VR and Design

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Hello!

- 10 years in the industry
- Started by modding video games
- Worked on plenty of console & PC games
- Made stuff look good, made stuff fast
- Presently at SmartVizX as VR Head
- Working on VR for the past 5 years



DARK SOULS III

METALGEAR SOLIDV
GROUND ZEROES



Bloodborne











SmartVizX

- India's premier VR technology firm
- Focused on Architecture-Engineering-Design
- Started in Feb 2015
- About 50 people, development offices in Noida & Bangalore
- 56 satisfied clients, 3 patents, multiple awards

















Why VR?

- The best way to do anything that deals with space
- The "Next Computing Platform" of the future
- Challenging, innovating, interesting



State of current VR ecosystem

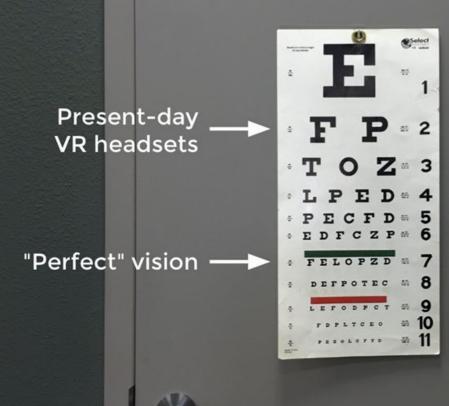




State of current VR ecosystem

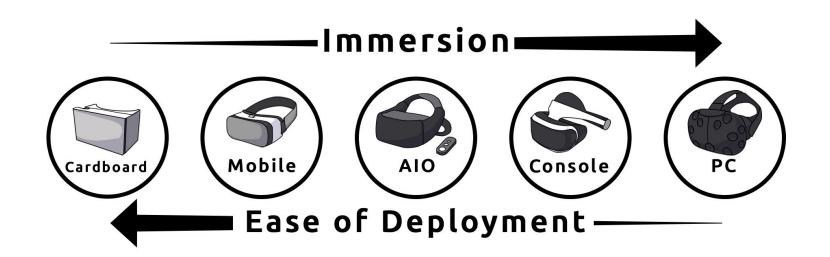
- Like the computers in the 80's
- Make spreadsheets and store recipes!
- Clunky, low-performing, expensive





← Legally blind

✓ Unfit to drive





VR is this impactful at the current state - imagine the future.



What makes VR work?

Optics

Displays

Computational Optics

Control systems

Audio spatialization & propagation

Sensing and reconstruction

Sensor technology

Sensor fusion

Rendering

Animation

Haptics

Input, interactions & interfaces

Material science

Perceptual psychology

User study

Presence (self, tele, social)

Mechanical engineering

Electrical engineering

Optomechanical engineering

Machining

Programming

Design and VR

Designing for VR

Designing in VR



Designing for VR

- Easy to jump in, tough to master
- Basics are ridiculously crucial
- Learn the rules
- So you can break them
- There are no set rules yet

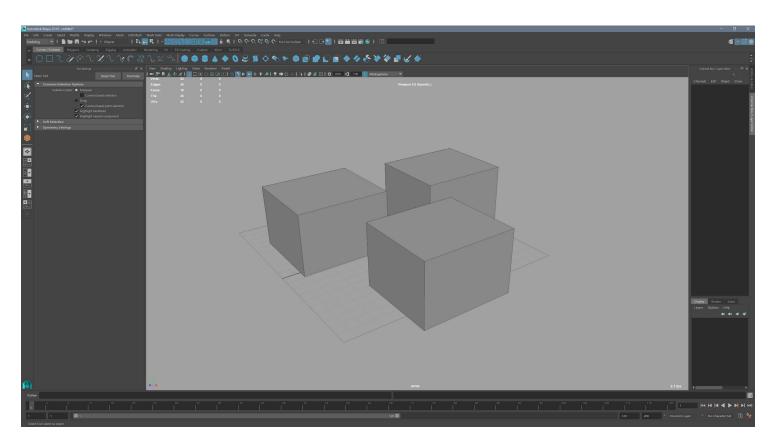


Designing in VR





Designing in a conventional 3D application



Designing in VR is

- Intuitive
- Collaborative
- Personal
- Fun

- Undefined
- Unexplored
- People don't want to give up existing tools





Questions?



Thanks!

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