

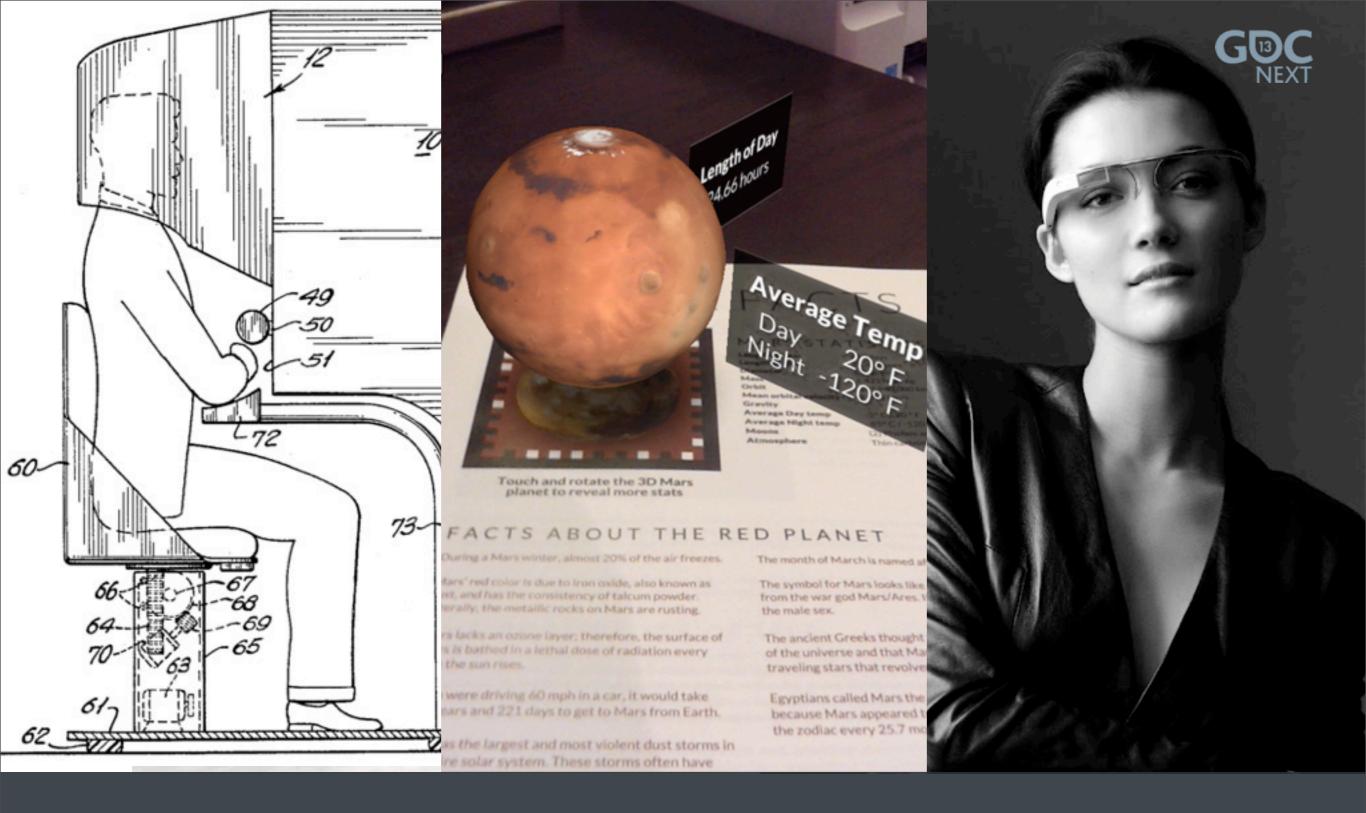
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Beyond the Box

