() {
33   digitalWrite(LED_BUILTIN, HIGH);   // turn the LED on (HIGH i:
34   delay(1000);                       // wait for a second
35   digitalWrite(LED_BUILTIN, LOW);    // turn the LED off by mak
36   delay(1000);                       // wait for a second
37 }
```
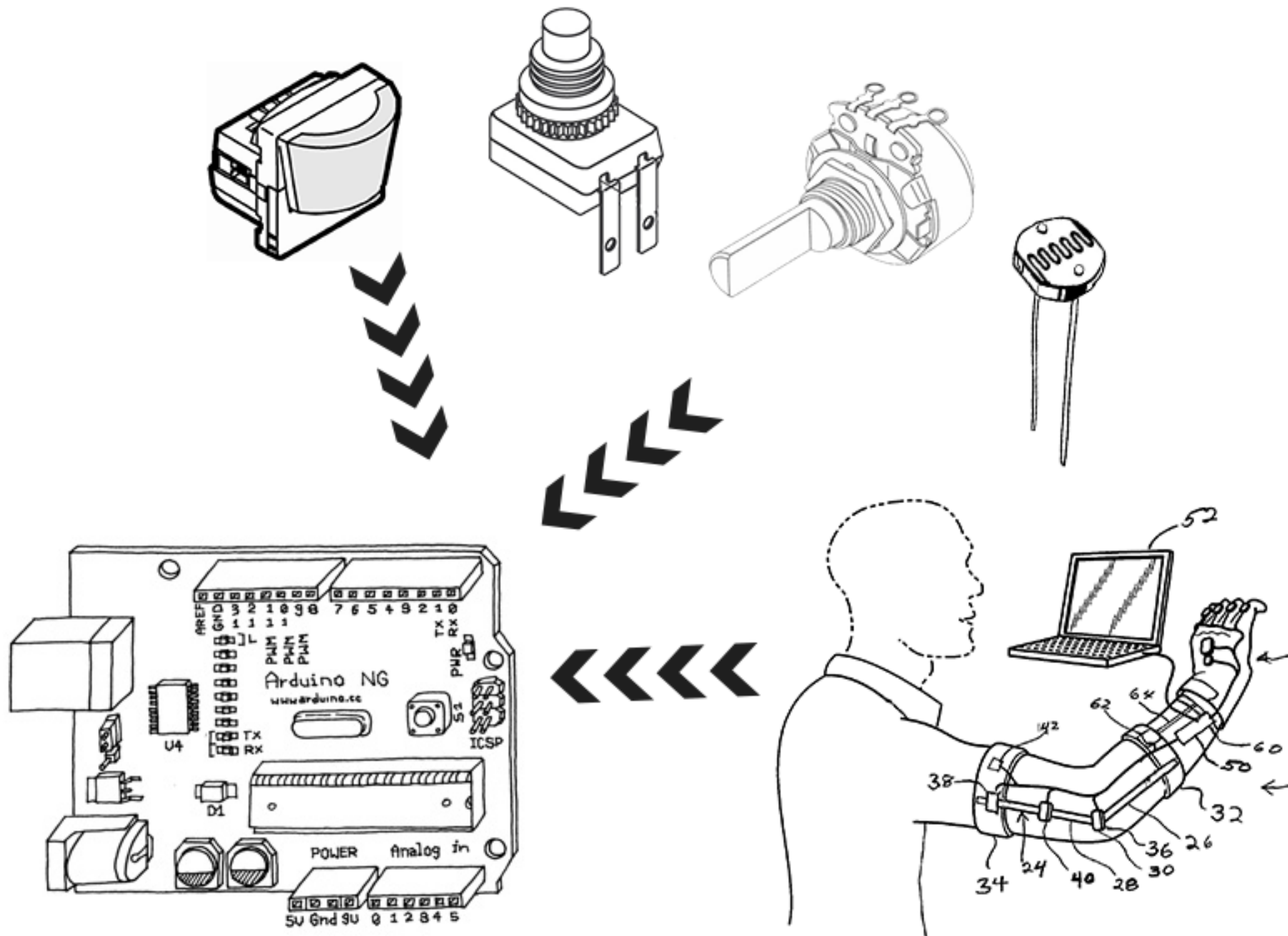
Arduino File Edit Sketch **Tools** Help

Tools menu	
Auto Format	⌘T
Archive Sketch	
Fix Encoding & Reload	
Manage Libraries...	⇧⌘I
Serial Monitor	⇧⌘M
Serial Plotter	⇧⌘L
WiFi101 / WiFiNINA Firmware Updater	
ESP32 Sketch Data Upload	
Board: "Arduino/Genuino Uno"	▶
Port	▶
Get Board Info	
Programmer: "AVRISP mkII"	▶
Burn Bootloader	

Boards Manager...

