

# **Cross-Platform Augmented Reality**

TJ VanToll

Principal Developer Advocate

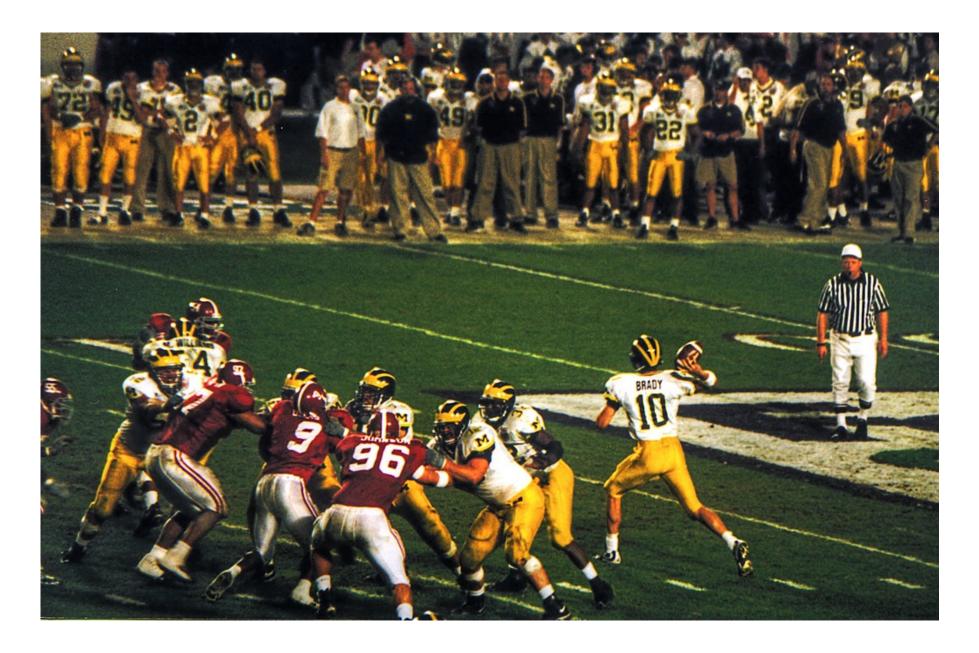














#### Detroit Lions Become NFL's First 0-16 Team

Published December 28, 2008 · Associated Press











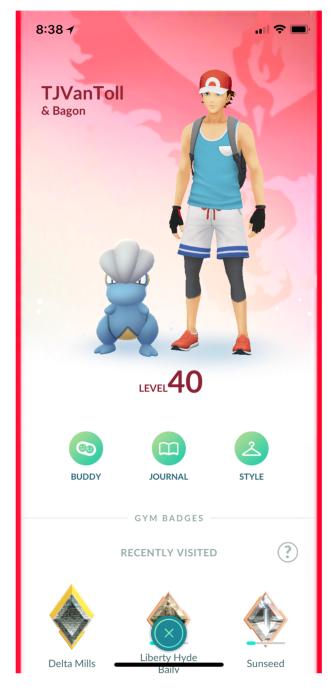






## Augmented Reality









#### TJ VanToll #

Principal Developer Advocate

