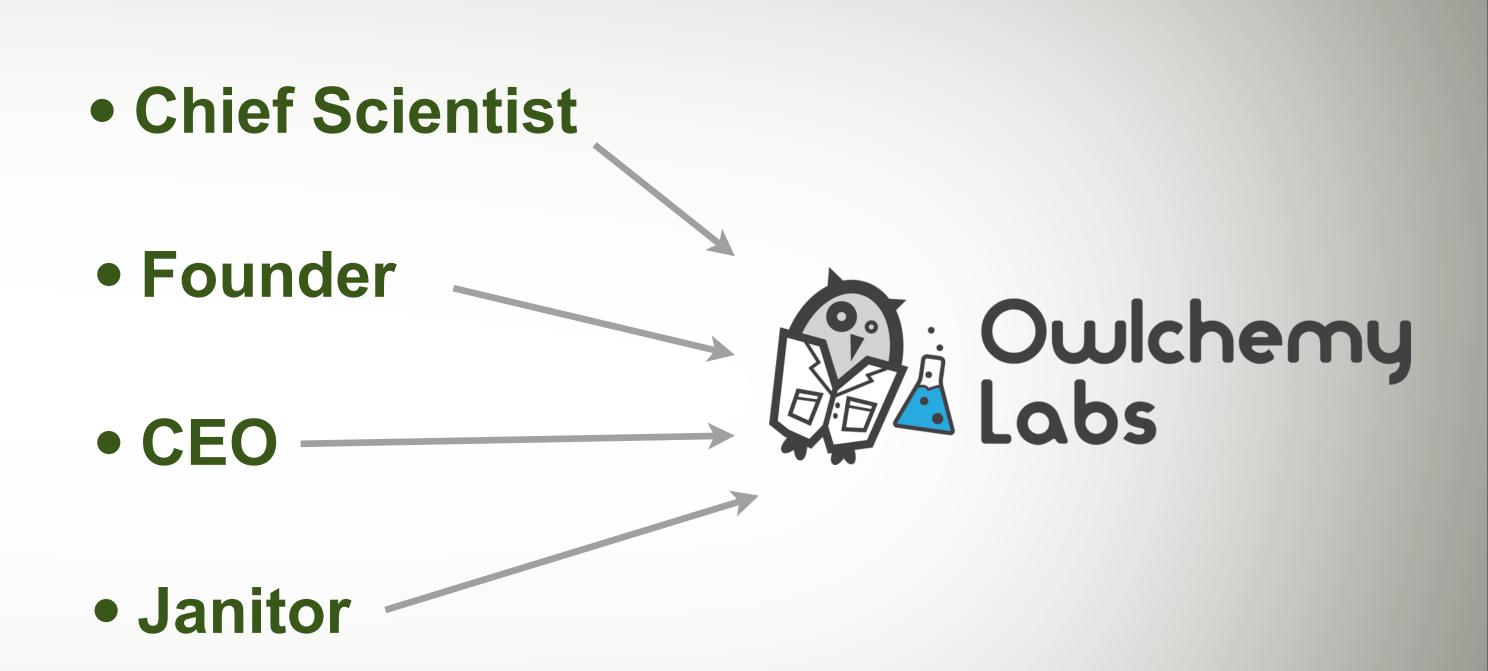


Introduction





Alex Schwartz



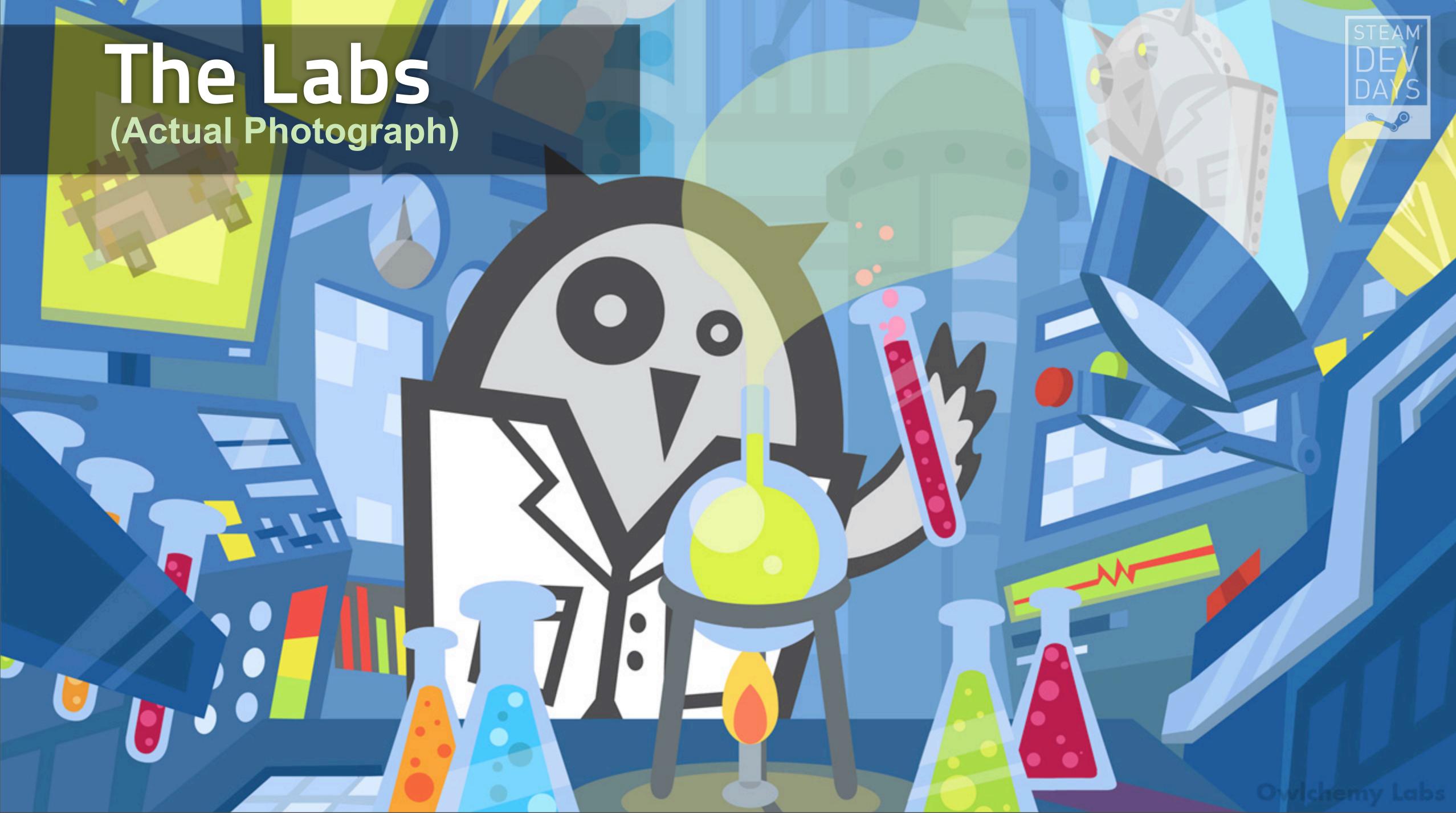
Introduction





Devin Reimer













SNUGGLE TRUCK FACT SHEET













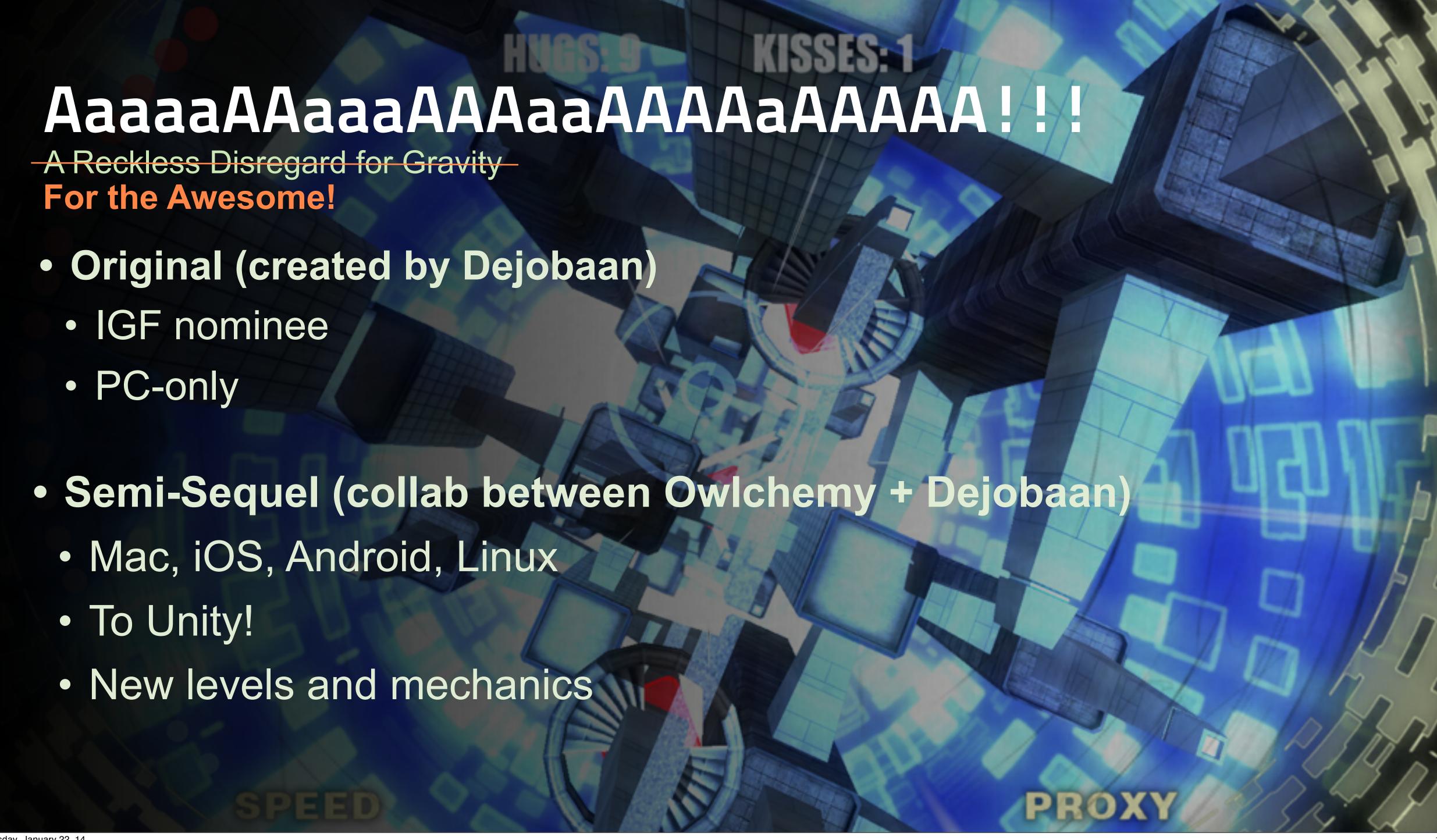












Whoa!

This game needs to be in VR!

(Oh, and the fans wanted it)



Rainbow Cage ▼ 🍑 Apr 5, 2013 @ 3:33am

Oculus Rift + Aaaaaa: for the awesome = awesome?

i think this would be pritty sweet to see if it was supported for the oculus rift. but i can also see a lot of people haveing heart attacks just trying to make there first jump.



I would buy a Rift just for this game.



