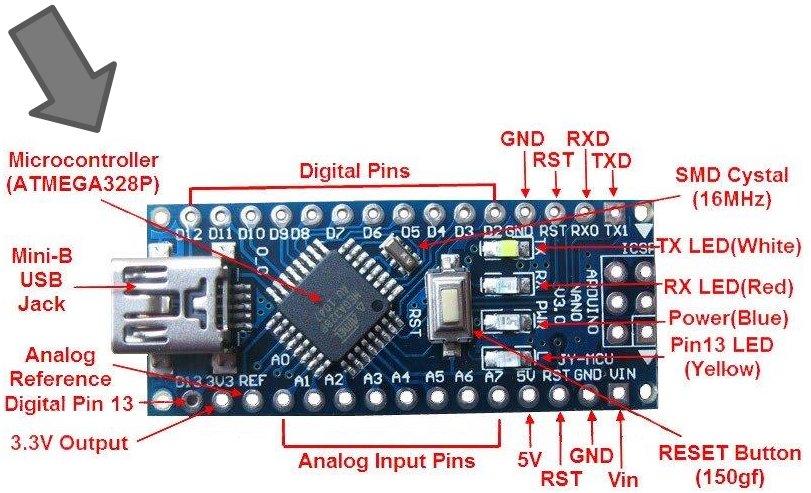
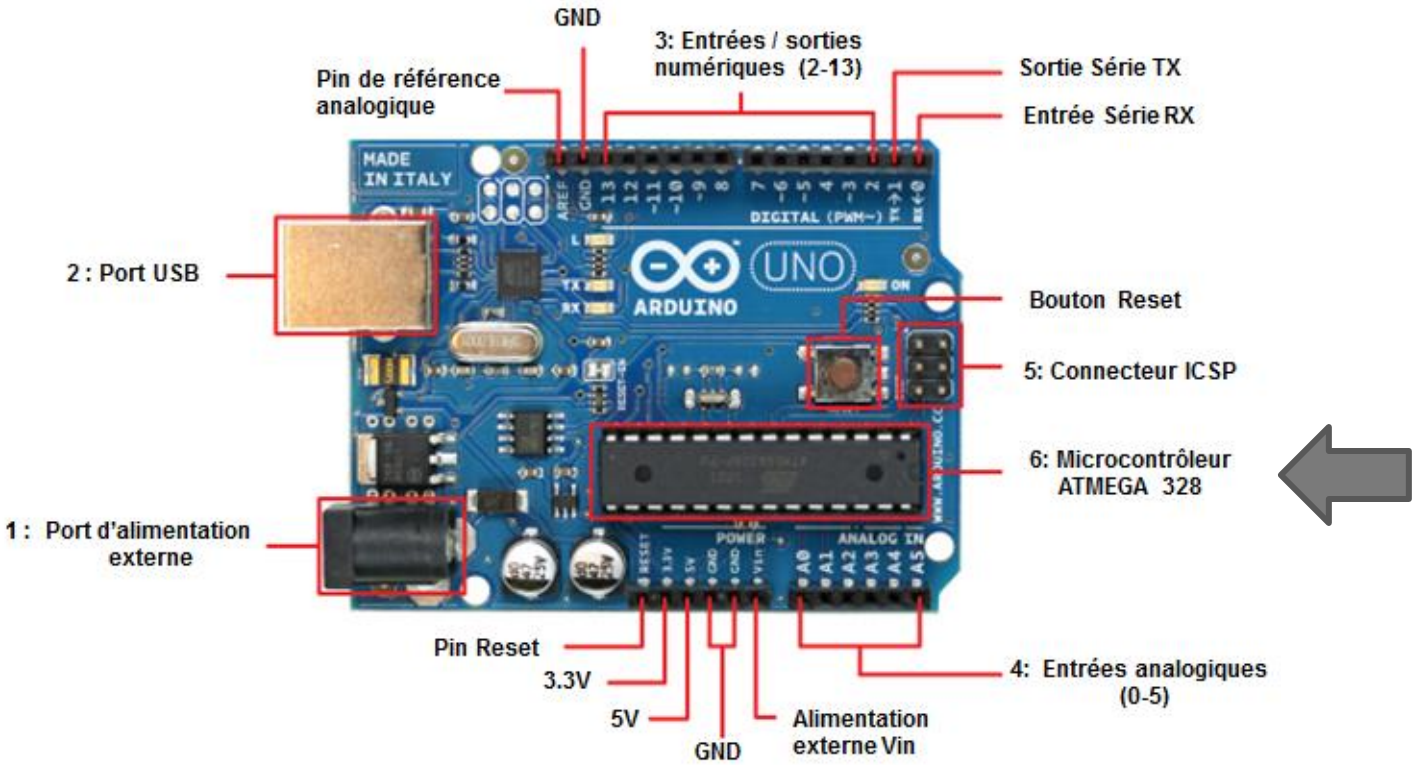
ARDUINO


