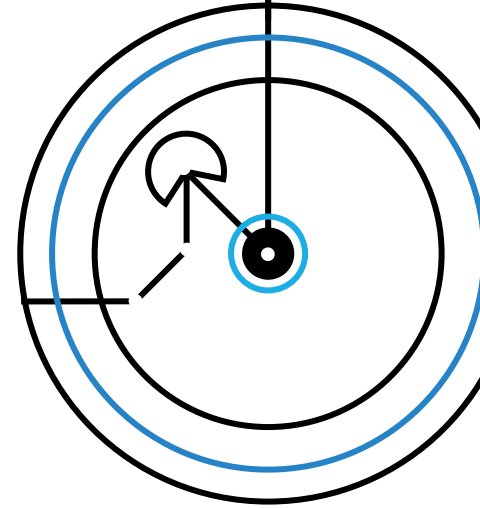




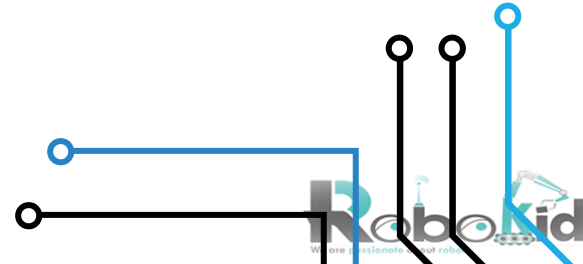
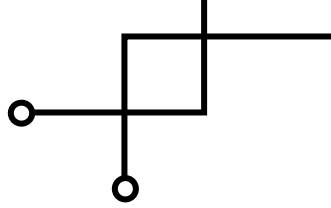
UGV

An Introduction





Motion



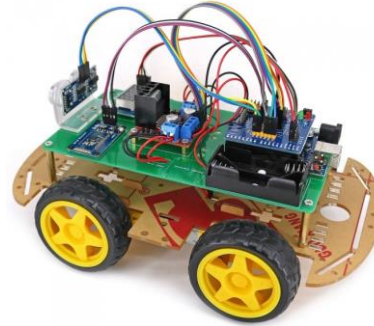
Motion



Motors



Motor driver



Speed

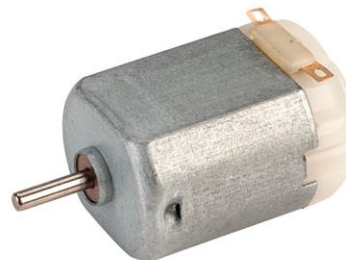
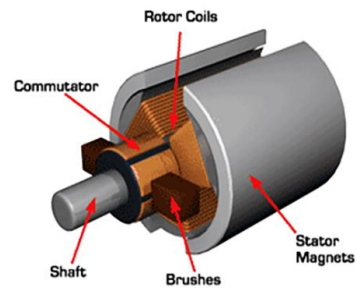


Control



Motors

DC Motor



Other motors

- Brushless DC Motor
- Stepper Motor

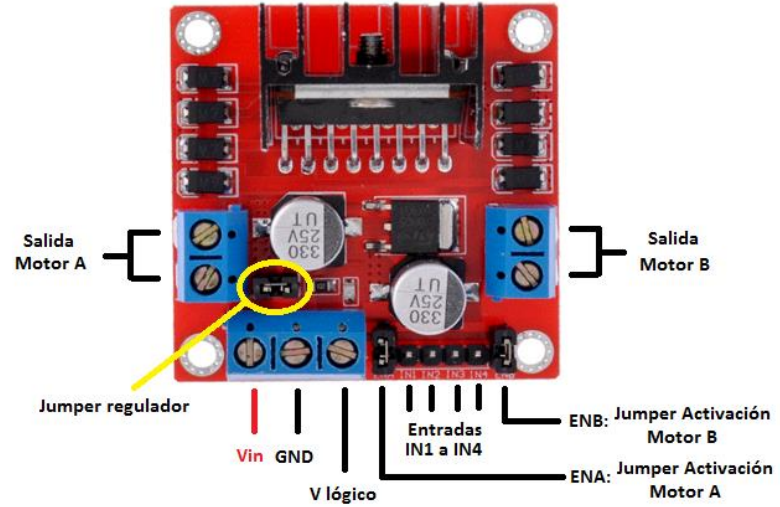
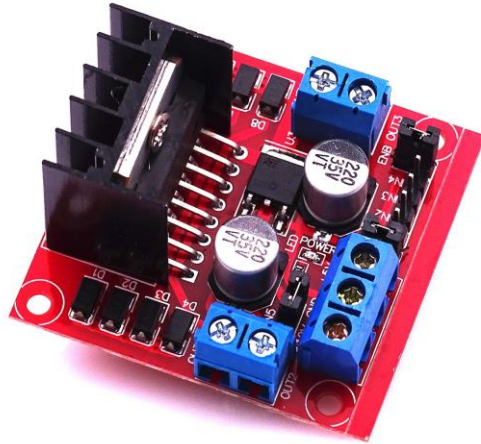




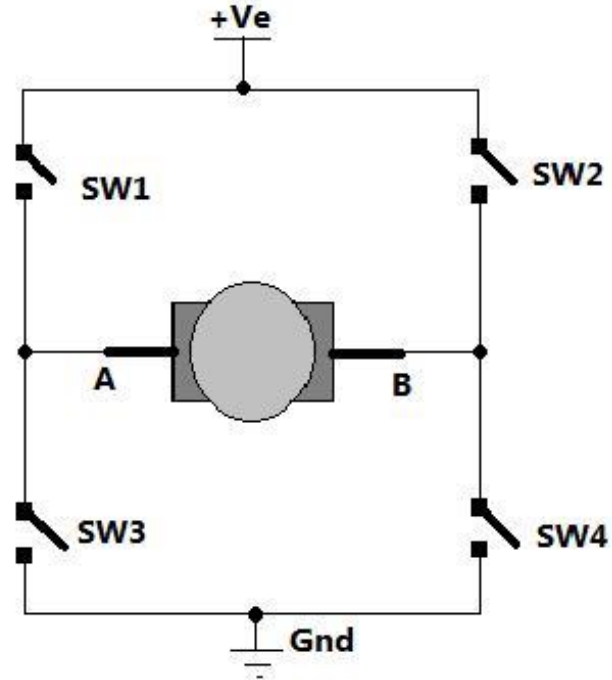
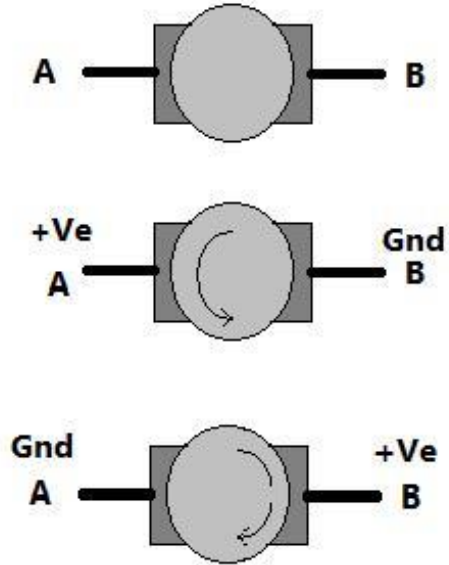
Motor Driver



