

Don't be so discrete! Continuous methods in mathematical art

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Yes, digital art inevitably breaks everything up into discrete units. That said, there are beloved tools of classical analysis that belong in the toolbox of anyone hoping to illustrate mathematics, whether through art or visualization. My book, *Creating Symmetry*, shows how useful Fourier theory can be in making patterns. I'll overview the method and explain how some similar mathematical methods yield a large design space of objects with polyhedral symmetry woven from bands. For example, view an icosahedral shape being woven from six bands at <http://giphy.com/gifs/dodecahedron-woven-mathematical-art-xThuWfr6r4hGdnDAMU>