ARDUINO
YUN
MADE
IN ITALY
ARDUINO
MEGA
2560
POWER
ANALOG IN
DIGITAL

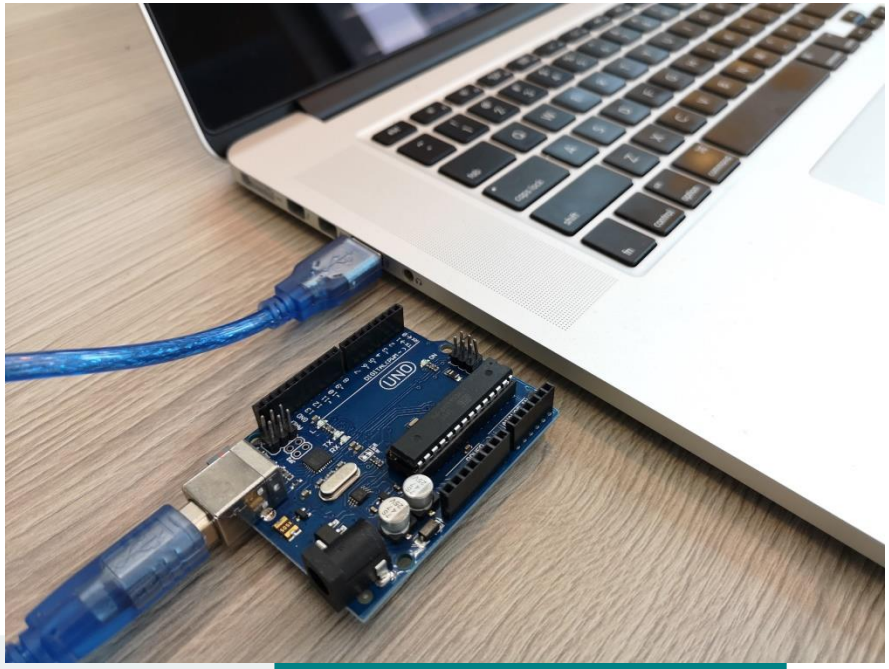
PRÉSENTATION

- Fondé en 2005
- C’est un microcontrôleur





- **Une carte Arduino**
- **Un pc ou Mac**
- **Un cable USB**



Downloads

Arduino IDE 1.8.13

The open-source Arduino Software (IDE) makes it easy to write code and upload it to the board. This software can be used with any Arduino board.

Refer to the **Getting Started** page for Installation instructions.

SOURCE CODE

Active development of the Arduino software is **hosted by GitHub**. See the instructions for **building the code**. Latest release source code archives are available **here**. The archives are PGP-signed so they can be verified using **this** gpg key.

