## Demonstrating TwinSpin: A Virtual Ball in a VR Controller Enabling In-hand 3DoF Rotation

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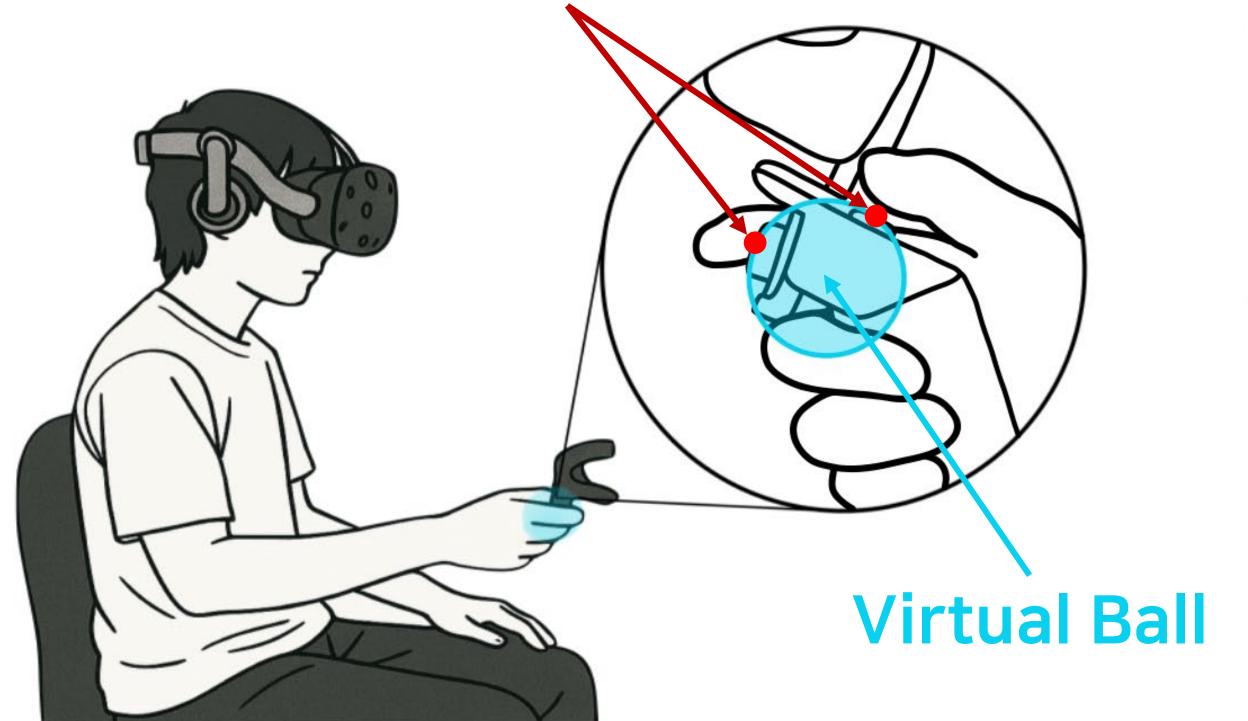
In-hand rotation is a natural motor skill of humans, yet current VR controllers mainly rely on wrist and arm movements to rotate virtual objects, leading to significant arm motion and fatigue.

To address this, we propose TwinSpin.

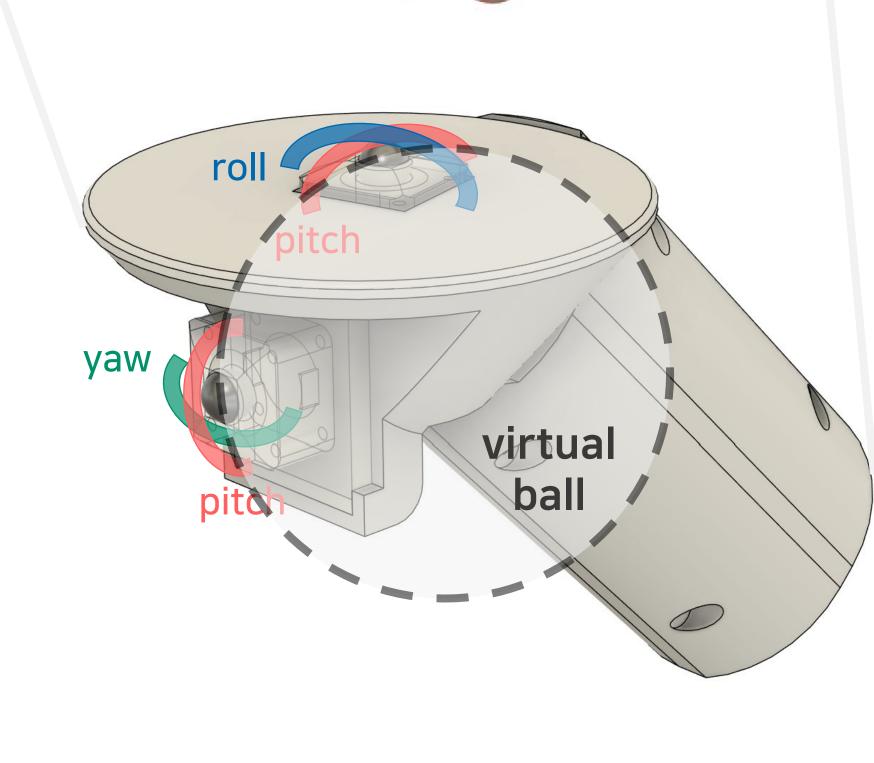




**Arm-based Rotation** 



TwinSpin (Finger-based Rotation)



## In the Demo...

## Puzzle Key Game (shout-out to The Legend of Zelda: Skyward Sword)

Step 1 Grab the *Puzzle Key* on the pedestal

Step 2 Rotate the *Puzzle Key* to fit the *Key Slot* 

Step 3 Insert the *Puzzle Key* into the *Key Slot* 

Step 4 Repeat for all four *Puzzle Keys* 

