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First person vs Third person

- Subjects have first person experiences
- Observers have third person experiences
- Switching back & forth between subjects & observers is bad idea.

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→ Idle → jump

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Synthetic vs Captured

→ Synthetic world can be programmed which is completely invented from geometric primitives & simulated physics

→ World may be captured using modern imaging techniques

Factors affecting captured:

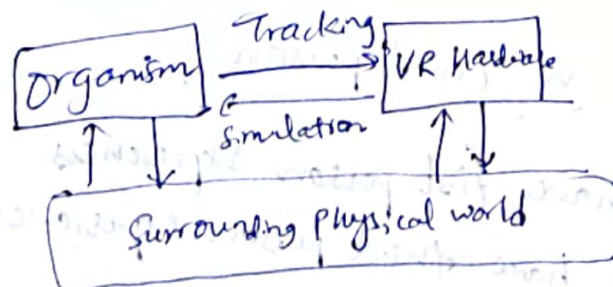
→ What happens when user changes her head position and viewpoint?

→ First step towards feeling like we are somewhere else is capturing a panoramic view of environment

Interactivity

Open loop Closed loop

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DOF (Degree of Freedom)

→ A typical rigid body has 6 DOF

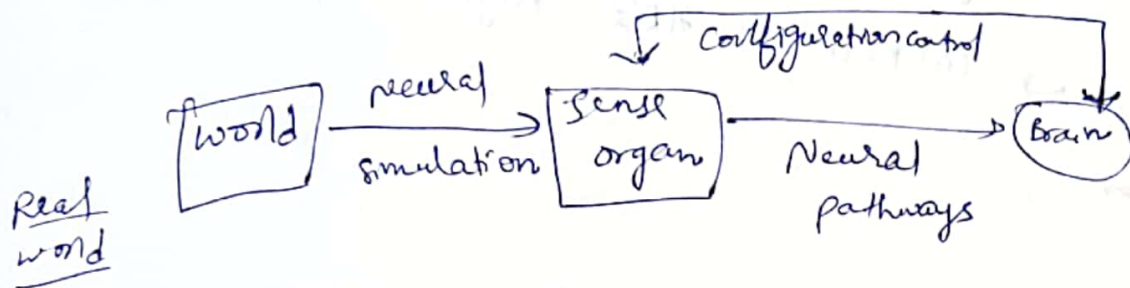
We have 6 DOF's (Human beings)

3 DOF's (Linear)

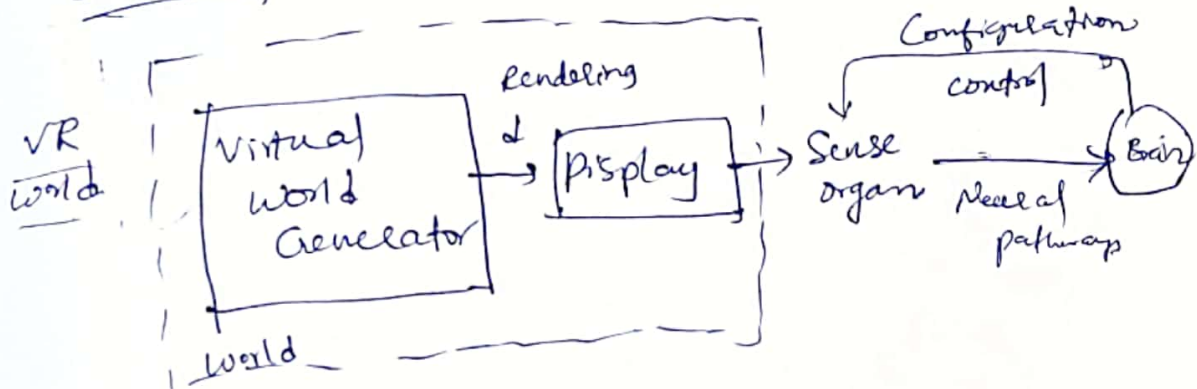
- Front (Back)
- Left / Right
- Sit / Get up

3 DOF's (Angular / non-linear)

- Rotate left / right
- Bend up & down
- Bend diagonally left & right



Sensors by Sense organs



Artificial stimulation

Interactive

Types of VR is

