### Rock - Paper - Scissors

Visit:<https://www.microbit.co.uk/app/> and then click on `Create Code` and `MicroPython`.

Use <https://create.withcode.uk> to emulate a BBC Microbit

1. Import all functions from module `microbit` and `random`.

from microbit import \*

import random

2. Create rock, paper and scissors

Of course, we want to make your own image of rock, paper and scissors to display on the micro:bit, right? That’s easy. Each LED pixel on the physical display can be set to one of ten values. If a pixel is set to 0 (zero) then it’s off. It literally has zero brightness. However, if it is set to 9 then it is at its brightest level. The values 1 to 8 represent the brightness levels between off (0) and full on (9). Armed with this information, it’s possible to create an image of rock like this:

rock = Image("00000:"

"09990:"

"09990:"

"09990:"

"00000")

Create your own images of paper and scissors and call it paper and scissors.

3. Create a list of images called `throw` which has the images rock, paper and scissors

throw = [rock, paper, scissors]

4. Create a forever loop (while loop and set to True). When the accelerometer is shaken, select a random choice from the list created above and display.

while True:

if accelerometer.was\_gesture('shake'):

display.clear()

display.show(random.choice(throw))

sleep(2000)

5. Download and copy code to MicroBit. **Challenge:** Can you try to keep track of the scores? Hint: Use `if button\_a.is\_pressed():` to increase the scores. Can you decrease your score if you lose?