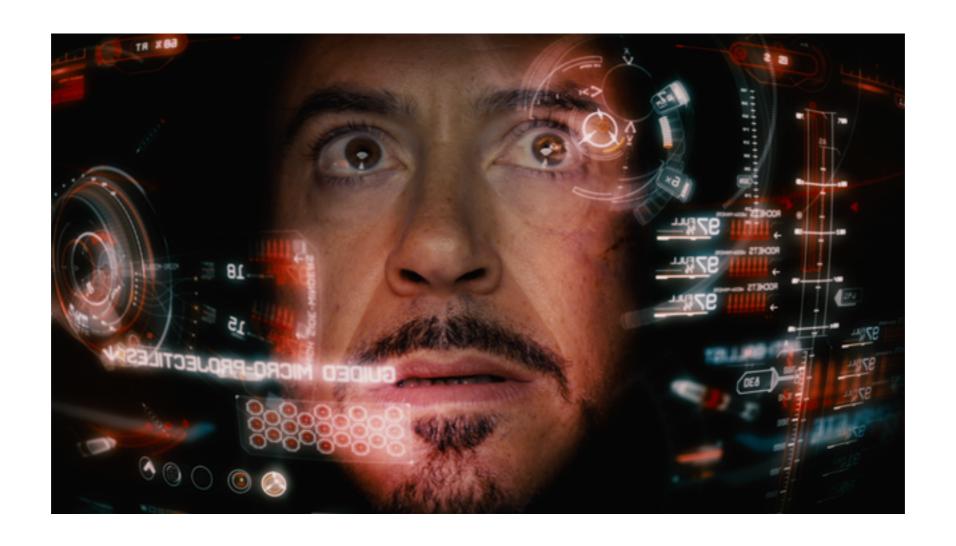
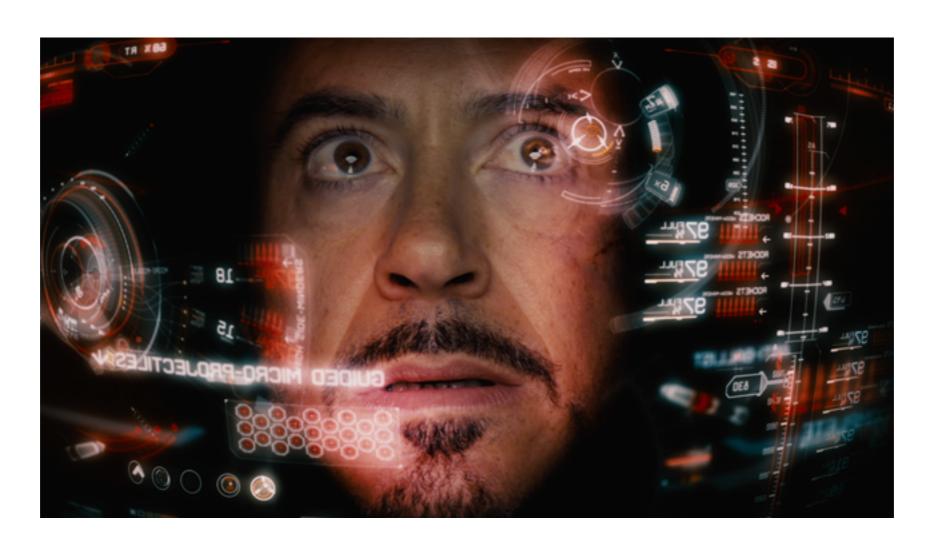
# Augmented Reality: what is it and how can I use it?

Dr. Laura Huisinga Assistant Professor Fresno State University



What is AR?



"as a digital display that blends virtual graphics with a physical reality" (Vyas, 2015)

Vyas, D. (2015). Increasing student engagement using Augmented Reality. The Journal of Educational Innovation,

Partnership and Change, 1(2).



The terms AR "describe[s] a digital display that blended virtual graphics with a physical reality" (Vyas, 2015).



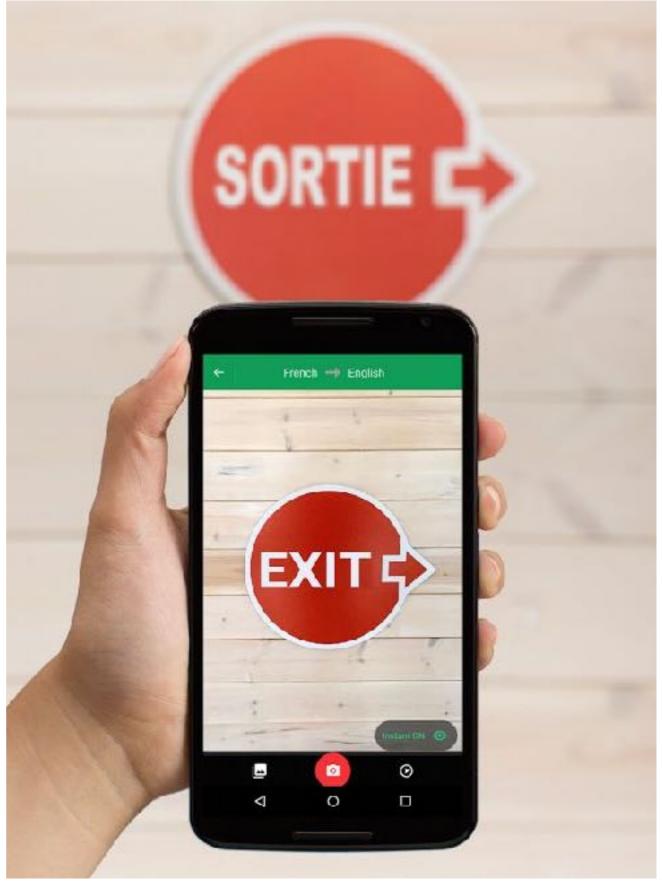




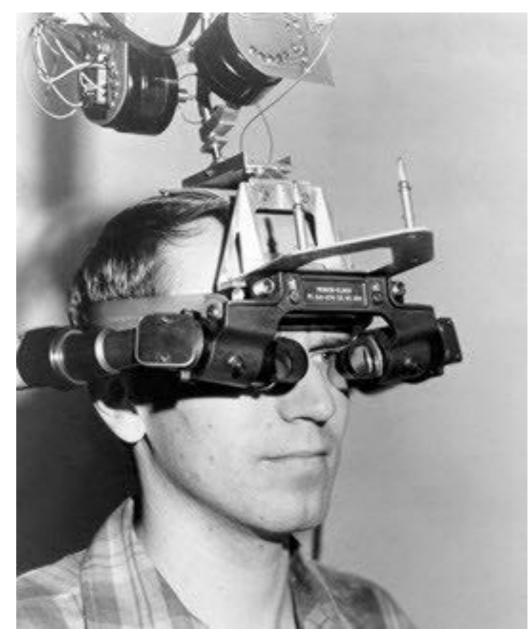
http://www.dezeen.com/2015/01/22/microsoft-hololens-headset-high-definition-holograms-augmented-reality-windows-10/