Arduino AVR Boards
✓ Arduino Yún
Arduino/Genuino Uno
Arduino Duemilanove or Diecimila
Arduino Nano
Arduino/Genuino Mega or Mega 2560
Arduino Mega ADK
Arduino Leonardo
Arduino Leonardo ETH
Arduino/Genuino Micro
Arduino Esplora
Arduino Mini
Arduino Ethernet
Arduino Fio
Arduino BT
LilyPad Arduino USB
LilyPad Arduino
Arduino Pro or Pro Mini
Arduino NG or older

Blin

Blink

```
1  /*
2    Blink
3
4    Turns an LED on
5
6    Most Arduinos ha
7    it is attached t
8    the correct LED pin independent of which board
9    If you want to know what pin the on-board LED i
10   model, check the Technical Specs of your board
11   https://www.arduino.cc/en/Main/Products
12
13   modified 8 May 2014
```

etch   Tools   Help

Auto Format   ⌘T
Archive Sketch
Fix Encoding & Reload
Manage Libraries...   ⇧⌘I
Serial Monitor   ⇧⌘M
Serial Plotter   ⇧⌘L

WiFi101 / WiFiNINA Firmware Updater

ESP32 Sketch Data Upload

Board: "Arduino/Genuino Uno"   ▶
Port: "/dev/cu.usbmodem14201 (Arduino/Genuino Uno)"   ▶   Serial ports
Get Board Info   /dev/cu.-WirelessiAP
                                                              /dev/cu.Bluetooth-Incoming-Port
Programmer: "AVRISP mkII"   ▶   /dev/cu.EDIFIERTWS2-SerialPort
Burn Bootloader   ✓ /dev/cu.usbmodem14201 (Arduino/Genuino Uno)

Blin

on

s ha
ed t
LED pin independent of which board
to know what pin the on-board LED i
the Technical Spe
arduino.cc/en/Main/

⊙⊙ sketch_nov04a | Arduino 1.0.1

File Edit Sketch Tools Help

sketch_nov04a

                    Auto Format   Ctrl+T
                    Archive Sketch
                    Fix Encoding & Reload
                    Serial Monitor   Ctrl+Shift+M

                    Board   ▶
                    Serial Port   ▶   COM1
                                                   COM2
                    Programmer   ▶   ✓ COM3
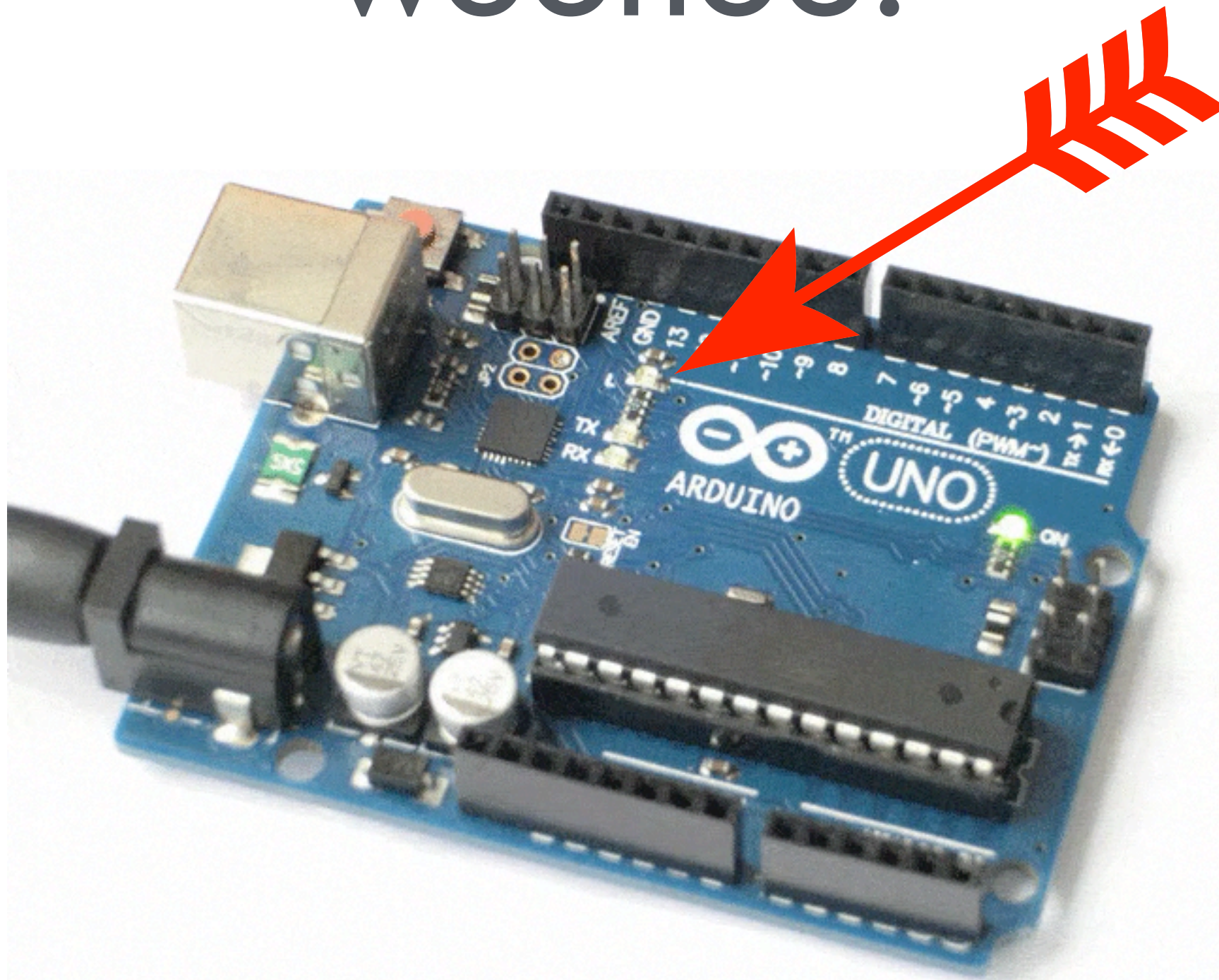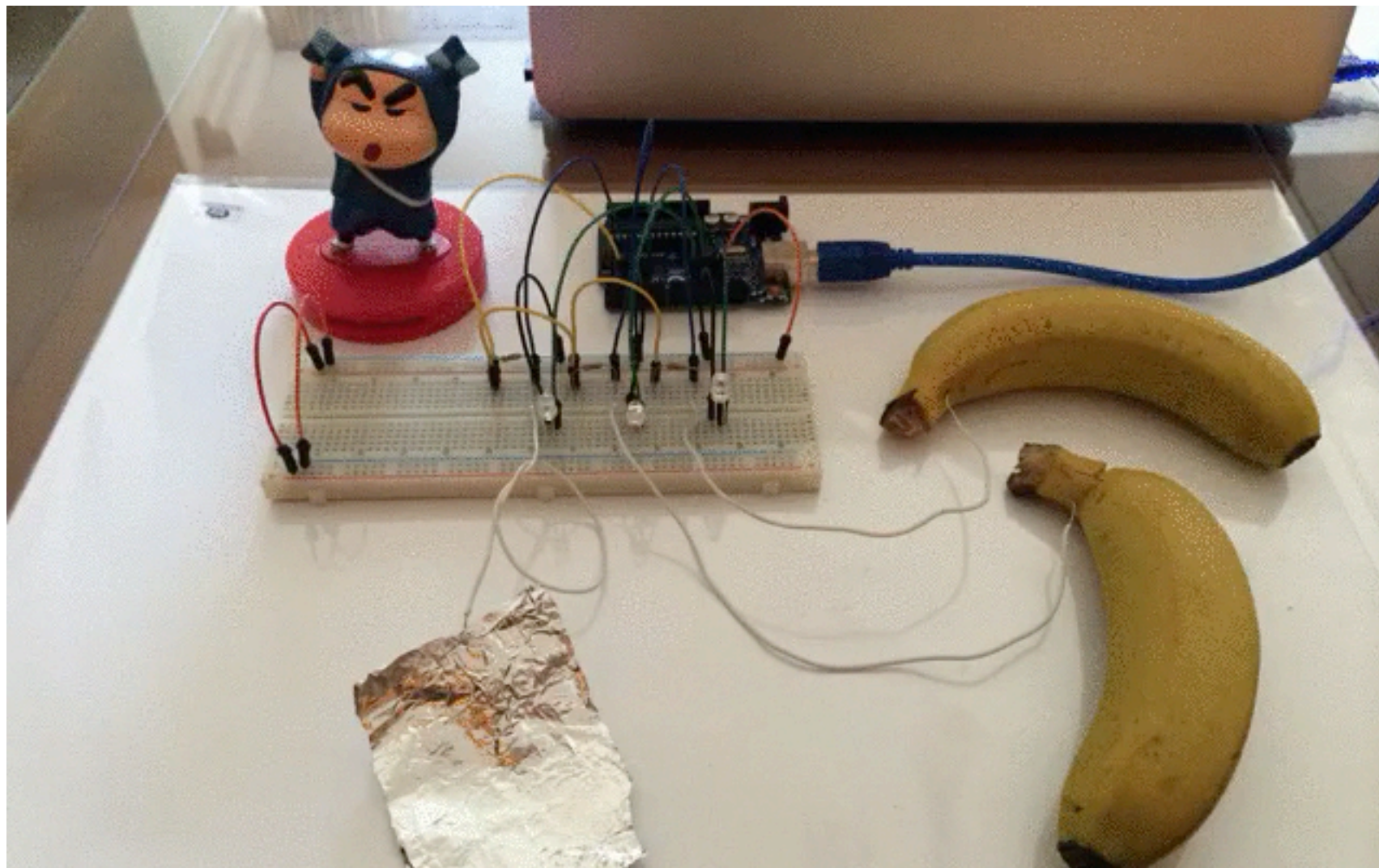   Burn Bootloader

Verify and Upload

woohoo!

