

My recursion art project was actually created by accident. I was trying to create a spiral but instead I recursively created a circle within a circle within a circle... After realizing that it looked cool I decided to take it a step further and add four circles. I modified their positions so that they would all converge in the same spot—to look like a flower. I then added the stem and the recursive sun for background details. I then tried to make it even crazier, so I added multiple circles of different sizes but had them all converge at the same point as the other ones. This created a radiating effect coming from the outside of the central four circles. Finally, I added the top and bottom circle lines from the central point. So basically, there is 1 central point from which a bunch of circles are recursively drawn. In a sense, this project shows that although people are diverse and come from different backgrounds, we can still come together.

Essentially the algorithm contains different sections that draw circles inside a method that is recursively called. Basically, one circle on the left is drawn, then on the right, then under on the left, and then under on the right. And based on the count, it will draw that many circles inside those four existing ones until they reach the central point. In essence it's: draw, draw, draw, draw -size, shift position, repeat. The hardest part of the project is creating symmetry. This is because I had to align the extra spirals by figuring out which x or y coordinates to negate.