@tjvantoll







#### **Agenda**

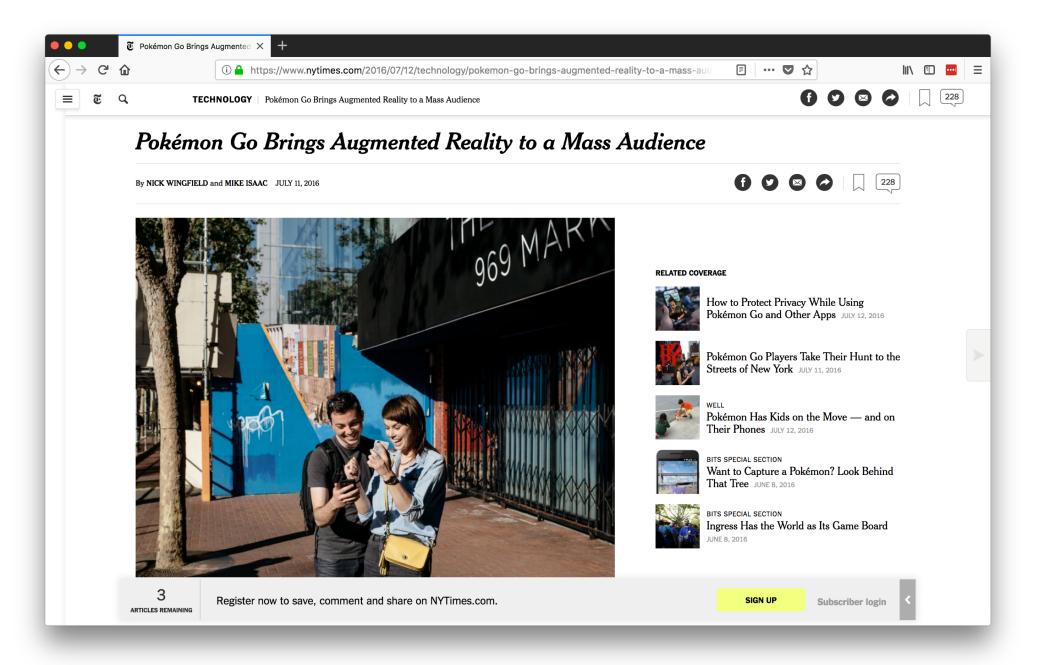
Brief History of AR

AR today

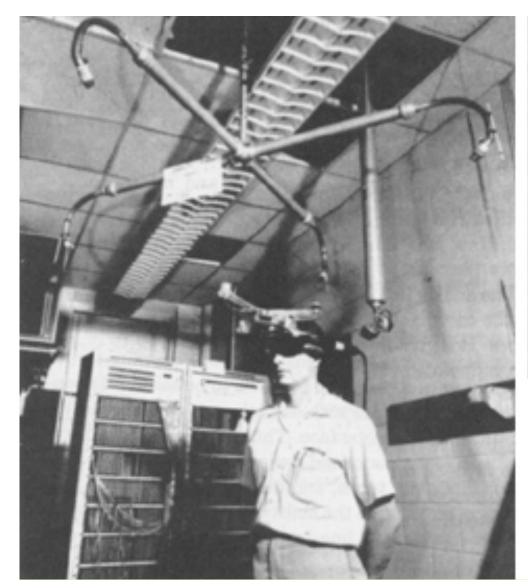
Building cross-platform AR apps

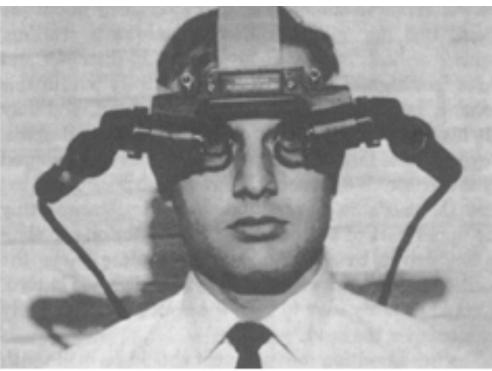


Augmented Reality (AR) is the integration of digital information with the user's environment in real time.





