Algorithmic Doodle Art 10: Recursive Centaur

Recursion is a natural computational process that occurs in nature. You can use it to create fabulous beasts too. Next time you find yourself doodling, draw an algorithmic doodle and explore algorithms for drawing fantasy creatures. Here is an example Doodle Algorithm.

1. Start by drawing the body and legs of a horse (see below)
2. DoodleDraw from that body as follows.

To DoodleDraw from a given body:

1. EITHER
   a. In the position of the head, at an angle of 45 degrees to the original, draw the front half of a new horse’s body and front legs, two-thirds the size of the previous one.
   b. DoodleDraw from that new body

OR

2. c. STOP

Different algorithms give different looking trees, grasses, ferns, snowflakes, crystals, so now try inventing your own doodle art algorithms and see how realistic the drawings you end up with are.