



```
on start
  set trace1 to create image
  set trace2 to create image
  show image trace2 at offset 0

on shake
  set heartbeat to true

on button A pressed
  set heartbeat to true

forever
  if heartbeat
  then
    set heartbeat to false
    scroll image trace1 with offset 1 and interval (ms) 200
    scroll image trace2 with offset 1 and interval (ms) 200
```

Example Program – JavaScript Blocks Editor

- Go to www.microbit.org/code and open the **JavaScript Blocks Editor**.
- Drag the file **microbit-heartrate-jsb.hex** onto the work area.
- **Button A** can also be used to test if it is working.
- Test it, download it and **experiment** with how it works!





Example Program – Python Editor

```
1 from microbit import *
2
3 T1 = Image("00009:00009:00009:00009:99999")
4 T2 = Image("00090:00090:00090:00099:99999")
5 T3 = Image("00900:00900:00900:00990:99999")
6 T4 = Image("09000:09000:09000:09900:99999")
7 T5 = Image("90000:90000:90000:99000:99999")
8 T6 = Image("00000:00000:00000:90000:99999")
9 T7 = Image("00000:00000:00000:00000:99999")
10
11 TRACE = [T1, T2, T3, T4, T5, T6, T7]
12
13 display.show(T7)
14
15 while True:
16     if accelerometer.was_gesture("shake") or button_a.was_pressed():
17         display.show(TRACE, delay=100, wait=True)
18
```

- Go to www.microbit.org/code and open the **Python Editor**.
- Drag the file **heartrate.py** onto the work area.
- **Button A** can also be used to test if it is working.
- Test it, download it and **experiment** with how it works!