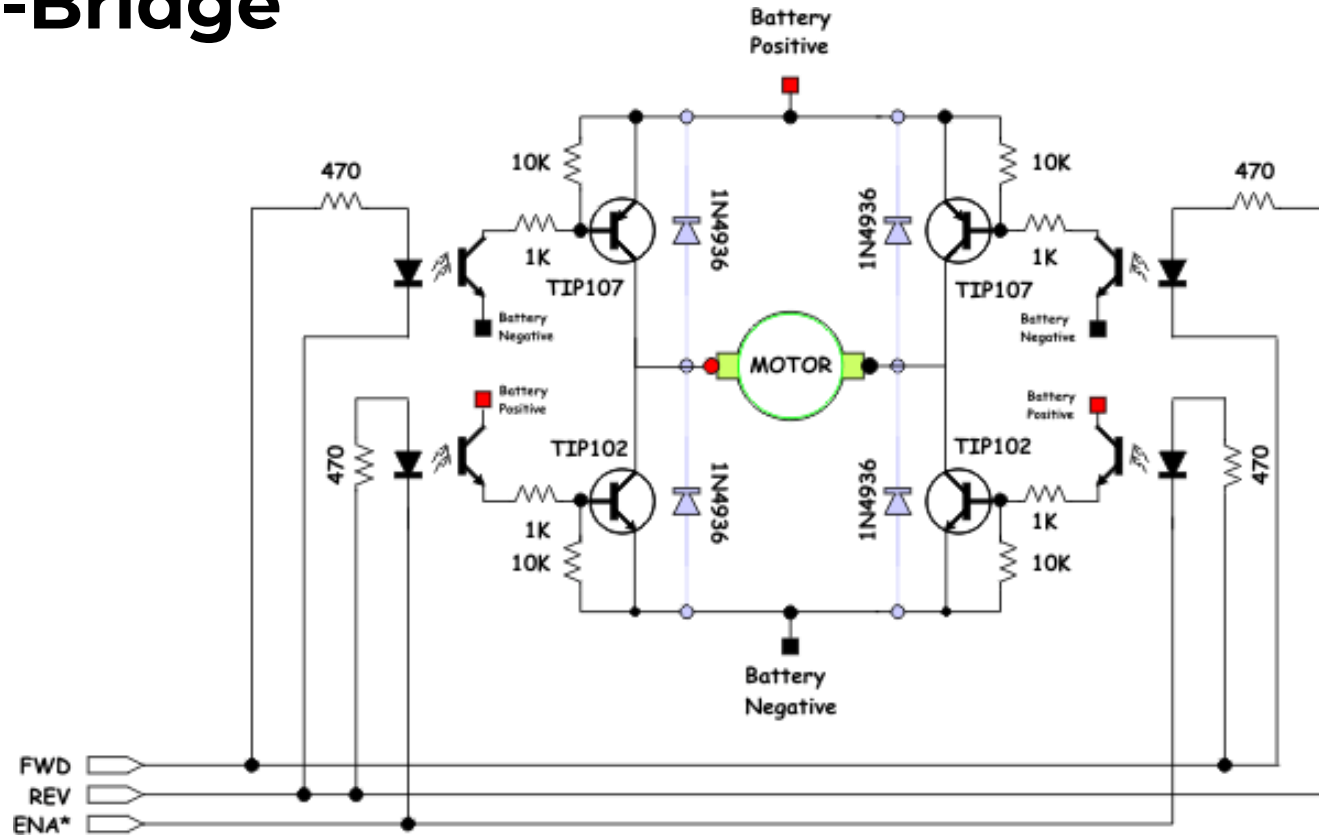
Motor driver

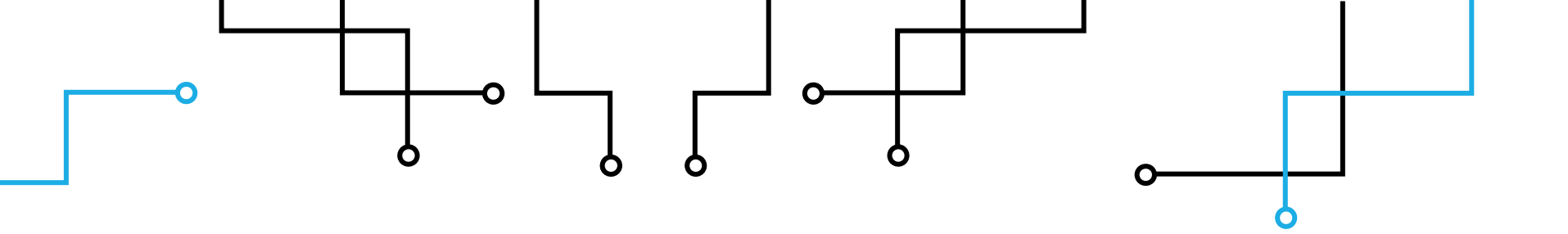


H-Bridge

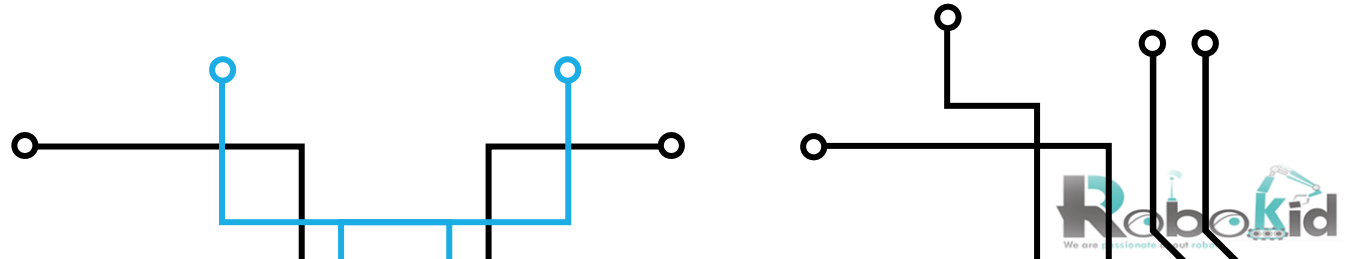


H-Bridge





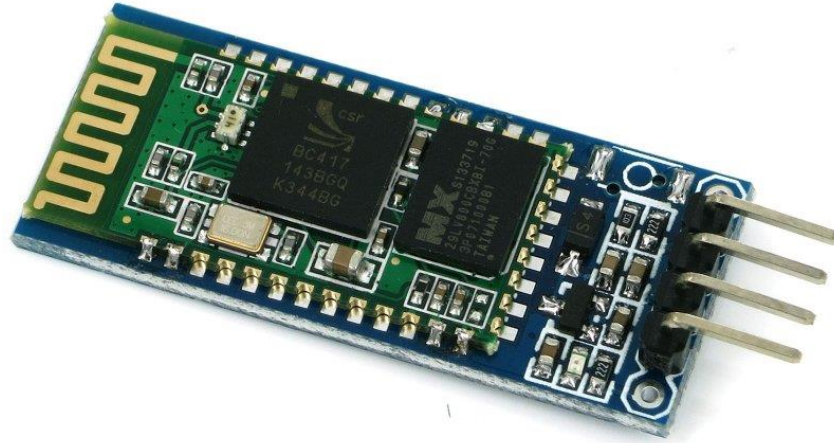
Control