Opportunities in Augmented Reality



Definition & (Brief) History

Dev Tools & the Vuforia SDK

Into the Future of AR Gaming

About Me

Digital Strategy

Freelance

Unity3D

Front-end Development

Motion Design

Web Design

C#/JS
Marketing Mobile AR

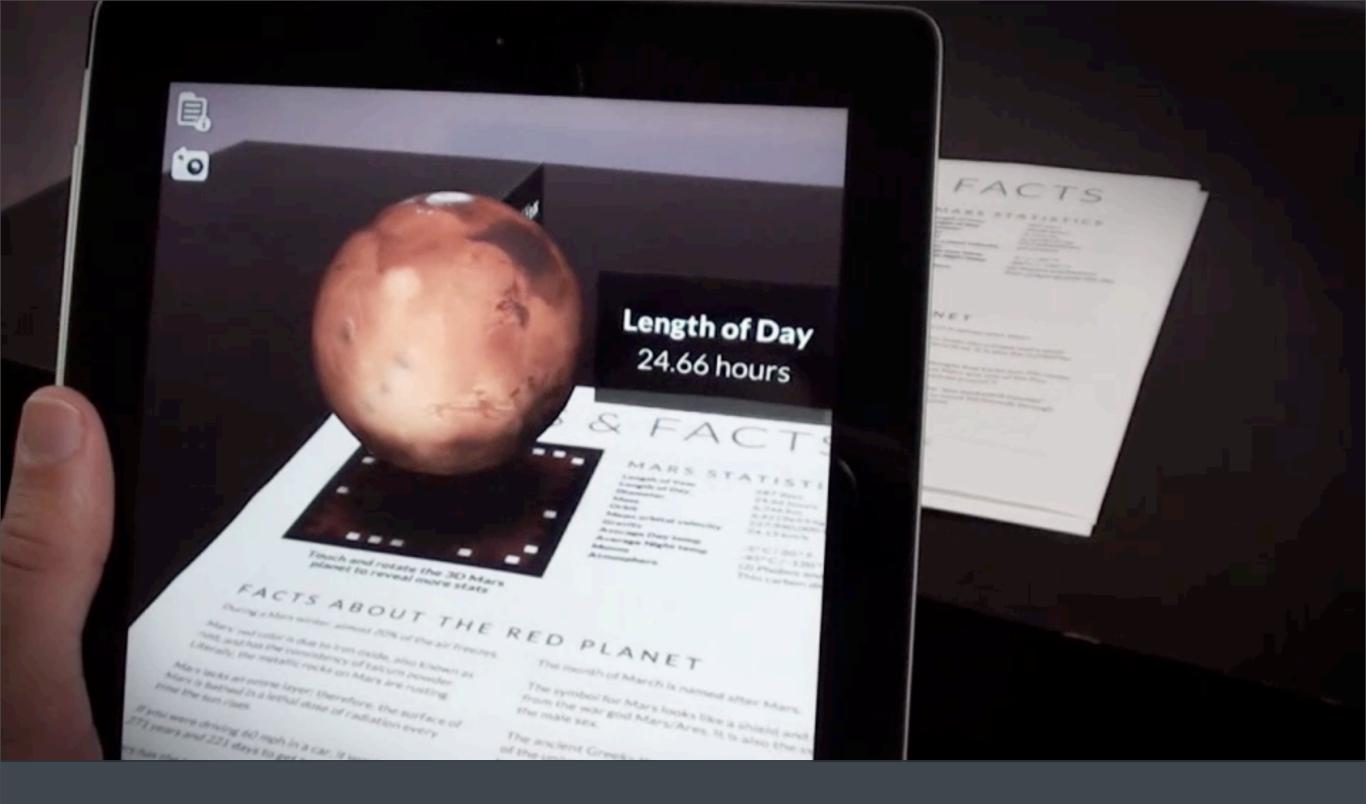
Interactive Director

WordPress

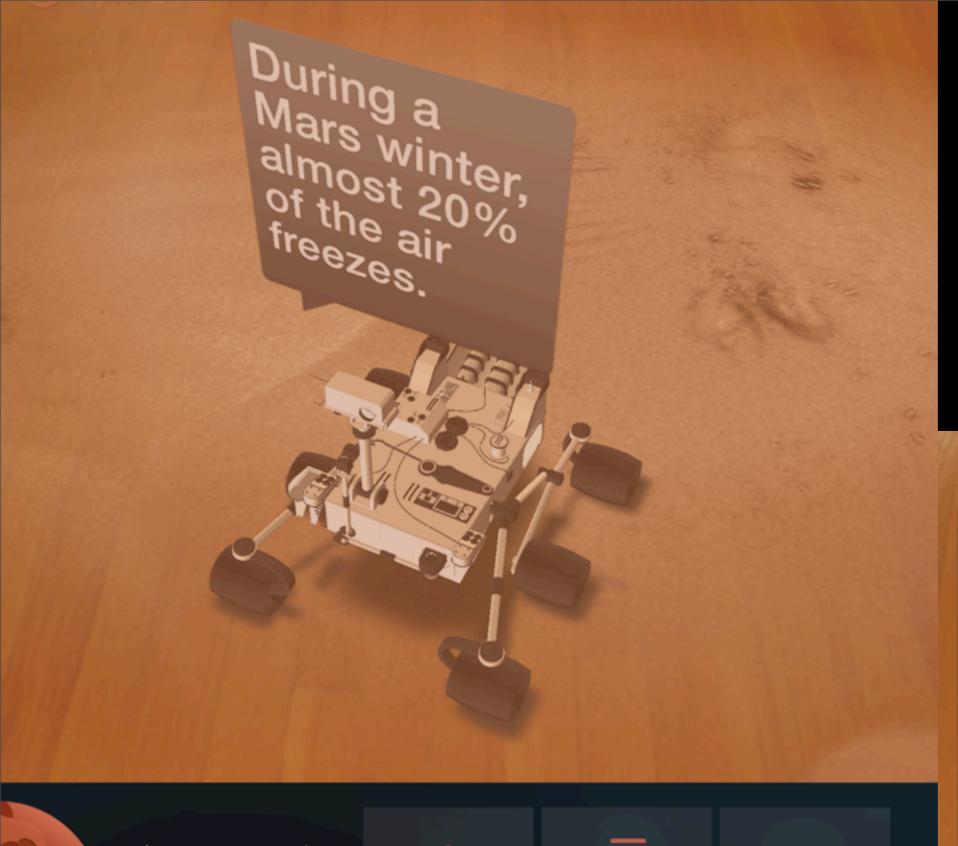
Financial Services

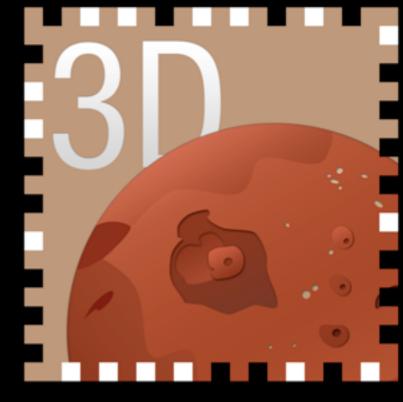
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Experience Mars





Experience Martian weather broadcast live from the Curiosity Rover.





Single tap on the screen to move Curiosity around.



Look for the pop ups to learn more information about Mars.



To start print off the marker, and point your camera at it.



EMAIL LINK TO MARKER PDF

