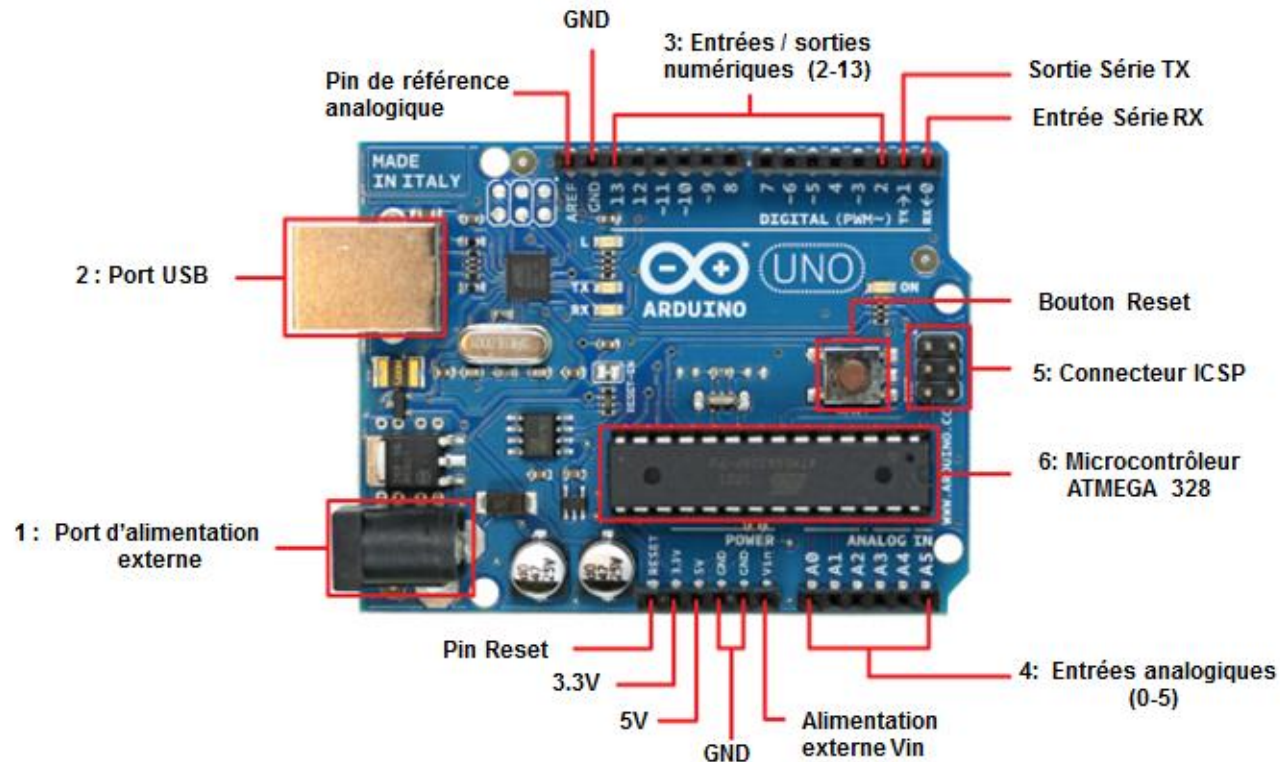
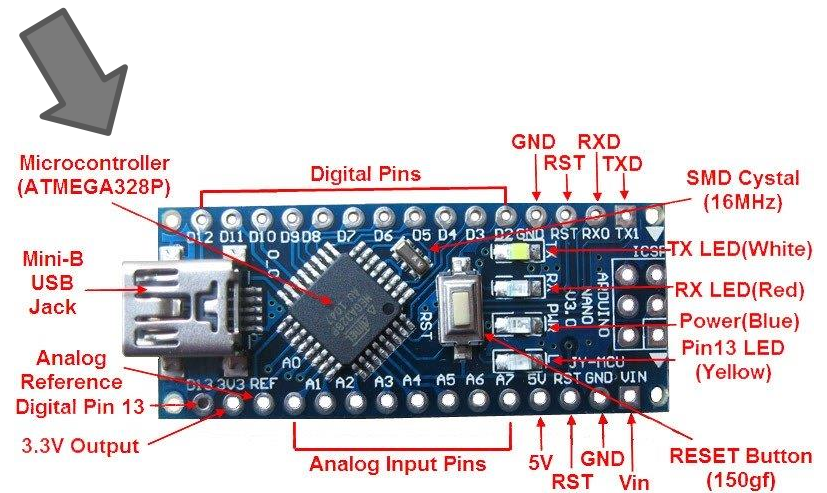


