The Matrix

By Matthew & James



VR / Simulation

VR - The Matrix

- Virtual Reality in the matrix
- Highly Advanced
- Very lifelike experience





VR in the real world

- Already exists
- Companies like Oculus rift, leading the development of VR
- The Technology is improving everyday
- HMDS (head mounted displays)
- none as immersive as in the matrix



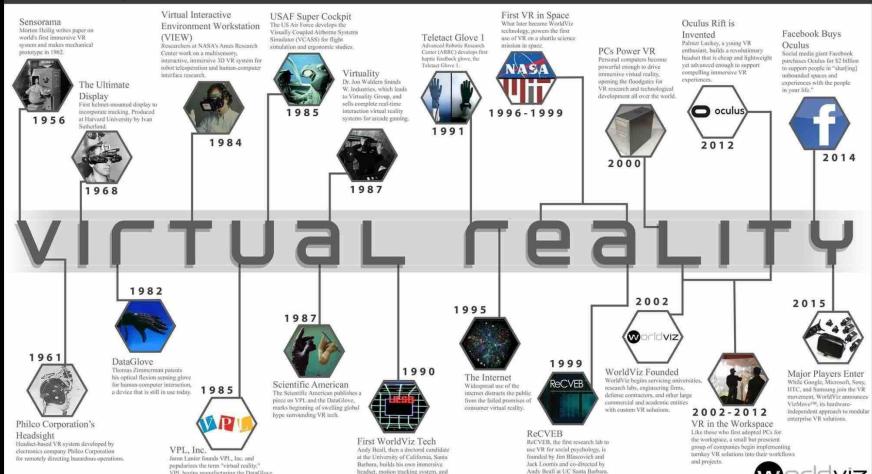


How does VR work now?

- VR works usually works by following where you look,
 by augmenting the reality around you
- These lenses focus and reshape the picture for each eye and create a stereoscopic 3D image by angling the two 2D images to mimic how each of our two eyes views the world ever-so-slightly differently.
- Speakers on the sides augment the sound to mimic
 the real life depth perception of sound and space



Virtual Reality has come a long way. From the world's top R&D facilities to the nostalgic days of plastic-cased digital entertainment in the 1980s, virtual reality has been through quite a bit to get to where it is now. It took some refining, now VR is poised to revolutionize the way we do just about everything, including the way we work...



software to conduct research with VR pioneer lack Loomis.

VPL begins manufacturing the DataGlove and other VR companies bloom around the

movement.

Future Of VR

- Oculus Rift
- What we did so far:
 - We have augmented reality around as to looks really surreal
 - Sound and sight perception
- What's in the future
 - Full movement, having unlimited space
 - Create a real VR that you can constantly live happy
 - haptic feedback to create the illusion of feel
- Problems
 - People might seek the VR as a safe haven
 - VR deaths /damage to real deaths / damage
 - Virtual crimes
 - Mental problems





Al



- The matrix is made by 2 sentient programs, namely the Architect & the Oracle
- They control the matrix, and later on develop
 enough knowledge to turn against the humans and
 harvest their bio-electric energy.
- Self learning programs



Al in reality

- no current ai is as powerful as in the movie
- ai created to learn specific things
- Google's Deep Learning Alpha Zero
- Chess Programs → stockfish
- SuperComputers
- Nvidia ai that creates virtual worlds





Future of Ai

- What we did so far
 - Self learning Ai
 - Half sentient
 - SuperComputers
- Future
 - Faster Programs
 - Better Self learning programs like Alpha Zero
 - Sentient programs
- Problems
 - Too Powerful?
 - Uncontrollable
 - unable to think or feel for itself like humans do



Ai

Pros

- help to automate tasks
- almost no error in work



Cons

- take over jobs
- cost of initializing ai



The matrix vs reality

- there are fully immersive vr but moving in vr means
 moving in the real world
- ai will take a long time to become human like to think and do things on their own
- ai will probably not be powerful enough to take over
 machines and run the world without humans



The End, Thank you for listening to our presentation