Have fun exploring on Mars!

↑3.05c/-69.47c↓ Apr 3, 2013 UTC





889.18 1

ATMOSPHERIC

PRESSURE

TWEET SCREENSHOT

Month 10



Help Frosty find the North Pole before he melts away!



Single tap on the screen to move Frosty around.



Watch out for the fires! Frosty will melt if he gets too close.



To start point your camera at the image on our Holiday Card.

Happy Holidays from the Cody's. Enjoy!









Visit the App Store and Search: "Cody Holiday Card" iPad 2+ and iPhone 4S+ supported





What is AR?

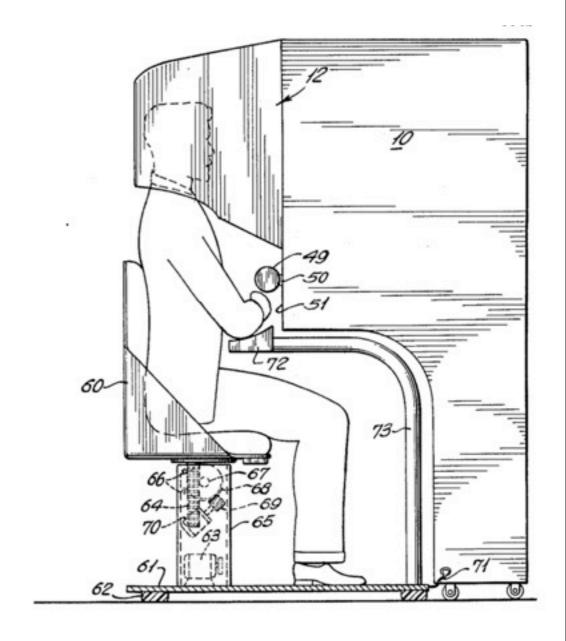
Augmented reality (AR) is a live, direct or indirect, view of a physical, real-world environment whose elements are augmented by computer-generated sensory input such as sound, video, graphics or GPS data.

