EMPTY ROOM

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Electroacoustic Music Spatialized in VR
in Ambisonic 3D and Binaural

CICM



CONSERVATOIRE NATIONAL SUPÉRIEUR DE MUSIQUE ET DE DANSE DE PARIS























Experience scenario

The Empty Room experience

In Empty Room the user moves freely trough a 40m2 virtual plateau in the middle of a giant hypercube orbiting over the earth. All around and inside the plateau a genuine 64 channel audio spatializer is disseminating the sound composition combined to an abstract and ever changing organic visual environnement. Three different perception of space are displayed: vaste and aerial, occlusive with real time perception shifts, and confined to extreme reduced space sensation.

Duration of the experience: 10'

VR Headset: HTC Vive

Type of VR: Projection perspective

Player: 1

User mode: standing in room scaled mode

Controllers: 2

Public day

During the public day the audience is invited to make the VR experience. This is a also a privileged moment for us to collect user feedback and have discussions.

Professional day

During the professional day the audience is invited to make the Empty Room experience but also to have a guided acces and in deptht understanding about the specificities of our 3D in-game spatialization concepts, involving Ambisonic 3D and Binaural techniques, wich can be applied to a large variety of VR, AR, and Gaming contents.

More infos about Empty Room:

Video: https://www.youtube.com/watch?v=uyT9ZQJaZqc

Soundwebster.com:

https://soundwebster.wordpress.com/work-in-progress-the-empty-room-project-virtual-3d-sound/

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Photos



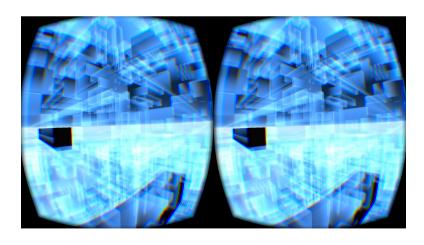
Singapor seated version 2017



In game spatialization mapping view



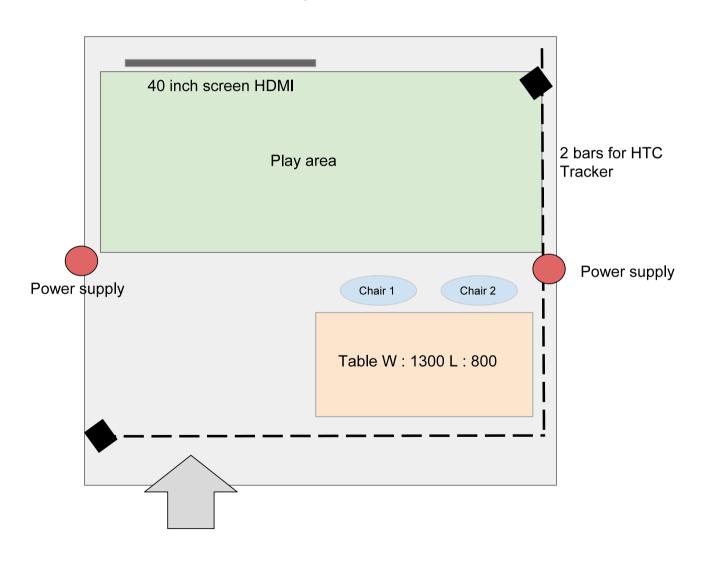
HTC Vive room scaled version 2018/2020



User in world stereoscopic view

Install Plan

VR booth W 3000 mm / L 3000 mm without roof



Logistic Plan

We carry:

- ✓ One HTC Vive
- ✓ One VR ready laptop for HTC
- ✓ One VR ready demo laptop to show the in-game spatialization device

Please construct:

✓ One booth with black curtains, with no roof and two bars fort the HTC trackers

Please provide:

- ✓ Two power supply sockets
- ✓ A 40 inch sceen (hdmi) to playback from the HTC the real time immersion to the external public
- ✓ A table (approx w1500 L700 H700)
- ✓ Two chairs for operators
- √ 1 local volunteer to help for explication and setting the users