History of AR



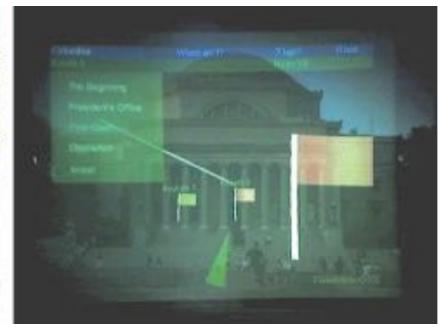
**1957-1962:** Morton Heilig builds the Sensorama, a cinematic experience to engage all the senses.

1968 The Sword of Damocles was the nickname of the world's first head-mounted display. Courtesy of Ivan Sutherland.

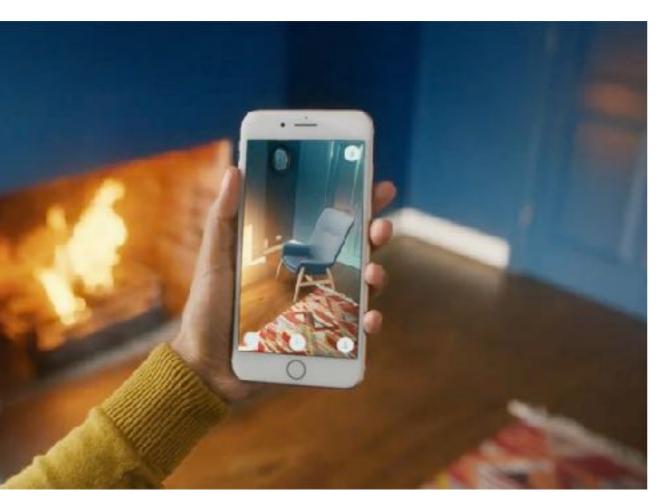








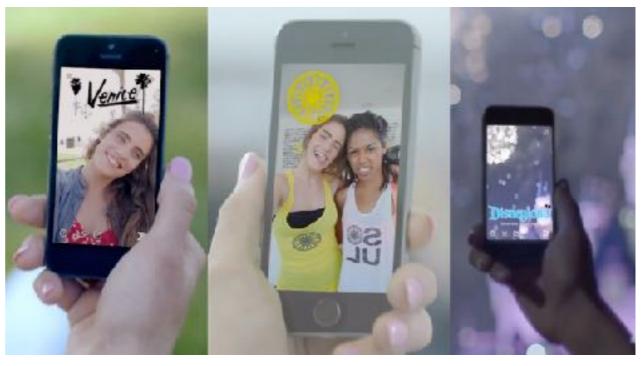


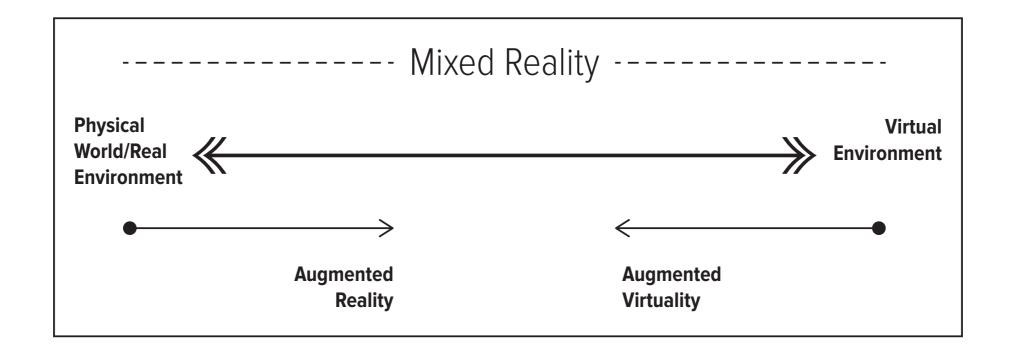




## Augmented reality, mixed reality and virtual reality Whats the difference?

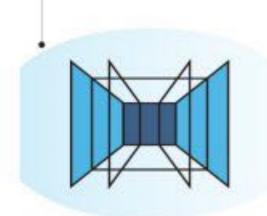


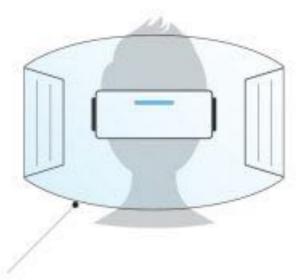




### VIRTUAL REALITY (VR)

Completely digital environment



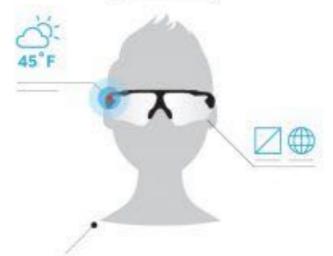


Fully enclosed, synthetic experience with no sense of the real world.

### **AUGMENTED REALITY (AR)**

Real world with digital information overlay

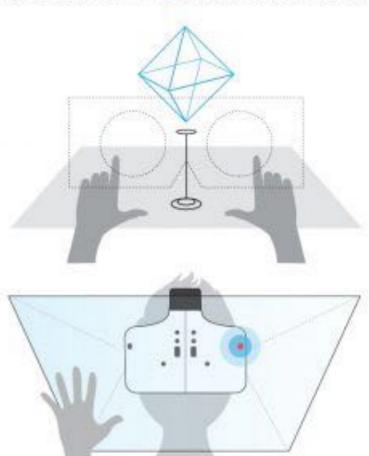




Real world remains central to the experience, enhanced by virtual details.