DOWNLOAD OPTIONS

Windows Win 7 and newer
Windows ZIP file

Windows app Win 8.1 or 10 Get

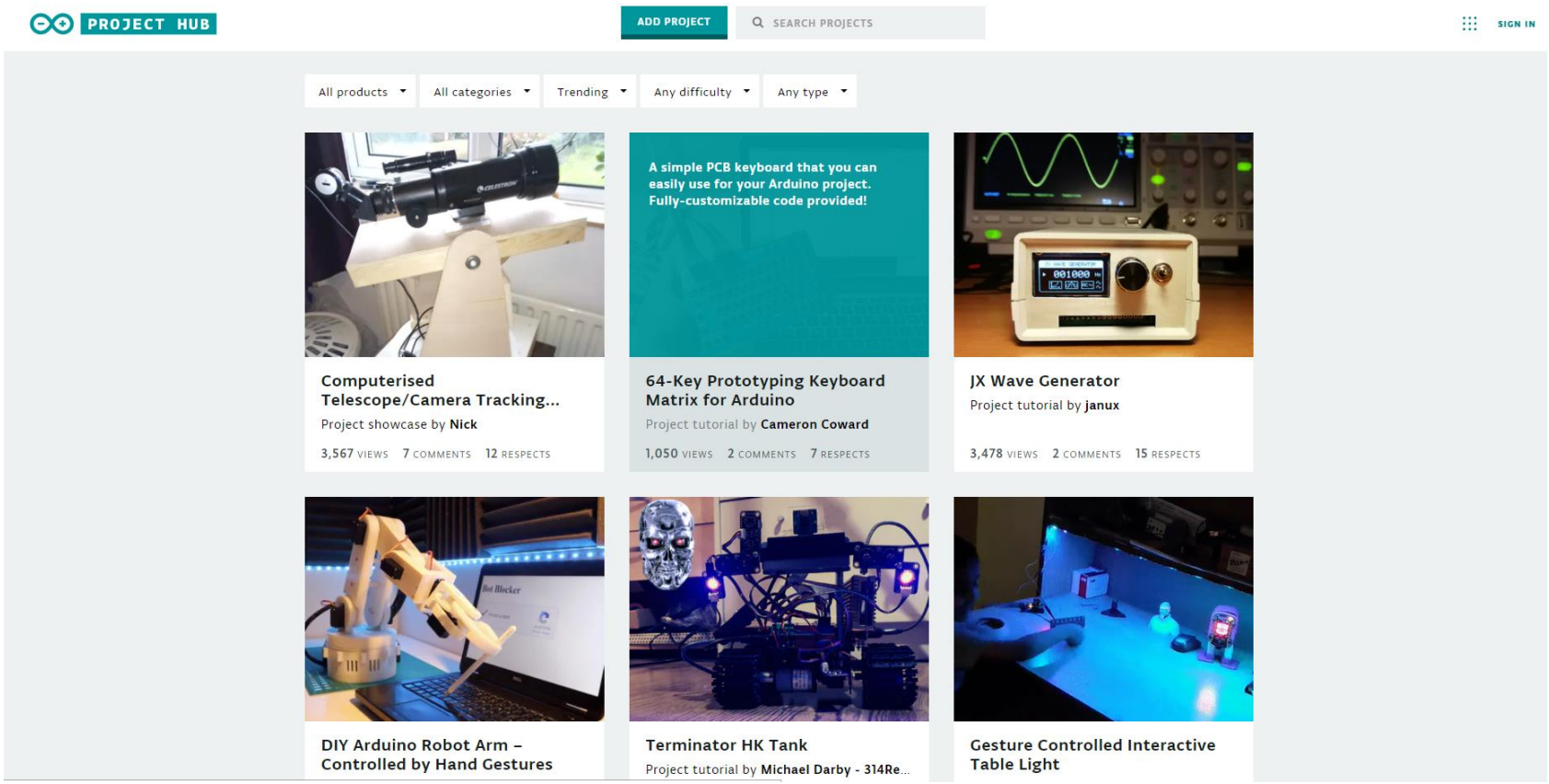
Linux 32 bits
Linux 64 bits
Linux ARM 32 bits
Linux ARM 64 bits

