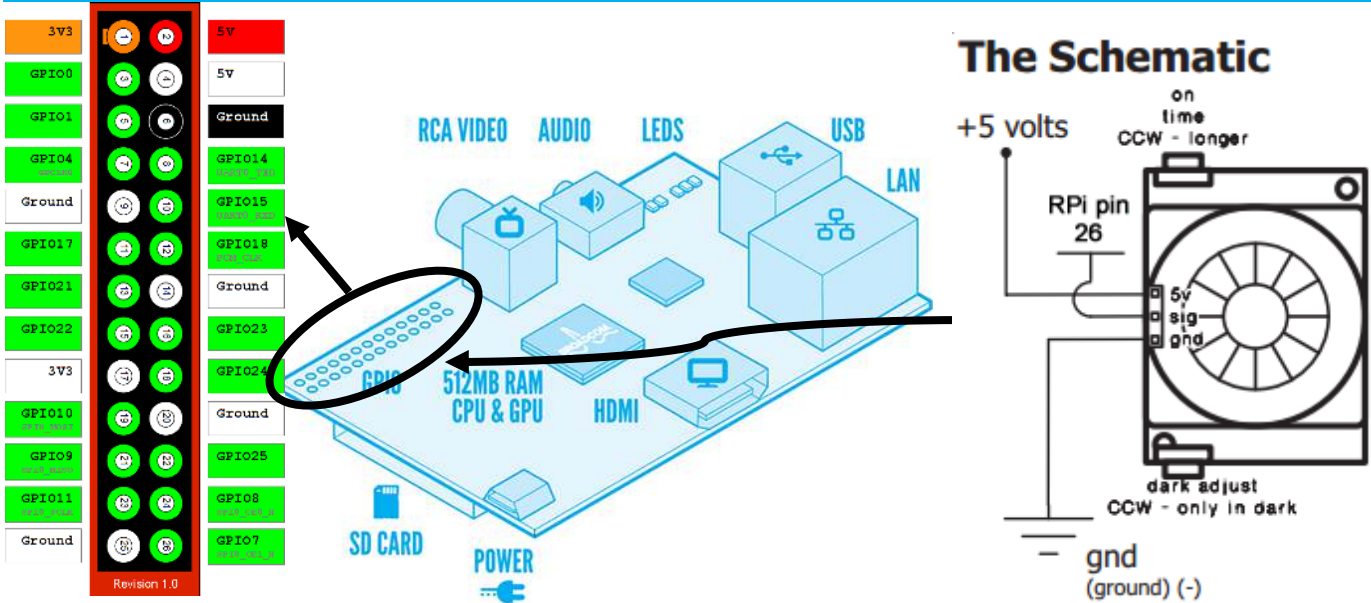




Learn ICT Raspberry Pi Cheat Sheets

PIR Movement Sensor

Wiring Diagram



Connect the PIR's ground pin to the pi's ground pin (6). Connect the PIR's +5 pin to the pi's 5v pin (2) and connect the PIR's signal output pin to pin 26 on the pi.

Signal on time -> Adjusts the amount of time the signal pin is active after motion is detected (Variable from ~2sec (full CW) - ~70 min (full CCW))
 Dark Adjust -> Controls the level of light which the sensor will operate in. Turn fully CW to operate in all conditions, and fully CCW to operate only in the dark.

Code

```
# Import required Python libraries
import RPi.GPIO as GPIO
import time

GPIO.setmode(GPIO.BCM)      # note - using BCM naming method
GPIO.setup(7, GPIO.IN)     # Pin 26 on board is GPIO 7 for the PIR data

sensing_var=1
trigger_state=0            # 0 for off & 1 for on
while sensing_var==1 :    #If PIR sensor is activated
    if GPIO.input(7):     # then the LEDs will be on
        Trigger_state=1
        time.sleep(0.75)
        Print("on")      #This is to show activity on screen as well as LED on/off
    else:                 # Else LEDs will be left off
        time.sleep(0.75)
        Trigger_state=0
        Print("off")     #This is to show activity on screen as well as LED on/off
```

Ideas

Taking pictures triggered by sensors or maybe sounding a alarm.