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History of AR

- 1957 Morton Helig began building a machine called the Sensorama.
- 1966 1st HUD via Professor Ivan Sutherland of Electrical Engineering at Harvard
- 1992 AR system for the US Air Force known as VIRTUAL FIXTURES



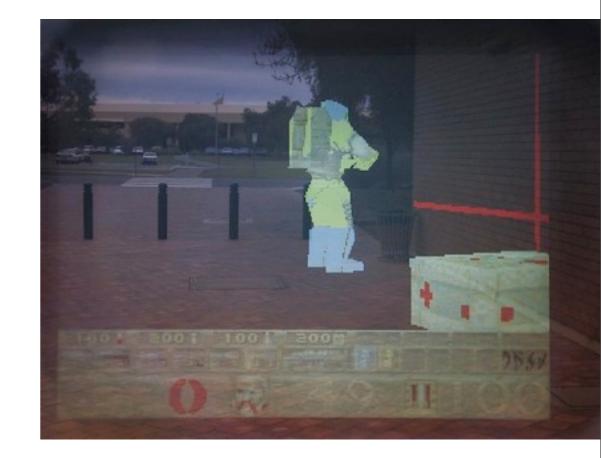
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History of AR

- 1999 Hirokazu Kato releases ARToolKit to the open source community.
- 2000 Wearable Computer
 Lab in Australia demos 1st
 outdoor mobile ARQuake game
- 2008 the first AR apps come to smartphones



Augmented Reality Business Card



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Development Tools



options for mobile Augmented Reality Games

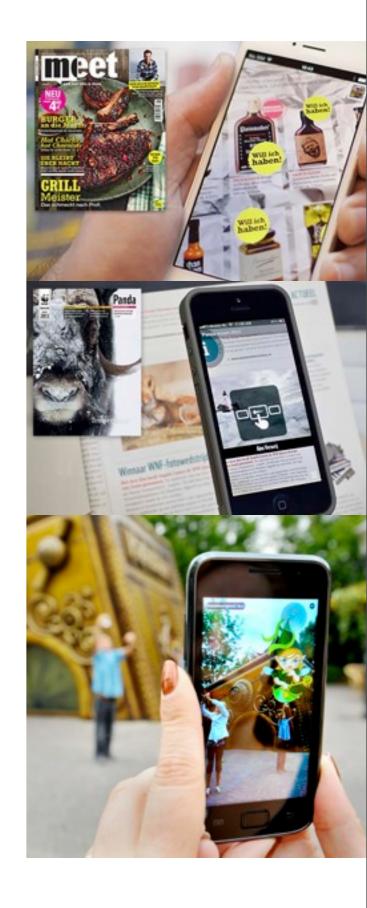


- Extremely fast & easy with in Browser Tools
- Affordable (\$180/10 Pages)
- AR Video & GPS support
- Android & iOS support

CONS

- Focused Primarily on Interactive Ad Campaigns
- Lacking 3D

 animation & power
 required for games



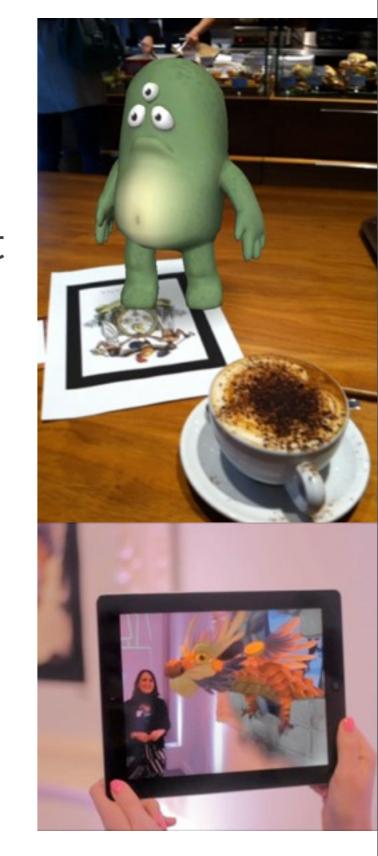
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- Fast, efficient technology for iOS
- Clean and simple tutorials
- Easy to plug into any iOS project
- Unity 3D plug in

