# TRIP WIRE(LESS)

IF YOU CAN'T BEAT THEM, ~~JOIN~~ DETECT THEM.

# DEFCON 26

**VenoMissRose**
@RoseVeno
Follow

Replying to @k8em0 @clevrcat @CaesarsPalace

Hotel sec @ the Paris banged on my door 2 days ago while I was sleeping & let themselves in while I was walking towards the door to open it. They did this again two hours later while my personal security guy was trying to have a nap. WTF

53 PM - 11 Aug 2018

**Maddie Stone**
@maddiestone
Follow

This evening, a man in a light blue collared shirt with a walkie talkie, entered my room with a key without knocking while I was getting dressed. He left when I started screaming. @CaesarsPalace is investigating whether it was a h defcon has also

12:

**Steve Ragan**
@SteveD3
Follow

Hey @defcon if you have had lockpicks confiscated at #defcon26 by hotel security please reach out to me.

7:31 PM - 11 Aug 2018

**Katie Moussouris**
@k8em0
Following

Current status: two members of hotel security banging on my door after I asked to go into my room and verify them with hotel security. I'm on speaker phone with hotel security, asking for a supervisor to come verify. I'm terrified. What the hell is this @CaesarsPalace #DEFCON

18 PM - 11 Aug 2018

**MRB0T**
@MrB0t
Following

Replying to @k8em0 @CaesarsPalace

We have video of them in our room touching stuff, knocking over gear, and taking pictures of all my pelican cases and gear with their phones.

11 PM - 11 Aug 2018

**Andrew**
@really_awolf

WARNING
Ceasars staff are performing "random" security checks of rooms. If you opt out of room cleaning and used defcon discount they will check your room and WILL confiscate soldering irons + more!

Not a drill! Spread the word!
#defcon #badgelife #dc26 #DEFCON26

7:36 PM - 10 Aug 2018

# WHAT TO EXPECT


```
def security.check(guestroom):
        security.allowed_actions.remove(open_drawer)
        security.allowed_actions.remove(open_cases)
        security.allowed_actions.remove(interfere_belongings)

guest.enable( [ staff.ID_check(), staff.uniform_check(), security.call() ] )

if status.type == 'Do Not Disturb' and status.duration > security.short_interval:
        security.check(guestroom)

if "red flag" in staff.concerns:
        staff.require( [ security.call(), guest.inform() ] )
```

# WHAT TO DO


**Beau Woods**
@beauwoods

For those trying to figure out how to avoid the hotel room (in)security checks, I've used this setup and so far no intrusions in two days.

♡ 230 4:07 PM - Aug 11, 2018

https://marcrogers.org/2018/08/13/open-letter-to-the-hacker-community/

So I offer you my resignation. By not being aware of Caesars' statement I failed you. I WILL not let this happen again. However if you no longer feel I am the man to defend you, my community, then I will leave. I suspect much of my team will leave too but….plus ça change.


