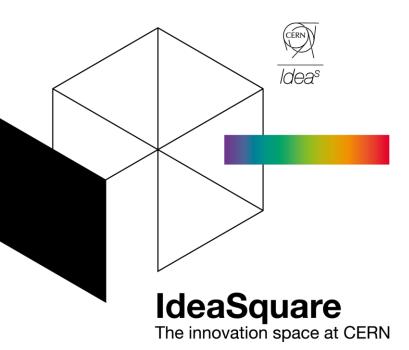


# Introduction to Arduino

19.01.2023 Dina Zimmermann



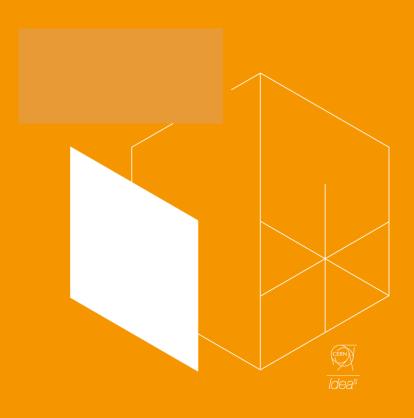


#### **Hardware**

- 1. Arduino
- 2. The Breadboard
- 3. Motion Sensor
- 4. Buzzer
- 5. LED
- 6. Jumpers
- 7. Resistors

#### **Software**

1. The Arduino IDE



### **Hardware**

refers to the physical components of the computer system

(as opposed to the software)

#### The Arduino

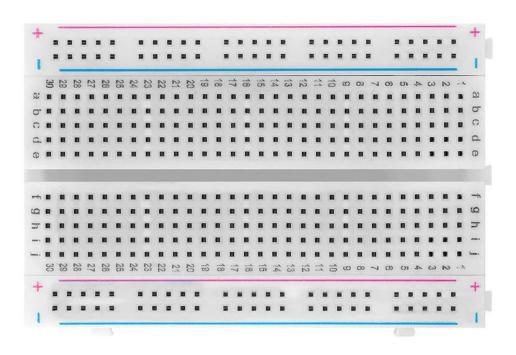
Microcontroller: small computer

Used for electronics projects

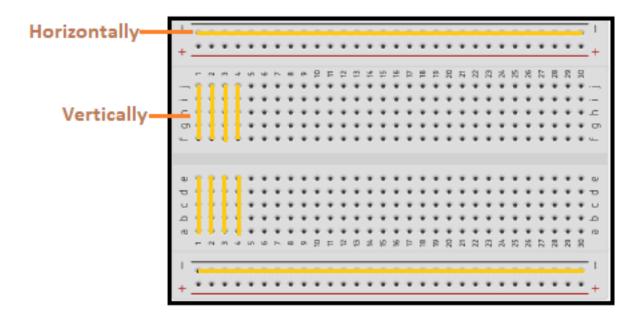
Easy to program and use



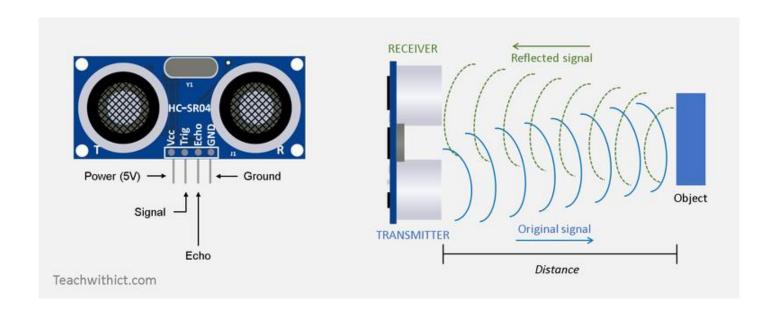
#### The Breadboard



#### The Breadboard



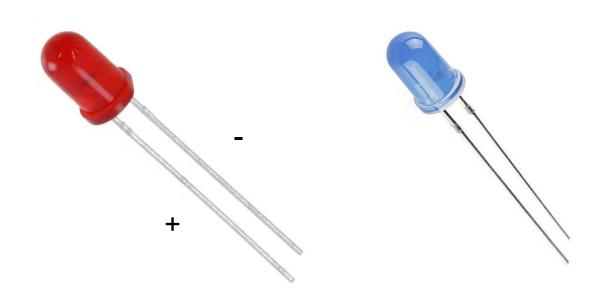
#### **The Motion Sensor**



# The Buzzer



# The LEDs

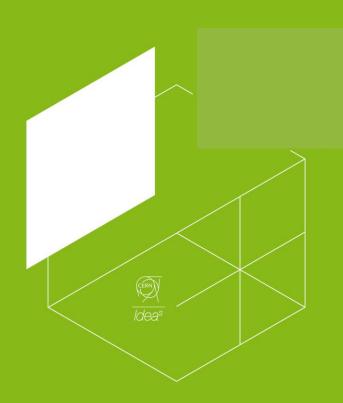


## **The Jumpers**



# The Resistors

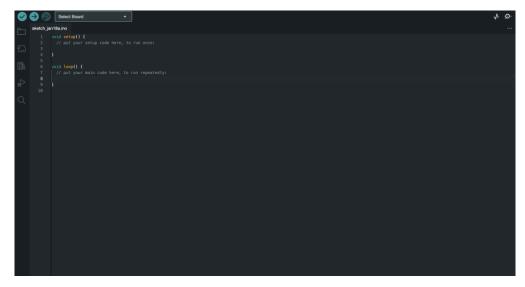




### **Software**

term used to refer to applications, scripts and programs that run on a device

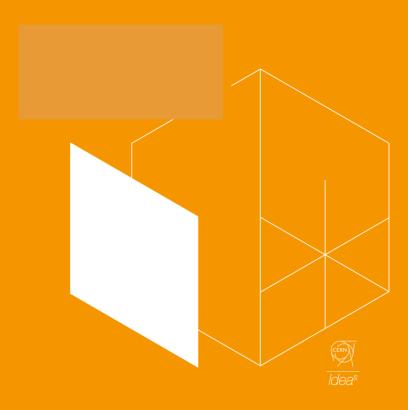
#### The Arduino IDE



Program that connects the Arduino hardware to the computer

Let me show you!





Let's move onto the hands-on part!