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A PIR (passive infrared) sensor is a device that detects motion by measuring changes in the infrared levels emitted by surrounding objects. The sensor has a digital output that can be used to detect motion within a certain range. We'll simply get the status of the sensor, whether it detects motion or not.

Hardware

- PIR Sensor
- Arduino
- Jumper Wires

Circuit

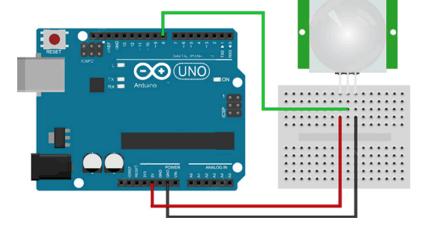
Connect the PIR sensor to the Arduino as shown in the diagram. Here is a table of the connections for your reference:

PIR Sensor	Arduino
VCC	5V
GND	GND
OUT	Digital Pin 8

HC-SR501 PIR Motion Sensor









You're free to use any digital pin for the OUT pin, from 2 to 12. Just make sure to update the pin number in the code, as shown below in the void setup() function.

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```
void setup() {
   initializePIRSensor(2); // Initialize the PIR sensor on digital pin 2
}
```