This game will truly be a vomit comet if it gets Rift support. That will be both beautiful and terrifying.



Barfing never felt so good.



Thread: Games you wish to play with Oculus Rift

07-02-2013, 10:33 AM

TomxJ o

Network Hub

Nov 2011

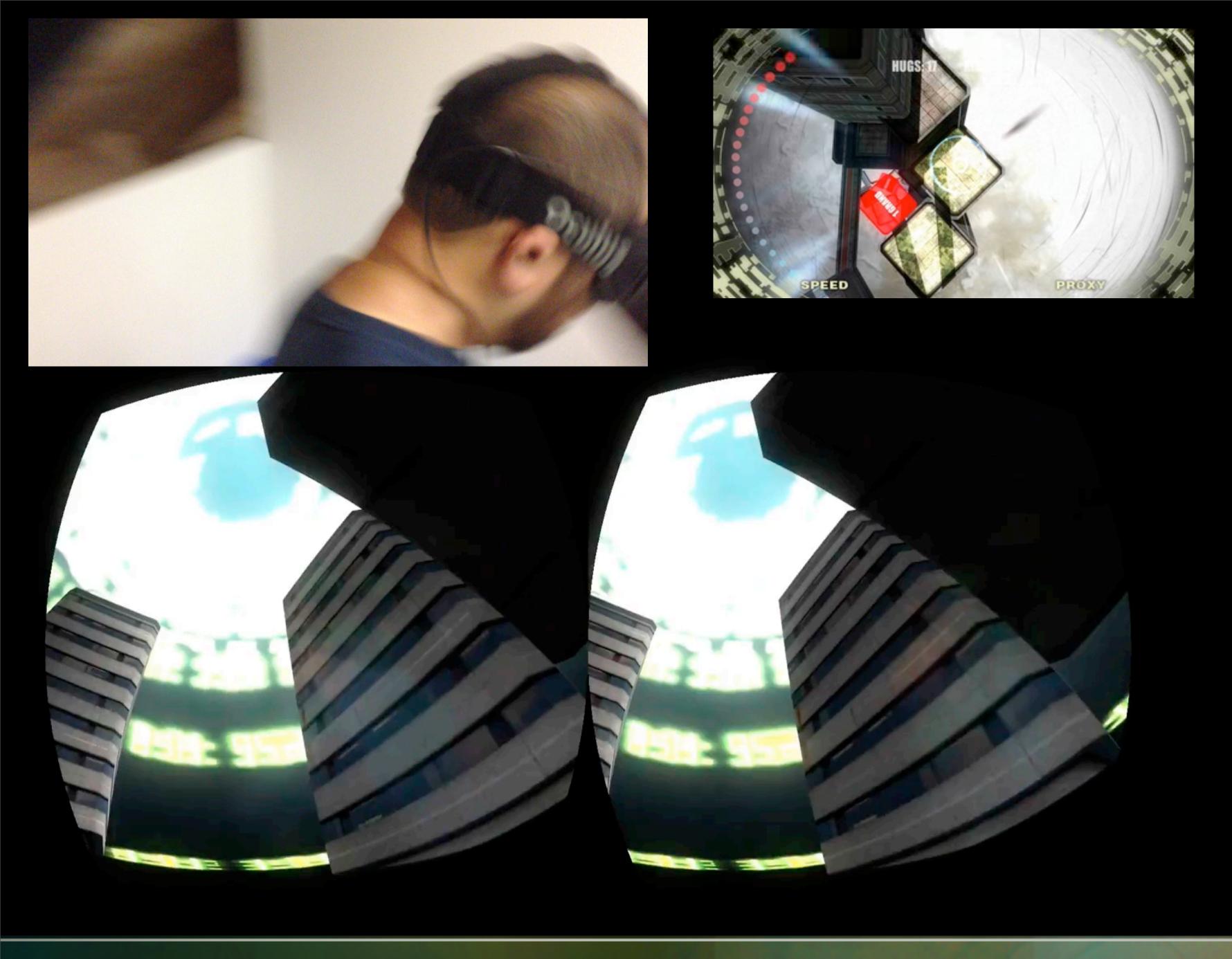
- · Slave of God
- Souvenir
- AAAaaaaah! A reckless disregard for gravity

14

- Mirrors edge
- Portal 2

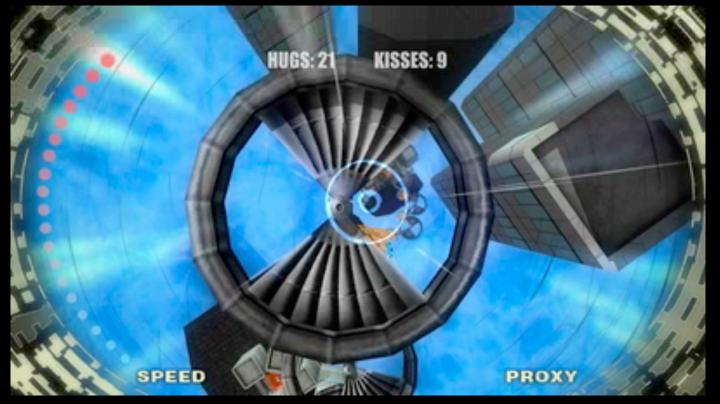


games like Mirror's Edge, Skyrim, Half-Life 2, Portal 2, are working with the VR goggles... As is falling death simulator AaaaaAAaaaAAAaaAAAAAAA!!!, in case you're feeling















