

Raspberry Pi First-Time Hacker Day

[University of Sheffield](#), [Department of Computer Science](#) / [Access Space](#)

[James Wallbank](#), [Hamish Cunningham](#), October 2nd 2013. For more go to: [Pi.GATE.ac.uk](#) or [raspberrypi.org](#).

Getting Started

Take the Pi out of its box and plug it in following the instructions on the "Quick Start Guide".

To log in: user = pi, user = raspberry.

Singing Jelly Baby

First shut down you Pi and build the circuit (see below), then do this stuff from the "command line":

1. create a work directory
 - mkdir work
 - cd work
2. install Wiring Pi
 - wget -O wp.deb -r tinyurl.com/wiringpi
 - sudo dpkg -i wp.deb
3. get the code
 - wget -O jb.sh -r tinyurl.com/pijellybaby
 - chmod +x jb.sh
4. get the sound effects
 - wget -O police.wav -r tinyurl.com/policewav
5. run the thing
 - sudo ./jb.sh

This example uses Shell Script:

```
#!/bin/bash

sudo amixer cset numid=3 1
gpio mode 8 up

while :
do
  if [ `gpio read 8` = 0 ]
  then
    echo "time to sing!"
    aplay police.wav &
  fi

  echo "time to sleep..."
  sleep 1
done
```

Traffic Lights

See below...

Stay Safe!

You **must** change the password on the Pi next time you start up...

Keep in touch...

The Department of Computer Science: <http://shef.ac.uk/dcs>

Access Space:
<http://access-space.org/>

Pi GATE: <http://pi.gate.ac.uk/>



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