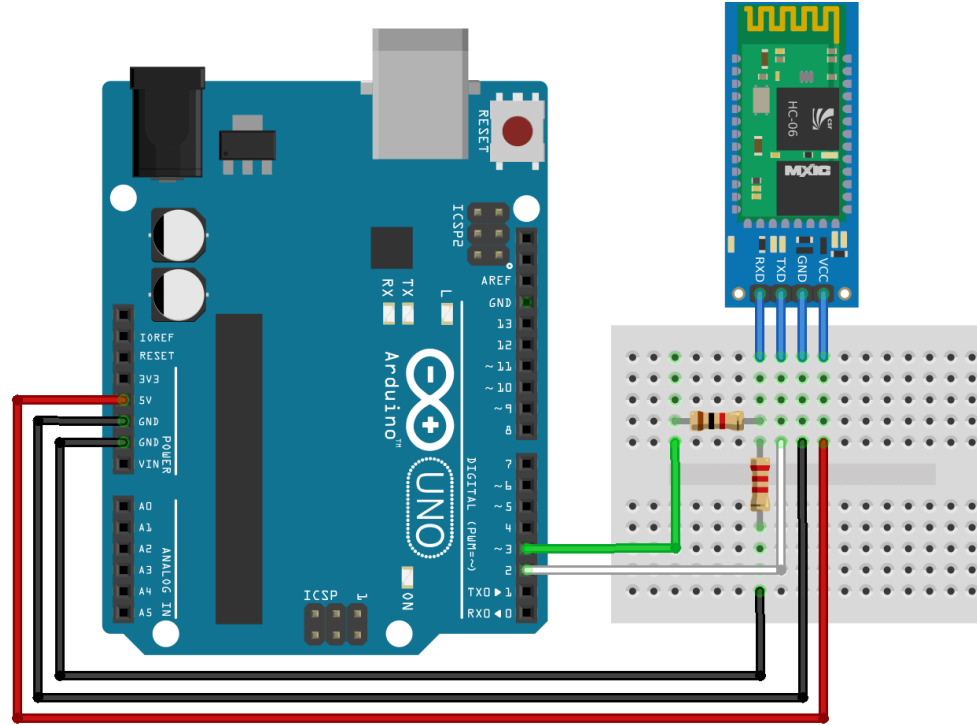
Bluetooth



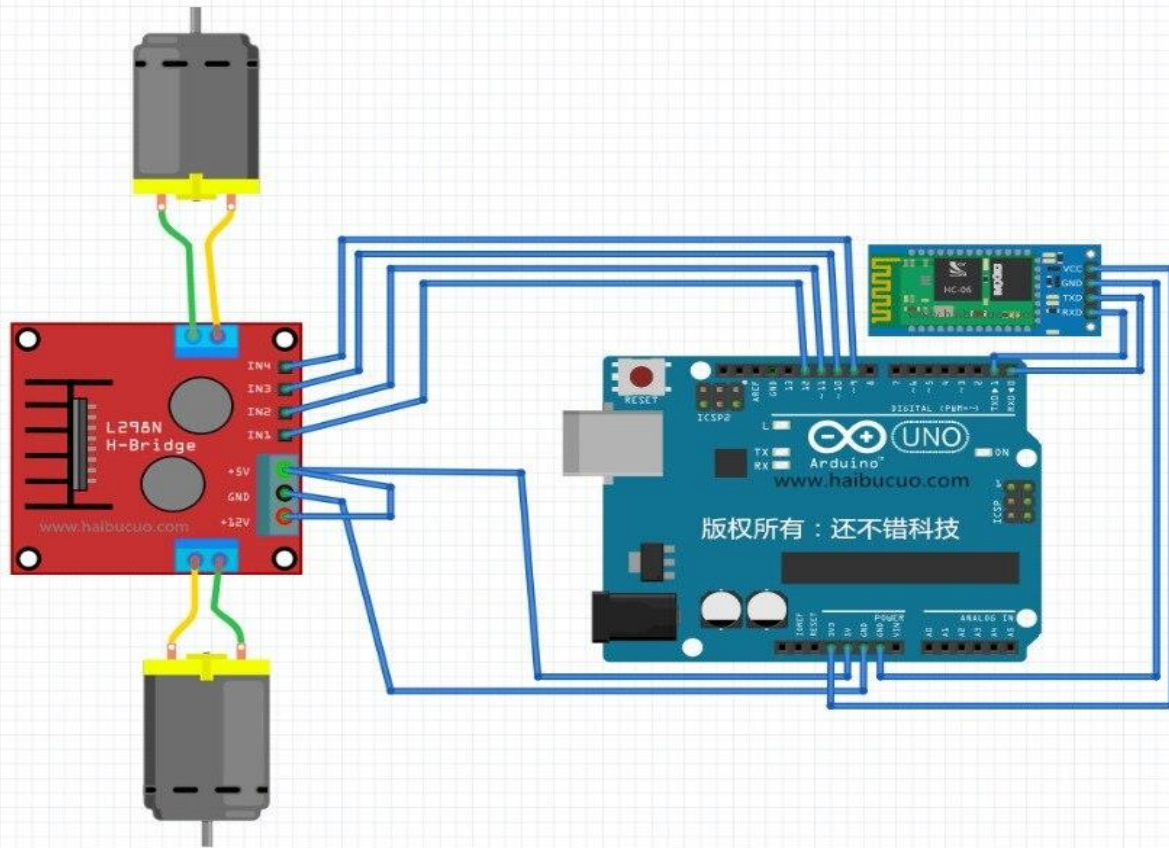
Bluetooth



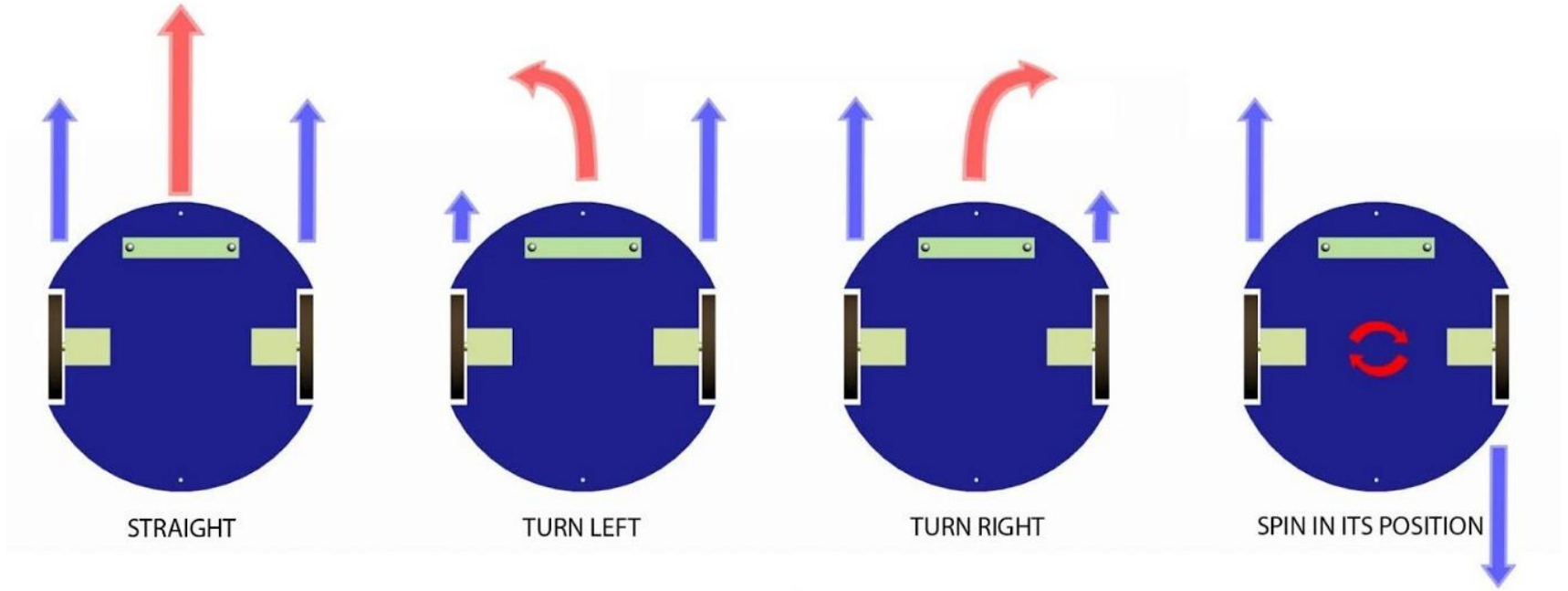
Connect to Arduino

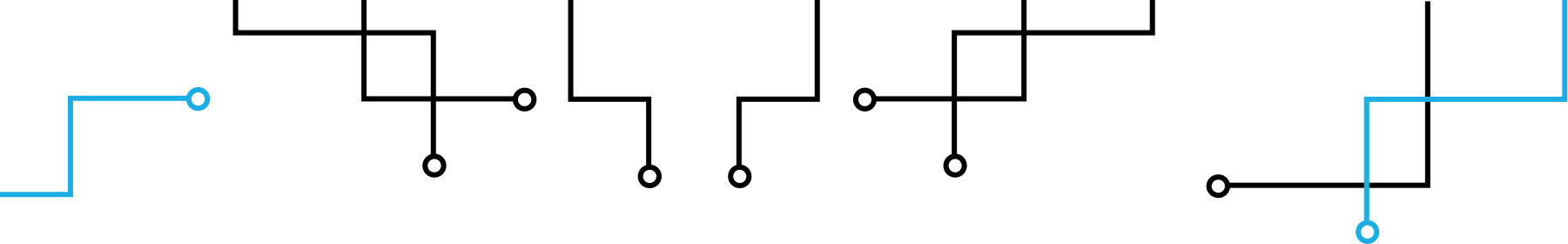


fritzing

