



PSY 4(6)84: Frontiers in VR

VR challenges



Audio ✓



Visuals: 70%

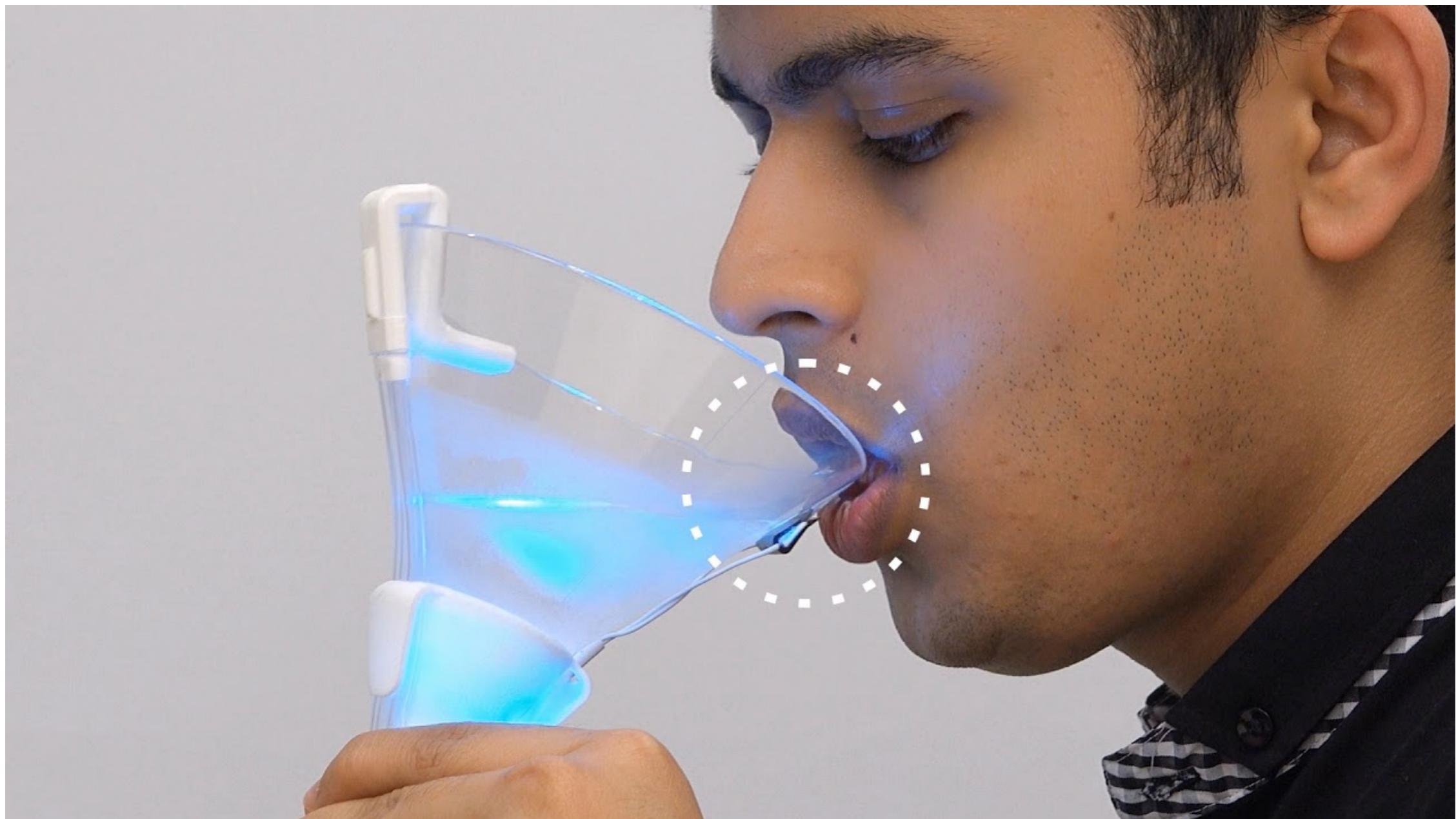


Smell



Olfactory training for long covid?

