

## **Hexagonal lattices for image display**

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### **Abstract**

A sampling lattice is used to obtain a digital image from a continuous image/scene. The choice of the lattice has a significant bearing on the quality of the digital image. Though square lattices have been adopted as a standard, other lattices (triangular, hexagonal) can also be used. In this paper, we examine the utility of the hexagonal lattice for image display. We show that both from visual perception point of view and from theoretical point of view hexagonal lattices are attractive and superior to square lattices for good quality image display. The practical aspects of building such displays are considered and some solutions and potential applications are also presented.