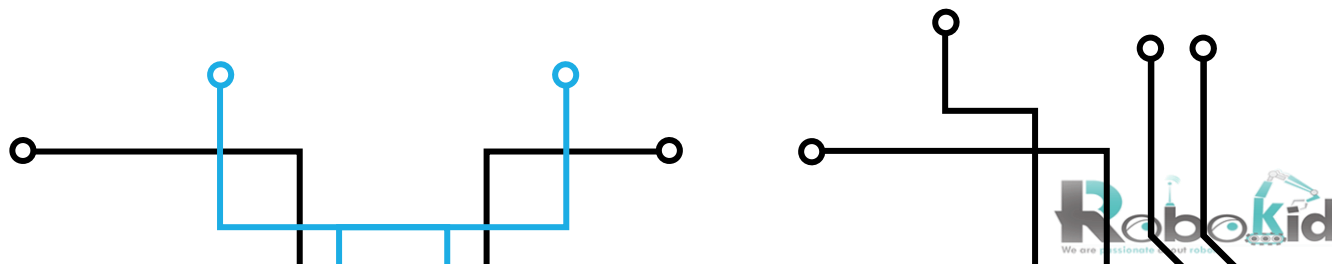


Steering

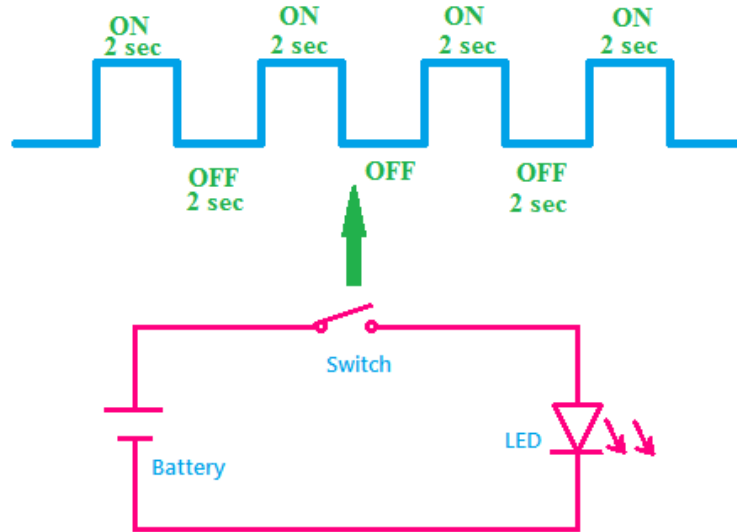




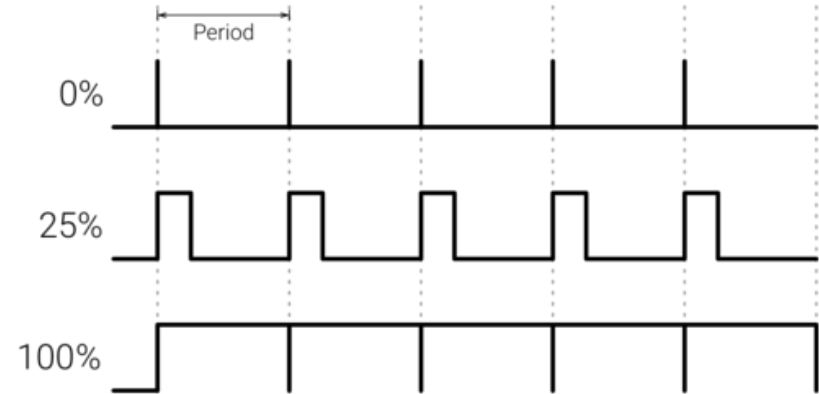
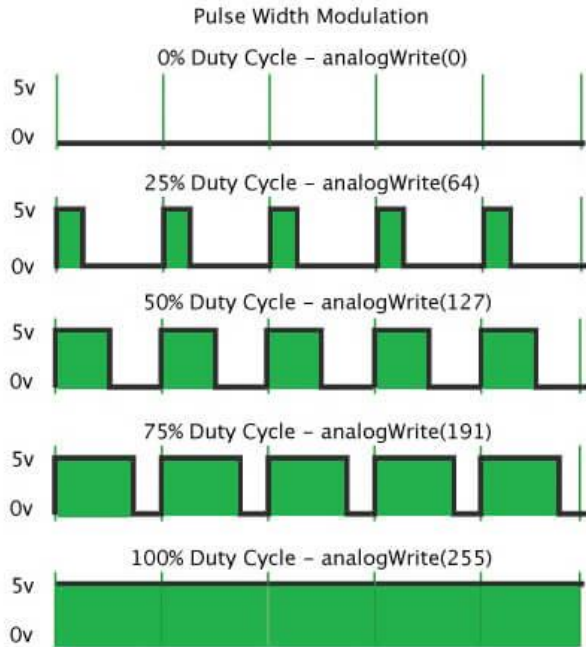
Speed



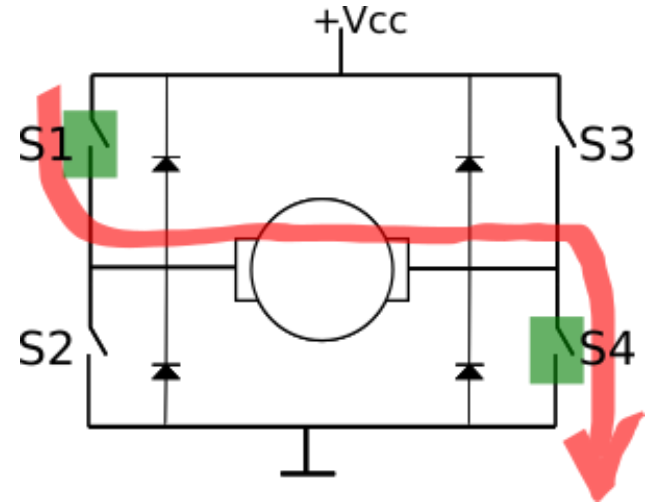