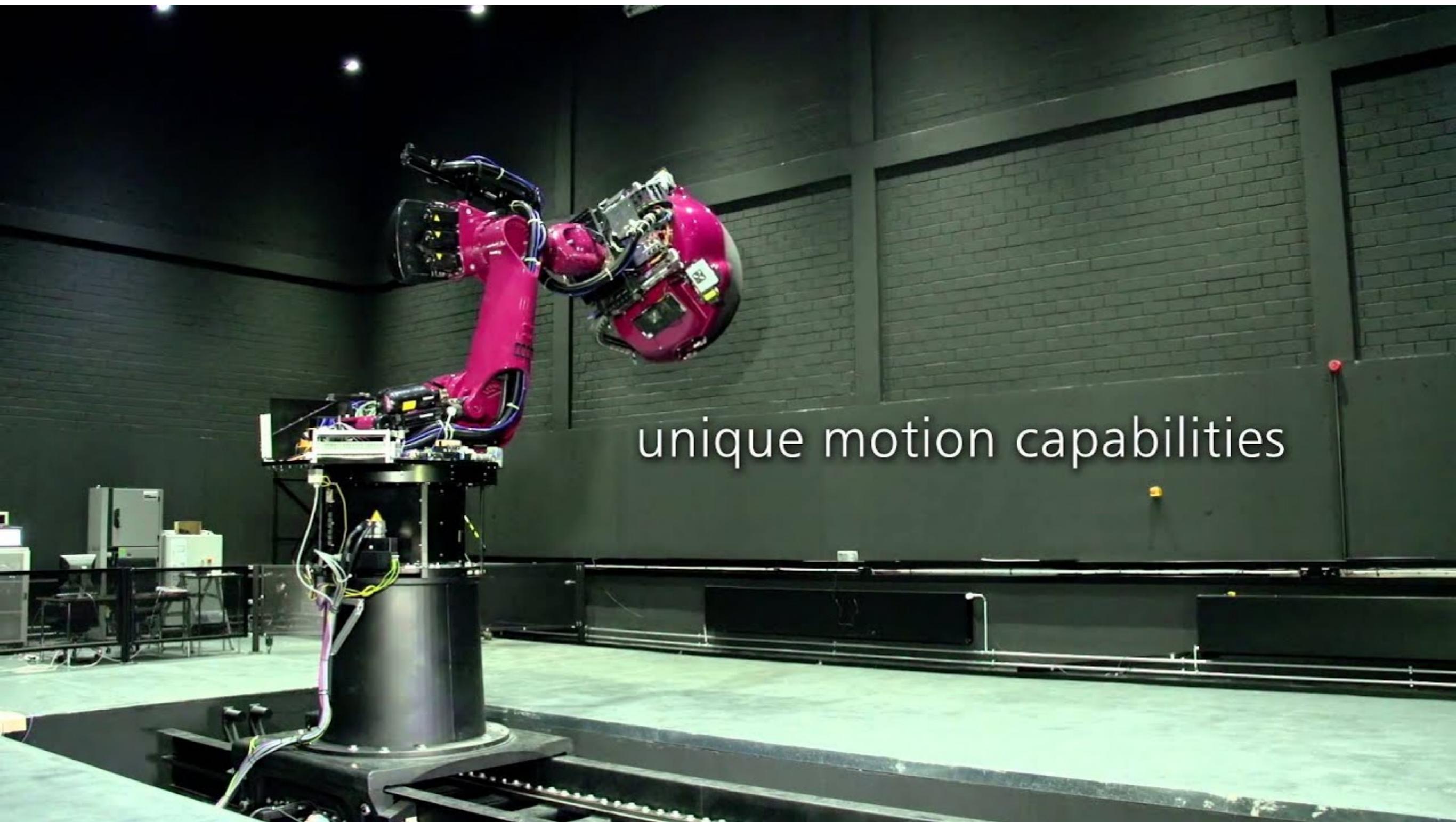
Taste



Haptics:

- ★ Modality with a high spatial and temporal resolution.
- ★ Types of haptic feedback
- ★ Vibrations
- ★ Heat
- ★ Pinch/shear
- ★ Force (gravity)

