REBOOTING GAME DESIGN FOR VIRTUAL REALITY



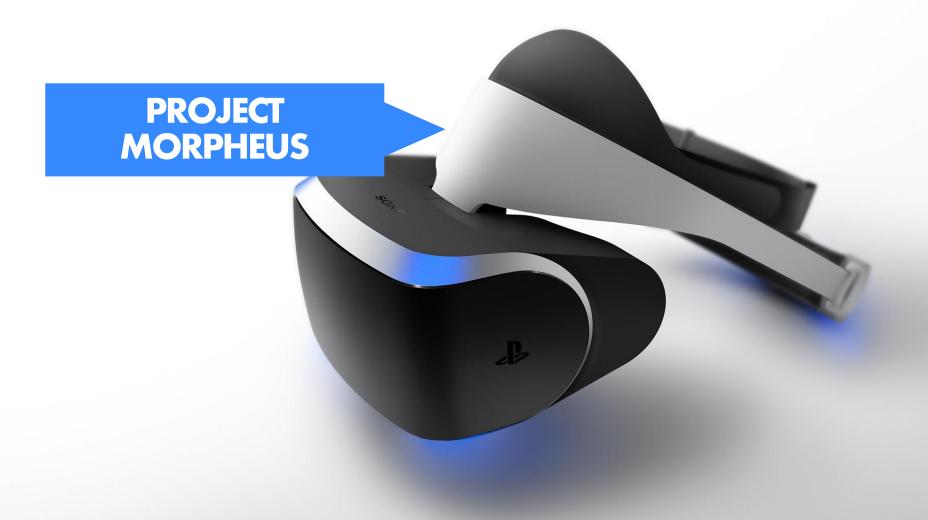


Jed Ashforth

Senior Game Designer, WWS Immersive Technology Group Sony Computer Entertainment Europe

GAME DEVELOPERS CONFERENCE EUROPE

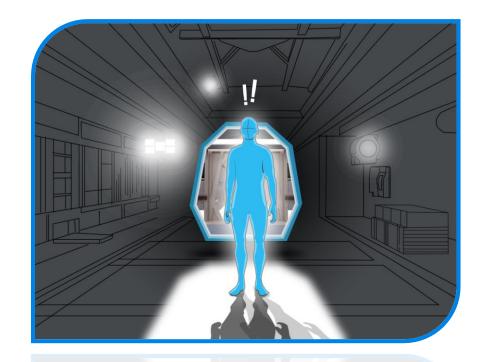
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CONSUMER VR: THE PURSUIT OF PRESENCE

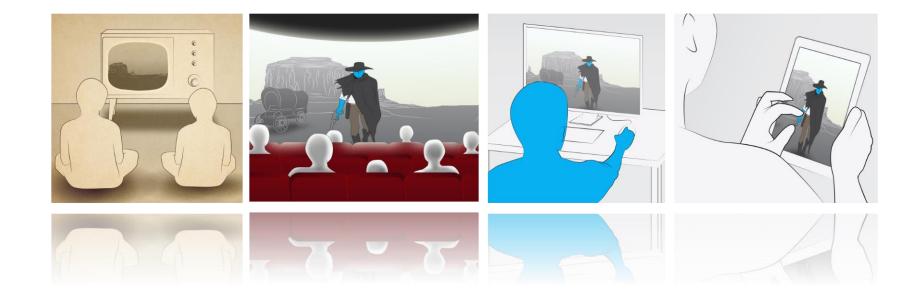
IMMERSION
DEEP MENTAL
STIMULATION

PRESENCE
BELIEVING YOU
ARE REALLY THERE

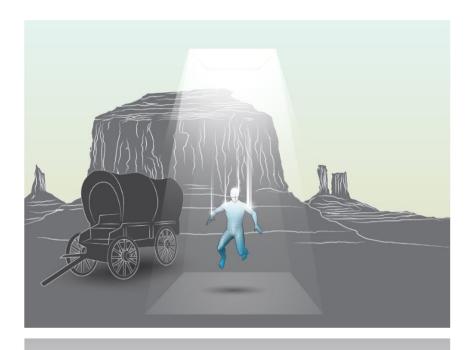




VR Represents a fundamental change in Viewpoint - This is HUGELY significant for Game Design!

