

Midpoint Line Graphing Process Explanation

Halfer 1, 7, 8, 9, 10:

The midpoint lines generating function was tested with a dark background and thin white lines. In Halfer 1, 5 starting points (the vertices of the shape in Halfer 9) were used to repetitively draw midpoint lines based on the midpoint lines drawn given the original points.

Halfer 2:

Random selection of colours from a predetermined starting colour scheme for the background and the shape's lines was introduced.

Halfer 3-4:

Background colour and individual lines' colours are randomly selected from a predetermined starting colour scheme.

Halfer 5, 14:

Iterations increase so that the image is based on more midpoint lines drawn for previous shape iterations.

Halfer 6:

This image captures an intermediary step the drawing function took while drawing the final image. Line and background colour selection remains the same.

Halfer 11:

Increased image resolution for output. Colour selection remains the same, but lines may not be of the same colour as the background, removing the "invisible lines" present in Halfer 3 and Halfer 4. Lines' width is decreased.

Halfer 12-13:

Initial selection of points on canvas is random so the overall shape changes. Colour selection remains the same. Lines' width is decreased.

Halfer 6:

This image captures an intermediary step the drawing function took while drawing the final image. Line and background colour selection remains the same.