

# Magic 8 Ball

## Python Network

```
# Magic 8 Ball
from microbit import *
from random import randint
import radio

# Rows of the LED display. The numbers indicate LED brightness
ball = Image("09990:90999:99999:99999:09990")
radio.config(channel=1)
radio.on()

while True:
    # Sending part
    if accelerometer.was_gesture("shake"):
        rando = randint(0,4)
        radio.send(rando)
    else:
        display.show(ball)

    # Receiving part
    recv = radio.receive()
    # recv will contain None if no messages have been
    # received, so we should only try to show valid
    # messages.

    if recv:
        display.clear()
        sleep(300)
        if recv == "0":
            display.scroll("Outcome uncertain")
        elif recv == "1":
            display.scroll("It is certain")
        elif recv == "2":
            display.scroll("Ask again later")
        elif recv == "3":
            display.scroll("Very doubtful")
        elif recv == "4":
            display.scroll("Run!")
        sleep(500)
        display.show(ball)

    # clear the gesture history in case it was shaken while
    # the message was scrolling
    accelerometer.get_gestures()
```