

# Hd 2d Mandelbrot Fractal Set Zoom Animation -trip From E214

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Here is a nice deep zoom out of the Mandelbrot set. The words "nice" and "deep" fall a bit short actually. "Mathematical Porn" is a better description. After watching this video things in my room started to bend and breathe!! I hope you enjoy the trip!! The magnification of the fractal at the start is  $e.214$ . Want some perspective? a magnification of  $e.12$  would increase the size of a particle to the same as the earth's orbit!  $e.21$  would make a particle look the same size as the milky way and  $e.42$  would be equal to the visible universe. This zoom out smashes all of them all away. If you were "actually" traveling out of the fractal your speed would be faster than the speed of light. You might like to know that this animation took me about two days to set up. My computer then rendered day and night non-stop for just over a month to produce the animation. The resulting twenty-eight anti-aliased 1280x720 AVI files (each just under 2GB) were each watermarked at full frames (uncompressed) Then I stitched them all together uncompressed. I also added the audio track at the same time. This was all done in Virtual dub. (except watermarking) The final watermarked Avi with audio is a whopping 46GB - Then I compressed it just once With the compression settings adjusted to achieve the highest quality, the resulting file size is about 1.5GB and looks absolutely sweet! What is a fractal anyway? Well as you asked I will give you a brief run down. This particular fractal is called the Mandelbrot fractal set. The Mandelbrot fractal set is created using a mathematical formula that involves complex numbers. These numbers are plotted onto a graph to produce the image. It is named after Benot Mandelbrot. A famous mathematician who discovered fractal geometry. The boundary of this fractal is infinite. Meaning that when you magnify it, the edge of the boundary becomes infinity complex. Buried within the Mandelbrot set are an infinite amount of smaller sets that are self similar to the original. This animation is a journey from an infinitesimally small set buried so deep within the original - that if you could see all of the original it would be far bigger than the visible universe! the music is a 3 deck mix chemical brothers - chemical beats lady gaga - poker face GusGus - David (Luke Chable Mix) tomcraft - broadsword calling danny boy feat jimmy boy mixed by teamfresh all rights reserved teamfresh

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