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Newton fractal - Wikipedia

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The Traditional Newton's Fractal; Another Way To Color Newton's Fractal; Modified Newton's Fractals; References; Introduction. While the Mandelbrot set may be the most famous fractal image, the so called "Newton's Fractal" is not too far behind in recognizably. The fractal is a byproduct of an algorithm known as "Newton's method".

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Mitch Richling: Newton Fractal

This is a fractal. A fractal is a pattern that contains smaller versions of itself. But it's not just any fractal. It's a fractal I created from something called Newton's method. Newton's Method. Let's say we have a mathematical function called $f(x)$. I chose one specifically for this demonstration. Here is a graph:

Fractals from Newton's Method - A

Trivial Knot

Now that we have a rudimentary understanding of Newton's Method we would like to venture into the world of fractals. In essence a fractal is a mathematical set that typically displays self-similar patterns, which means it is "the same from near as from far." Or to paraphrase Benoit Mandelbrot:

Newtons Method and Fractals - Austin G.

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Walters

Fatou sets in Julia (Fractals, Newton basins, Mandelbrot) chaos nonlinear recursion mandelbrot complex-numbers fractal-images fractals julia-sets complex-analysis newton-fractals Updated May 4, 2019

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