#### MERGED REALITY (MR)

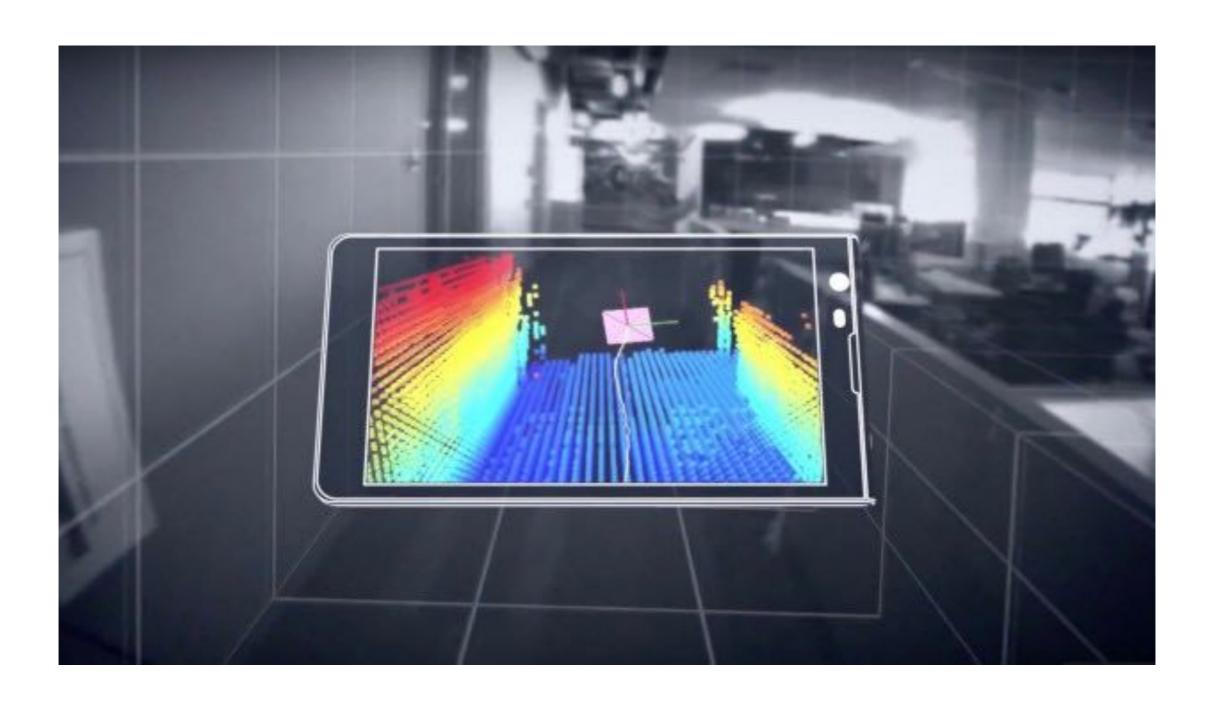
Real and the virtual are intertwined

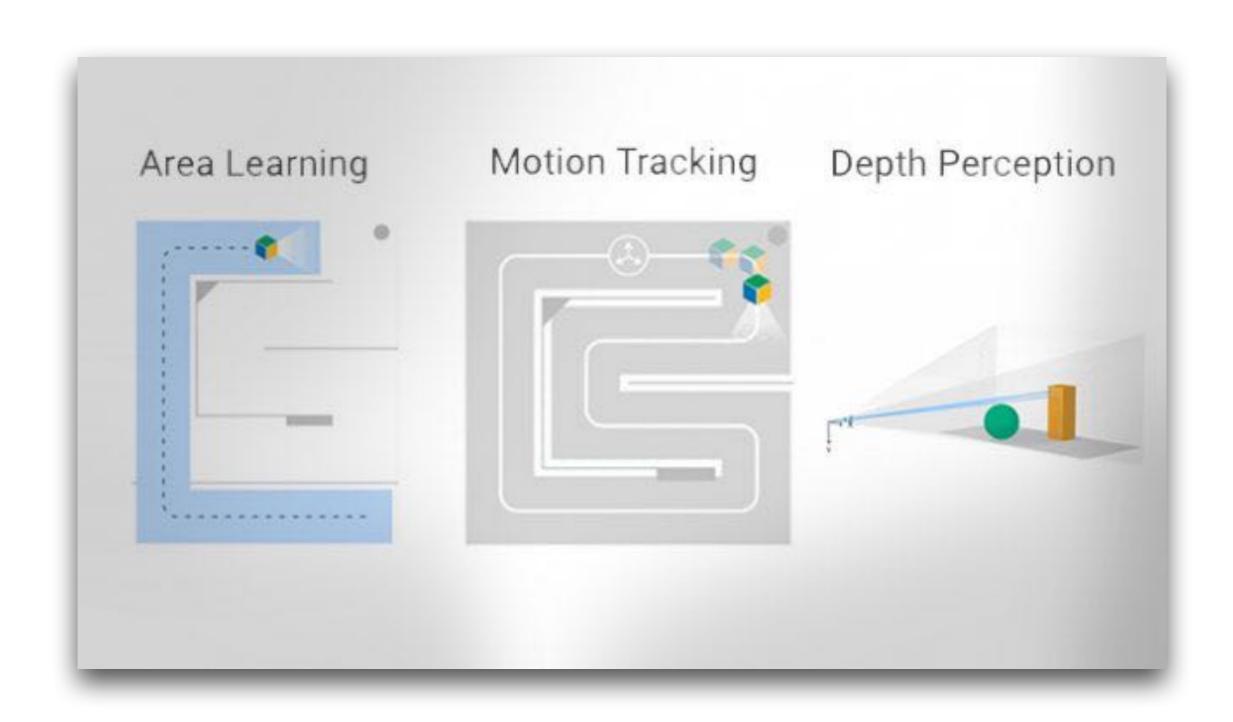


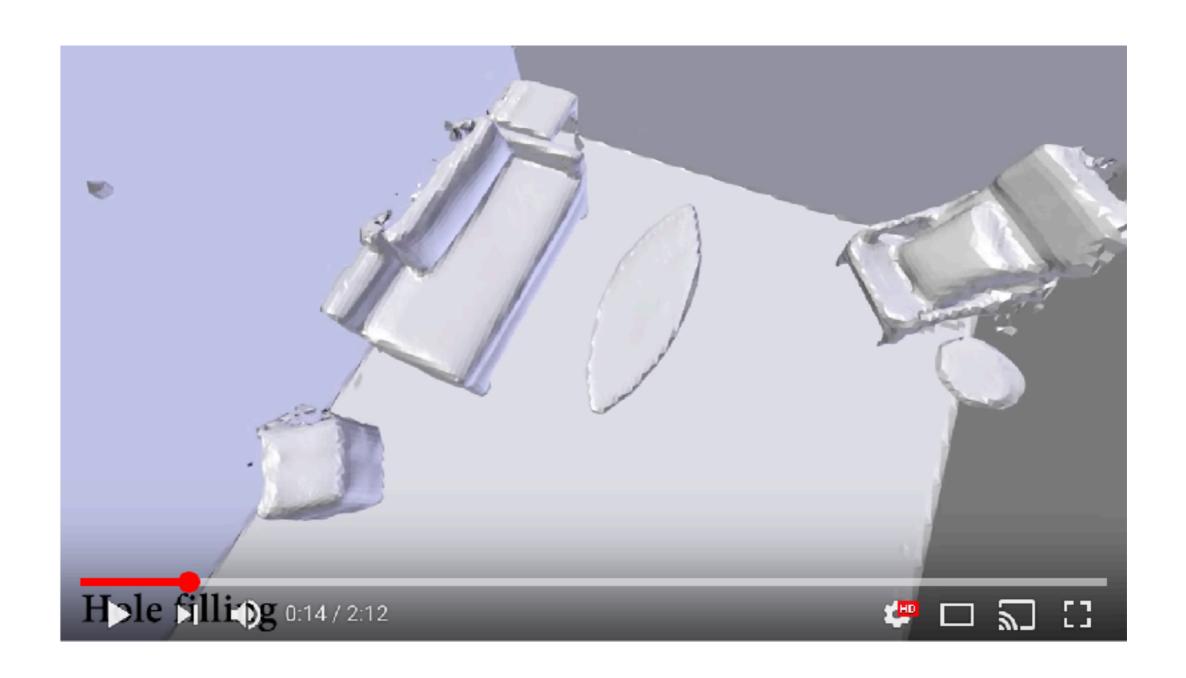
Interaction with and manipulation of both the physical and virtual environment.