Haptic motion

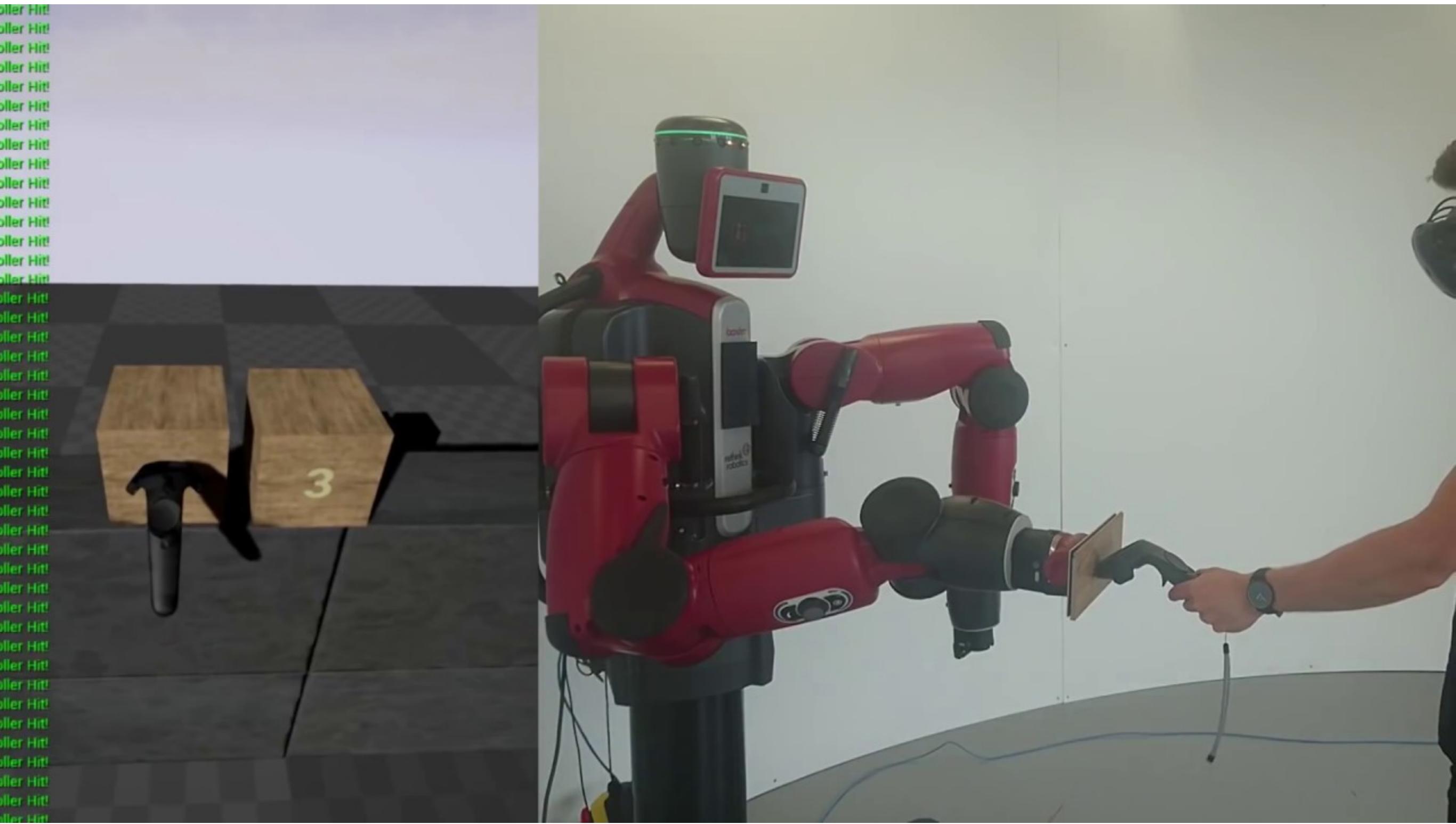


unique motion capabilities

ultrasound



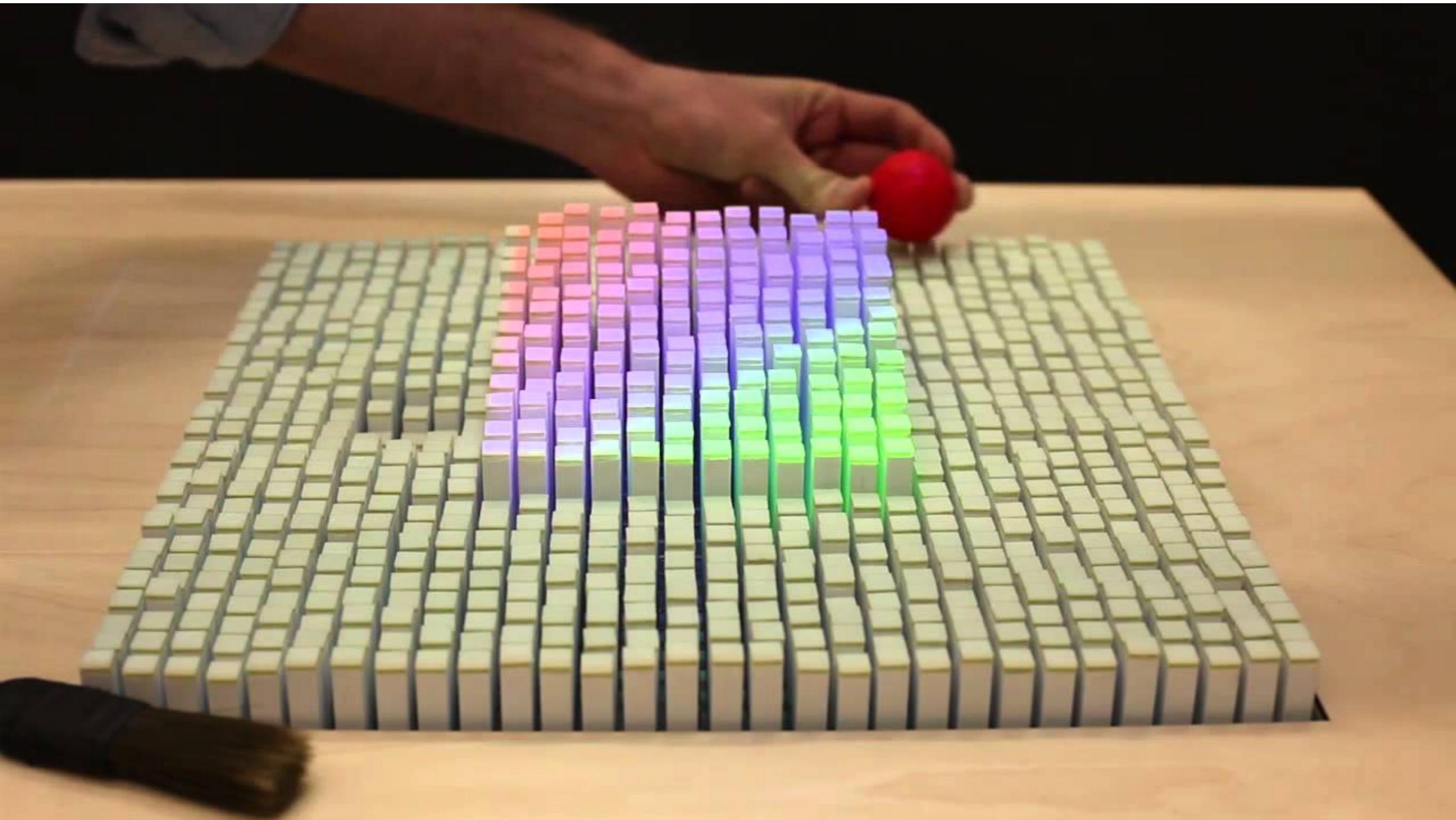
Robotic enabled haptics



Haptic links



