

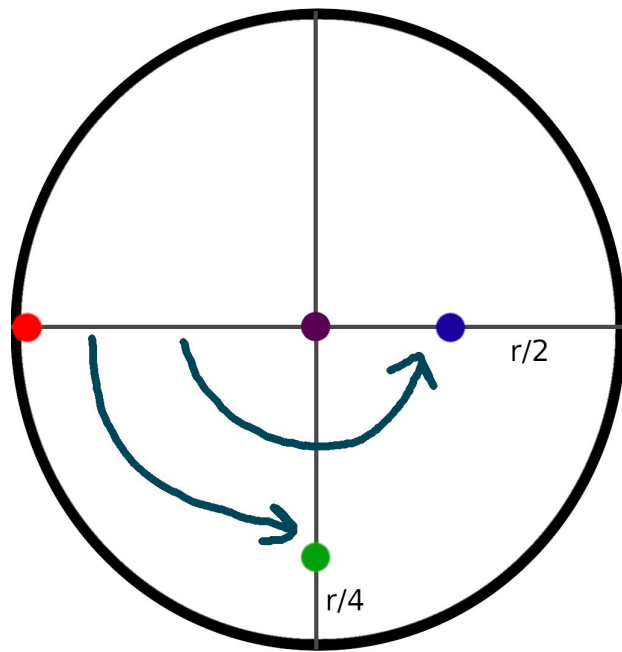
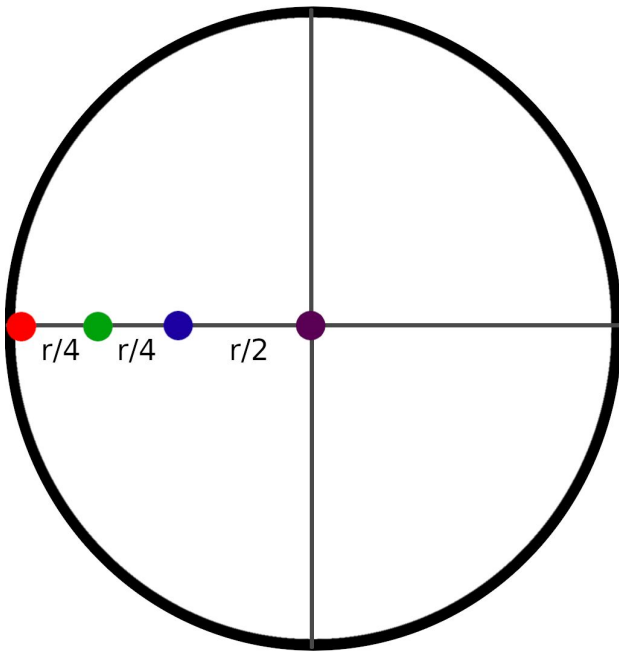
# WANTED!



Our police department was warned about a very dangerous hacker planning some 1337, and we need help from any civilian with the ability to identify this individual. Our department has concluded some key points to help you on your investigation.

- 1) Effect starts by determining the largest circle originated in the image's center.
- 2) Then, each pixel inside this circle is rotated linearly depending on how far away from the sides original pixel is.
- 3) While pixels just on the edge stay the same, pixels  $r/4$  away are rotated 90 degrees, halfway are rotated 180 degrees, until pixels in the center are rotated 360 degrees for a single twirl.
- 4) However, our analysis shows filter was run twice, so you'll have to double the values ( $r/4 \rightarrow 180$  degrees,  $r/2 \rightarrow 360$  degrees, center 720)
- 5) Our top engineers used the latest ms-paint to create the visuals below to help you.

# Demonstrating Single Twirl



Single twirl

Double twirl