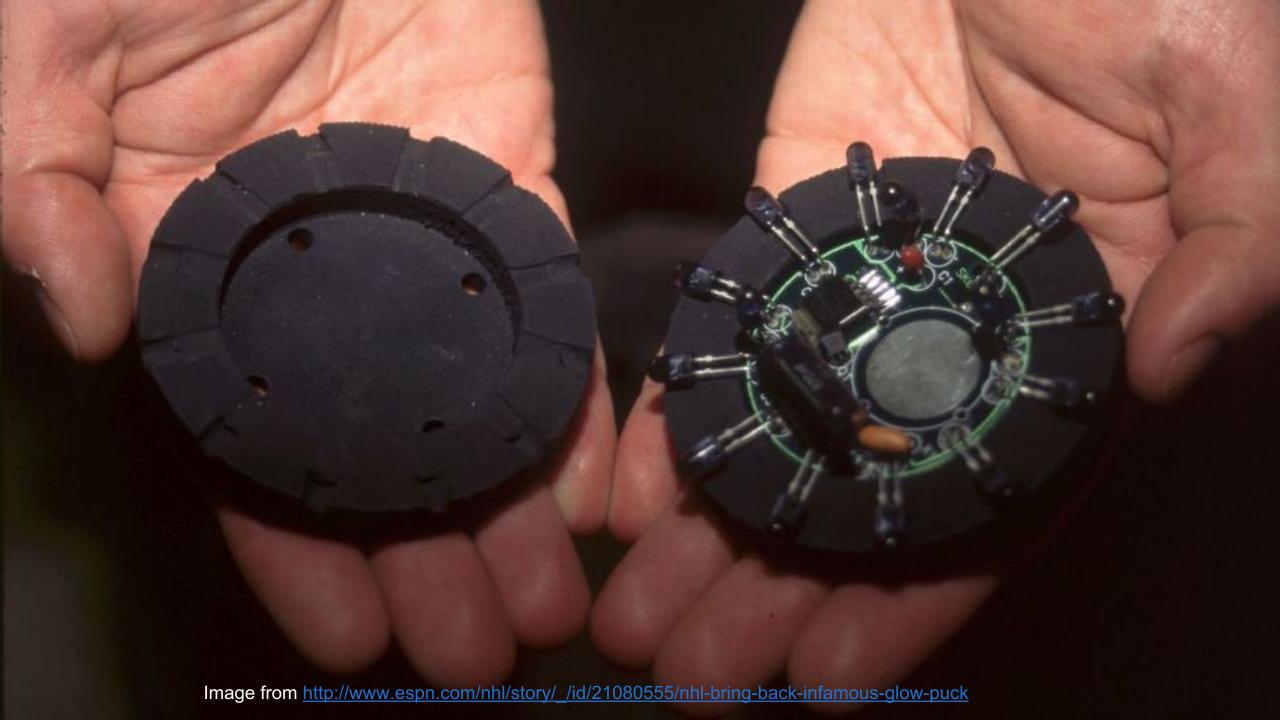


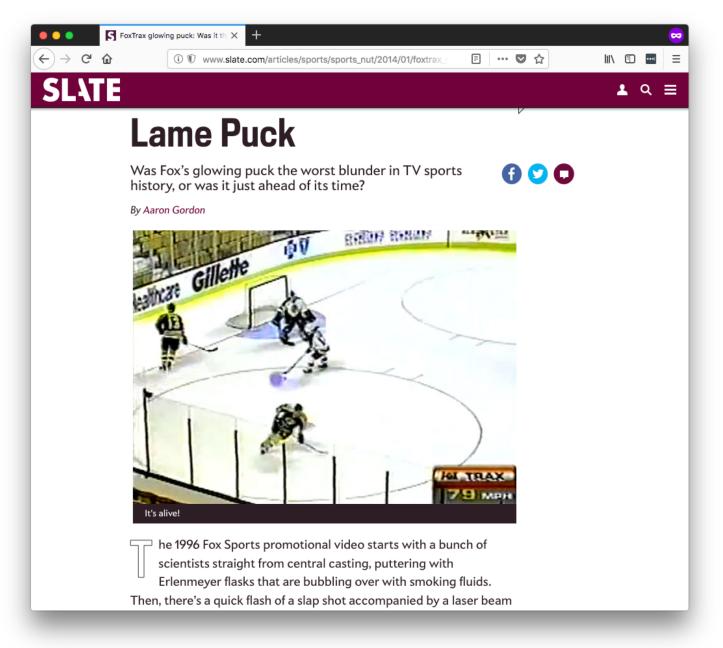












Source: http://www.slate.com/articles/sports/sports nut/2014/01/foxtrax glowing puck was it the worst blunder in tv sports history or was.html



# The thin yellow line

ESPN added a new feature in its football broadcasts this year. "1st and Ten" technology places a yellow line, visible only to TV viewers, that indicates where the first-down marker is. Story, D-4

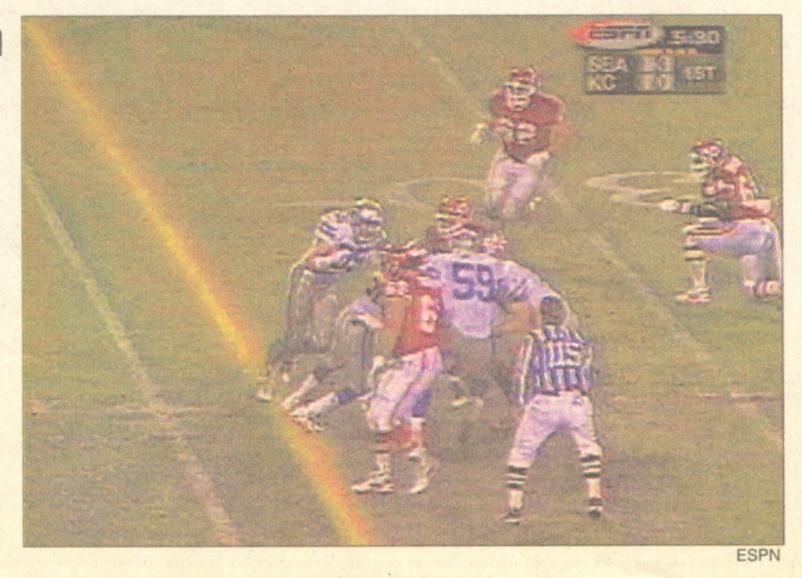






Image from <a href="https://gobraithwaite.com/creative-marketing-saved-nfls-yellow-first-line/">https://gobraithwaite.com/creative-marketing-saved-nfls-yellow-first-line/</a>



"It probably cost the broadcaster \$25,000-\$30,000 for a weekend back then.

We had to roll out an entire truck to make it work for games in the early days. It was five racks of equipment, a lot of engineers, a traveling circus." "Now it's basically one computer"



Source: <a href="https://technabob.com/blog/2008/12/17/mini-augmented-reality-ads-hit-newstands/">https://technabob.com/blog/2008/12/17/mini-augmented-reality-ads-hit-newstands/</a>



