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explore the infinite complexity of the mandelbrot set with this interactive fractal viewer zoom in and generate beautiful patterns and images explore the famous mandelbrot set fractal with a fast and natural real time scroll zoom interface street map you can view additional useful information such as the graph axes and the corresponding julia set for any the mandelbrot set 'mændəlbrot brɒt 1 2 is a two dimensional set with a relatively simple definition that exhibits great complexity especially as it is magnified it is popular for its aesthetic appeal and fractal structures beautiful fast and accurate exploration of the mandelbrot set in your browser click to zoom hover to see orbits this is a famous fractal in mathematics named after benoit b mandelbrot it is based on a complex number equation $z_{n+1} = z_n^2 + c$ which is repeated until it diverges to infinity where a color is chosen based on how fast it diverges does not diverge and forms the actual mandelbrot set shown as black mandelbrot set mathematician mandelbrot defined this set in order to study the iteration behavior of the family of quadratic complex functions $z \mapsto z^2 + c$ here c is a complex constant the so called family parameter we explain the initial part of this program in the exhibit julia set 2019 12 16 mandelbrot set 2024 5 16 mandelbrot set download wolfram notebook the term mandelbrot set is used to general class of fractal sets and to a particular instance of such a set in general a mandelbrot set marks the set of points in the complex plane such that the corresponding julia set is connected and not computable 2024 1 31 1980

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