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Grand Junction, CO 81501. *What Does That Picture Sound Like? Calculus and Photosounder.*

Photosounder is a software application that converts a digital image into a sound file. It accomplishes this by associating the color intensity levels in the image with a frequency distribution, or frequency spectrum, which can then be played back as a corresponding sound wave. We will see how calculus plays a role in this process while hearing how a variety of images sound, including the Mona Lisa, string art, and computer generated images. (Received September 16, 2010)