Mac OS X 10.10 or newer

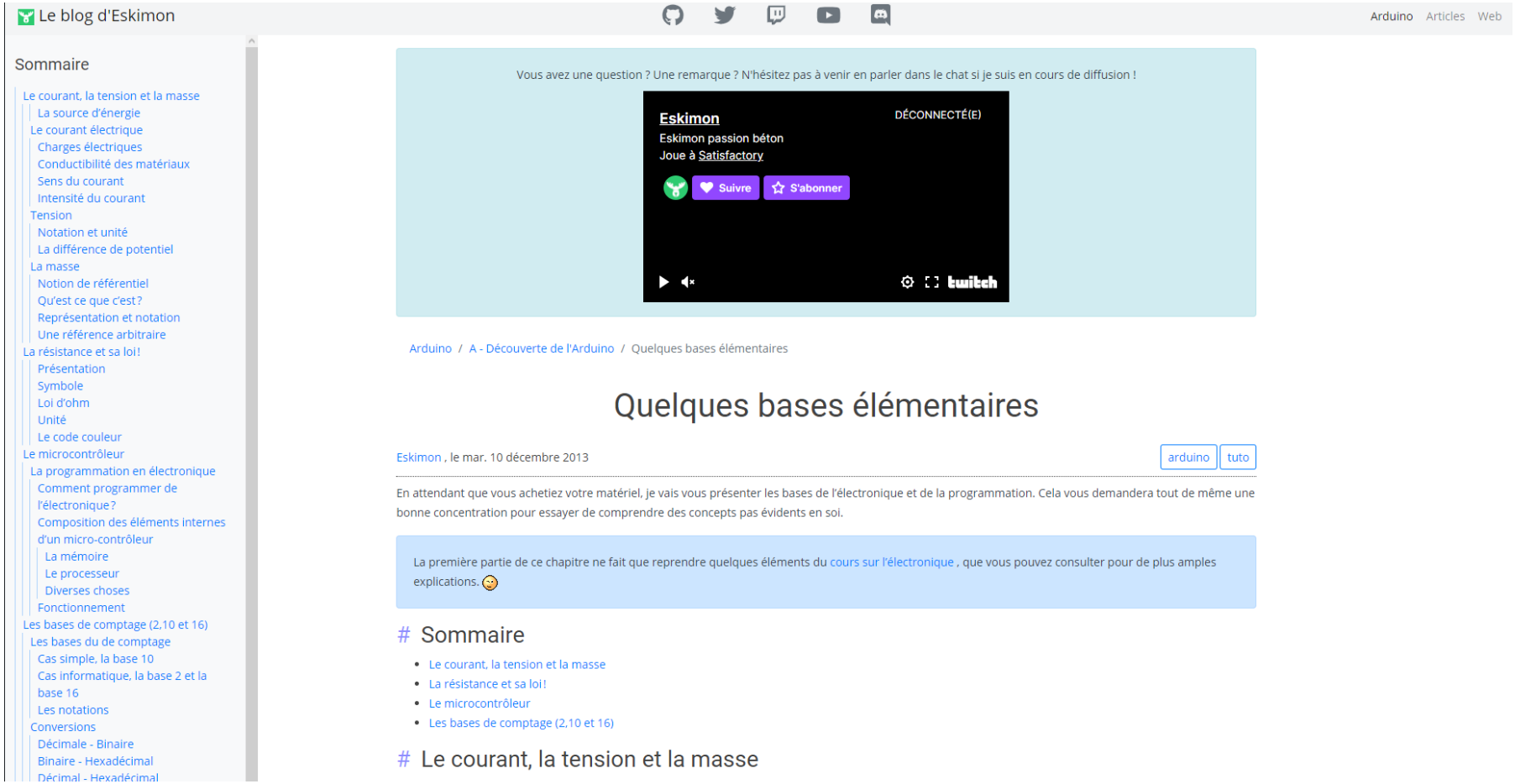
Release Notes Checksums (sha512)