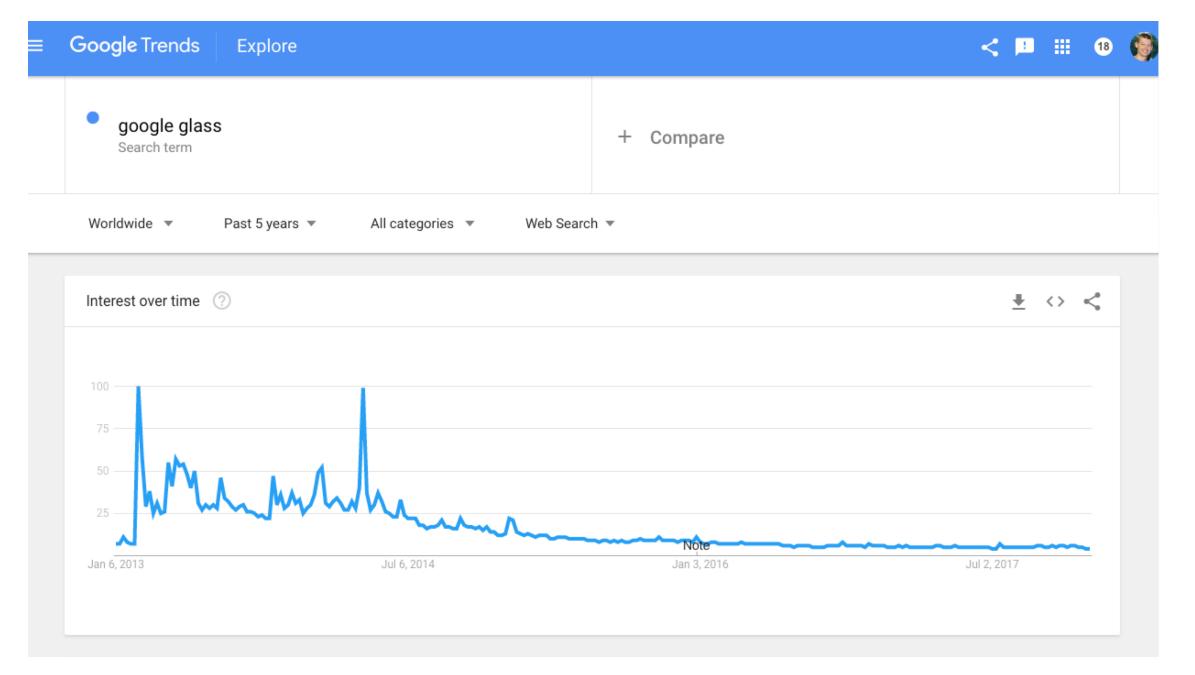






Source: <a href="http://mashable.com/2012/04/04/google-glasses-project-glass/">http://mashable.com/2012/04/04/google-glasses-project-glass/</a>











Opinion FT Tech Hub

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#### Google Glass available to everyone for \$1500

SARAH MISHKIN

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Sarah Mishkin

**2**1

MAY 13, 2014

Google's flagship wearable device—Google Glass—is <u>now available</u> for anyone in the US who wants to spend \$1,500 on the smart spectacles some find fascinating and others find bizarre.

In a post to the Google+ social network Tuesday afternoon, Google announced the new availability of the devices, which combine a set of spectacles with a small computer that sits just above the wearer's right eye.