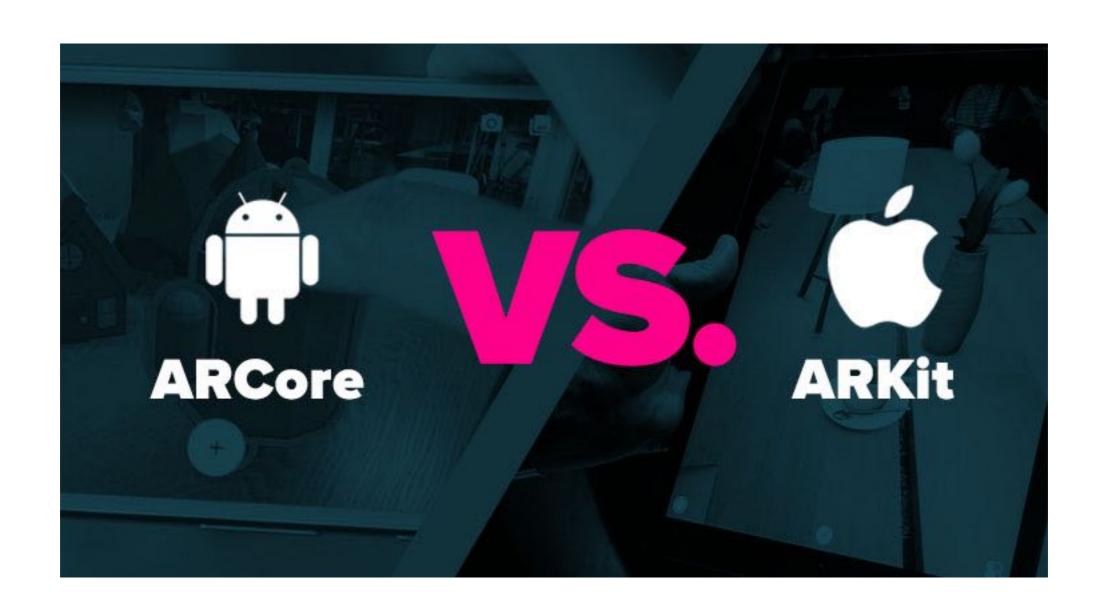












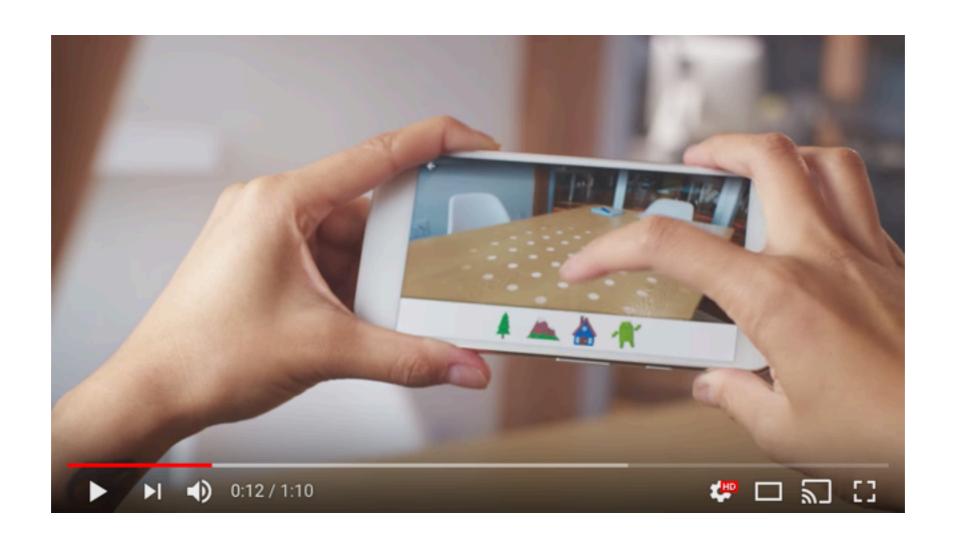


## ARCore



## **ARCore**





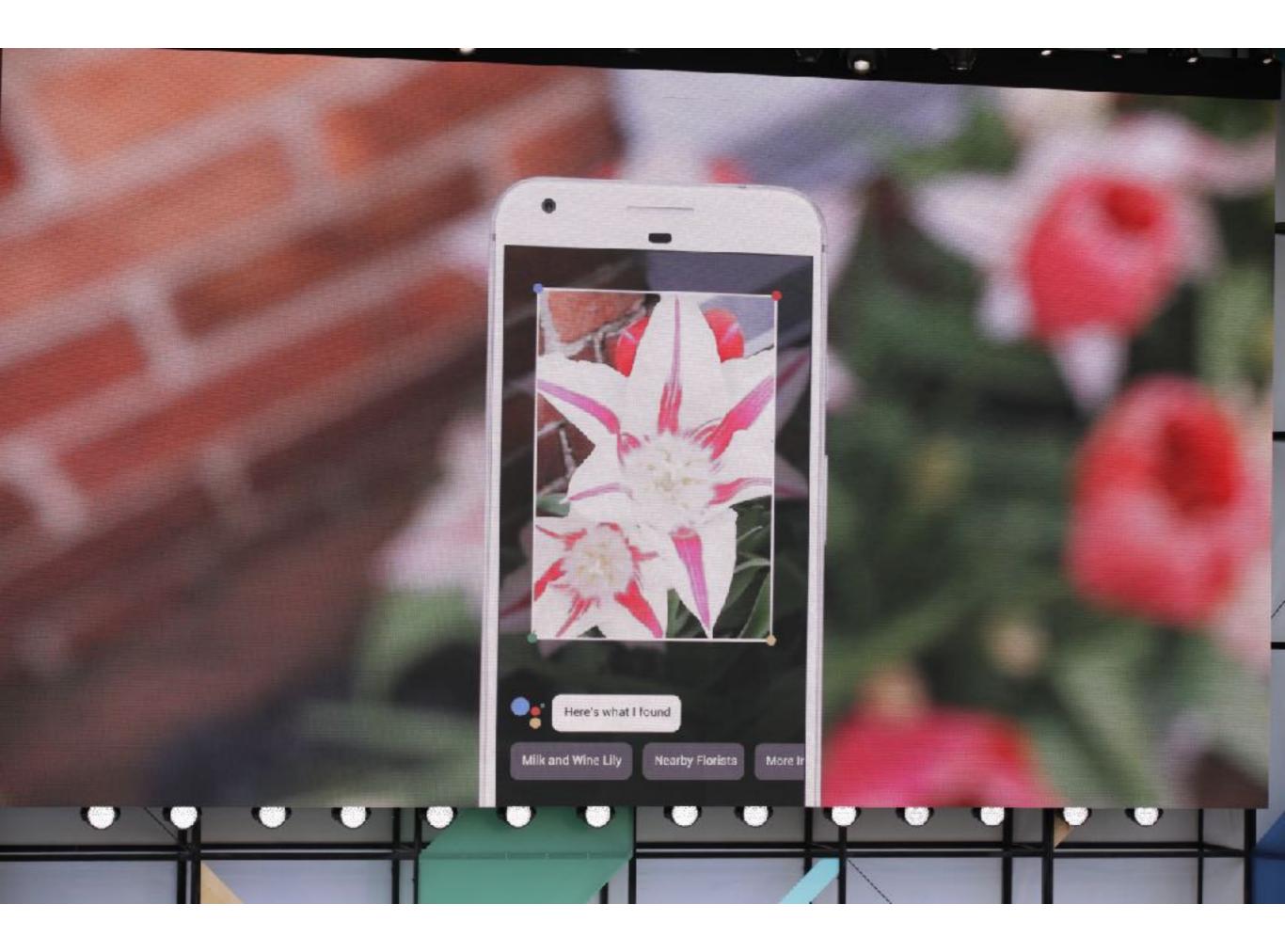


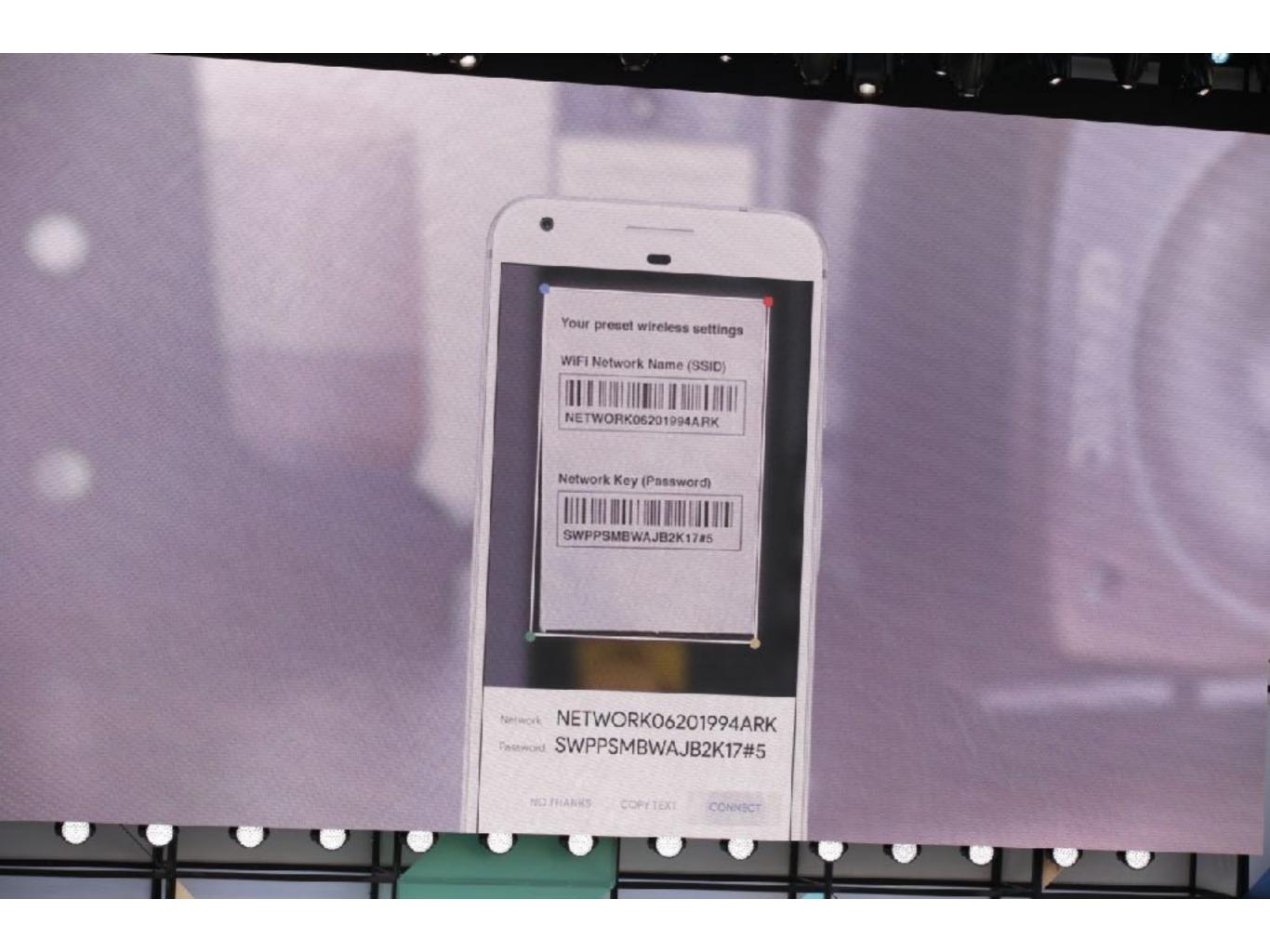




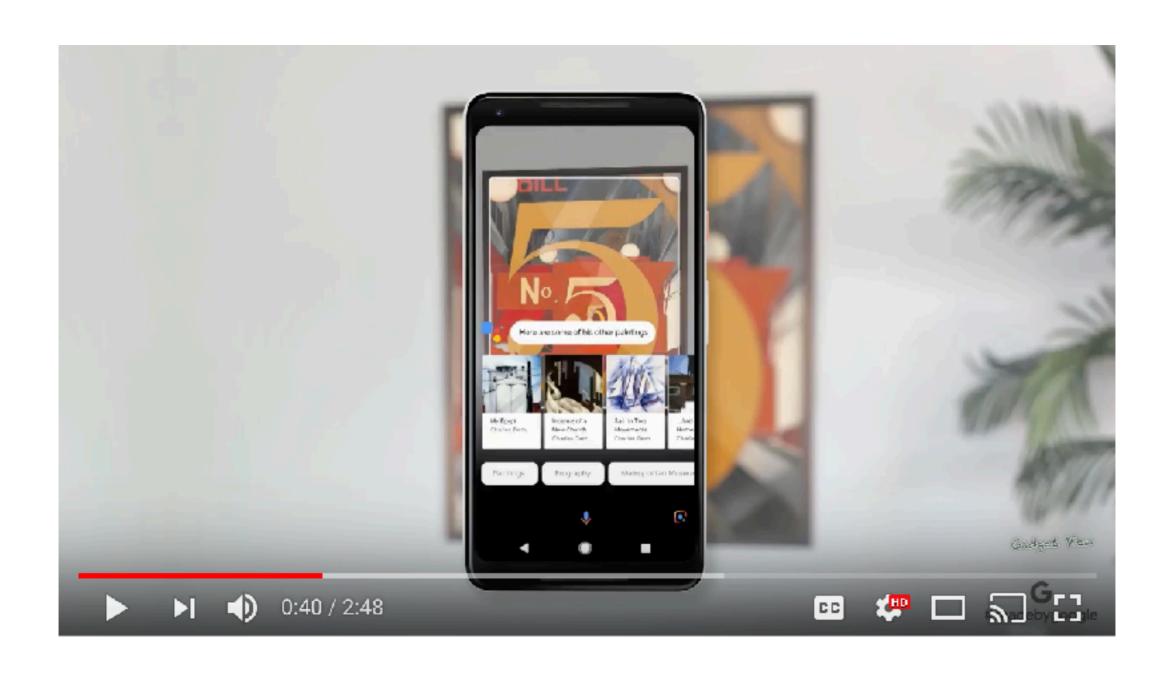








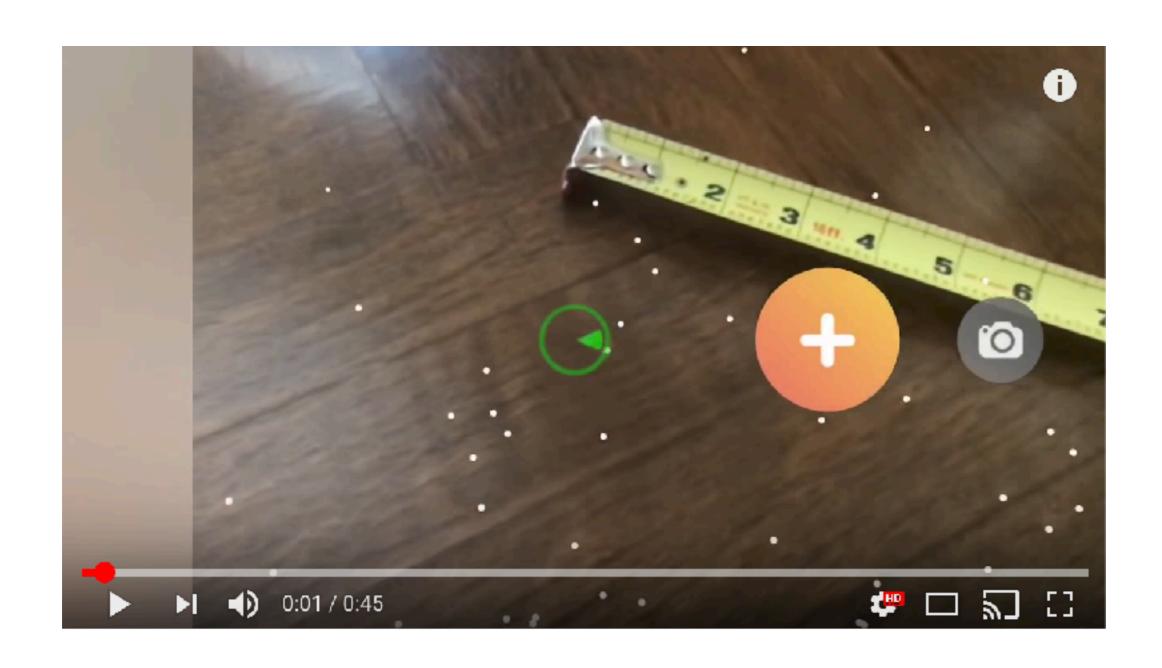


