VR for Google Cardboard in Unity

Challenges and opportunities

Content

- 5 W's of VR (sort of...)
- Cardboard and Unity
- Must-know of VR
 - Cybersickness
 - > U
 - Single button controller
- Future of VR?
- Cute kitten picture

What is VR?

Trick the user's senses into believing he is somewhere else.

"It's a trap!" Admiral Gial Ackbar



Where: which industries?

Mainly entertainment and education.

A whole new medium, very immersive.

Who can build VR experiences?

Everyone at a basic level.

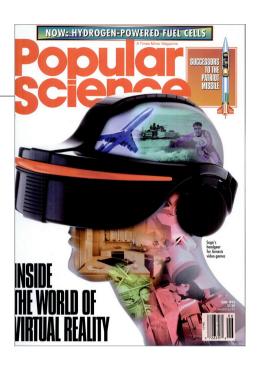
Game designers and filmmakers. **BUT** many new factors to consider.

When VR?

25 years ago?

Now!

(with a *LOT* to come...)





When VR?

25 years ago?

Now!

(with a LOT to come...)

دِ And a lot cooler





Why VR?

Because it's AWESOME!

...and opens new doors (to AWESOMENESS!)

VR for Cardboard with Unity

Why Cardboard?

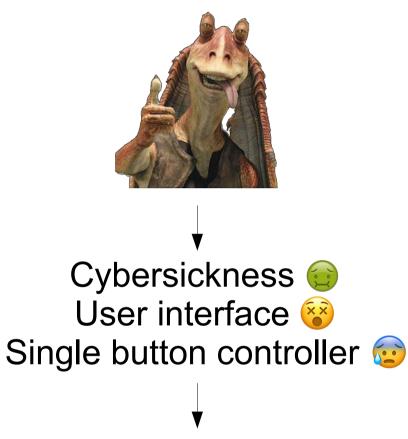
- Cheap => available for all
- > Simple
- Good enough



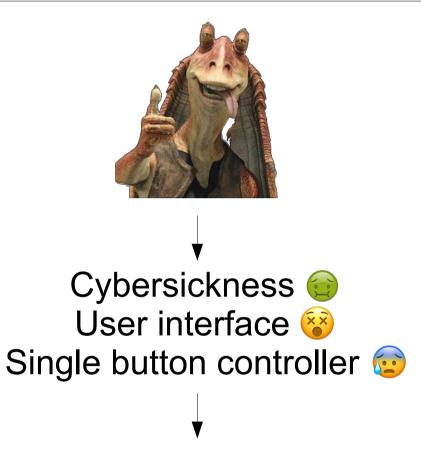
Why Unity?

- Google made a Cardboard SDK for Unity
- It's Fun to use!
- It's powerful
- It's free (until you want to monetize your apps)







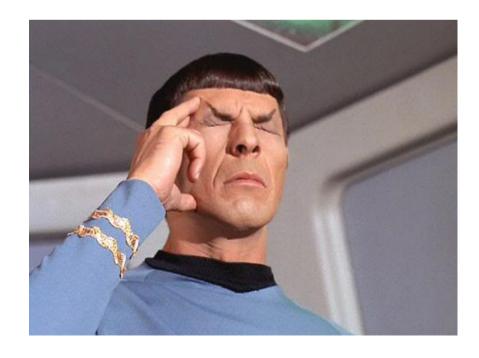




Cybersickness

- Main danger for VR!
- Symptoms similar to motion sickness (seasick, airsick...)
- Caused by sensory conflicts
- Linked to the perception of self?





Cybersickness

Common causes, the "easy ones | ":

- Low FPS
- Image latency
- Bad FOV





Cybersickness

Common causes, the "tricky ones ":

- Moving virtually but not physically
- Being moved virtually
- Will virtually moving being stop by something you don't see (invisible wall)
- Moving your head virtually (using the controller stick)
- Being physically touched by someone when you don't expect it
- Touching something physically (table, chair...) that you don't see in the virtual environment
- Someone physically talking to you but not visible in the virtual environment



Cybersickness

- Start slowly , take your time, stop at the first sign
- You get use to VR with time