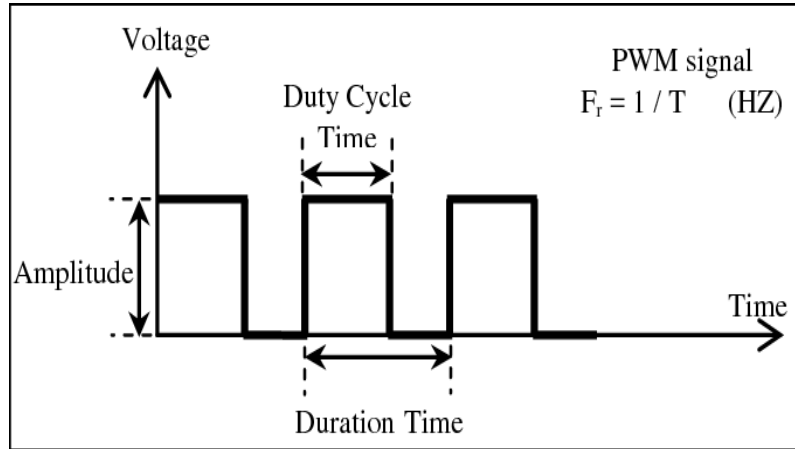
Pulse Width Modulation



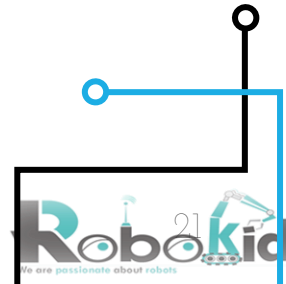
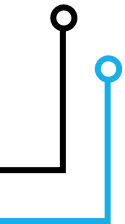
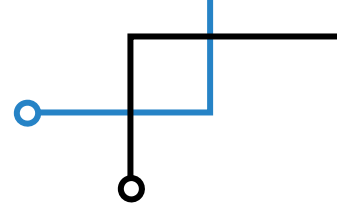
Pulse Width Modulation