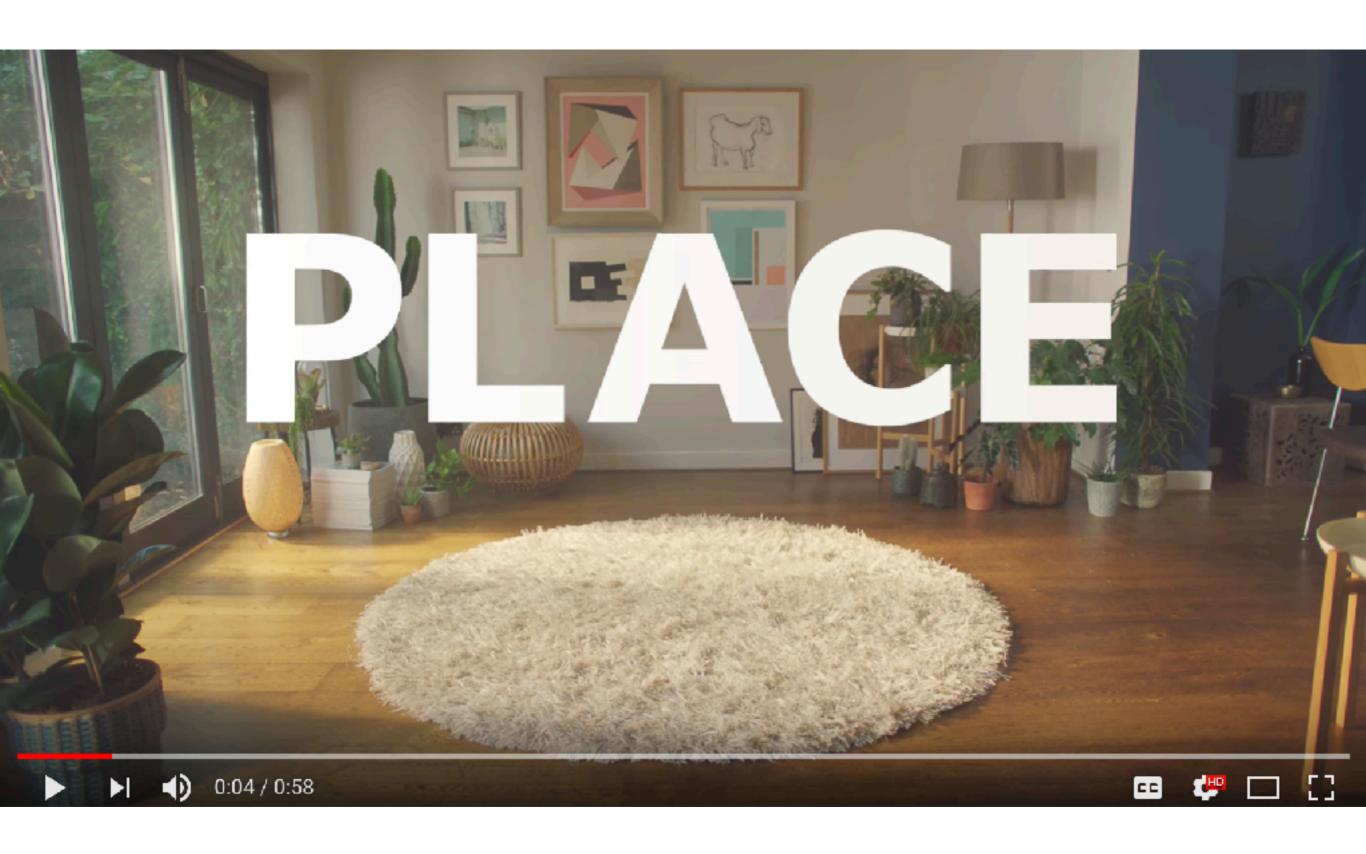


## What can I do with AR today?



The fisherman's lies are brought into the digital age with the aid of augmented reality.







This poster has been augmented with the Aurasma App. Download the Aurasma App and scan the sections for addition content.

