

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")
```

```
my_name = "rob"
```

```
radio.config(channel=1)
```

```
radio.on()
```

```
while True:
```

```
    # Sending part
```

```
    if accelerometer.was_gesture("shake"):
```

```
        rando = randint(0,4)
```

```
        radio.send(my_name + str(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.
```

```
    # Order is important here, if recv is None, the second part won't be evaluated.
```

```
    if recv and recv.startswith(my_name):
```

```
        display.clear()
```

```
        sleep(300)
```

```
        if recv == my_name + "0":
```

```
            display.scroll("Outcome uncertain")
```

```
        elif recv == my_name + "1":
```

```
            display.scroll("It is certain")
```

```
        elif recv == my_name + "2":
```

```
            display.scroll("Ask again later")
```

```
        elif recv == my_name + "3":
```

```
            display.scroll("Very doubtful")
```

```
        elif recv == my_name + "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()
```