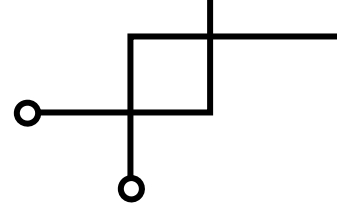


H-Bridge with PWM

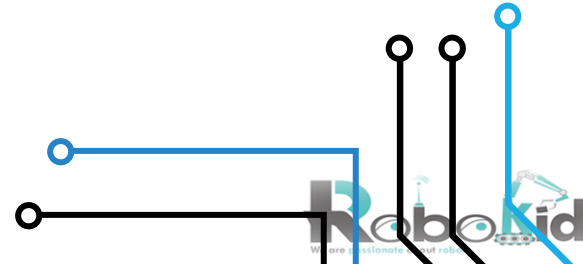


Sensors

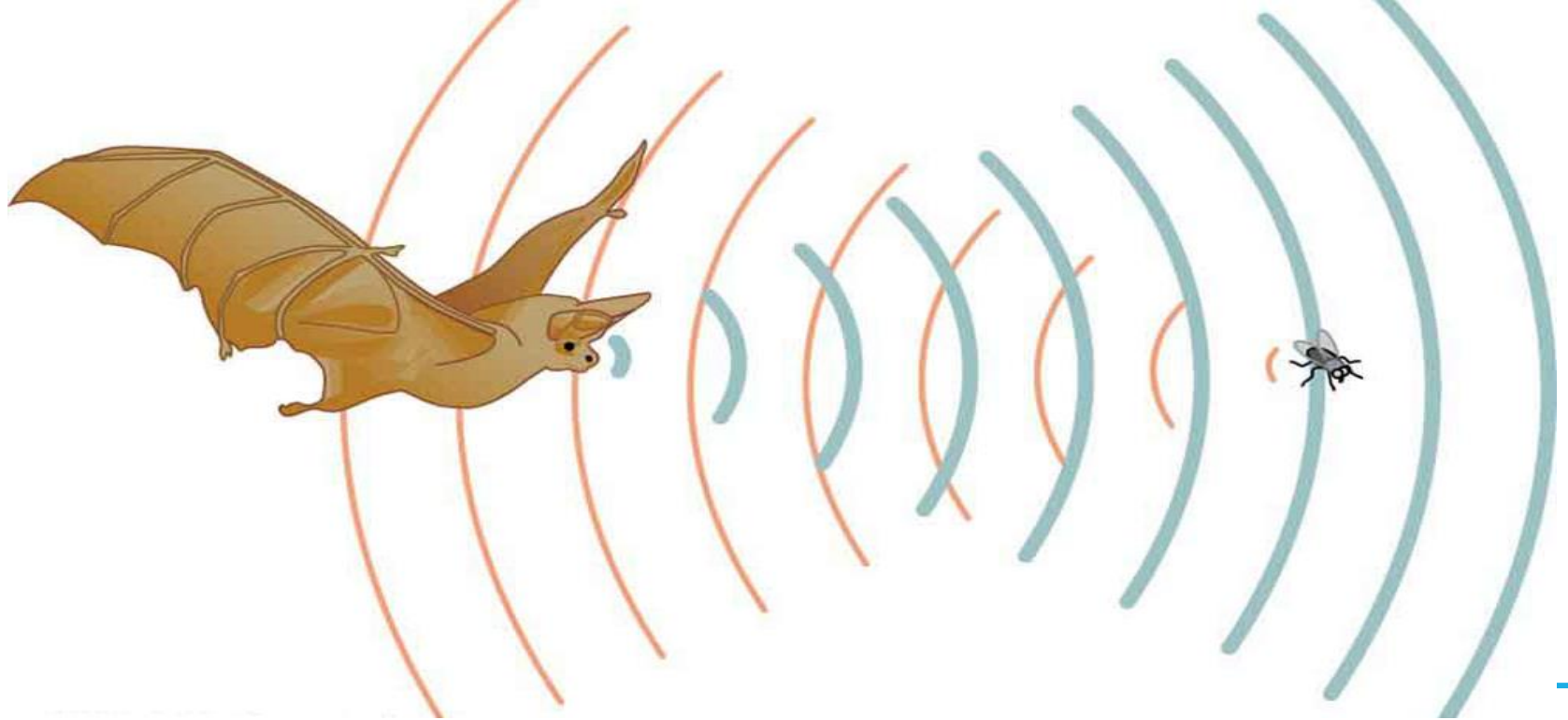




Ultrasonic



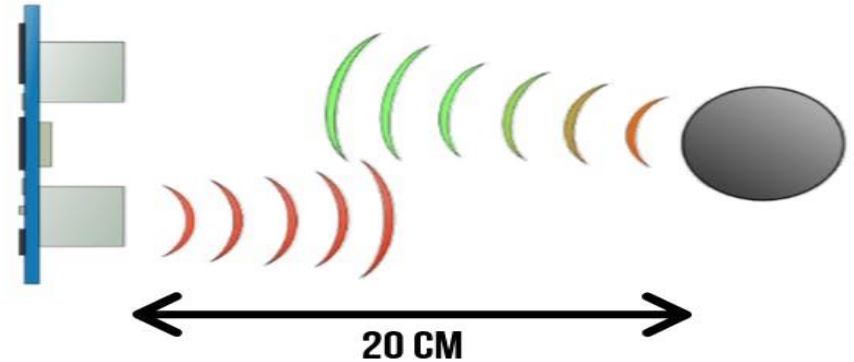
Sound Waves

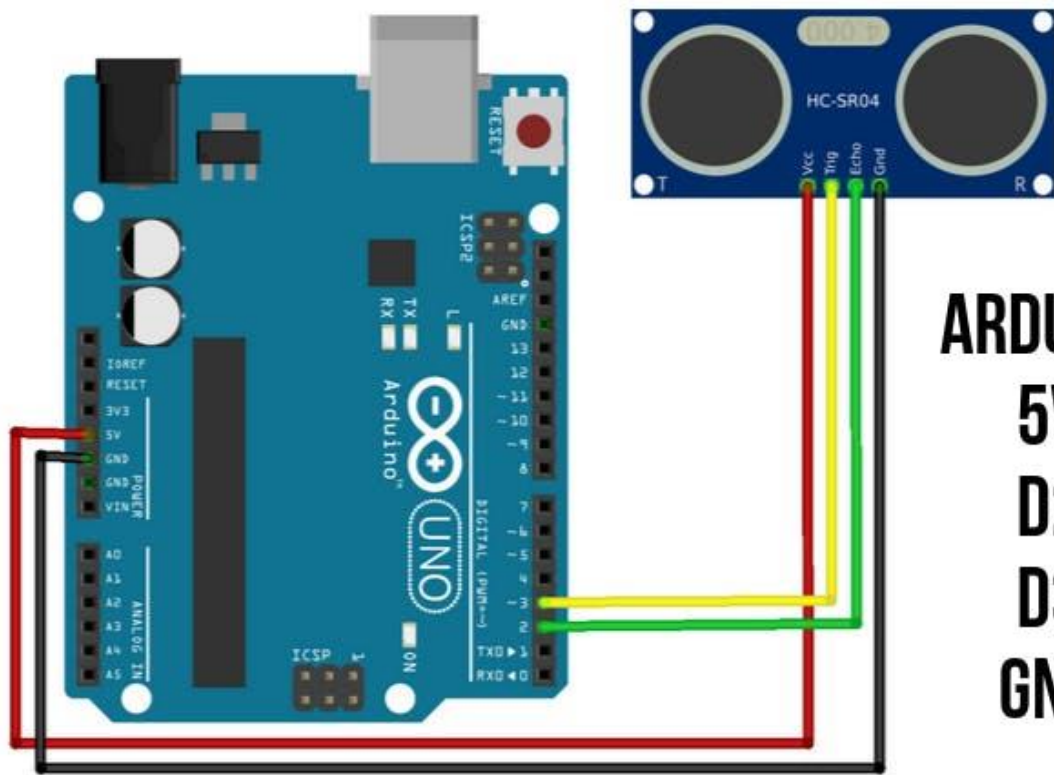


Ultrasonic

The Sound Speed

**speed of the sound
is 340 m/s or 0.034
cm/ μ s**





ARDUINO >> HC-SR04

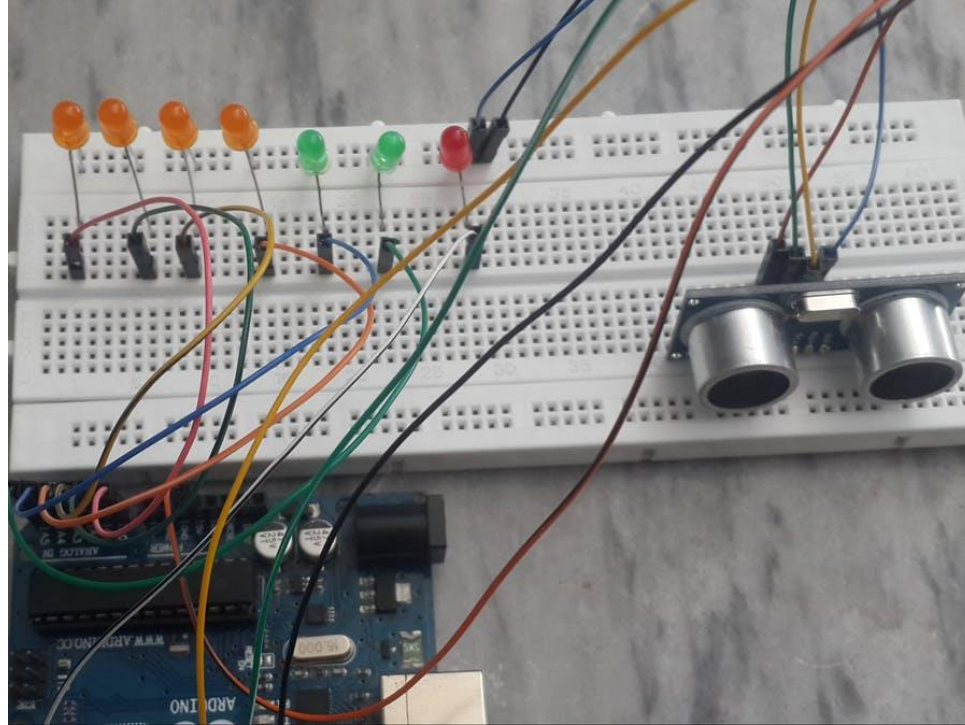
5V — **VCC**

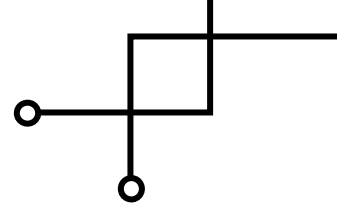
D2 — **ECHO**