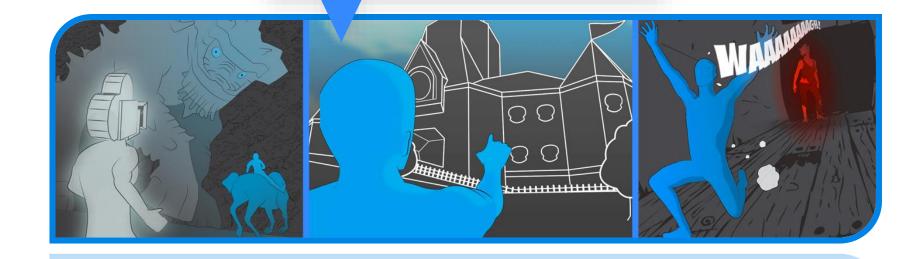


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LET'S TALK ABOUT GAME DESIGN FOR VR







GIVE THE PLAYER WHAT THEY EXPECT

THE DEEPER THE IMMERSION, THE MORE FRAGILE

MISMATCHES ARE INEVITABLE

NEVER TAKE CONTROL OF THE PLAYER'S HEAD

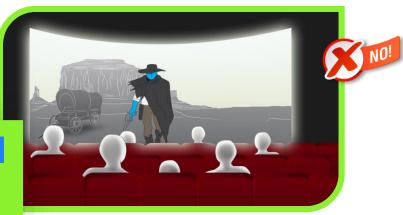
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REBOOTING GAME DESIGN FOR VR

BEST PRACTICE

WE'RE NO LONGER DESIGNING **INTERACTIVE MOVIES,** WE'RE IMAGINEERING

PLAYABLE THEME PARKS!









BEST PRACTICE

GIVE THE USER WHAT THEY EXPECT!



BEST PRACTICE

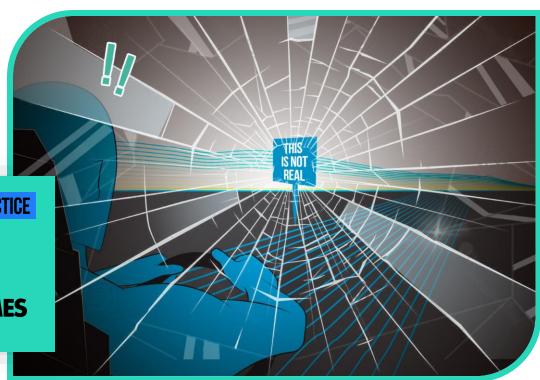
GIVE THE USER WHAT THEY EXPECT!





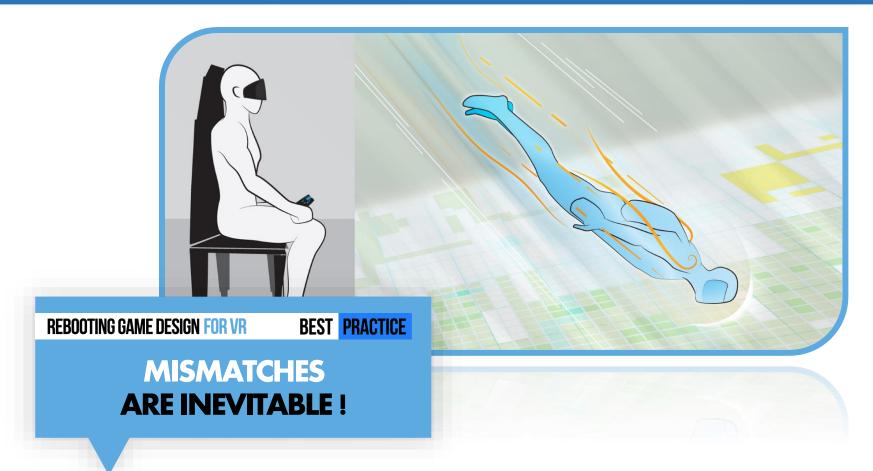
BEST PRACTICE

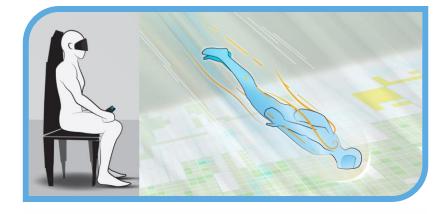
GIVE THE USER WHAT THEY EXPECT!



BEST **PRACTICE**

THE DEEPER THE LEVEL OF IMMERSION, THE MORE FRAGILE IT BECOMES





ST PRACTICE

MISMATCHES

ARE INEVITABLE!