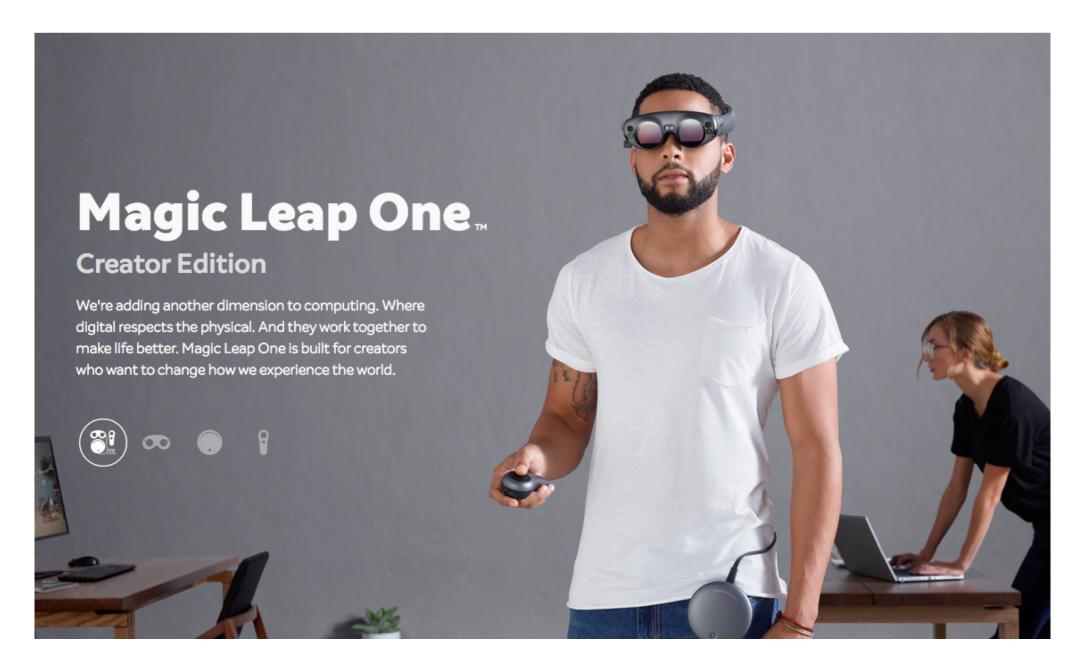














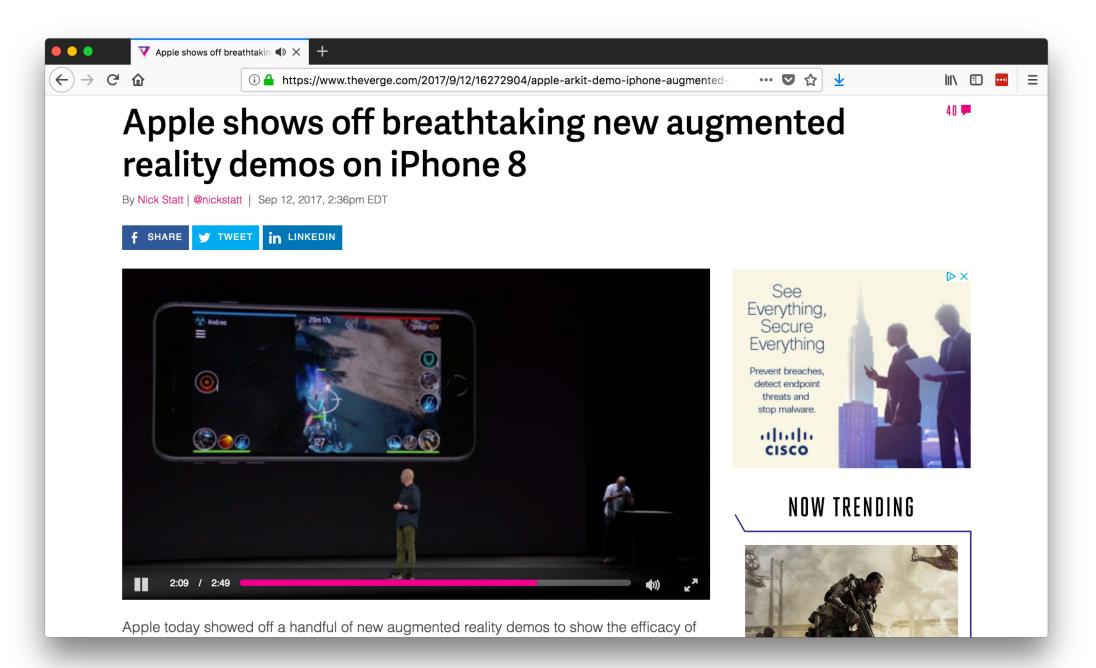
#### **Agenda**

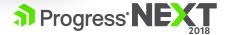
Brief history of AR

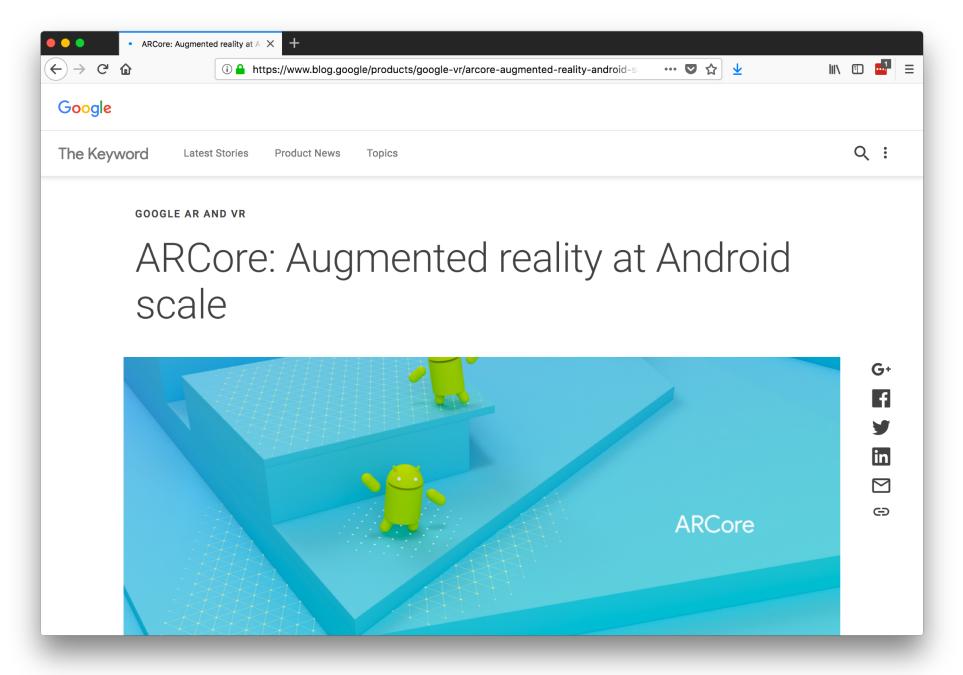
AR today

Building AR apps w/JS







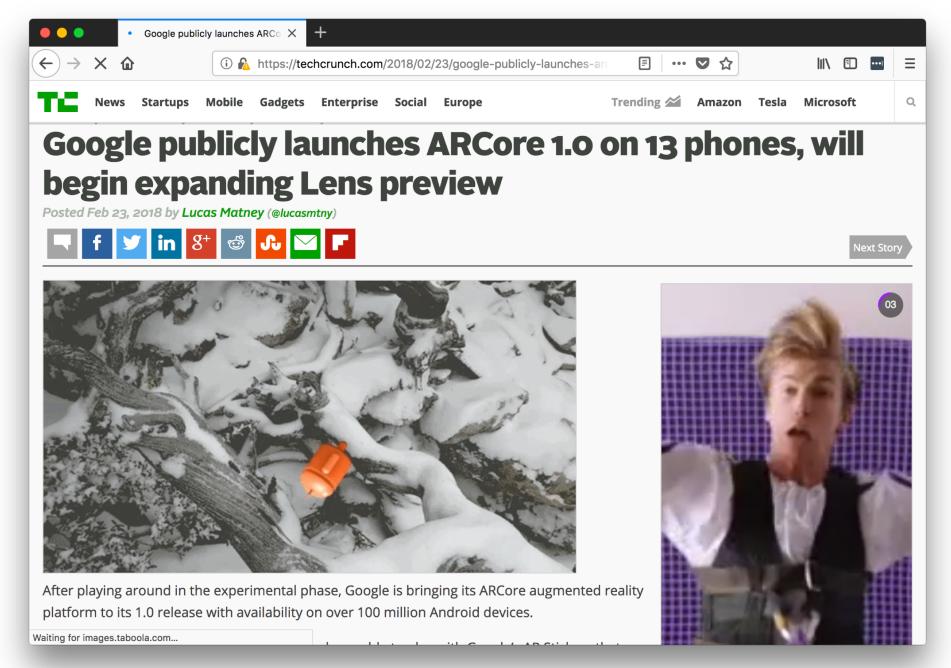




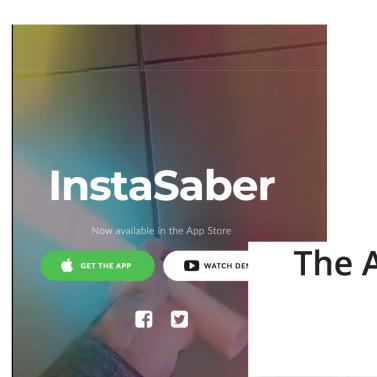
#### **Device Support**

- ARKit
  - iPhone 6S+
  - iPad Pros and Generation 5 regular iPads
- ARCore
  - Pixel, Pixel XL, Pixel 2, Pixel 2 XL
  - Galaxy S8, S8+, Note8, S7 and S7 edge
  - LGE's V30, V30+ (Android O only)
  - ASUS Zenfone AR
  - OnePlus's OnePlus 5