CONS

- No Android support (coming Q4??)
- Lacking major features
- Requires black border
- Expensive! (\$499/ yr for 1 App with 1 marker)



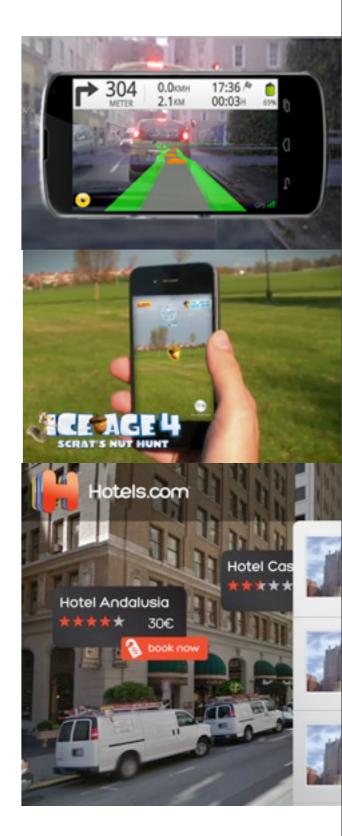
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- Fast & easy web based creation studio
- Plugins for PhoneGap Appcelerator Titanium, MonoTouch and MonoDroid
- AR Video & GPS support
- Supports iOS, Android

CONS

Expensive! (\$825SDK LITE / \$2,065SDK PRO)



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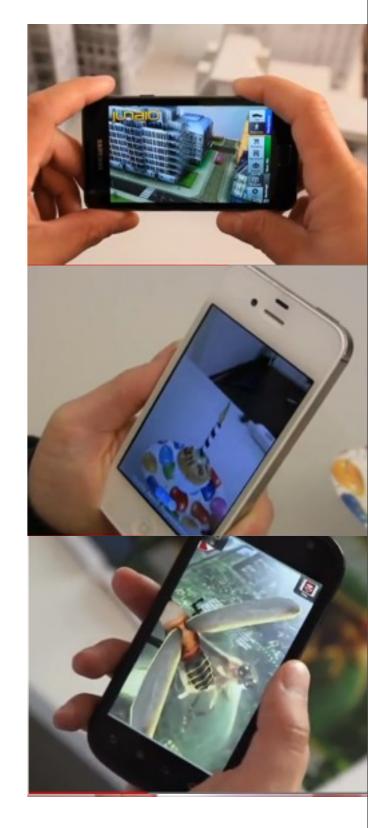




- Fast & easy web basedExpensive! (\$3,490) creation studio
- Powerful 3-D
- Cloud support, 3D object feature tracking
- Supports iOS, Android and Desktop
- Free with watermark

CONS

- for BASIC unlimited App development)
- Missing some features that Vuforia has...



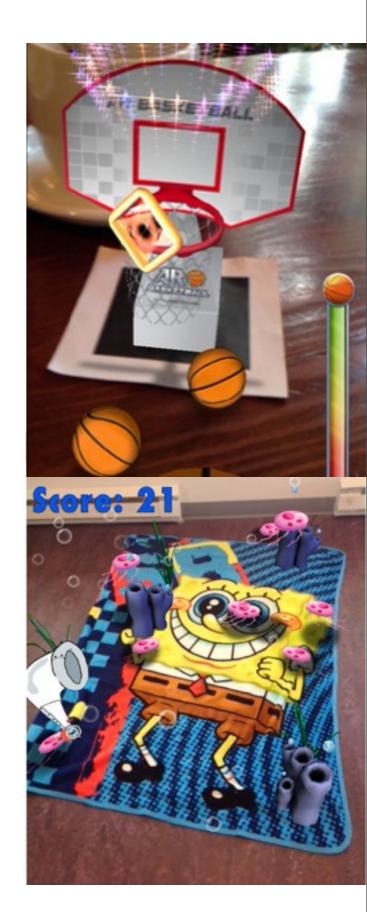
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- Powerful 3-D
 rendering engine &
 Unity Plugin
- Cloud support,
 cylinder object feature
 tracking & many more!
- Supports iOS, Android
- Free (EULA required)