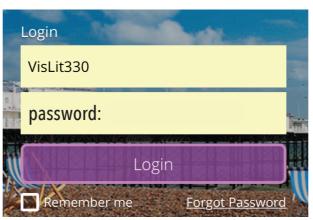
add user: VisLit330

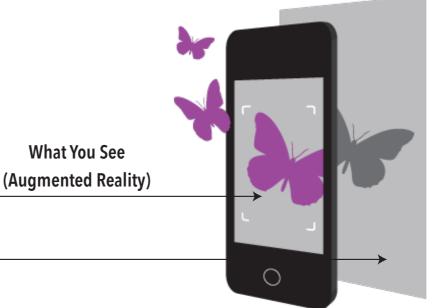
#vislit330

add user: huisinga

## 1. Click Aurasma logo to start

- 2. Click Device
- 3. Take video/image or Select video/image (OVERLAY)
- 4. Point camera at Poster/Trigger image
- 5. Take Trigger image
- 6. Resize video/image to match
- 7. Add #VisLit330
- 8. Finish & Upload







Click A Icon

Гар

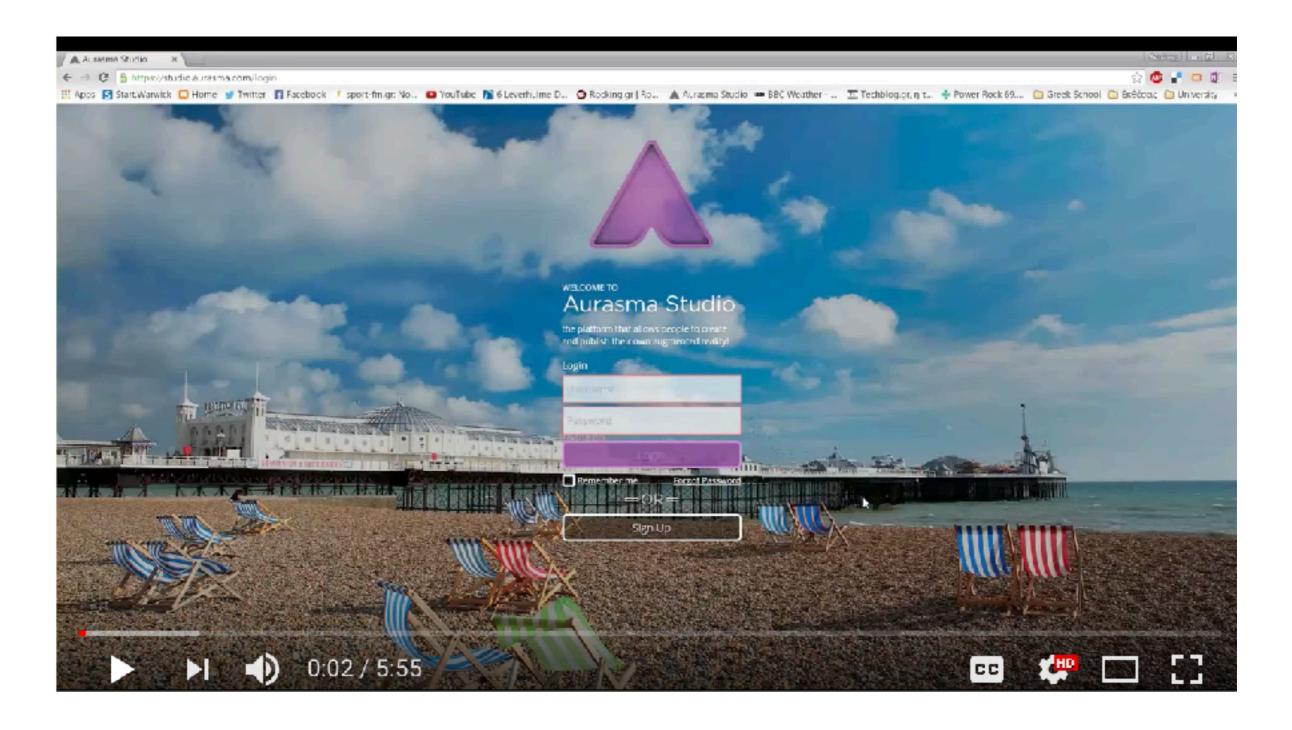
Q VisLit330 ⊗

#### VIEW

- 1. Open the Aurasma App
- 2. Add new user
- 3. return to scan screen
- 4. hold over printed document