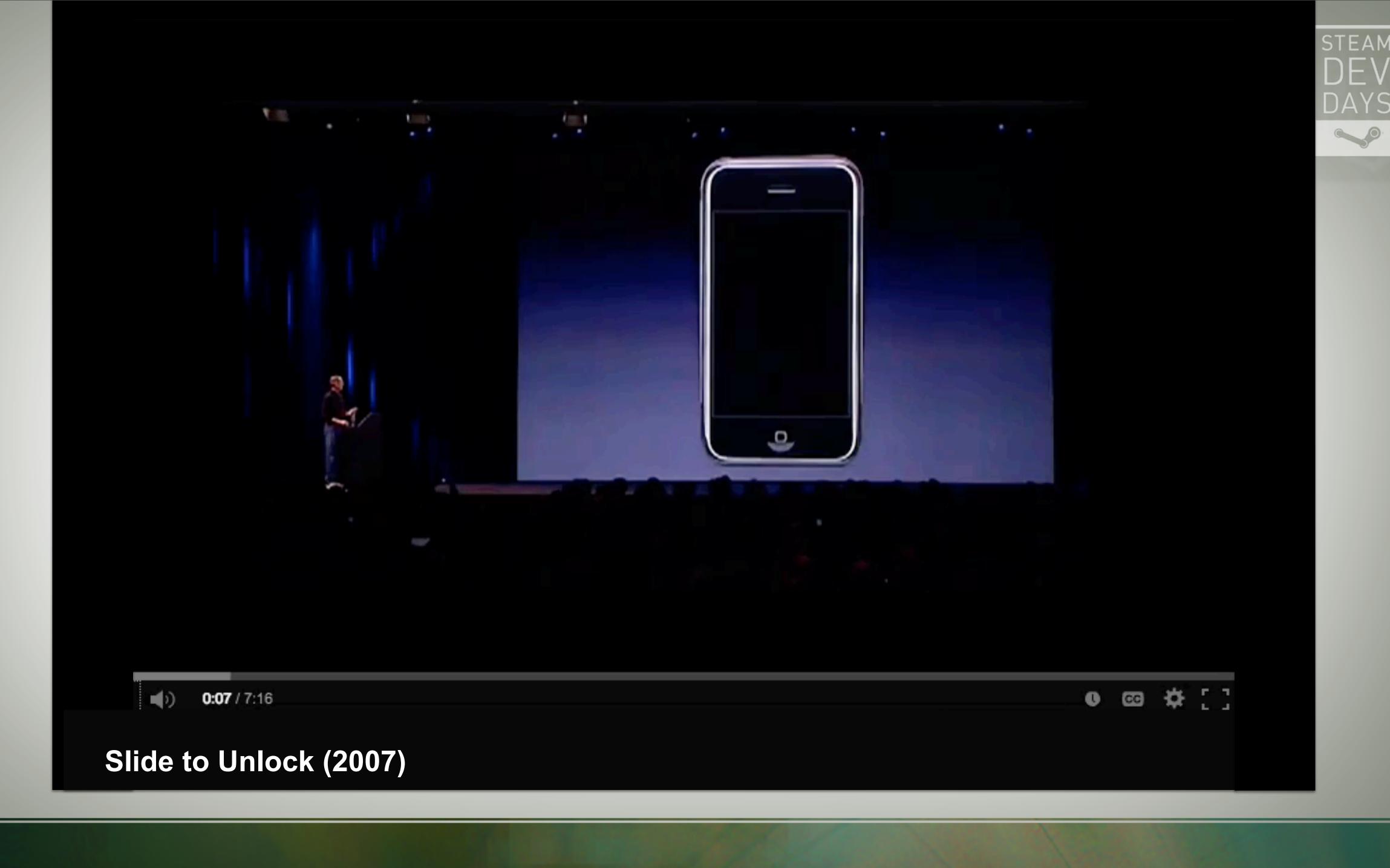


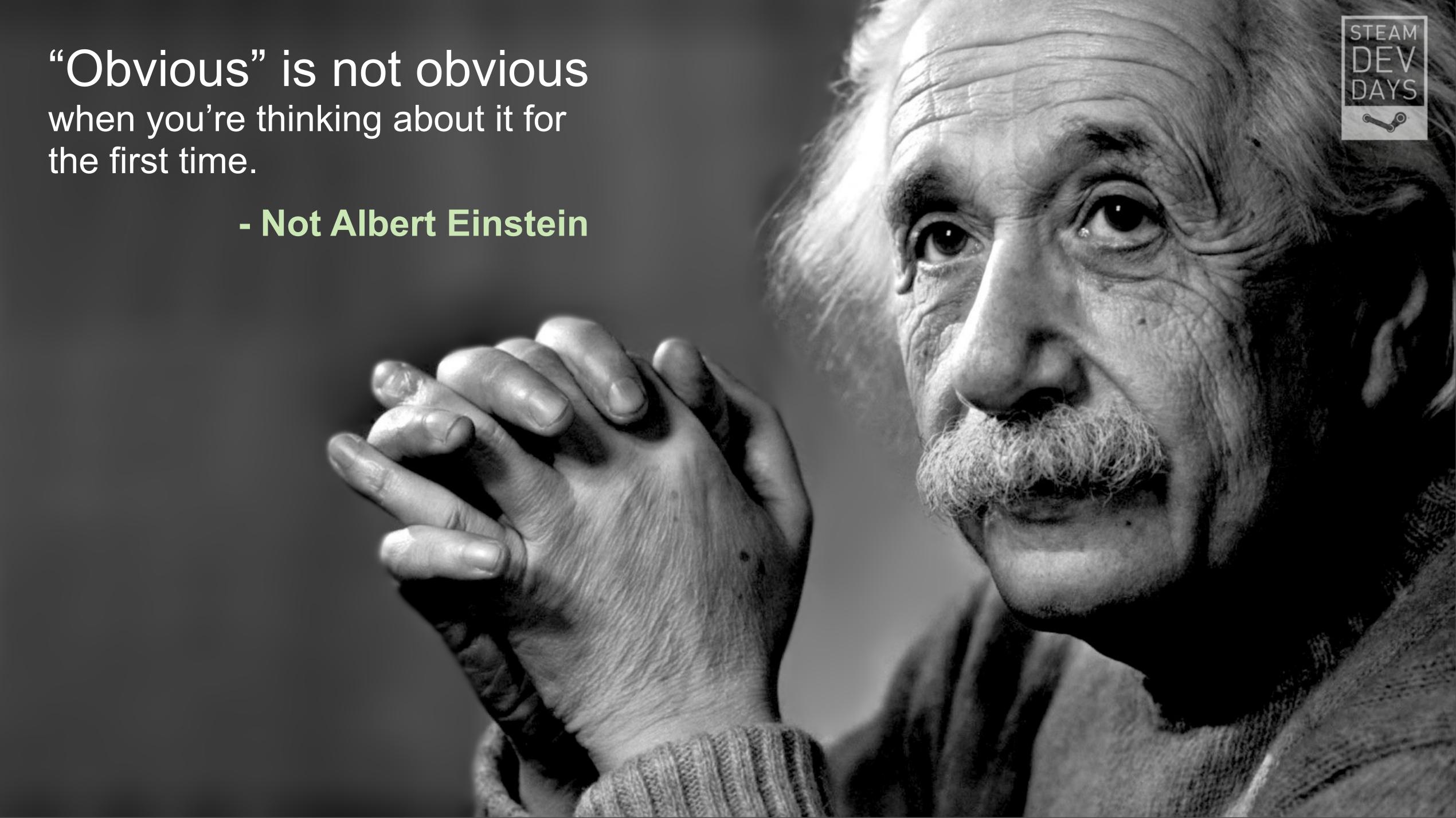
The rules haven't been written



Helpful to look back to an earlier time...

The last time the rules were unwritten

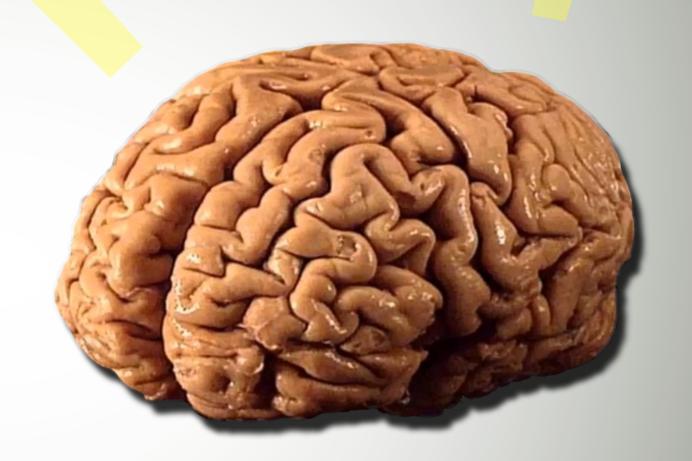






What we learned so far

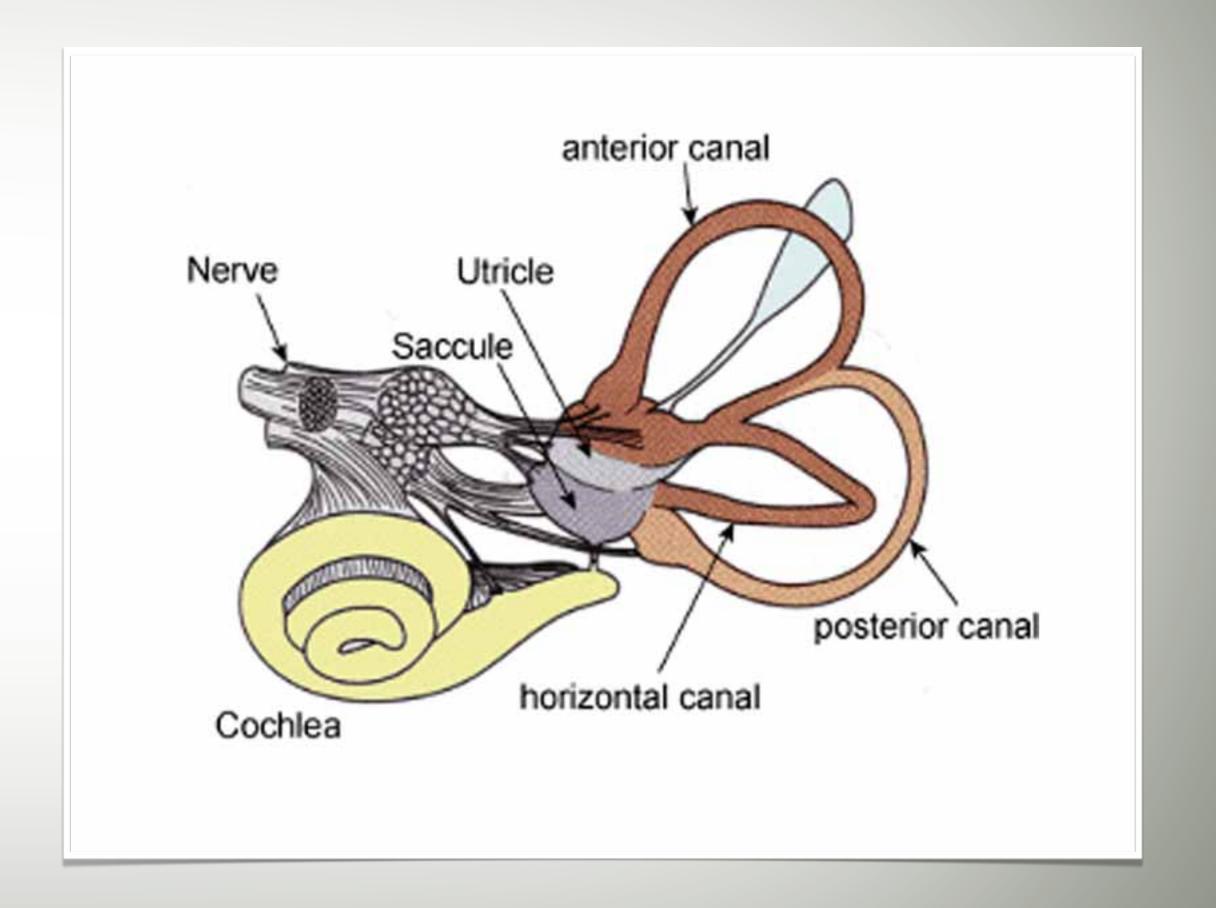
What wasn't obvious?