- User's body posture may not match avatar's body posture
- User will not feel any motion cues
- Contact points with seat and controller will always be felt by user
- Heat, cold, wind, smell, touch, taste etc. are not simulated
- Real Life Heat, cold, wind, smell, touch, taste, sounds etc. may intrude on the virtual experience
- User will feel no resistive feedback when swords clash or walls are touched
- Weight of tracked controllers will not feel like a real broadsword or baseball bat
- VR Locomotion is performed through abstracted hand controls, not by using our feet 1:1 with real walking







1st Person In-World



3rd Person In-World



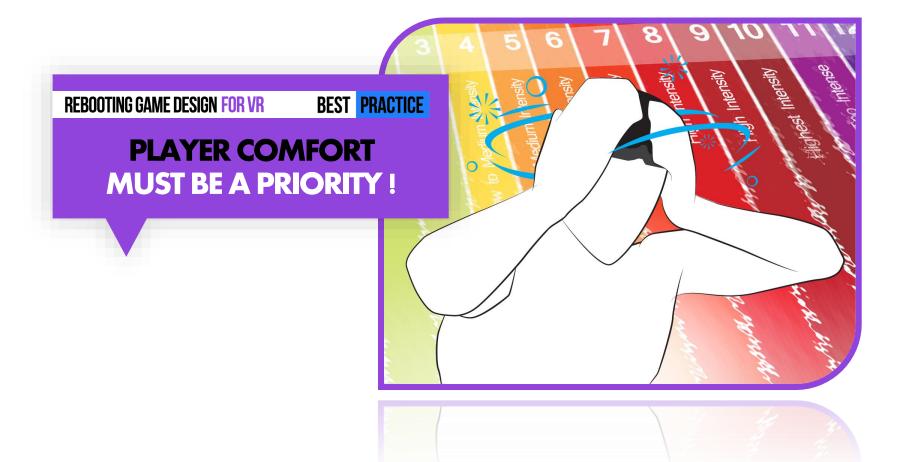
Virtual Cinema Screen







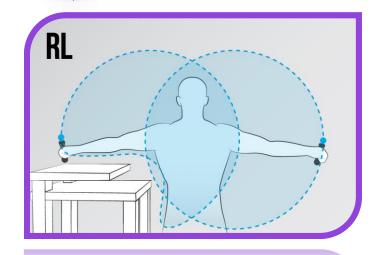








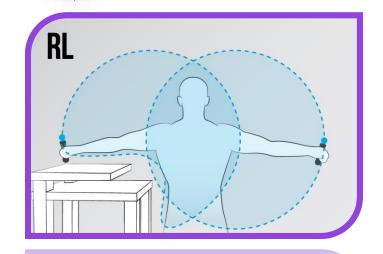
BEST PRACTICE







BEST PRACTICE















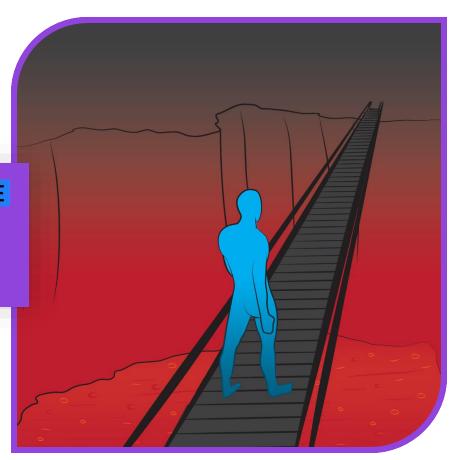






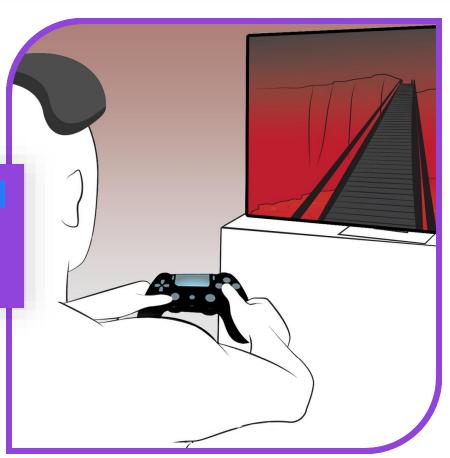








BEST PRACTICE



BEST PRACTICE





Vertigo





Fear of Void / Empty Spaces

Claustrophobia





Extreme / Intense Horror

Fear of the Dark / Unknown





Creature Phobia - Spiders. Snakes etc.