#### This AR app solves Sudoku puzzles using your iPhone's camera

Spoilers

By Thuy Ong | @ThuyOng | Sep 21, 2017, 10:28am EDT

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## The AR Fart App We've All Been Waiting For

December 19, 2017 • by Jonathan Nafarrete











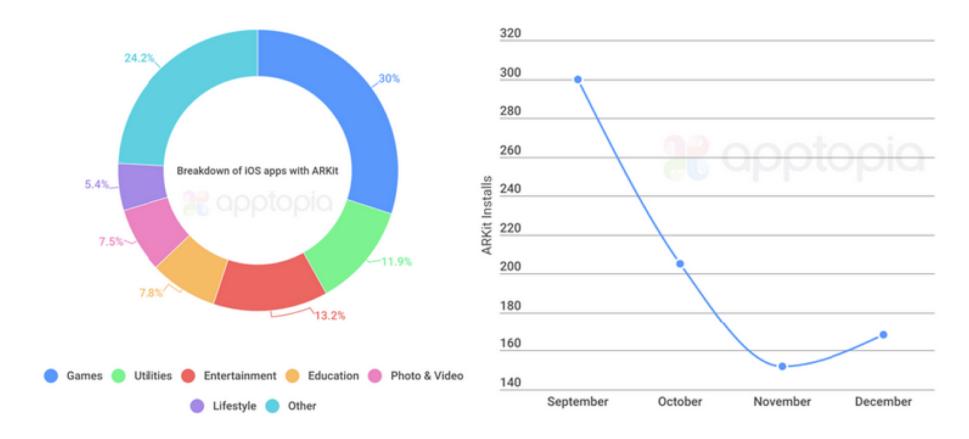


### Report: Despite Apple's hype, early developer adoption of ARKit has been slow

Chance Miller - Jan. 3rd 2018 3:21 pm PT У @ChanceHMiller







All in all, Apptopia estimates that there are under 1,000 applications currently in the App Store that take advantage of ARKit.