VR Motion Sickness



"Disagreement between visually perceived movement and the vestibular system's sense of movement."



VR Motion Sickness - WHY?!



Evolutionary purpose: Notify you of hallucinogenic

Those who feel it strongly Better evolved



VR Motion Sickness - WHY?!





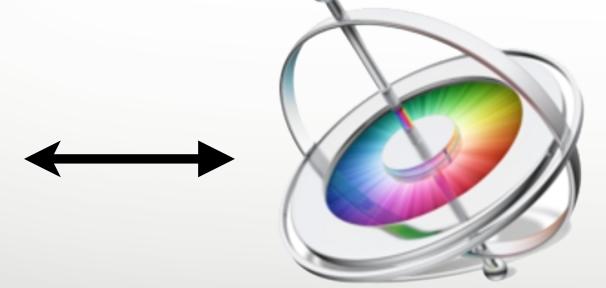


Actual Motion

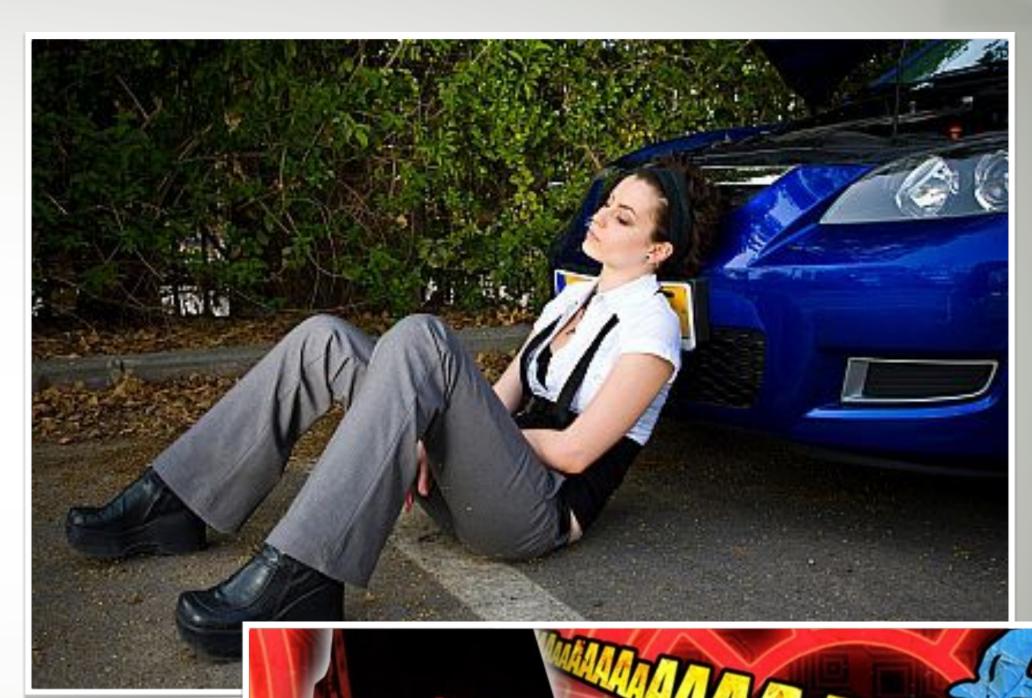
Perceived Stationary



Perceived Motion



Actual Stationary



VR Motion Sickness - Results



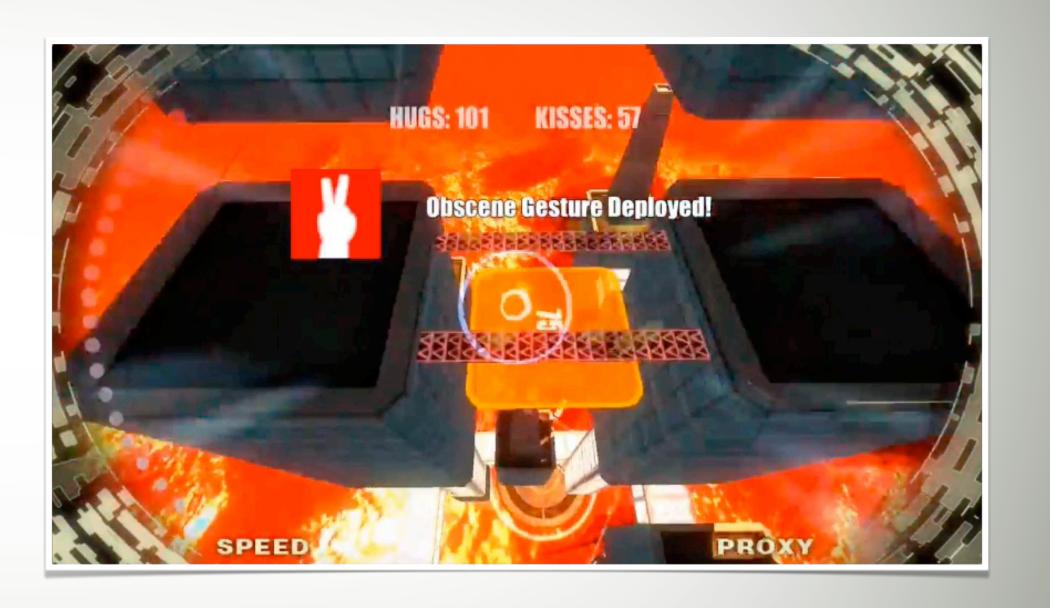
"Diving off buildings in VR is surprisingly pleasant and not nausea inducing!"



The camera angle is sacred



- Moving cam when user hasn't requested :(
 - Cam tumble at the end of round
 - Smacking buildings
 - Shake when deploying parachute



The problem with a game about falling

STEAM DEV

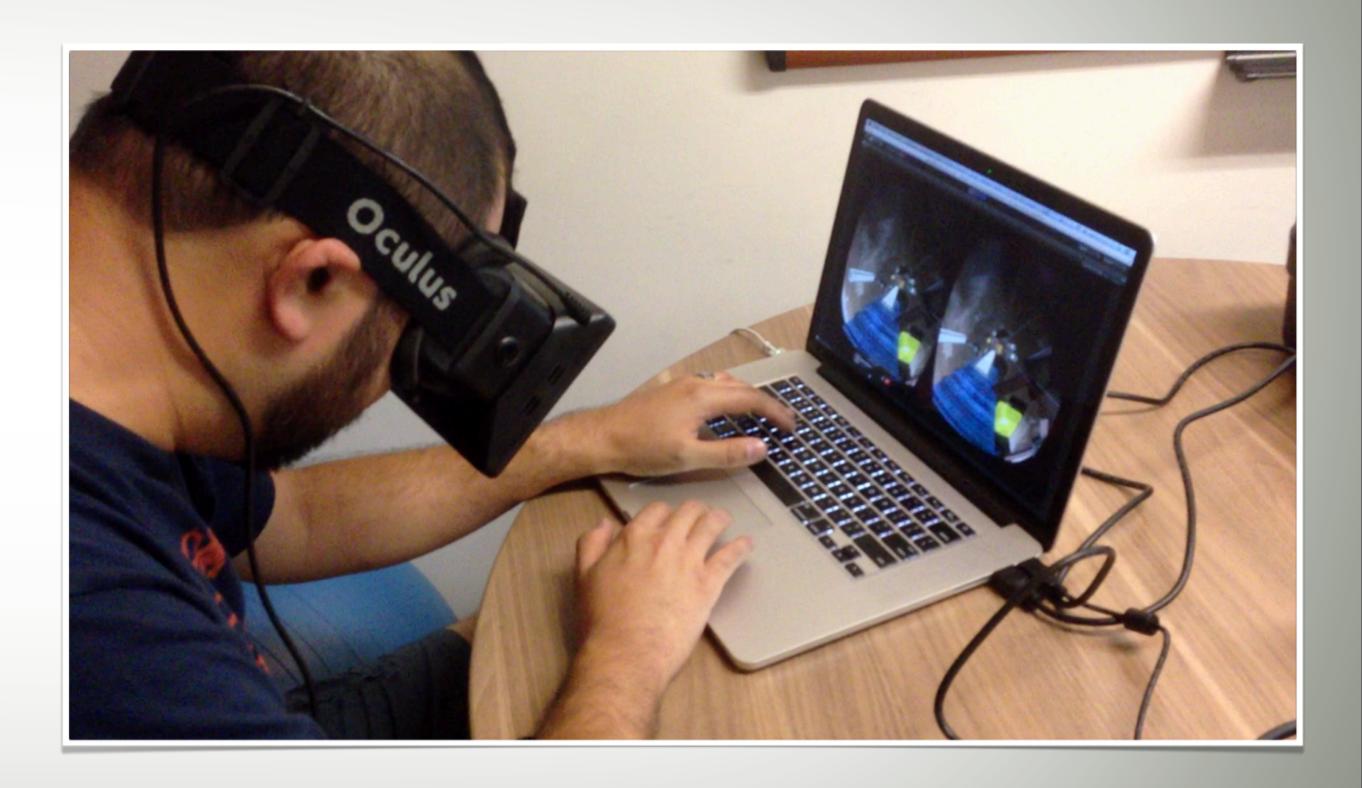
- Standing on a roof vs falling
- Looking straight down
- Neck pain!