Triggers Overlays

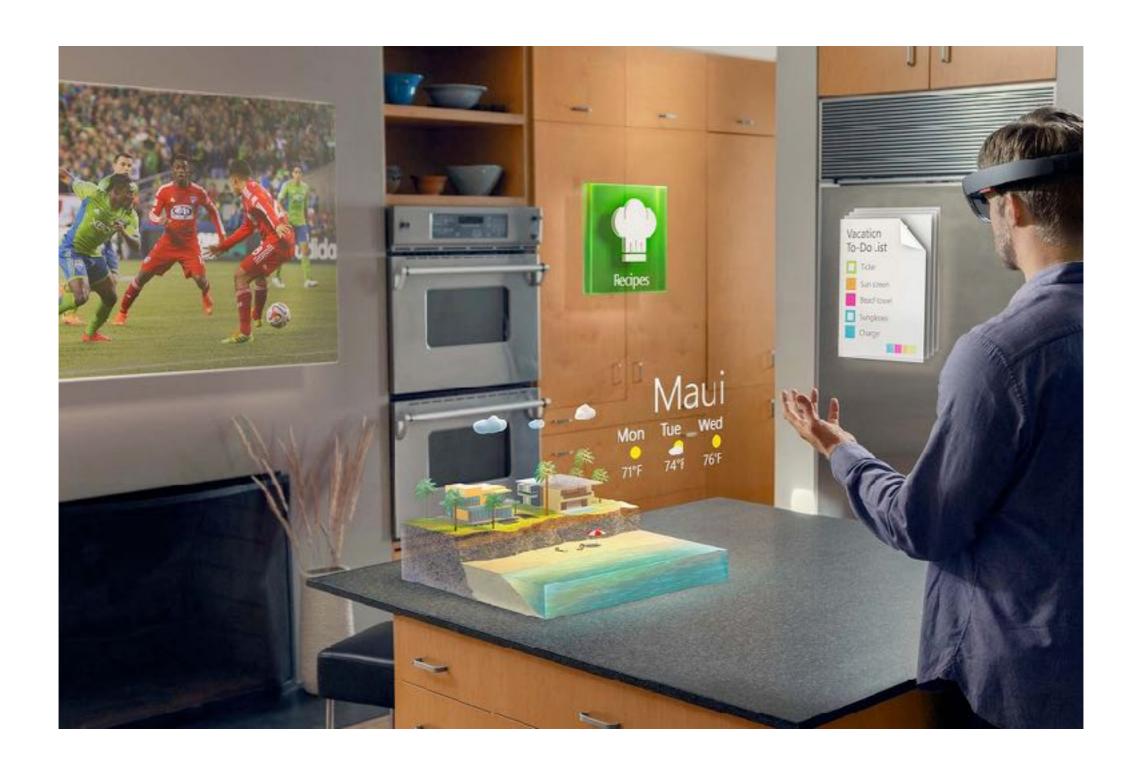
What You Scan (POSTER)

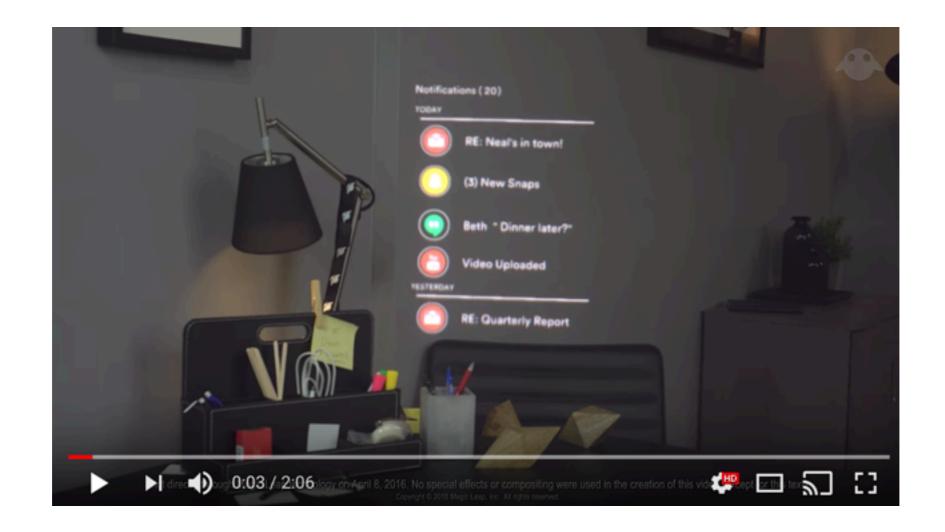


Aurasma Demo



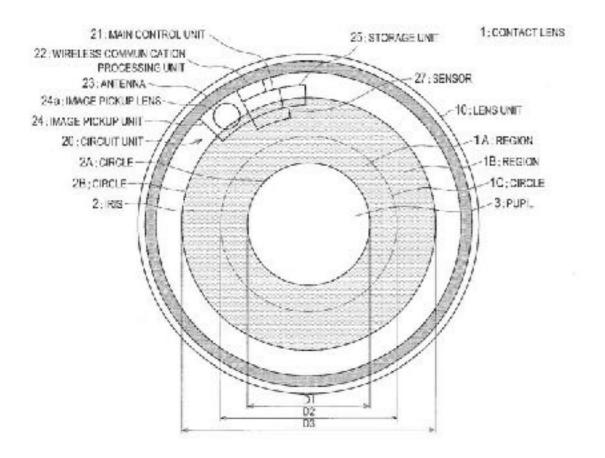
## AR of Tomorrow













## Questions?

