# Class Title: Making Waves – Fun with Fourier

# Class Description

Ever wonder how Shazam identifies songs, how image and audio files are built, or how audio equalizers can boost the bass or other frequencies in music? Back in 1807, Mr. Jean-Baptiste Joseph Fourier figured out that any signal can be filtered into a bunch of circular paths. Today, we see these “Fourier Series” used everywhere from audio and image processing to describing how heat flows through an object. They can even convert your signature into a formula! With animations and hands-on demos, this class will show you how Fourier Series work and how it’s used in the real world without any crazy math getting in the way.