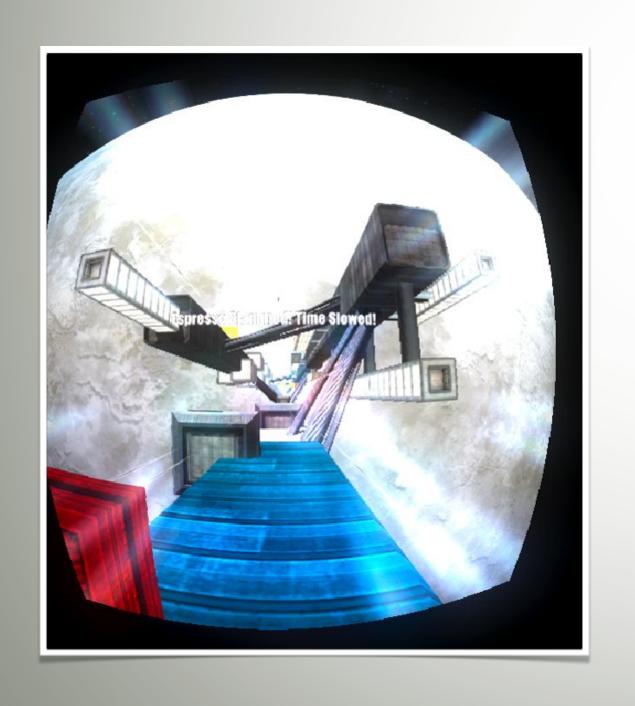
The brain can be tricked!

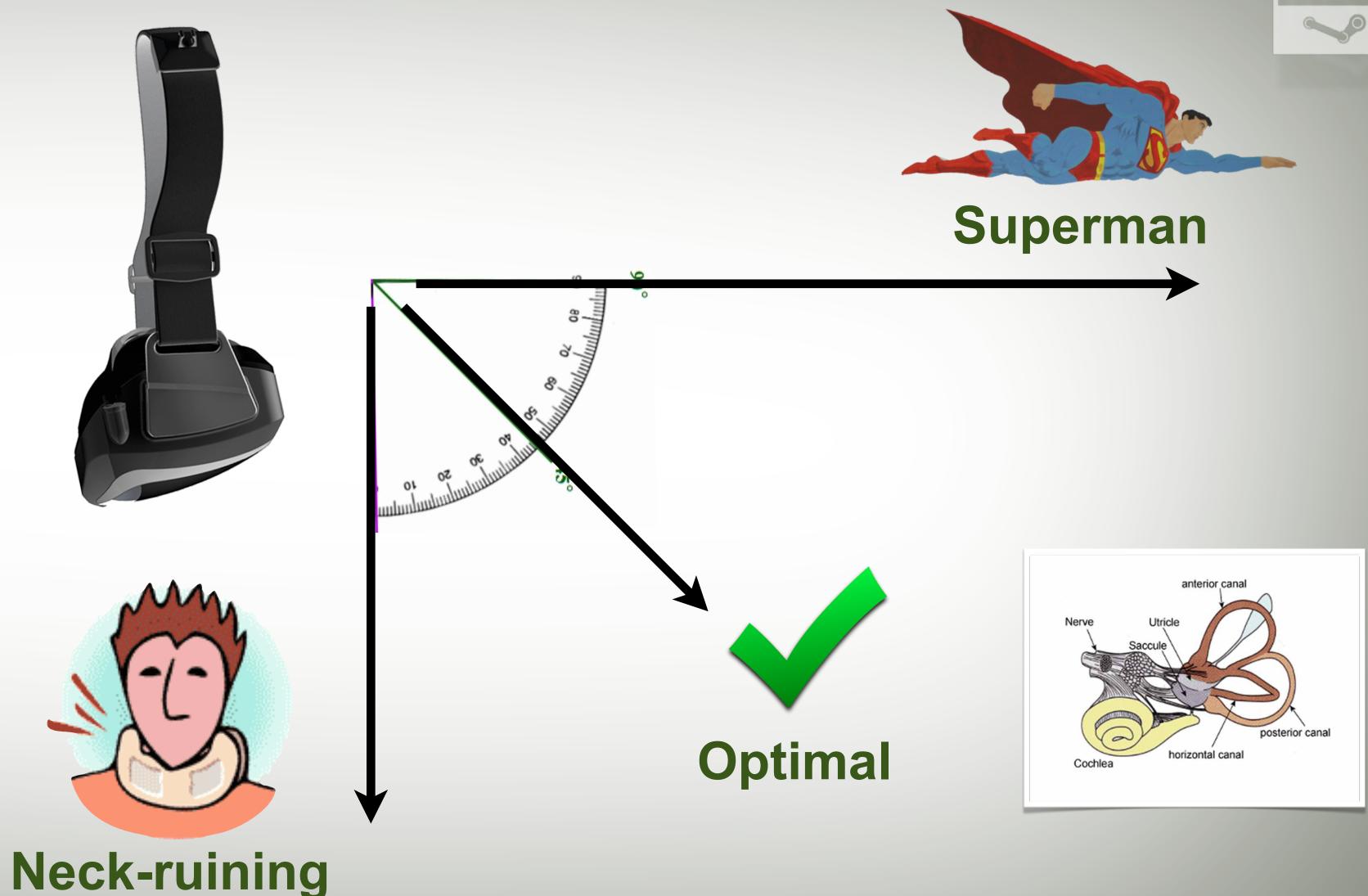


 You don't have to look straight down to feel like you're looking straight down



The brain can be tricked!





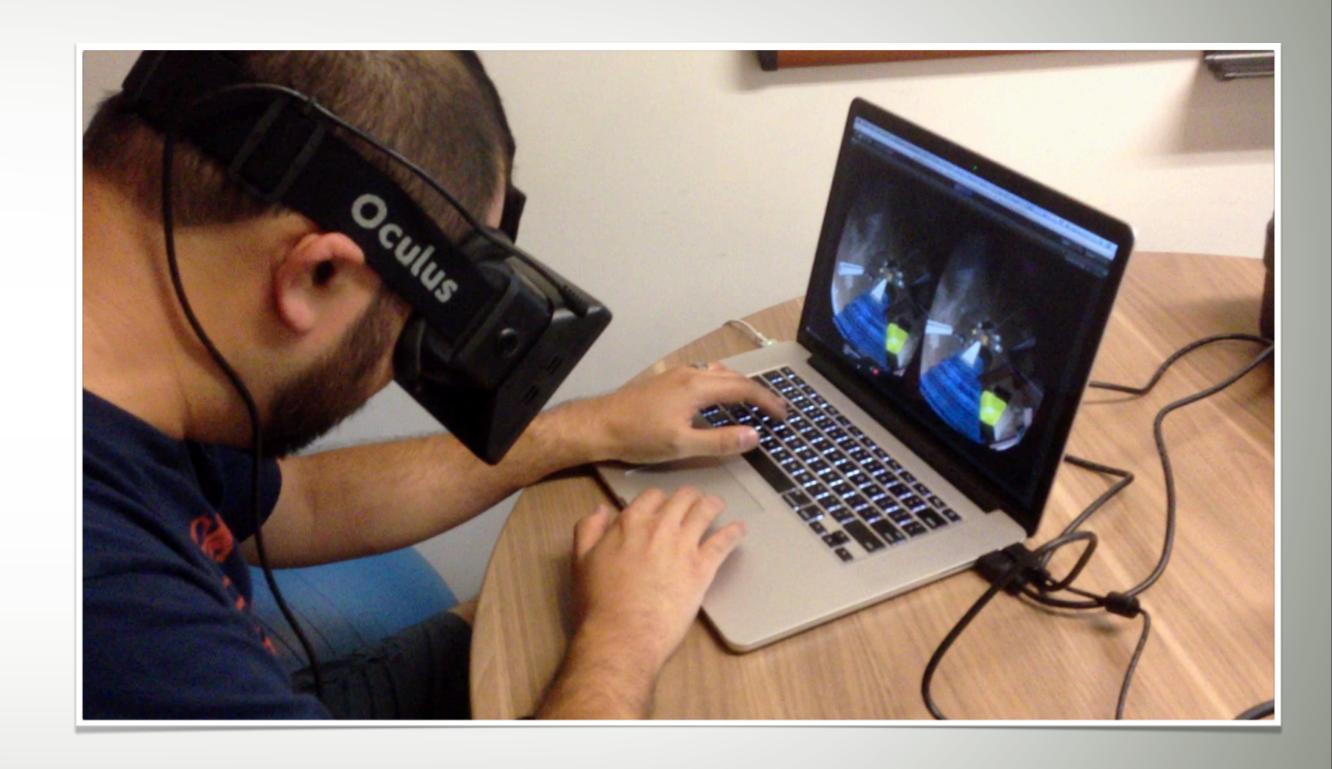
VR Legs



Dean DeJong: "VR Legs"
Tolerance over time

Watch for fallacy

"My game isn't that hard now that I've spent 7 months testing it!"