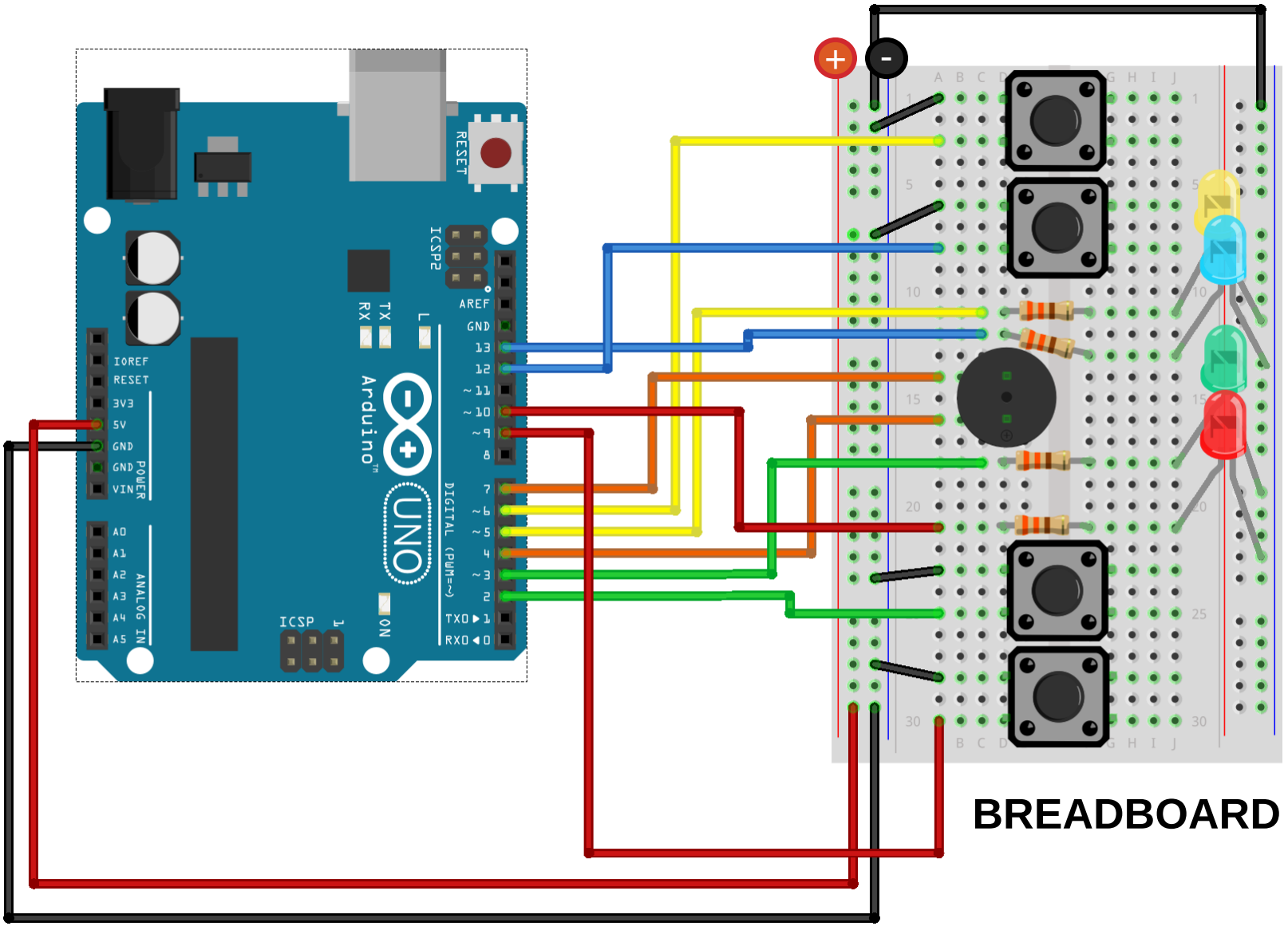
MISE EN PRATIQUE

- https://create.arduino.cc/projecthub

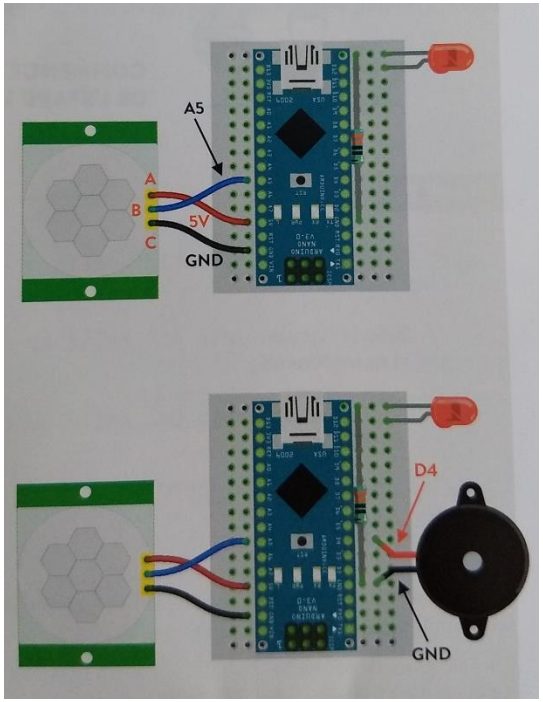


https://eskimon.fr




RESET
ICSP2
AREF
GND
13
12
~11
~10
~9
8
7
~6
~5
4
~3
2
TX→1
RX←0
DIGITAL (PWM=~)
TX
RX
L
Arduino™
UNO
ON
ICSP
1
IOREF
RESET
3V3
5V
GND
GND
VIN
POWER
A0
A1
A2
A3
A4
A5
ANALOG IN
+
-
BREADBOARD
fritzing