# ARDUINO

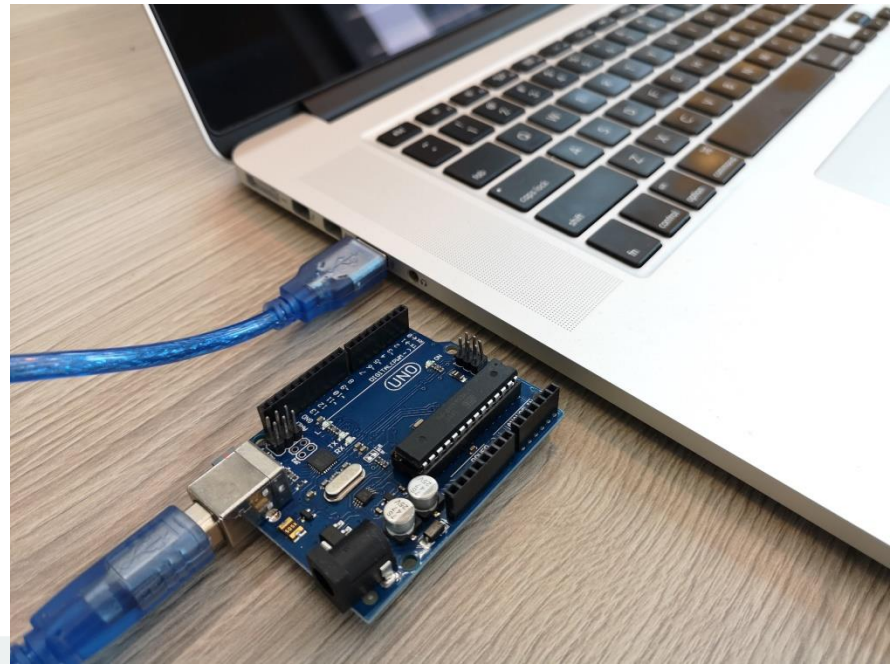


# PRÉSENTATION

- 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



**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

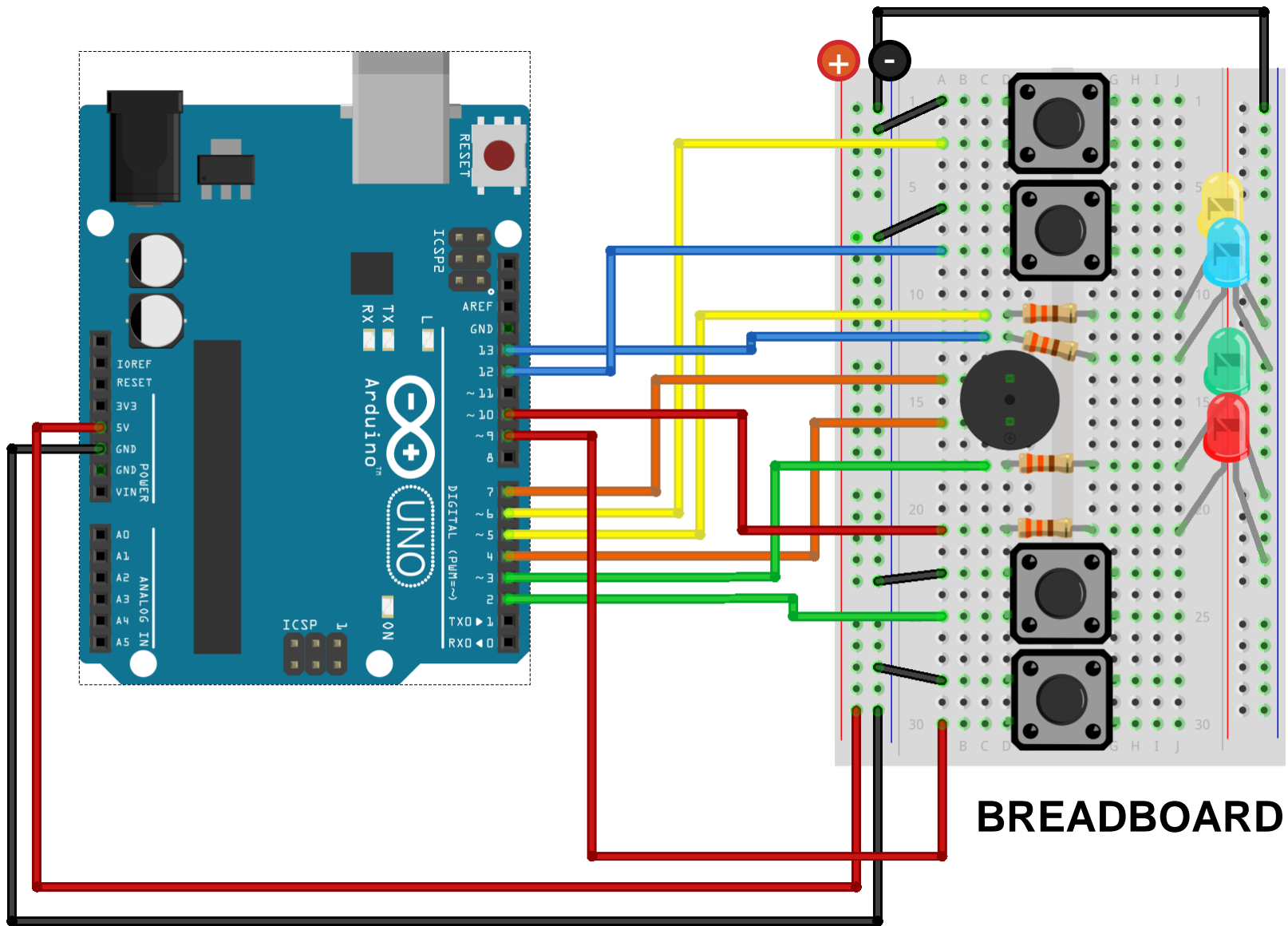
- <https://create.arduino.cc/projecthub>

The screenshot displays the Arduino Project Hub interface. At the top, there's a navigation bar with the 'PROJECT HUB' logo, an 'ADD PROJECT' button, and a search bar labeled 'SEARCH PROJECTS'. Below this, a filter bar includes dropdown menus for 'All products', 'All categories', 'Trending', 'Any difficulty', and 'Any type'. The main content area features a grid of project cards:

- Computerised Telescope/Camera Tracking...**  
Project showcase by Nick  
3,567 VIEWS 7 COMMENTS 12 RESPECTS
- 64-Key Prototyping Keyboard Matrix for Arduino**  
Project tutorial by Cameron Coward  
1,050 VIEWS 2 COMMENTS 7 RESPECTS
- JX Wave Generator**  
Project tutorial by janux  
3,478 VIEWS 2 COMMENTS 15 RESPECTS
- DIY Arduino Robot Arm – Controlled by Hand Gestures**
- Terminator HK Tank**  
Project tutorial by Michael Darby - 314Re...
- Gesture Controlled Interactive Table Light**



