Abstract

The Mandelbrot Set is the most complex object in mathematics; its admirers like to say. An eternity would not be enough time to see it all, its disks studded with prickly thorns, its spirals and filaments curling outward and around, bearing bulbous molecules that hang, infinitely variegated, like grapes on God's personal vine [1]. In this article we show how it is drawn in spread sheet. The methodology employed is same as the one used for Newton's fractal. Since it is the daddy of all fractals, a separate article is devoted to it. The same principle is extended to draw fractals based on transcendental functions.

**Index Terms**

Computer Science

Algorithms

**Keywords**

Computational Thinking, Mandelbrot Set, Julia Set, Fractal geometry