CONS

- No Desktop support
- No 3D object tracking... yet
- No GPS Support



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Vuforia SDK

for Mobile AR Development

Tools & Costs

FREE

\$100

\$400

\$500



Vuforia AR Dev SDK



1yr Apple Dev License



Unity3D iOS License



16 gb Apple 3rd Gen iPad





Blender

MonoDevelop

TOTAL COST = ~\$1,000

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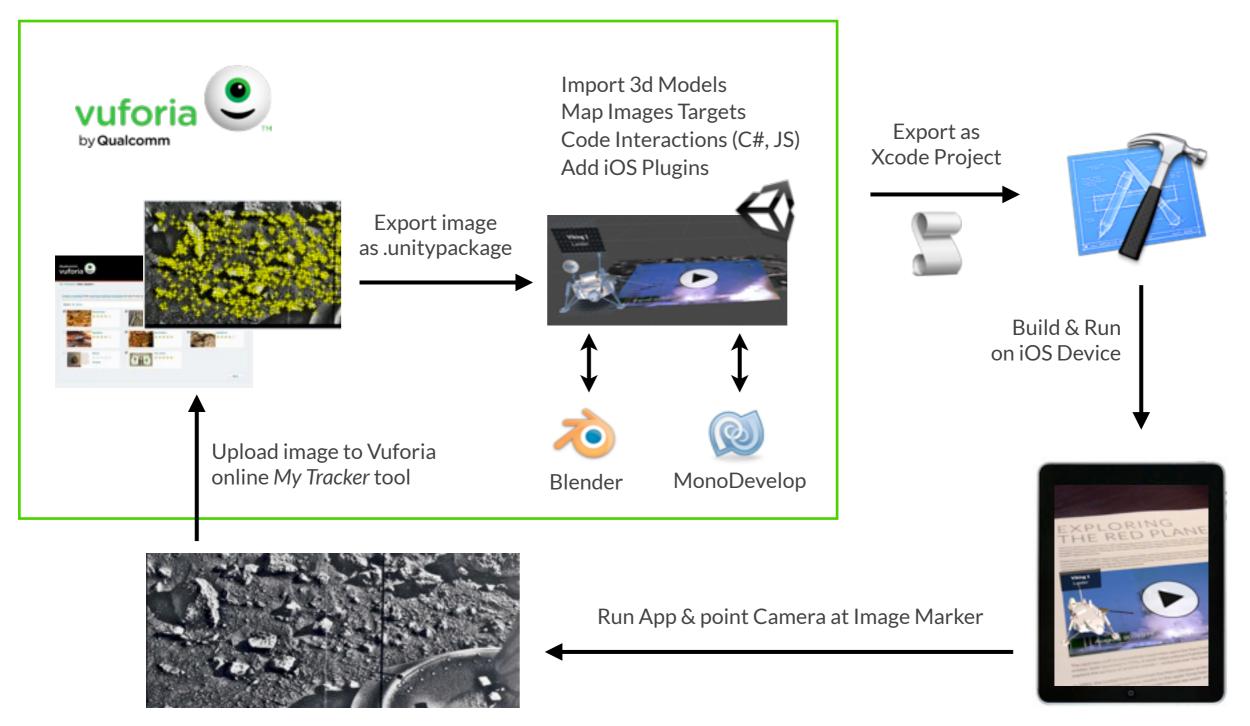