https://xkcd.com/916/

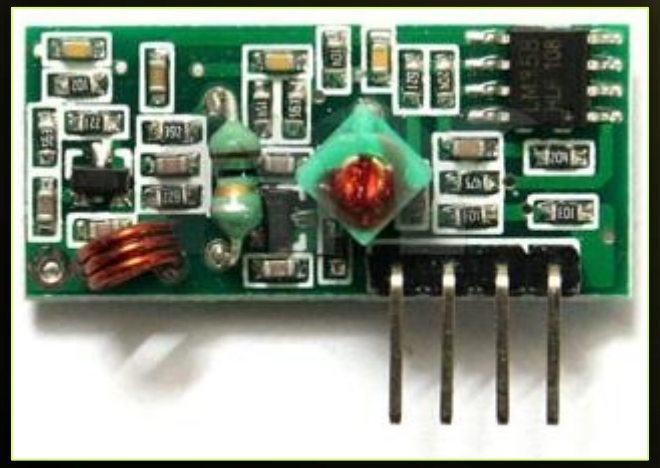
# WHAT TO DO

# SUPPLIES

Raspberry Pi

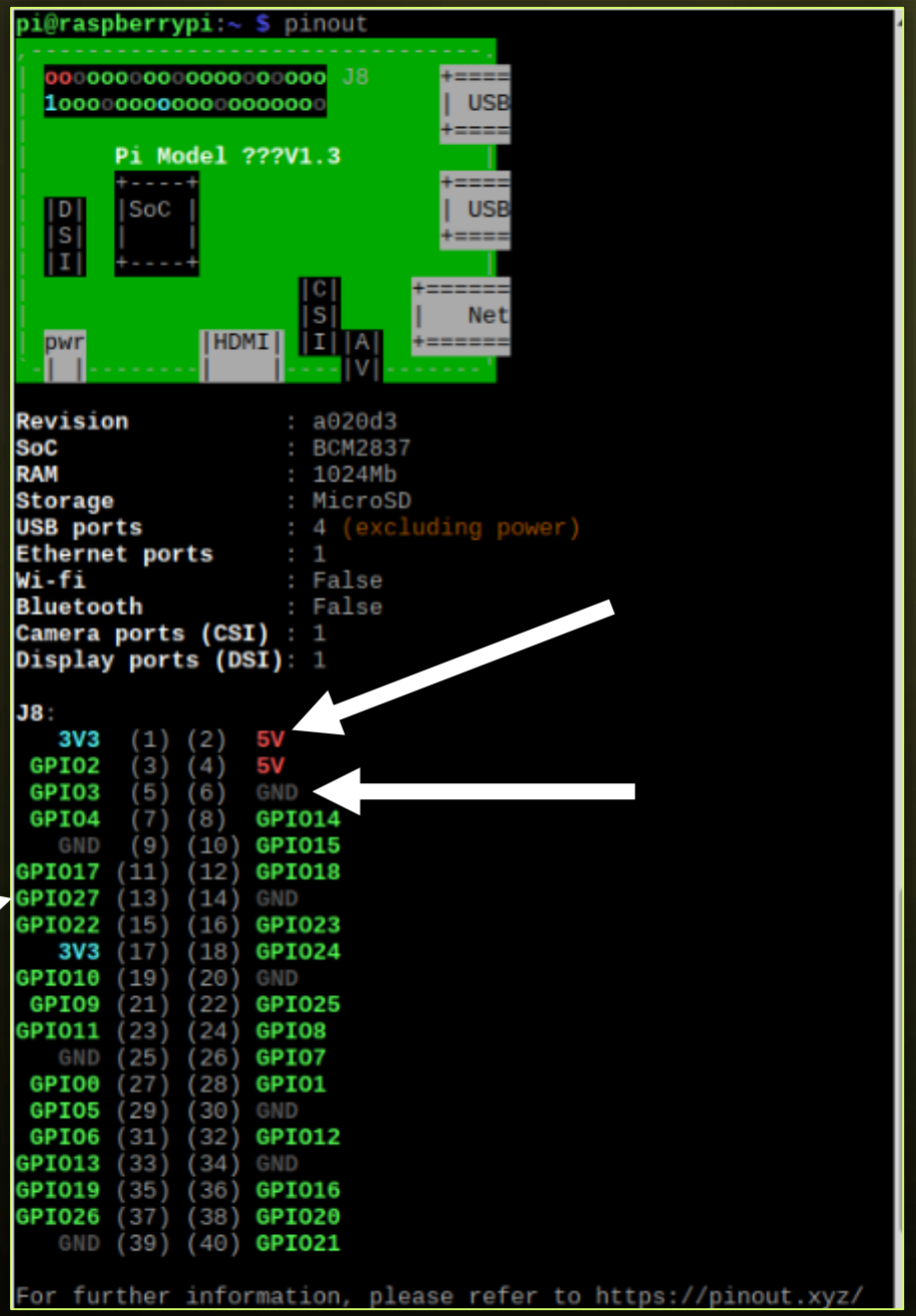
Jumper wires

433 MHz Receiver



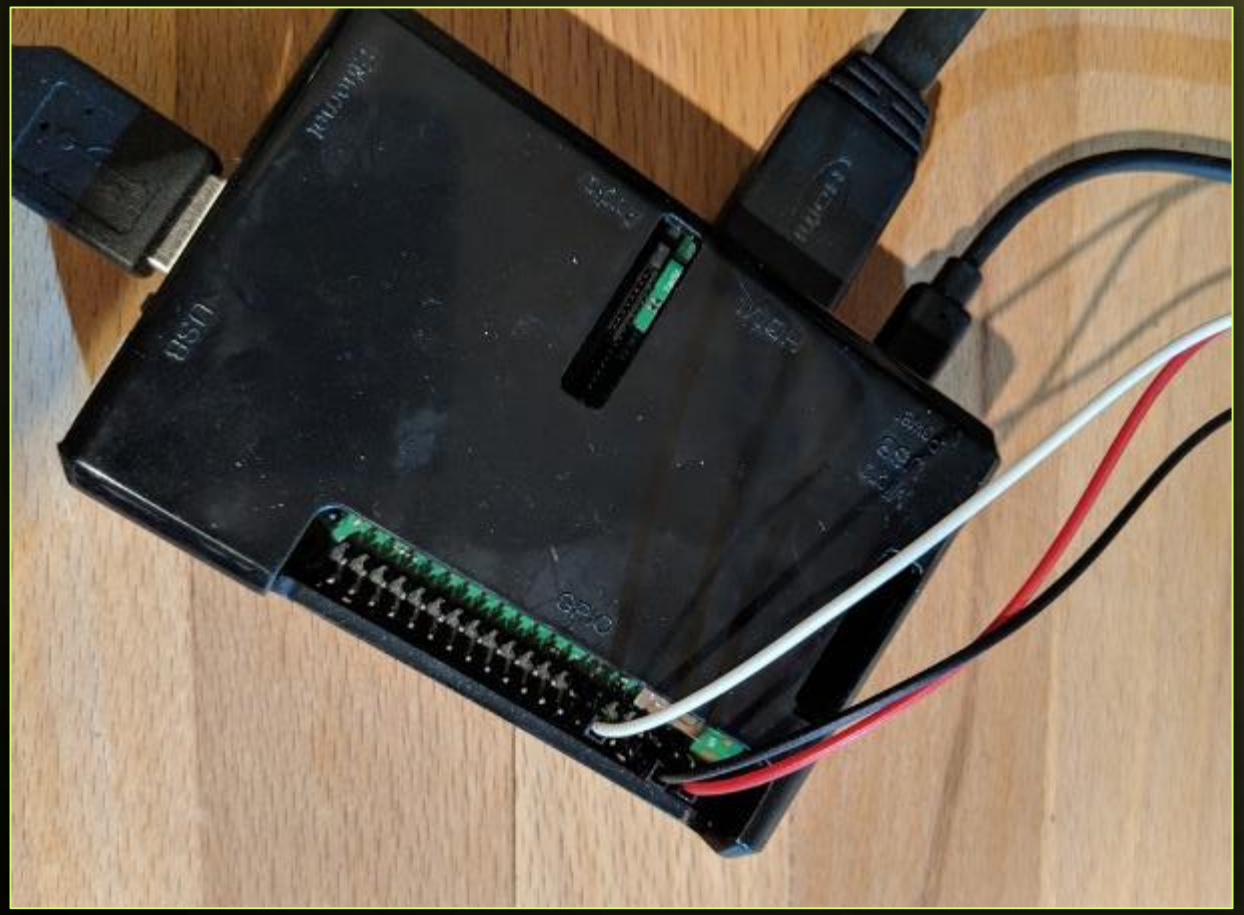
