

This imaging display changes according to the number of people watching it, their behaviors, and whether they've watched the device before. It is reflexive: the displayed image is a function of the people watching the display. It encourages crowds of people to collectively manipulate the display with their bodies or faces. Yet it is also personal, in that it can recognize the appearance of a user for short-to-medium periods of time and tailor the display accordingly. As in Magic Morphin' Mirror, a SIGGRAPH 97 Electric Garden project by the same group, this display captures video along the same optical axis as video is displayed, so images of observers can be directly manipulated, composited, or distorted on the display. In contrast to the previous work, which only considered a single user at a time and had no persistence after they left, this display is designed to visually track a crowd of people and provide a shared graphical experience. It also tracks users over time through multiple sessions. We show that continuity/consistency of experience across multiple simultaneous users, or a single user at a time, is possible.

Trevor Darrell

Interval Research Corporation
1801 Page Mill Road, Building C
Palo Alto, California 94304 USA
trevor@interval.com