### **Agenda**

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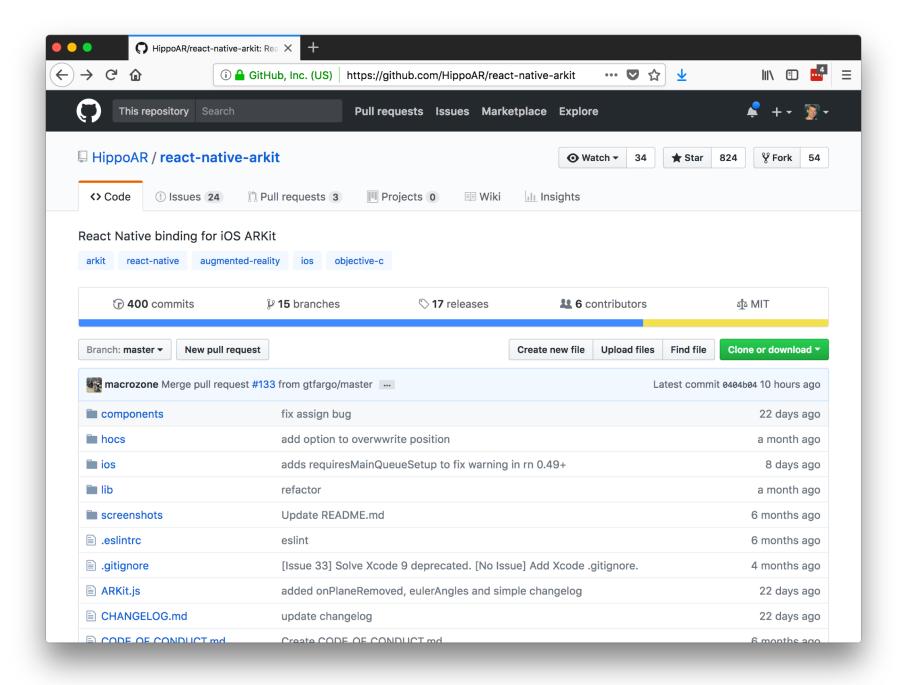




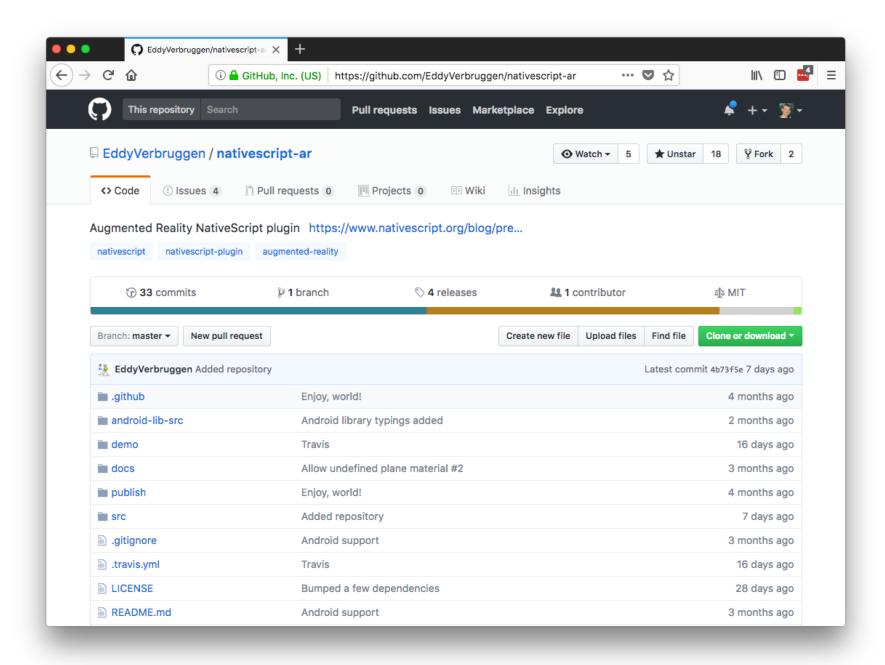
















### Demo!

# Snapchat buys Israeli augmented reality start-up for \$40 million: Report

Arjun Kharpal | @ArjunKharpal

Published 6:32 AM ET Tue, 27 Dec 2016



Snap Inc – the owner of Snapchat – has quietly acquired Israeli augmented reality (AR) start-up Cimagine Media for a reported \$30 to \$40 million, according to a media report.

Cimagine Media makes software that allows businesses or consumers to visualize what an item might look like in their environment. For example, the start-up works with Shop Direct to allow customers to see what furniture would look like in their home via a tablet.

This so-called augmented reality use is of interest to Snap Inc, considering Snapchat uses this technology in their lenses to let users turn their faces into animals for example.

## Snapchat buys Looksery, a 2-year-old startup that lets you Photoshop your face while you video chat



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Snapchat has acquired facial recognition startup Looksery.