Security window/door sensors

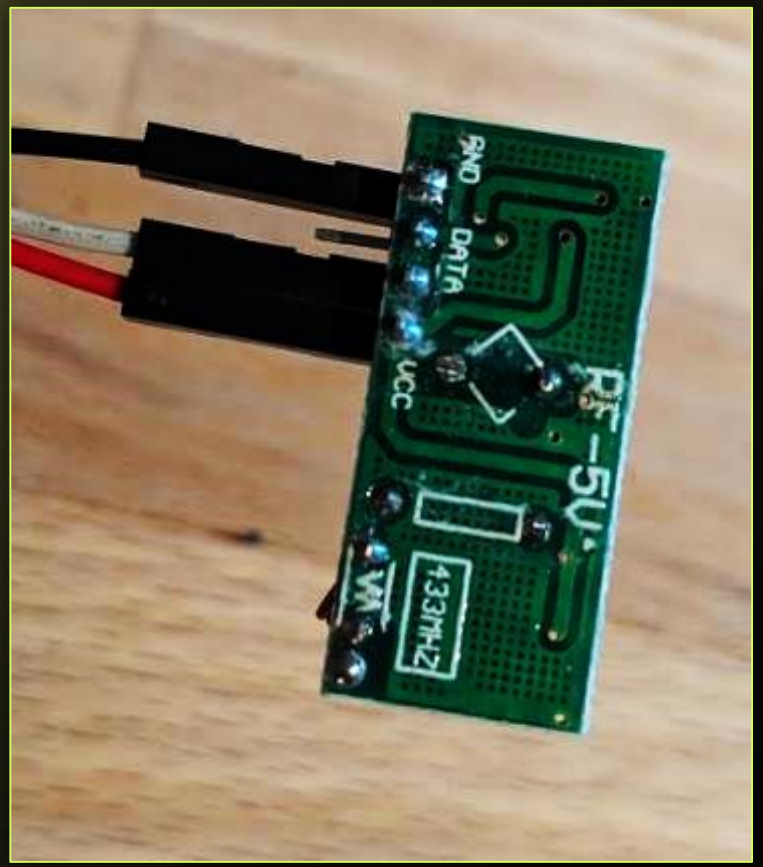
# BUILD IT




```
$ pinout
$ gpio readall
```

