

Mandelbrot Set

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1 Definition

The Mandelbrot Set is a set of complex numbers c for which

$$a_n = a_{n-1}^2 + c, \quad a_0 = 0$$

does not diverge as $n \rightarrow \infty$.

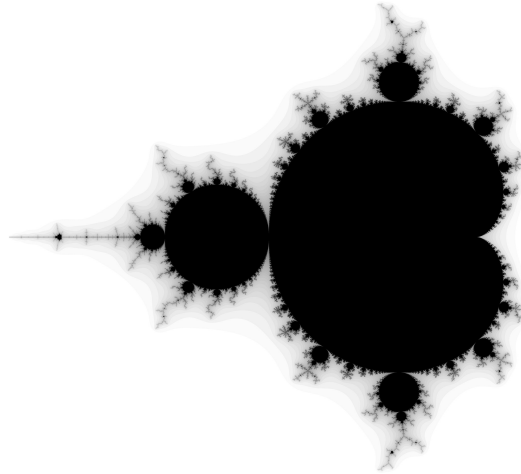


Figure 1: The Mandelbrot Set

In this picture the darkness of the color for each point represents how fast the series diverges.