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Vuforia/Unity Workflow



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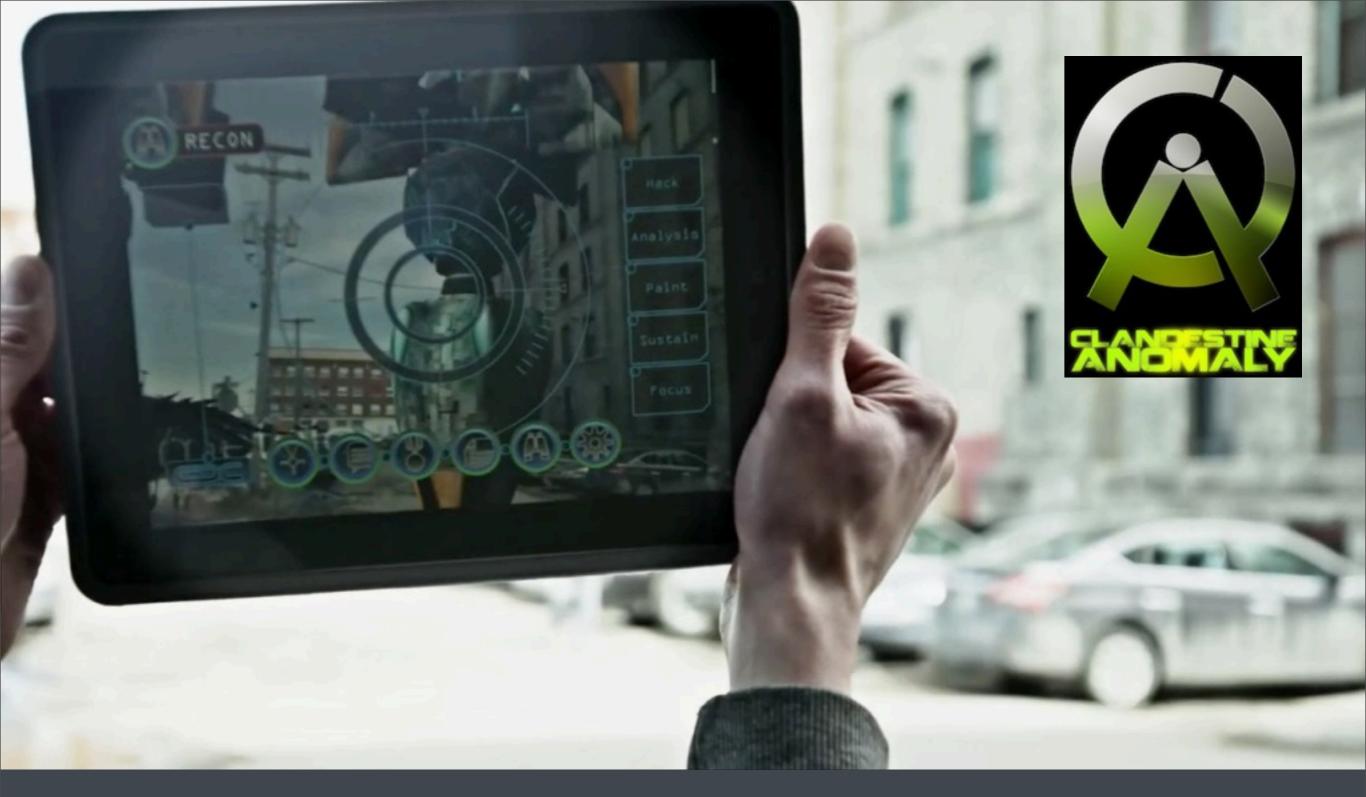
Current State

How are developers & brands leveraging Augmented Reality?

OPPORTUNITIES

- Real World Gaming
- 3D Visualization
- Product Promotions
- Immersive Gameplay

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Real World Gaming

G®C NEXT

GPS based games creating immersive experiences



Product Promotions



"Advertainment" games tie physical & digital products



3D Visualization



some applications just work better in 3D



Immersive Gameplay

G_{DC}

new mechanics for existing systems

Current State

So why hasn't Augmented Reality taken off yet?