User Interface - Menu





User Interface - Menu





User Interface - Menu







Menus are hard.



Centered render texture

(Aaaaaculus!, TF2, etc)

Good for porting, not so great from the ground up

What makes a good VR menu? (Rift Racer)

3d spatially arranged menu



User Interface - HUD





User Interface - HUD





DESTROY ALL HUD!!



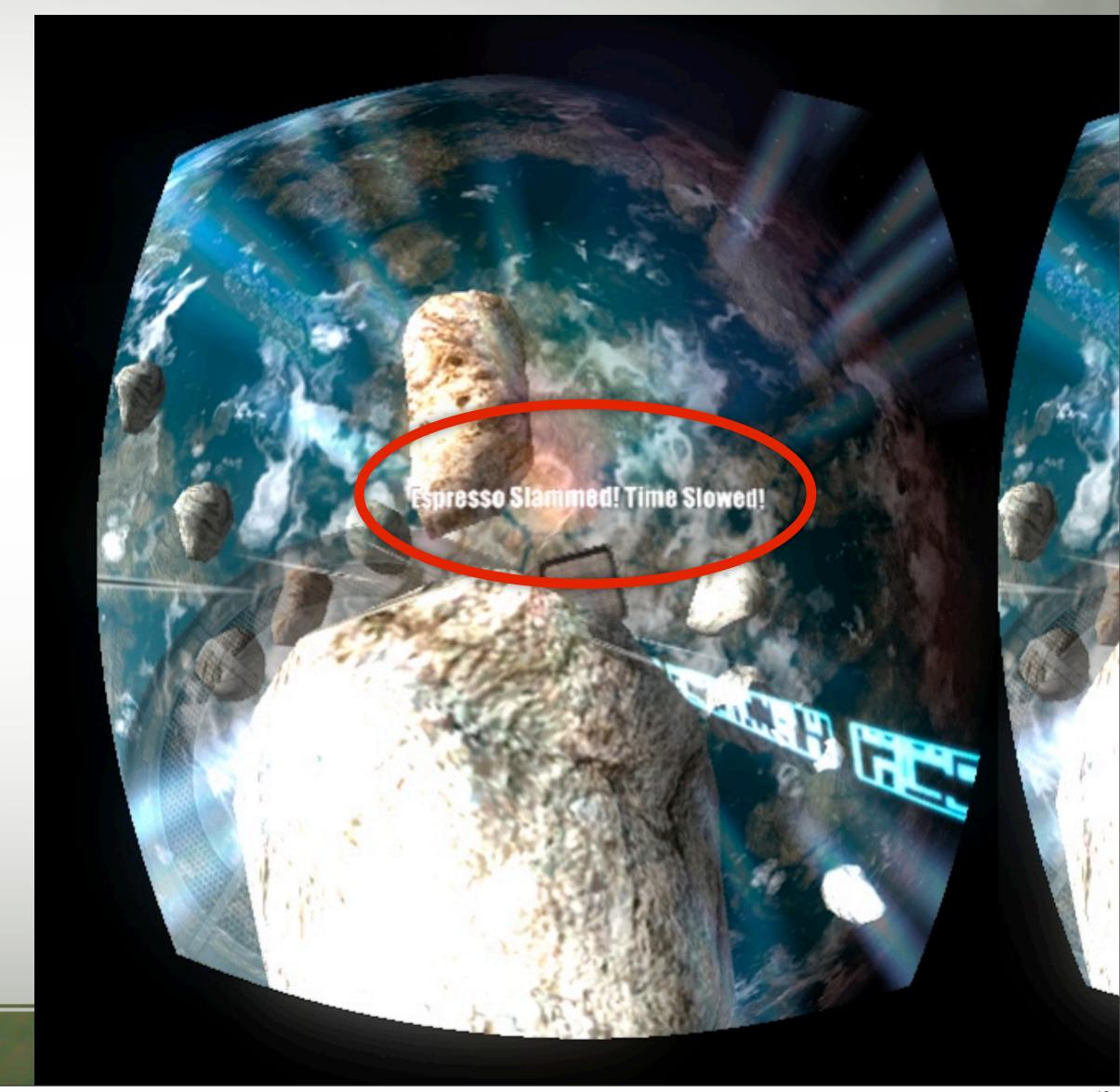
Notification messages

Front and center!

Rely on audio feedback

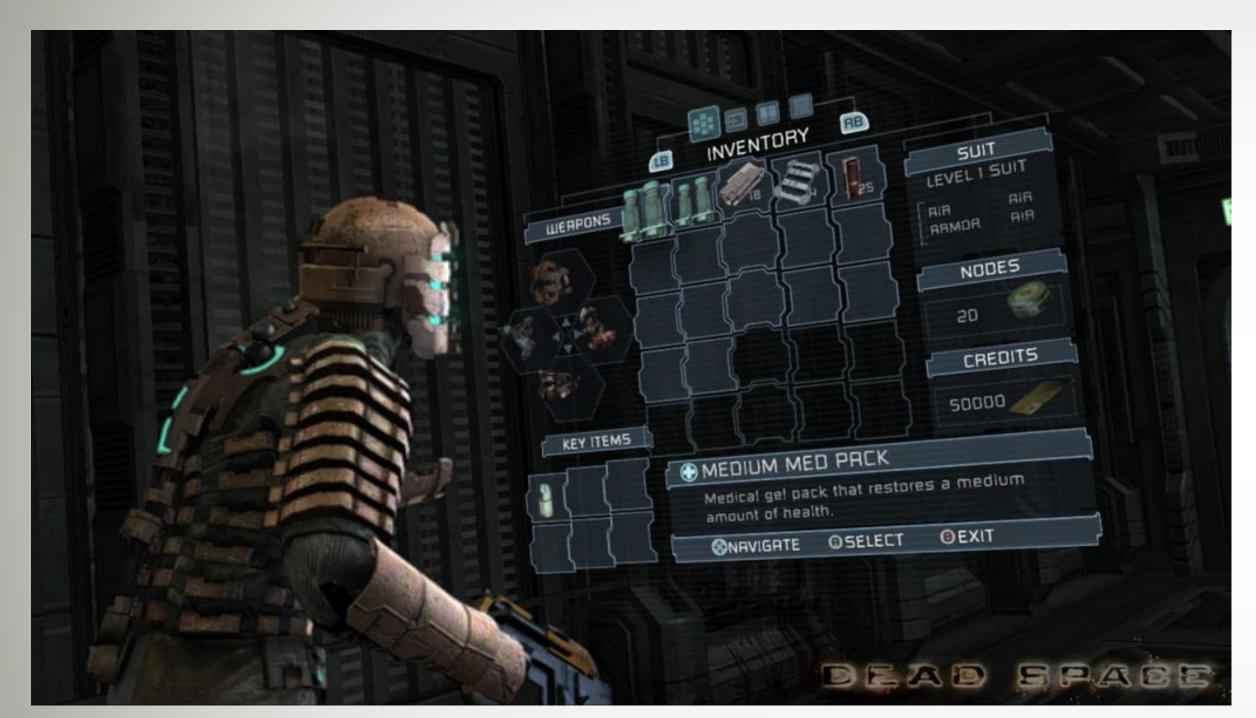
Bird strike

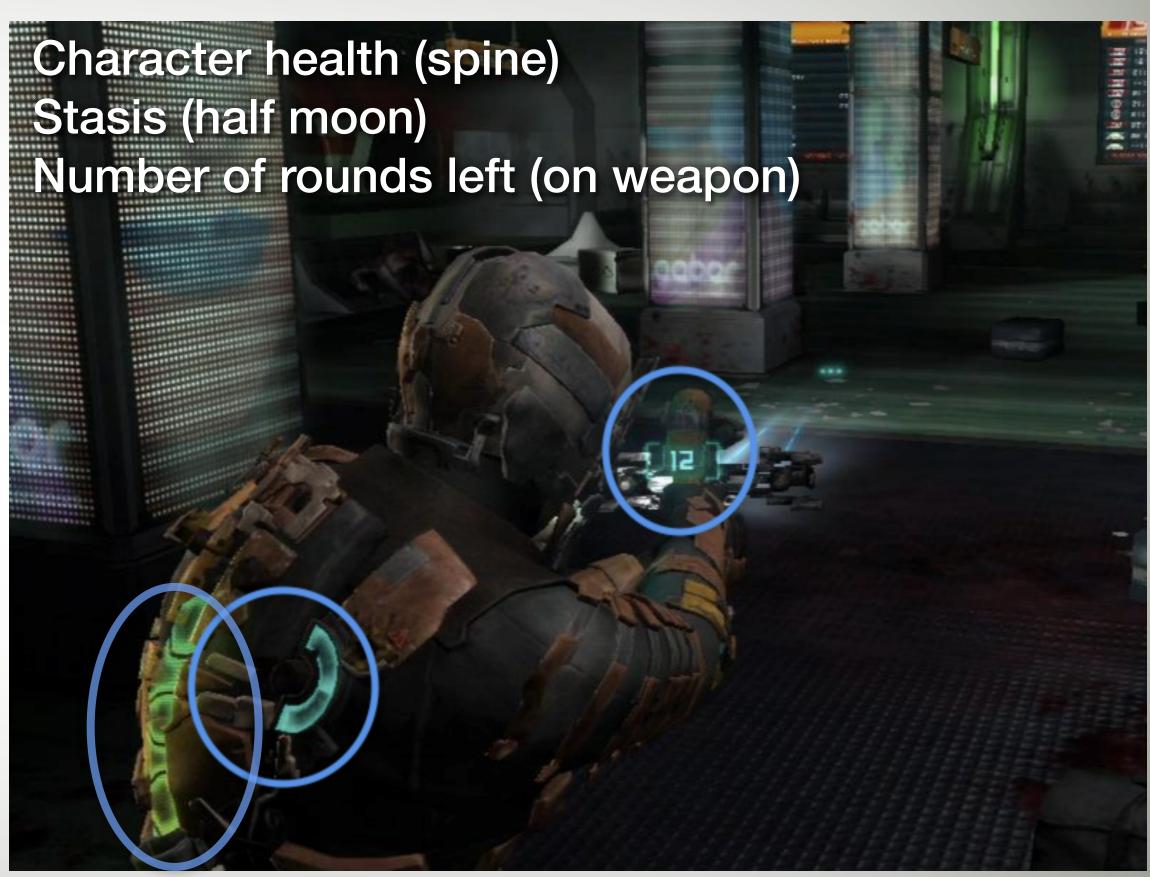
Hugs and Kisses



Contextual UI is always better







3D in-game representations (3d tooltips)