- C
- C++



Alarme | Arduino 1.8.13

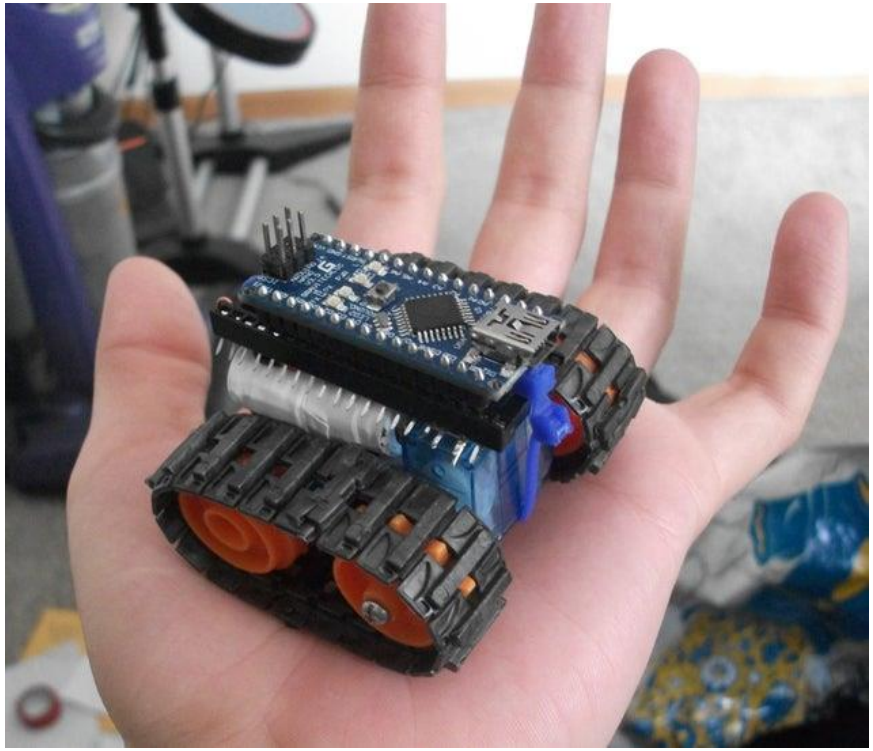
Fichier Édition Croquis Outils Aide

Alarme §

```
// pin 12 relié à la led
int ledPin=12;
// A5 mouvement
int inputPin=A5;
// D4 relié au buzzer
int pinSpeaker=4;
int val=0;

void setup() {
  // put your setup code here, to run once:
  // config du pin LED en tant que sortie
  pinMode(ledPin,OUTPUT);
  // config du pin capteur en tant qu'entrée
  pinMode(inputPin,INPUT);
  // config du pin BUZZER en tant que sortie
  pinMode(pinSpeaker,OUTPUT);
}

void loop() {
  // put your main code here, to run repeatedly:

  val=digitalRead(inputPin);
  if(val==HIGH){
    //true = allume led
    digitalWrite(ledPin,HIGH);
    //sonnerie buzzer
    tone(pinSpeaker,160,300);
    //Attente de 0,15s
    delay(150);
    //OFF buzzer
    noTone(pinSpeaker);
    //off led
    digitalWrite(ledPin,LOW);
    //délai 0,15s
    delay(150);
   }
  }
```

PROJETS

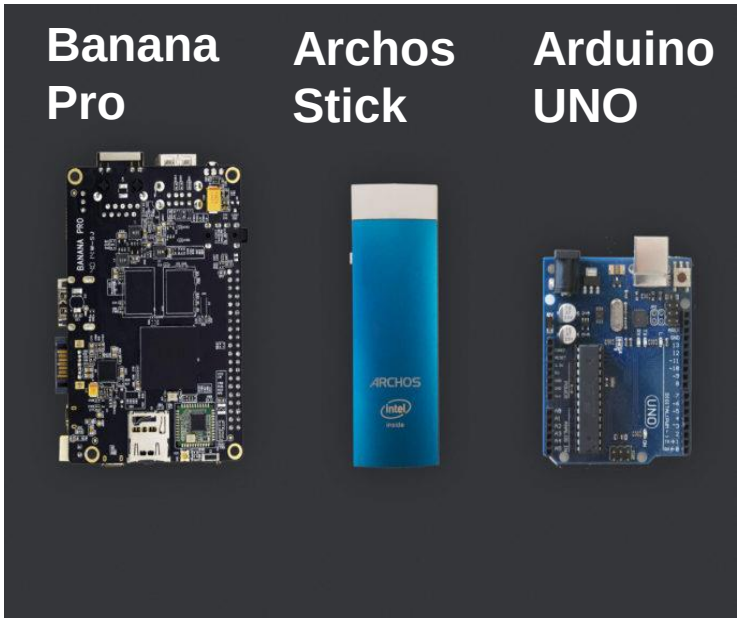
https://www.ionos.fr/digitalguide/serveur/know-how/projets-arduino/



CONCURRENTS

Raspberry Pi

Langages : C++, Java, python



https://raspberry-pi.fr/alternatives-raspberry-pi/

SOURCES

https://www.arduino-france.com/tutoriels/quest-ce-que-arduino/

https://www.technologuepro.com/microcontroleur-2/arduino/Arduino%20uno.html

https://www.robobox.fr

QUESTIONS ?