BUILDING ROBUST VR: DESIGNING FOR DEEP IMMERSION

REBOOTING GAME DESIGN FOR VR

BEST **PRACTICE**

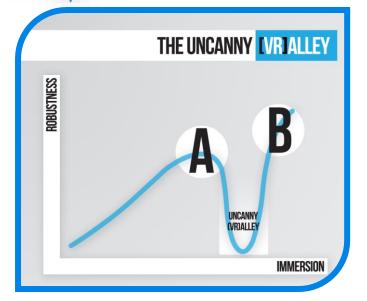
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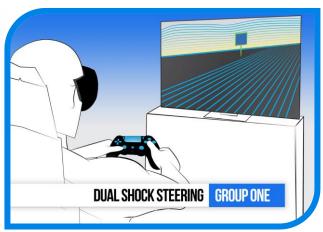
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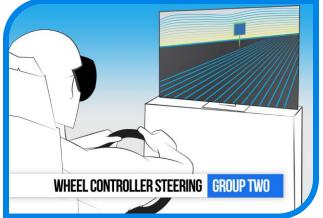
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BUILDING ROBUST VR: DESIGNING FOR DEEP IMMERSION

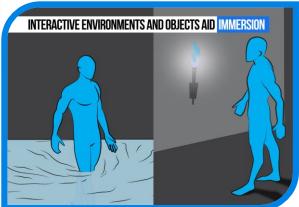


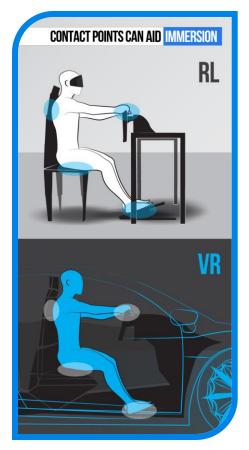




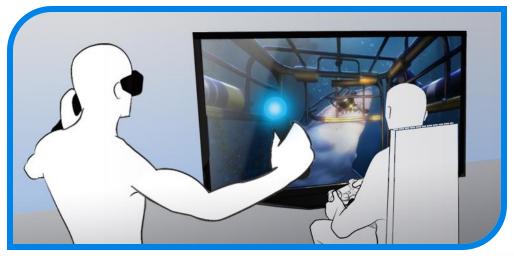






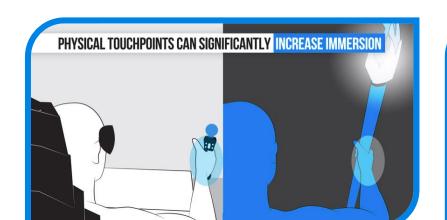


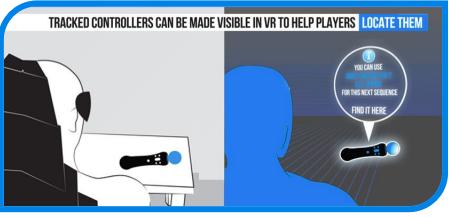




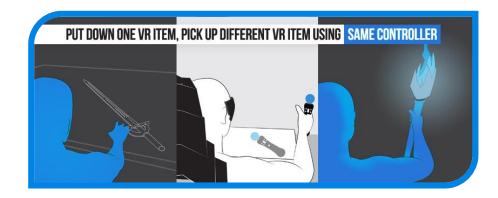


THINKING ABOUT THE MORPHEUS DIFFERENCE

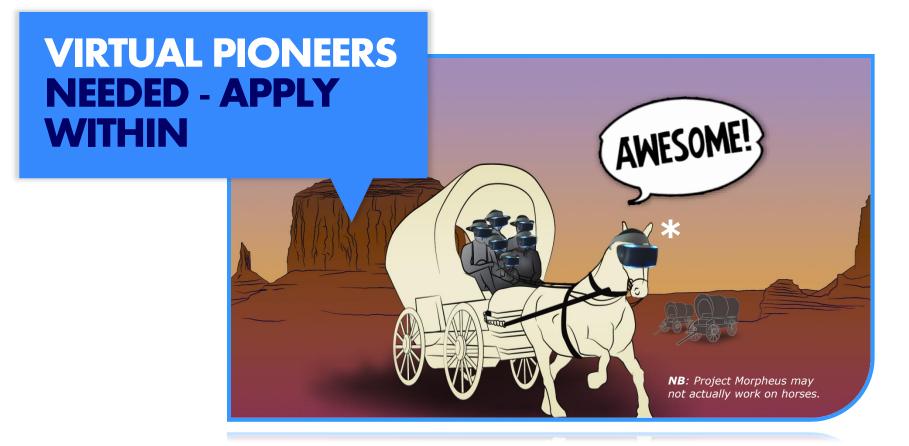


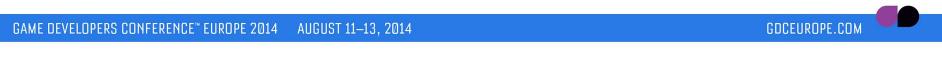


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