Body ownership of virtual avatars



Tiago Coelho

Experimental task



The project

Avatar's morphology and movements

Perspective of the avatar

Our approach

- Telepresence
 - The feeling of being present at a place other than the physical location of the individual.
- Ownership
 - Feeling of being something in the virtual world





How to evaluate?

Questionnaires

Physiological parameters (heart rate, GSR...)

Behavioural assessment (perceptual-motor performance)

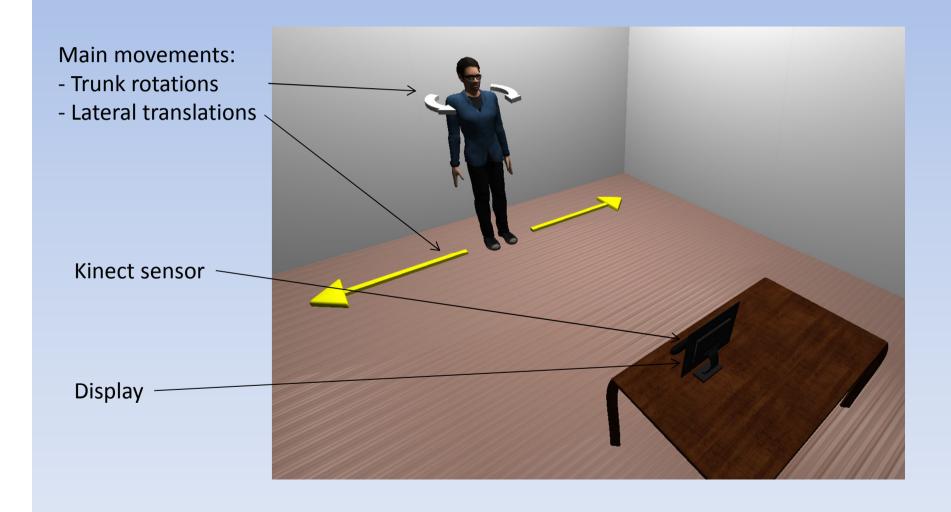
What behaviours?

- Affordance concept:
 - Action possibilities
 - Scaled to the organism
 - Some examples:
 - An object affords grasping if its shape and size are compatible with the organism's hand
 - An aperture affords passage if its width is larger than the organism's width

Technical description

- Interaction:
 - Kinect
- Modelling:
 - Avatars (Blender)
 - Environment (Unity 3D)
 - Programming language (Java)
- Experiments with participants YOU (please)

Experimental setup



Experimental task



Our team



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