Controllers are essential in VR



Finding WASD while in
 VR = terrible!

Controllers!





Not all about players

What about Devs?



Development in VR can be hard

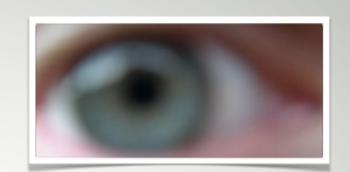


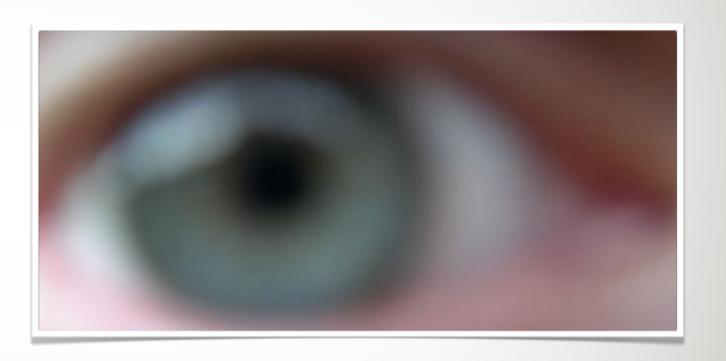
Switching contexts is tough

- Rift on, Rift off
- Tough on the eyes!
 - Especially with glasses



Headache central!



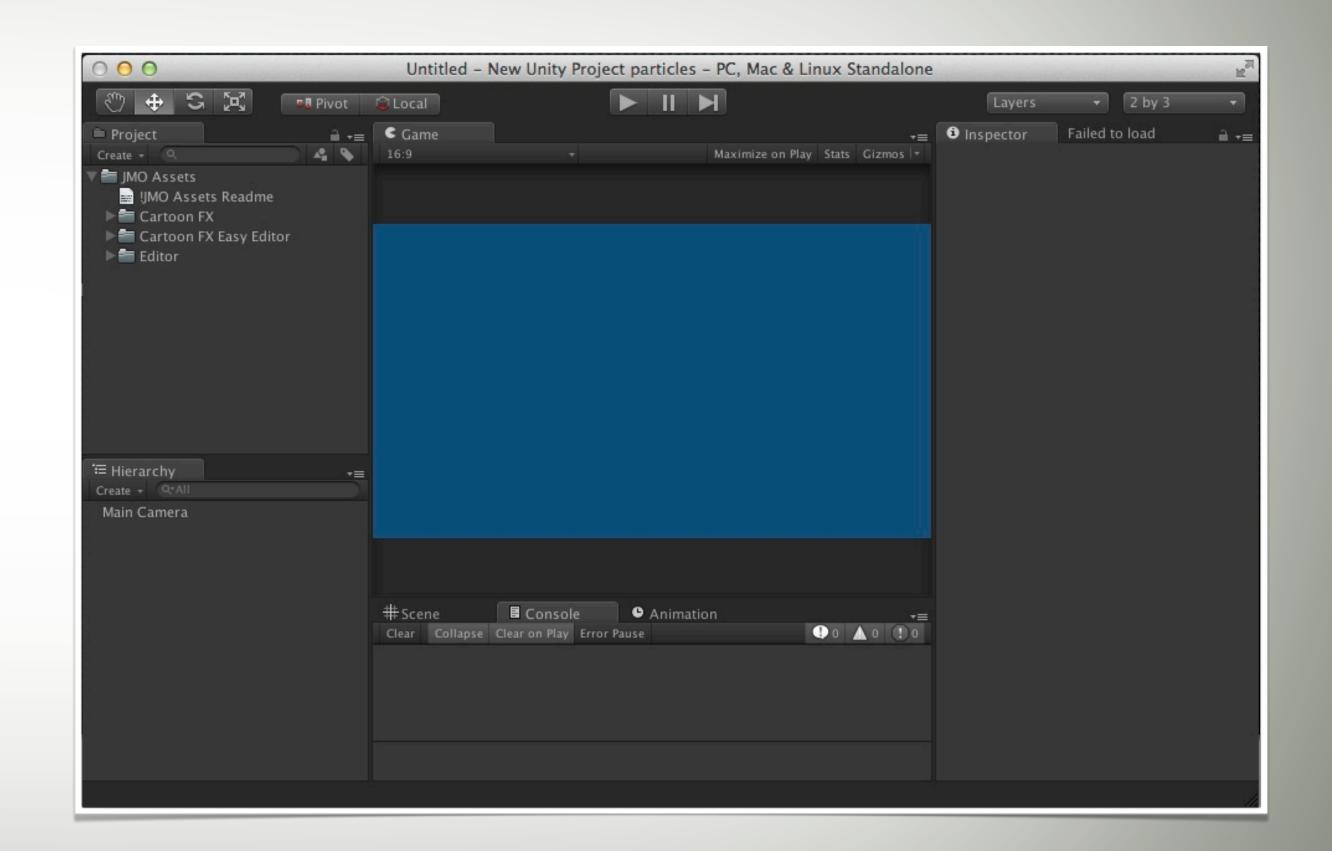




Development in VR can be hard



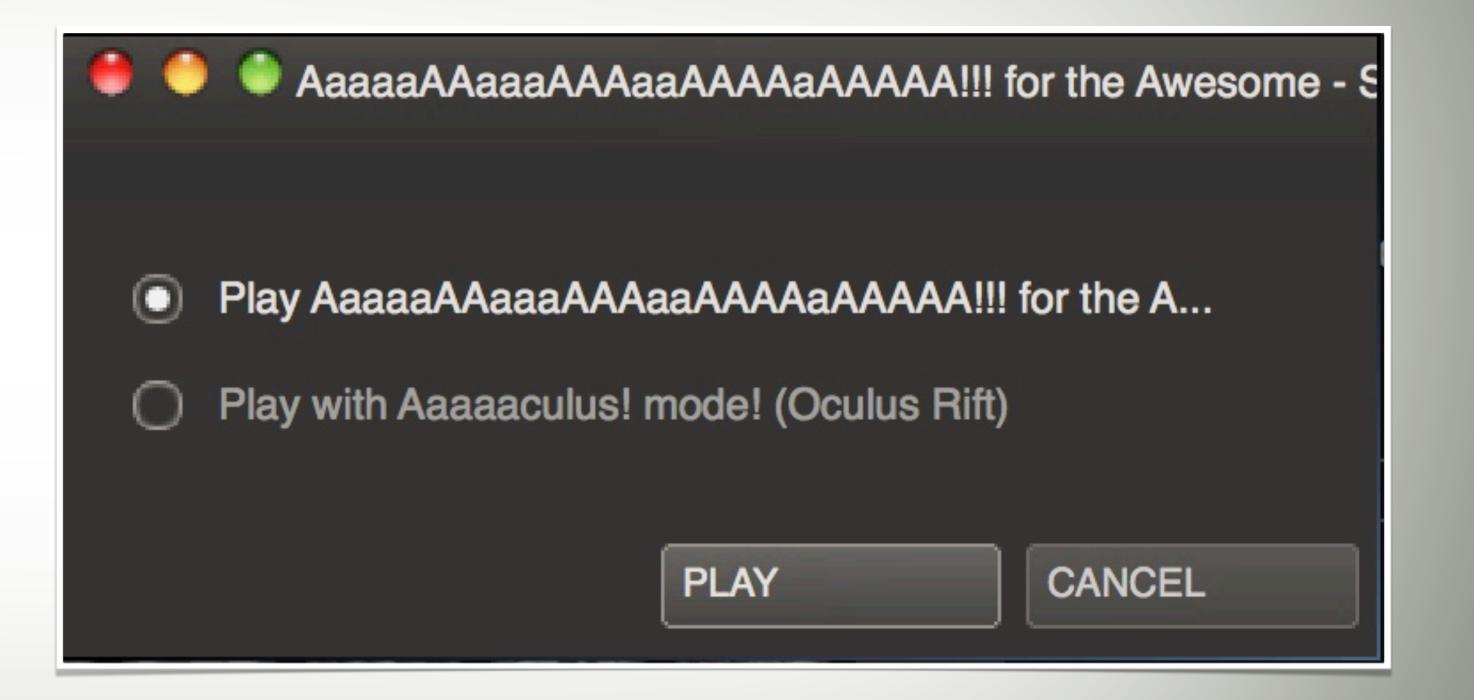
- Unity Editor "Maximize" is not full screen
 - Try to test standalone builds



Development in VR can be hard



"Enable VR" option in-game



VR Setbacks At the time of Aaaaaculus! dev Present day



- Less friction
- Playing and Buying VR games
- Support requests for Aaaaaculus!
- Resolution / Display
- Motion blur
- Latency
- Positional head tracking



Back in my day... We developed uphill both ways!



