Algorithmic Doodle Art 8: A Christmas Tree of triangles

Next time you find yourself doodling, draw an algorithmic doodle and explore both mathematical shapes and algorithms for drawing nature. Here is an example Doodle Algorithm.

1. Start by drawing a small squat Christmas tree as a triangle (as below).

2. DoodleDraw on that triangle as follows.

To DoodleDraw in a given triangle:

1. Pick one of the three corners of the triangle.

2. EITHER   draw a small round circle on the tip,

   OR   draw a smaller green triangle pointing out from the tip.

3. Either colour the new triangle green or leave it as it is at random.

4. IF   there are no unused tips of triangles THEN Stop

   ELSE   Choose a new existing triangle and **DoodleDraw** from that triangle.