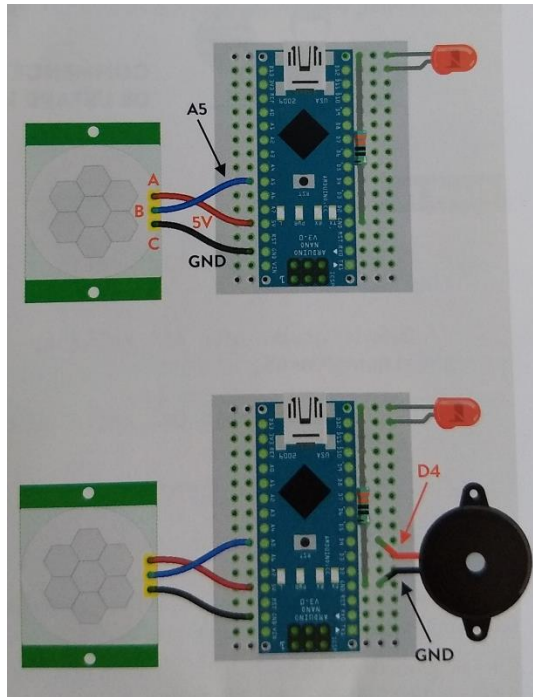




**BREADBOARD**



- C  
- C++



Alarme | Arduino 1.8.13

Fichier Édition Croquis Outils Aide



Alarme \$

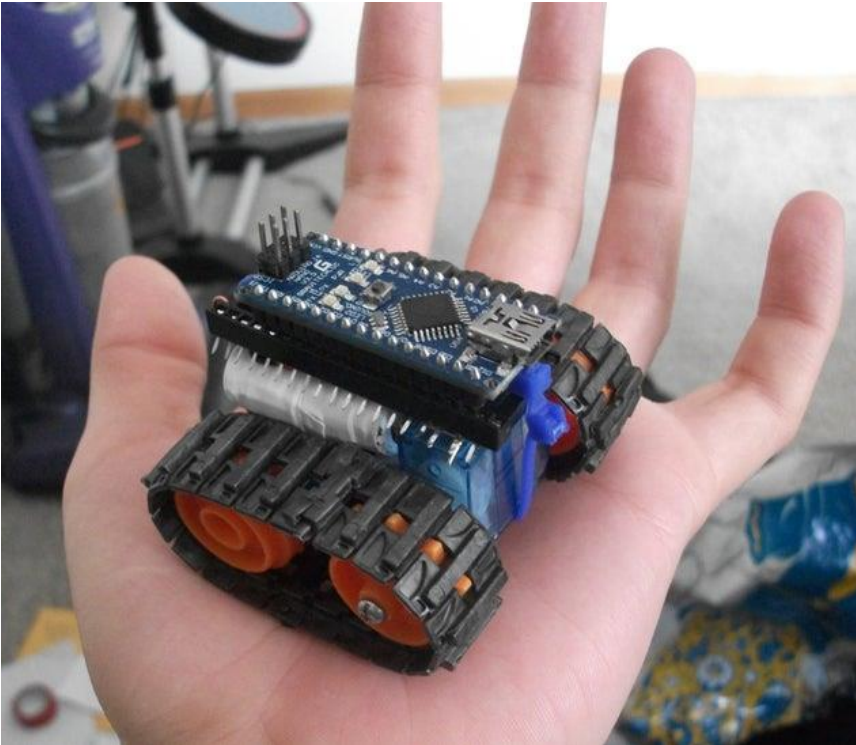
```
// pin 12 relié à la led
int ledPin=12;
// A5 mouvement
int inputPin=A5;
// D4 relié au buzzer
int pinSpeaker=4;
int val=0;

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/>





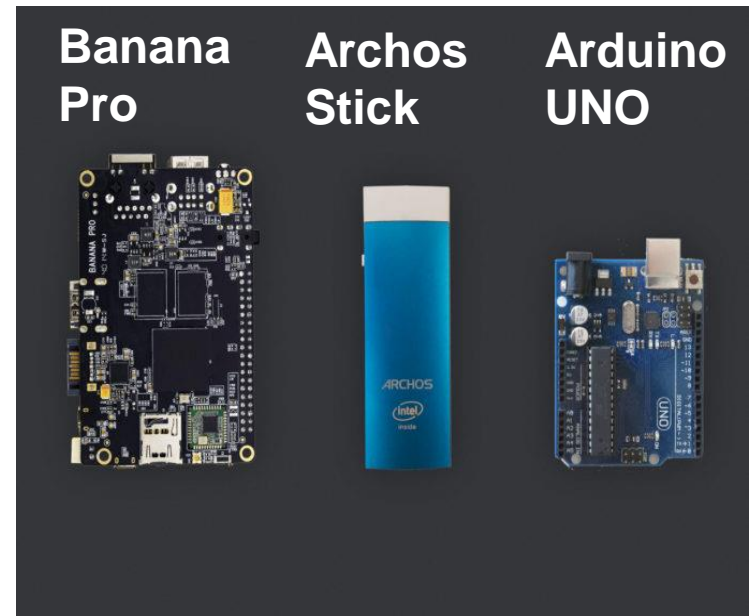
# CONCURRENTS

## Raspberry Pi

Langages : C++, Java, python



shop.mchobby.be



<https://raspberrypi.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 ?

