



DEMO HOUR

WHAT ARE YOU READING?

HOW WAS IT MADE?

DAY IN THE LAB



ENTER

DEMO
HOUR

1. Pepper's Cone

Pepper's Cone is a simple 3D display that can be built from a tablet computer and a plastic sheet folded into a cone. By rotating the tablet about the y-axis, a user can view 3D objects naturally over 360 degrees without special glasses. The transparent conical surface reflects the image displayed on the 2D screen. The displayed image is pre-distorted, so its reflection appears to be perspective-correct and suspended inside the reflector. Using the tablet's integrated gyroscope, the viewer adjusts the rendered image based on their relative orientation.

■ Luo, X., Lawrence, J., and Seitz, S.M.

Pepper's Cone: An inexpensive do-it-yourself 3D display.

Proc. of UIST '17, ACM, New York, 2017, 623–633;

<https://doi.org/10.1145/3126594.3126602>

■ <http://roxanneluo.github.io/PeppersCone.html>

■ <https://youtu.be/W2P-suog684>

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A plastic cone placed on top of a tablet computer reflects a 3D image of the 2D image on the display.