Haptic display



Ultrasonic haptics

**Invisible
Force
Field!**

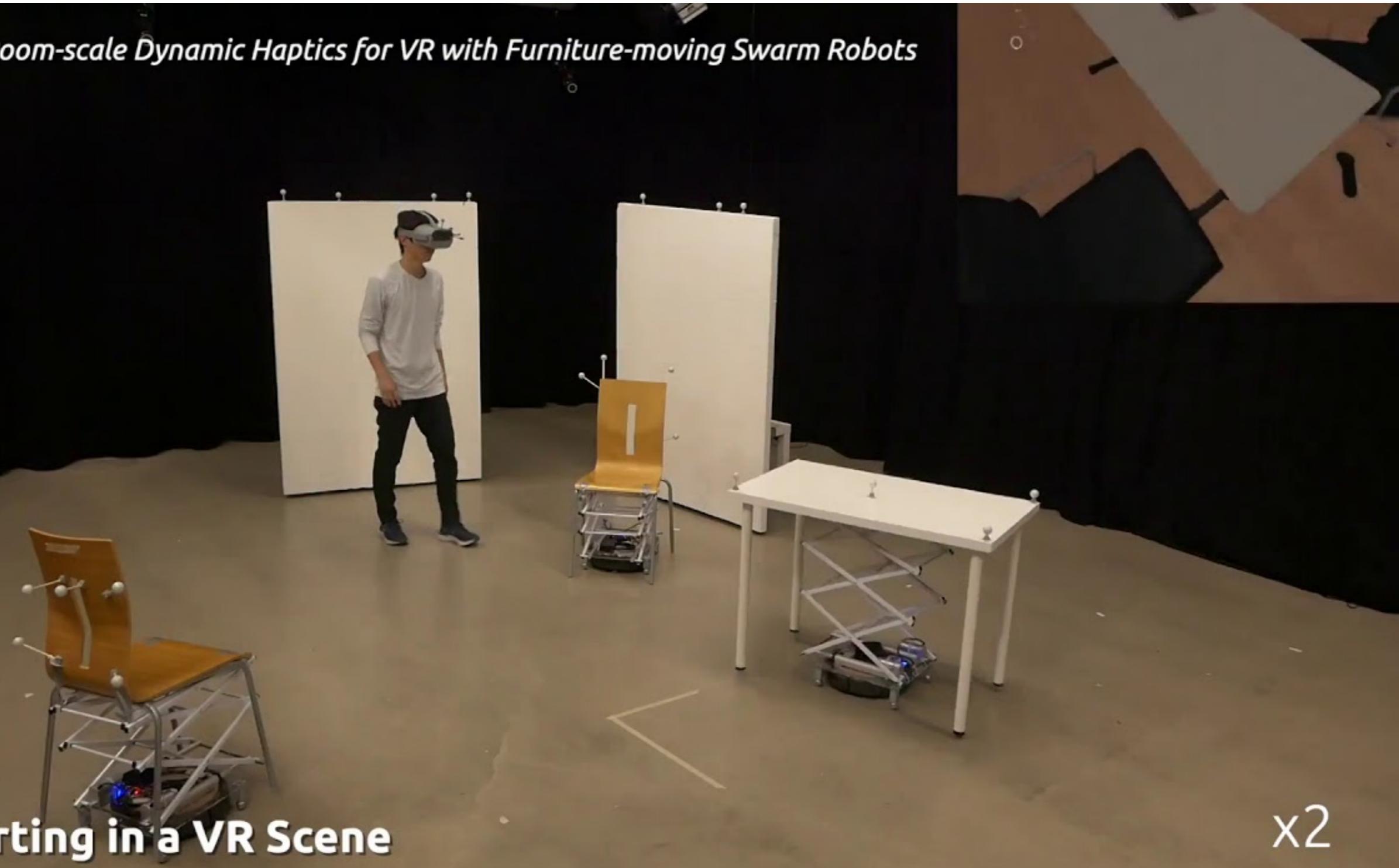


Haptic skin



Dynamic haptics

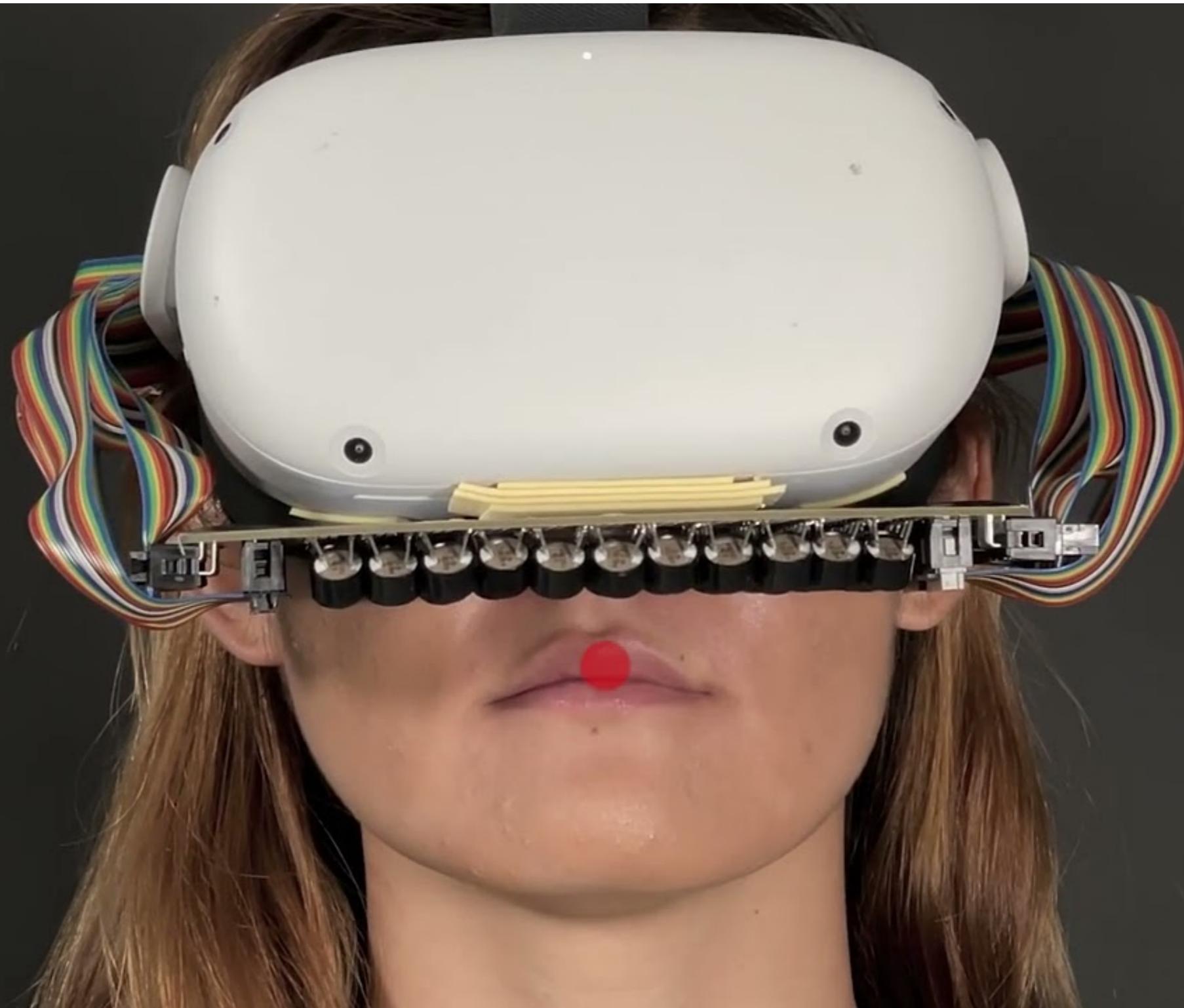
RoomShift: Room-scale Dynamic Haptics for VR with Furniture-moving Swarm Robots



Teleporting in a VR Scene

x2

Mouth haptics



Pain in VR



Haptic gloves



Haptic Turk



Haptic retargeting



Mind control



Mind control



Applications of VR



Applications of VR

https://www.youtube.com/watch?v=kBVh_CDqoXQ

Applications of VR



VR for pain



Treating phobias



Body swap

