

## **Collaborative Visualization Environments**

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### **Abstract**

The PlatoCAVE and the MiniCAVE are immersive stereoscopic projection-based virtual reality environments oriented toward group interactions. As such they are particularly suited to collaborative efforts in data analysis and visual data mining. In this paper we discuss design considerations for the construction of these environments including 1 wall versus 4 wall implementations, augmented reality, stereoscopic placement, head tracking, the use of LCD devices, polarized light stereo, voice control, and image synchronization.