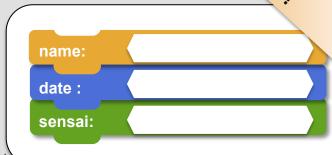
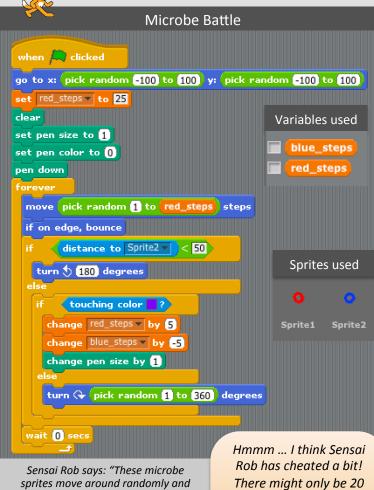
## INTERMEDIATE SCRATCH - THE 20-LINE CHALLENGE!

SHI III

We came across a cool "line drawing" project tweeted by a ninja from another dojo which we've added some variables to and which then gave us a idea! It's a great bit of Scratch coding and uses less than 20 blocks of code for some awesome results!!!! We tried to see what we could do with 20 blocks or less and came up with the "microbe battle". Your challenge? Simple ... what can you do with 20 blocks or less??????



## Line Drawing Variables used degrees set x to 0 increase set y to 0 step set increase ▼ to 0 ask Type in an angle and wait steps set degrees ▼ to answer ask How many steps (1-10)? and wait set steps to answer clear pen down set pen color to repeat until (touching edge 🔻 ?) change pen color by pick random 1 to 100 move (increase) steps turn 🗣 degrees degrees change increase by steps pen up



Sensai Rob says: "These microbe sprites move around randomly and "feed" off each others trails until they get to max size. If they eat the other they speed up, if they get eaten they slow down, if they "see" each other they run away! You can leave this running for hours!!!"



Rob has cheated a bit!
There might only be 20
blocks of code here but
he's used them for both
the Red and the Blue
Sprite. Isn't that 40
blocks of code or is it ok
to use the same 20 on
more than 1 sprite????
What do you think?
Shall we let him off?