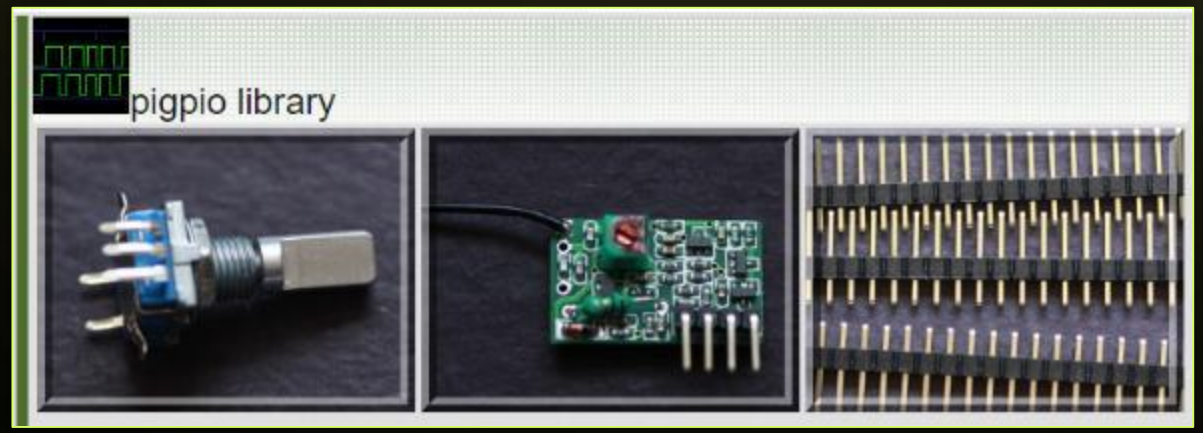
# BUILD IT





# INSTALL DEPENDENCIES

```
$ sudo apt-get install pigpio
$ sudo systemctl start pigpiod      # start daemon
$ sudo systemctl status pigpiod     # confirm daemon active
$ sudo pip3 install pgiozero pigpio

$ wget http://abyz.me.uk/rpi/pigpio/code/_433_py.zip
$ unzip _433_py.zip
```



# SCRIPT

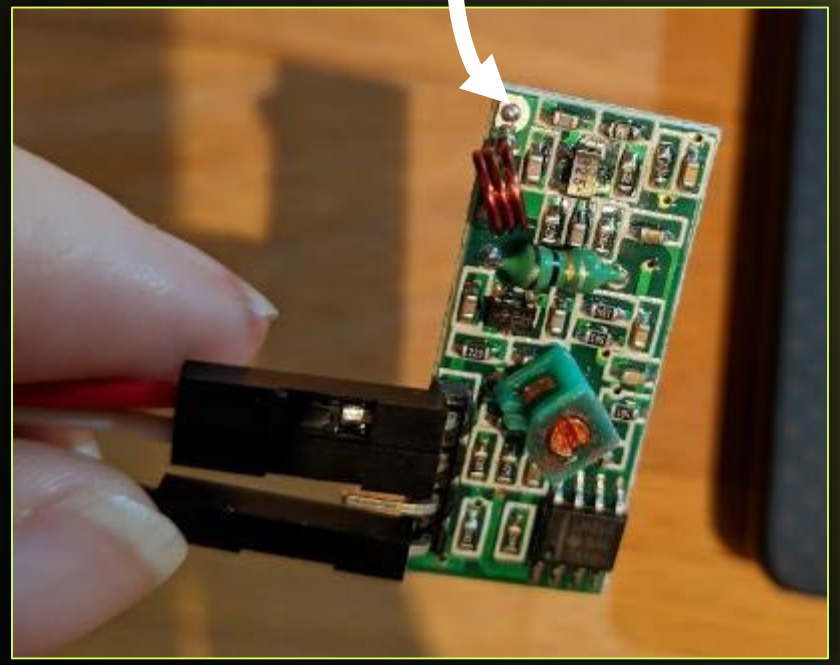
```
import time
import pigpio
import _433

# Change RX to the GPIO pin being used on the Raspberry Pi
RX=27
favorite_things = {}
```

# SCRIPT

```
def rx_callback(code, bits, gap, t0, t1):
    if code in favorite_things:
        print(favorite_things[code], 'has been disturbed!')
    else:
        print('New code detected:' , code)
        new_thing = input('Write a name, or press Enter to skip:')
        if new_thing != '\r\n':
            favorite_things[code] = new_thing

pi = pigpio.pi() # Connect to local Pi

rx=_433.rx(pi, gpio=RX, callback=rx_callback)

# Keep script running indefinitely
while True:
    pass
```

# DEMO VIDEO

# BUILD IT BETTER!



- 14 or 28 cm wire antenna
- Reduce number of disturbance notifications
- import tweepy https://www.geeksforgeeks.org/tweet-using-python/
- Set up SMTP https://realpython.com/python-send-email/
- Annoy all your friends on Slack by posting in #general every time you open your closet https://www.fullstackpython.com/blog/build-first-slack-bot-python.html

Me:

- https://github.com/4F4D414841/tripwireless/
- https://twitter.com/4F4D414841
- omaha@nullpop.com

Sources:

- Various Twitter posts from DEFCON 26
- http://marcrogers.org/2018/09/11/follow-up-to-my-open-letter/
- http://abyz.me.uk/rpi/pigpio/examples.html#Python%20code