LIMITATIONS

- Technology is in its infancy
- Brand new mechanics

- 'Gimmicky' Content
- Awkward User Experience

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Into the Future

Beyond the Box with Augmented Reality

Boxed Media

- Contained in a isolated environment
- Fixed in two dimensions (0, 0)
- Main purpose is consumption
- It's... Books, TV, PCs & Mobile Devices



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Wespend 70.6 hrs per week in The Box



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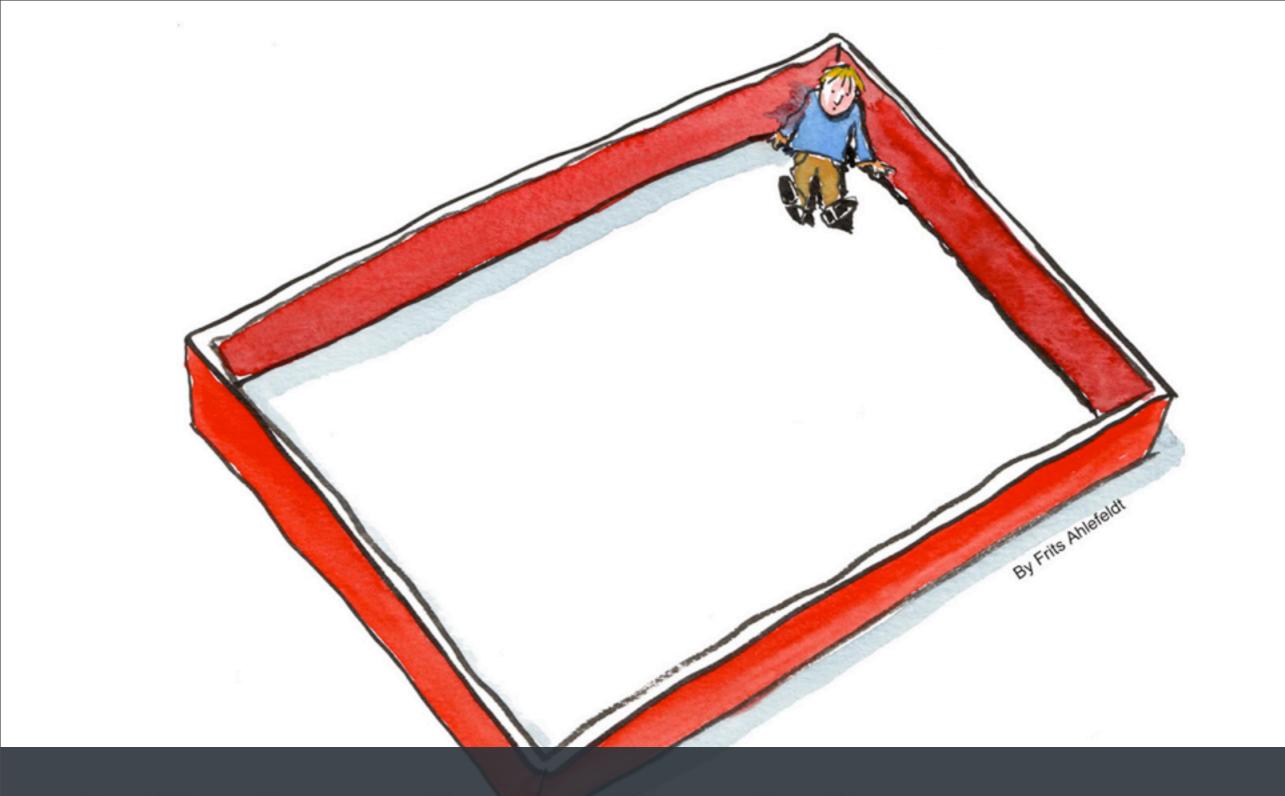
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Media & Life

still two different sides of the window



AR is the Bridge



to get us out of The Box...





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GUItoXUI

instead of looking through the window we step through it!

Coming Soon...









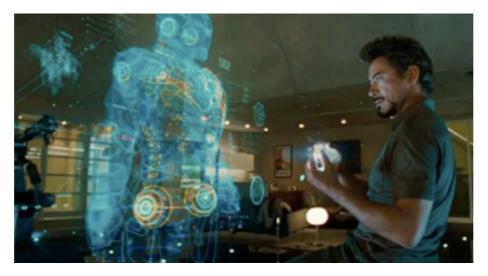








Iron Man & Minority Report!





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Very Soon...



Combining Unity, Vuforia & Leap Motion

Wrapping Up

- AR has many hurdles to over-come but is evolving rapidly
- Big brands are leveraging today's AR
 Tools to create rich experiences
- AR is the vehicle for building the next generation of games



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Thank you.

Brian Cody

info@AdvancedInteractions.com www.AdvancedInteractions.com

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