

# THE ARDUINO BOARD

## micro USB port

Used for powering your arduino, uploading your programs to your arduino and communicating with arduino via Serial connection.

## Reset button

Resets the ATmega microcontroller.

## Digital pins

Use these pins with :  
`digitalRead()`,  
`digitalWrite()`,  
`analogWrite()`.

ps : `analogWrite()` works only with PWM pins (~).

## TX and RX leds

These leds indicate communication between your arduino and your computer.

## Pin 13 led

The only actuator built-in to your arduino. Very useful for debugging.

## Power led

Indicates that your arduino is receiving power.

## Power connector

This is how you power your arduino when it's not plugged into a USB port for power. Can accept voltages between 7-12V.

## ATmega microcontroller

The heart of your arduino.

## GND and 5V pins

Use to provide +5V power and ground to your circuits.

## Analog in

Use these pins with `analogRead()`.