The deal was first flagged by Ain.ua, a Ukrainian publication, which states Snapchat purchased the startup for ~ \$150 million.
Business Insider has



Looksery's app. Snapchat now offers that same selfie filter as a lens. Looksery

#### 28 🥦

# Google buys Word Lens, the app that translates languages with your phone's camera

By Chris Welch | @chriswelch | May 16, 2014, 2:50pm EDT

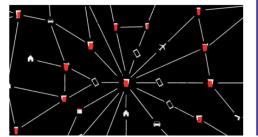




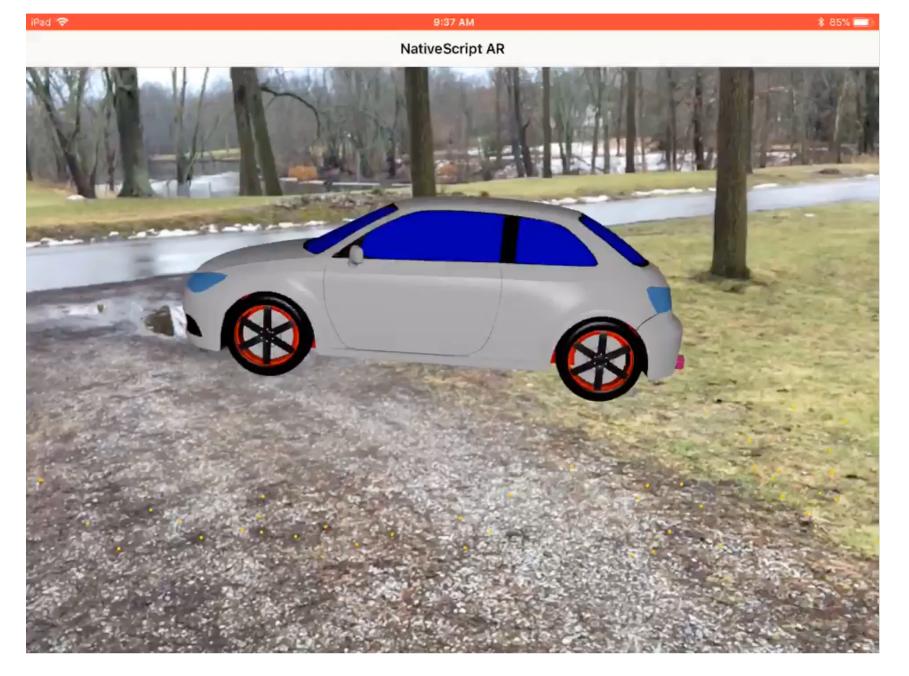




### NOW TRENDING









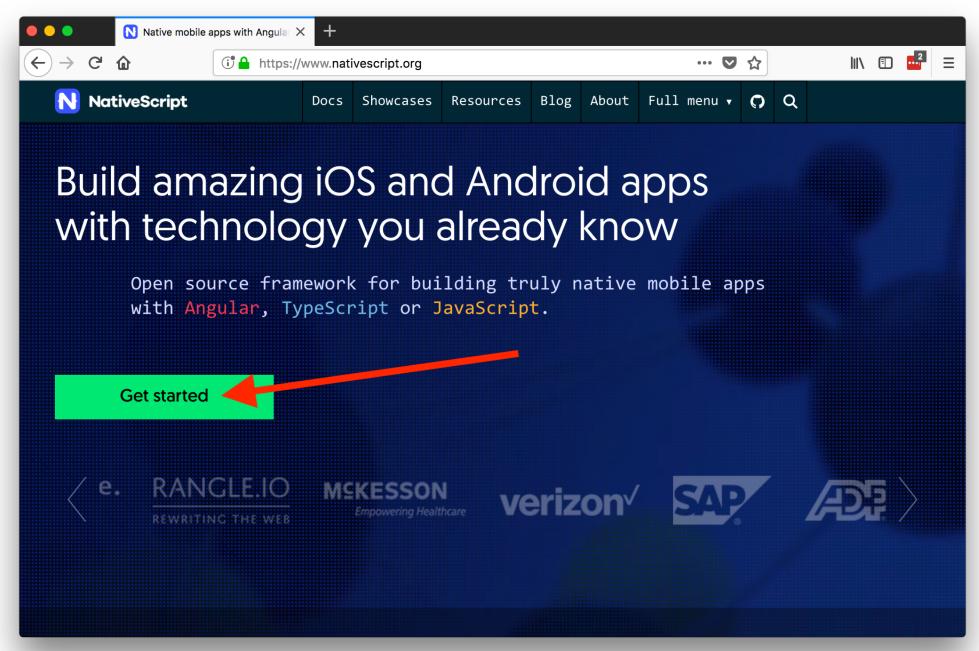
### Summary

AR is cool.

AR is hard.

 It's probably a few years before AR is simple enough for your average developer to build something compelling with.







# Thank You!

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