

Using variables to keep track of position

```
position1 = 35
position2 = 85
speed = 1000
while True:
    if button_a.was_pressed():
        pin1.write_analog(position1)
        sleep(speed)
        pin1.write_analog(position2)
        sleep(speed)
```

Set your variables at the top
– this makes them easier to
find and edit during testing!

Use your variables
instead of adding
numbers directly.

Picking a random speed

```
from random import randint
position1 = 35
position2 = 85
while True:
    if button_a.was_pressed():
        speed = randint(500,5000)
        pin1.write_analog(position1)
        sleep(speed)
        pin1.write_analog(position2)
        sleep(speed)
```

imports go right at the top.

Move the speed
variable into your
loop, so it changes
each time.

Pick a minimum
and maximum
number.

Explanation and instructions:

scienceoxford.github.io/musical-microbits/variables.html