Be careful
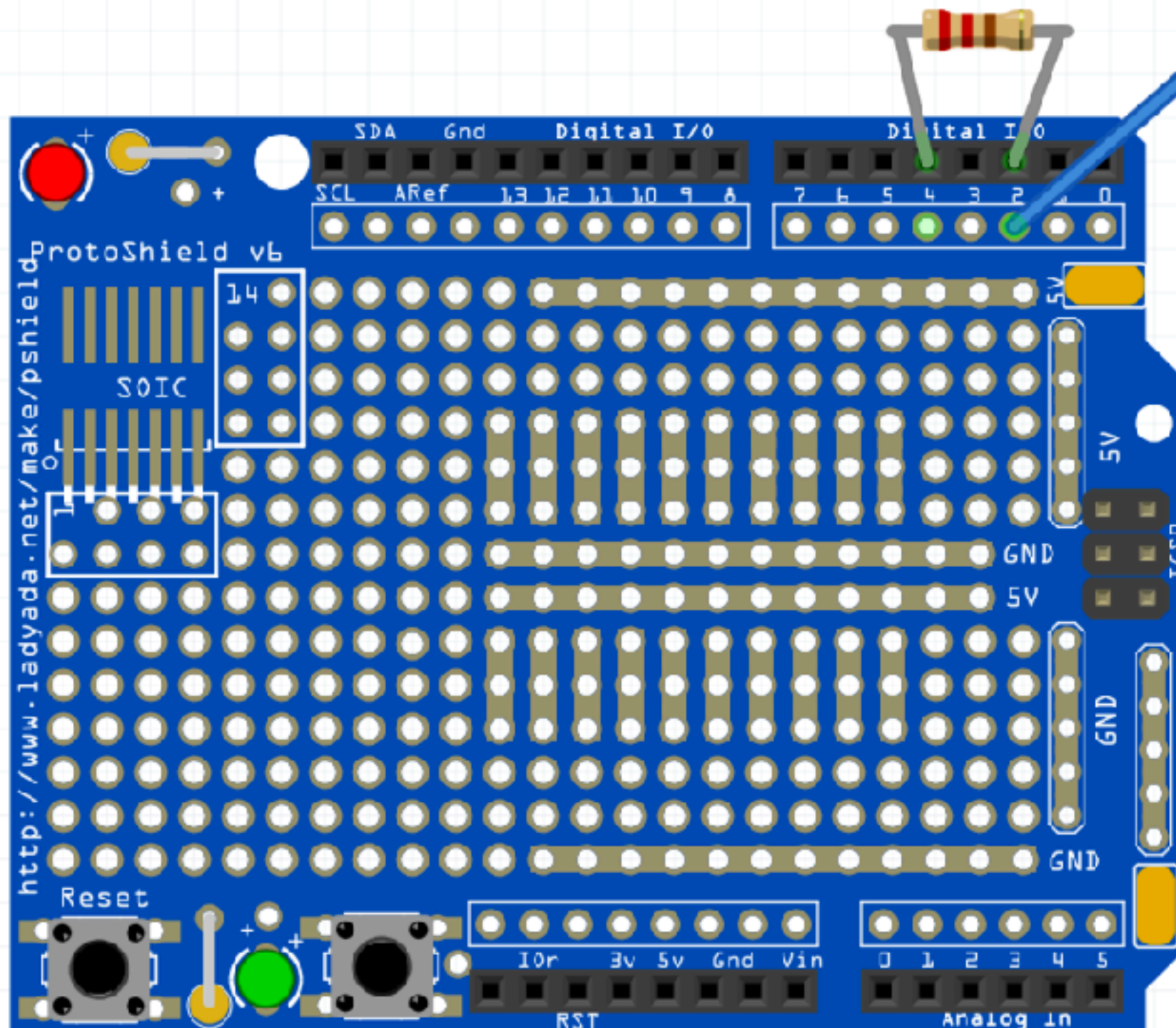
- Your computer is connected to the Arduino. Be careful with short circuits.

- Avoid metallic surfaces.

- Components can be toxic.

https://github.com/hackersanddesigners/Laserdance.git

Capacitive sensor

Capacitive sensor

sensor

GND

Output pin

5V