D3 — **TRIG**

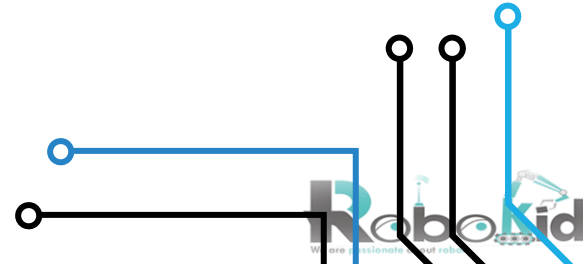
GND — **GND**

Distance Monitor





IR Sensor

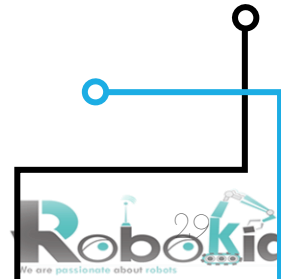
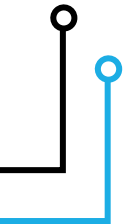
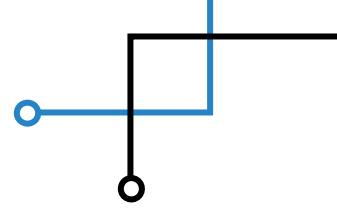
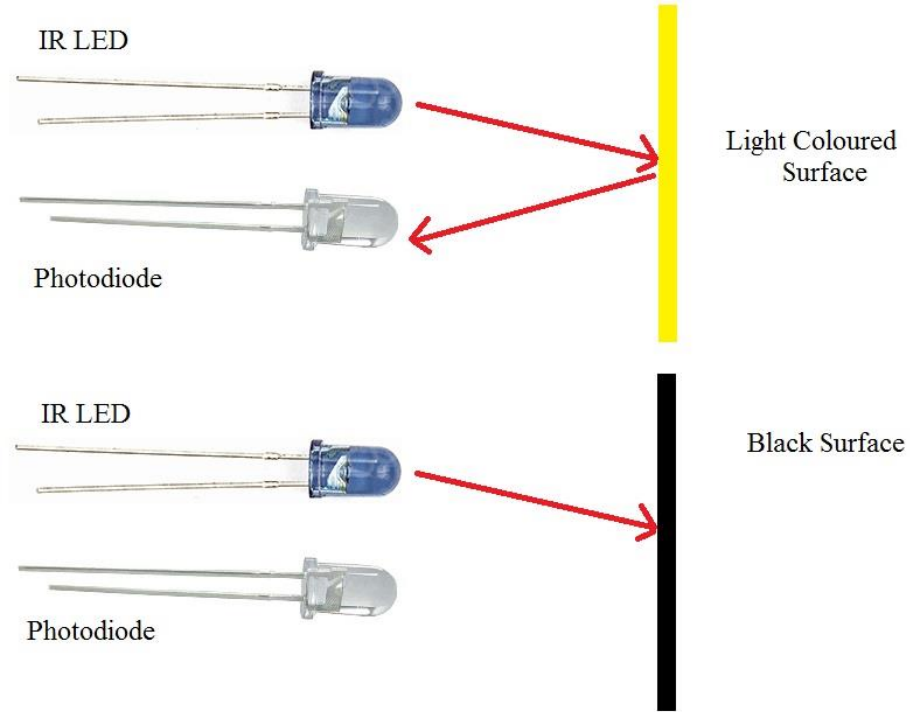


What is IR?

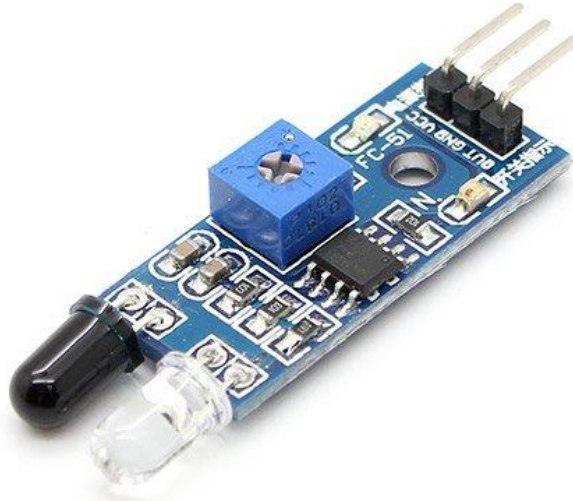
Infrared, sometimes called infrared light, is electromagnetic radiation with wavelengths longer than those of visible light. It is therefore invisible to the human eye.