All that's left:

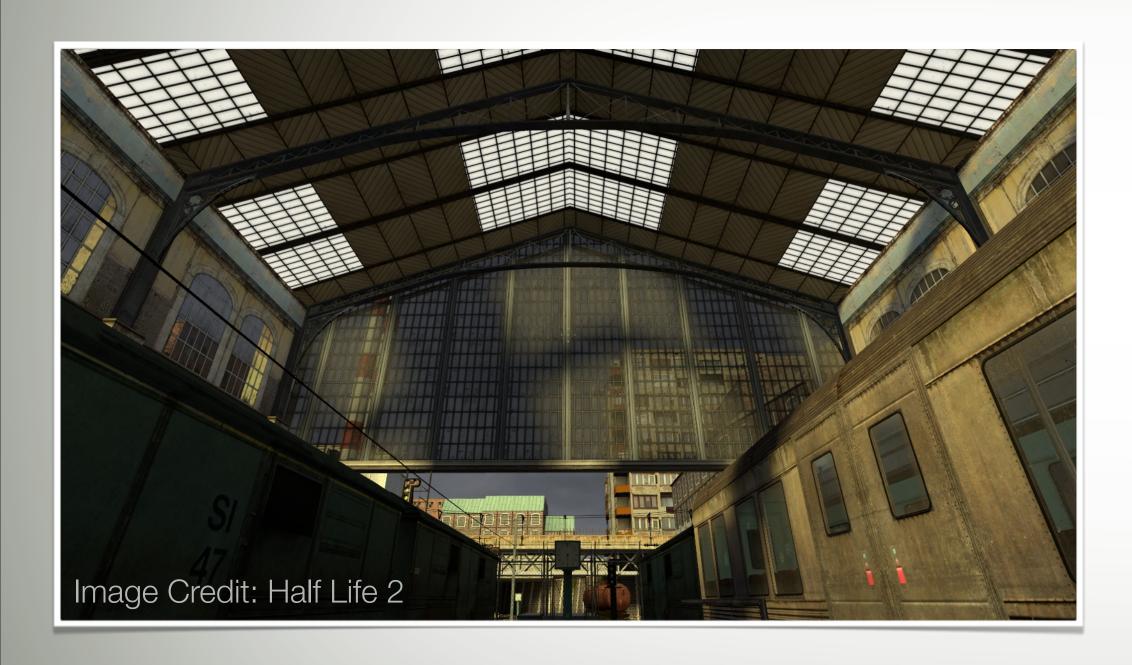
Building games that are perfect for VR



What genres will flourish with VR?

Exploration Games







Racing Games







Space Combat Games







Horror Games

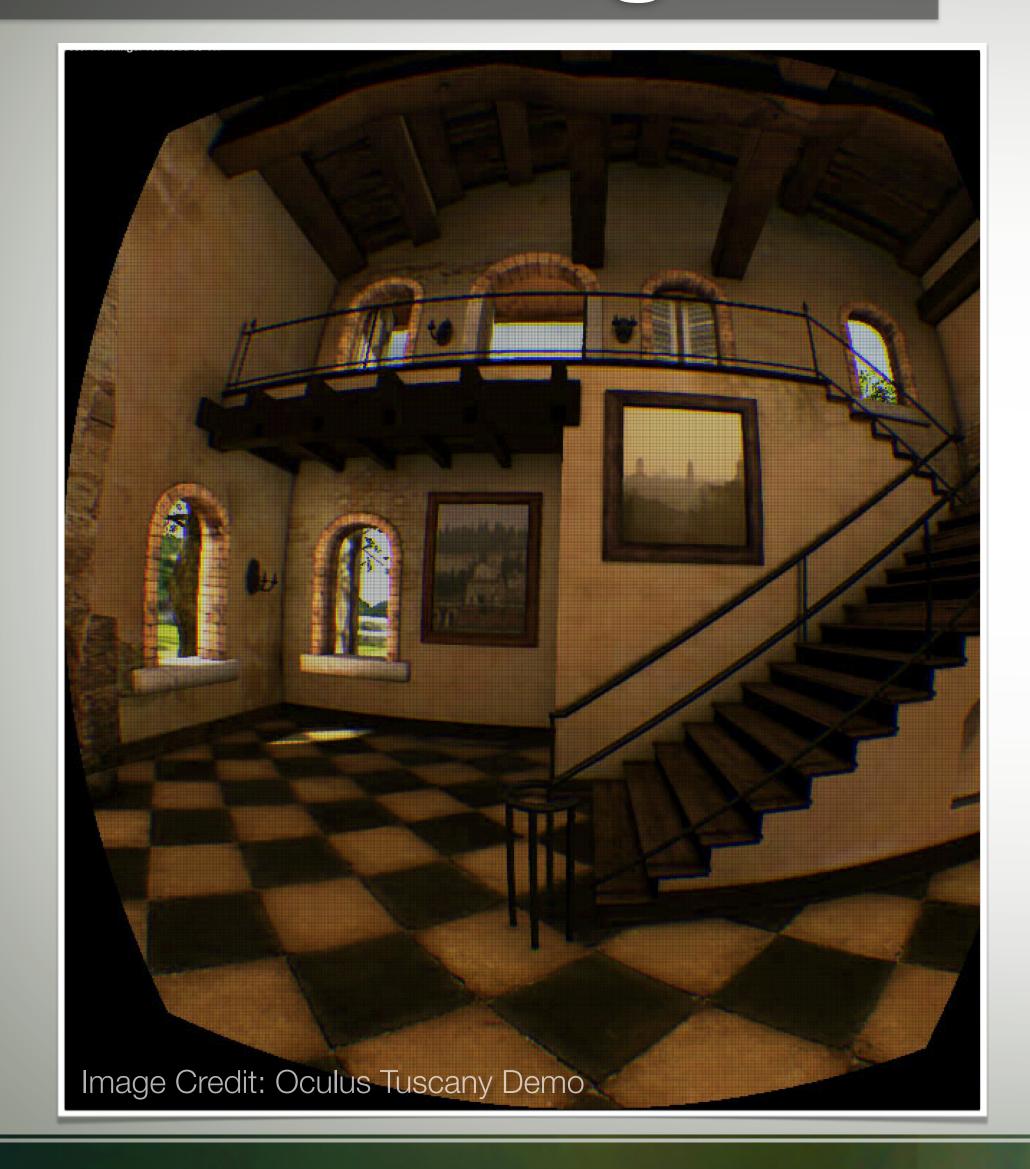






FPS-Reimagined

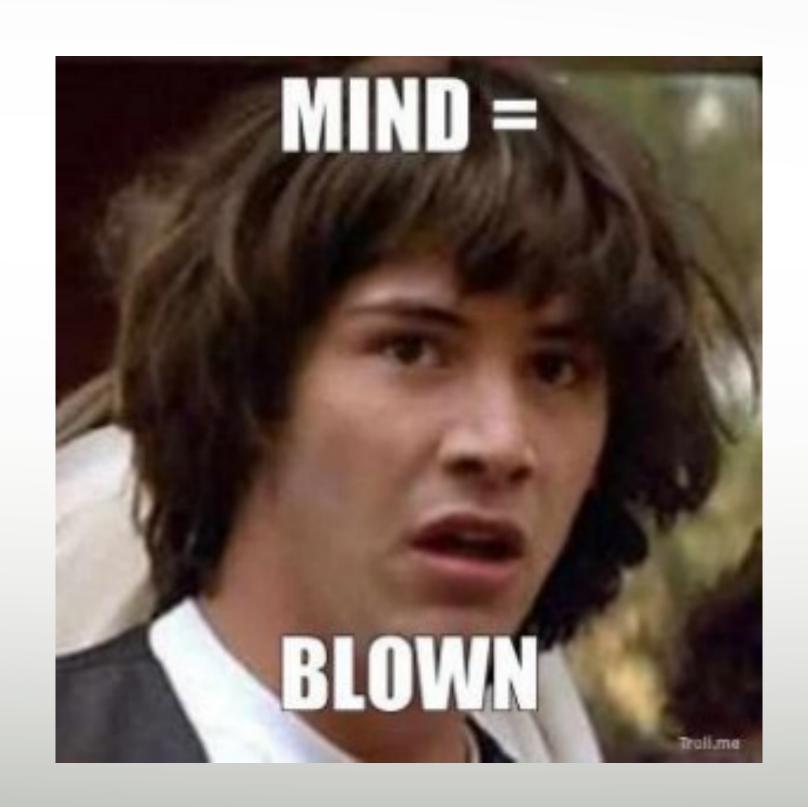








What genres don't yet exist that would be great with VR?







FULL GAME available now on



Thanks!

The Wild West of VR

Lessons learned with Aaaaaculus!

We're available for VR consulting!

Alex Schwartz Devin Reimer



- @OwlchemyLabs
- @DevinReimer
- @GTJuggler