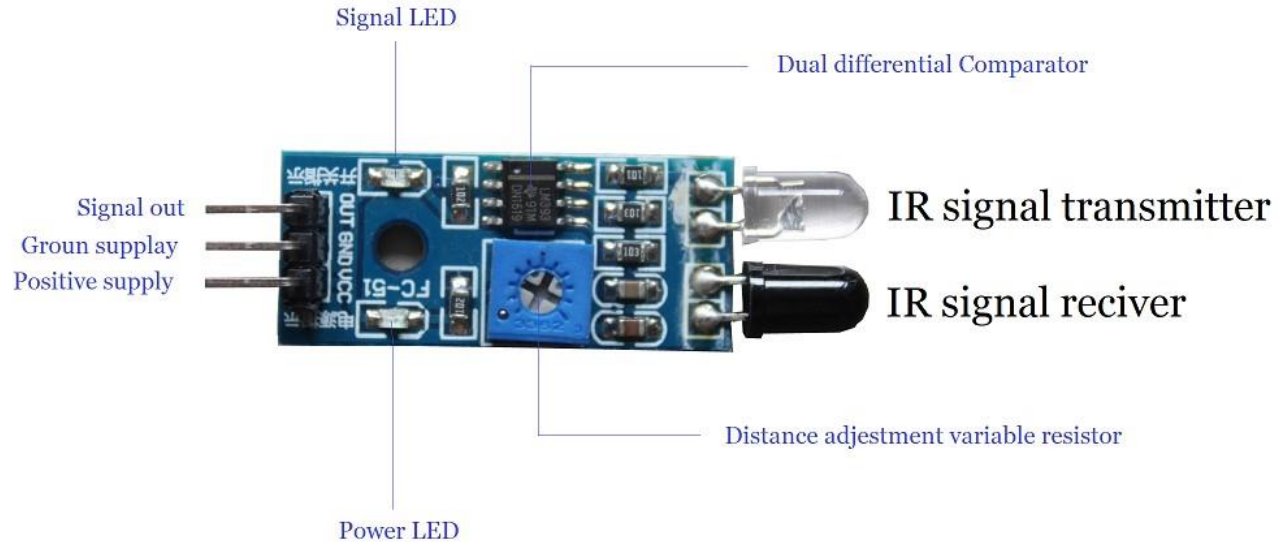
IR Sensor



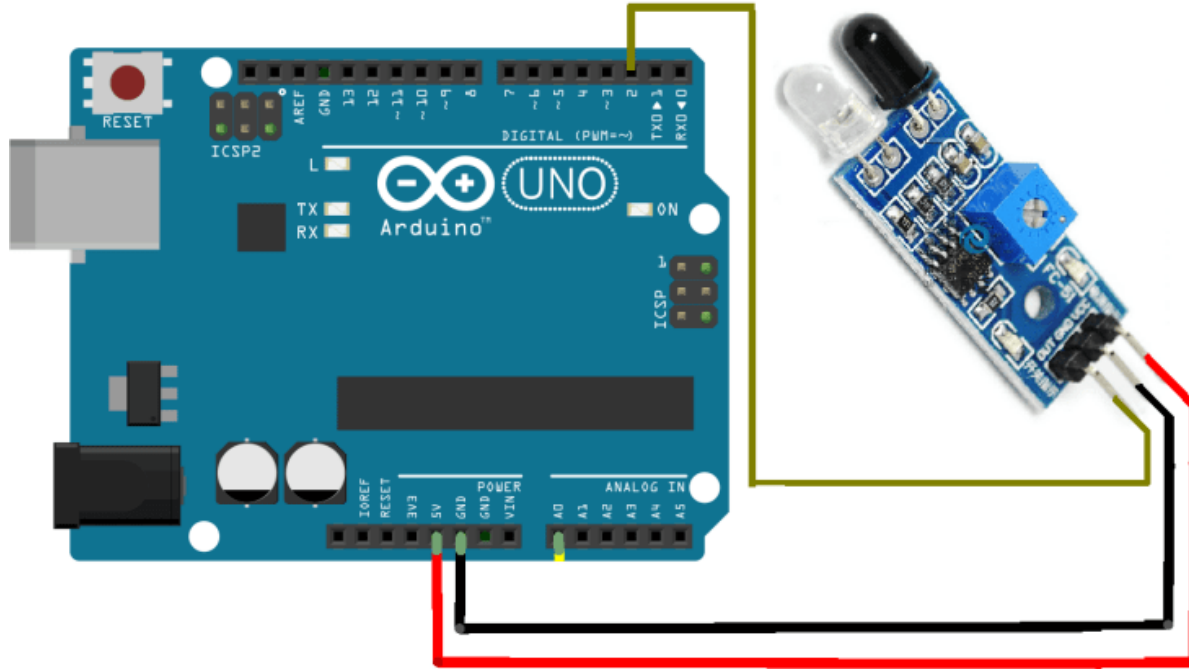
IR Sensor

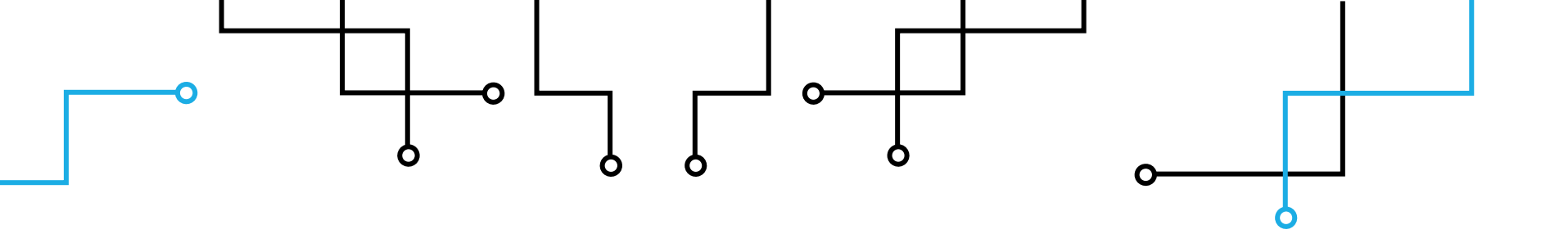


IR Sensor



IR Sensor





 **Thank you**

