

Title project:

'Montreux Jazz Heritage Lab'

Project description:

The *Montreux Jazz Heritage Lab* is a habitable architectural module that allows the user to plunge into 45 years of jazz, blues and rock concerts in the form of digital archives. The shape of its projection surface, precisely curved in order to enhance embodied user experience, finds its precedents in *trompe l'œil* effects brought to excellence in the baroque age. This device therefore draws reference from a specific pictorial heritage, combining a corporeal experience of visual content with the archives of musical heritage. The collaboration with the acoustics laboratory LEMA at EPFL had a profound influence onto the geometry of the project and the materials used. The micro-perforated screen offers acoustics transparency, which permits the masking of speakers behind it whilst glass panels located behind the screen equally transmit light. The opening mechanism allows for a folding away of an entire wall as a door, thus allowing the device to be operated in two different modes: acoustically isolated for a small audience inside the space of the module, or open and accessible to a larger audience. Through its transparency and its capacity to modify its configuration, the module becomes an actor in a larger space in which it resides. This architectural module was developed at EPFL ECAL LAB in 2011-12.

Architect:

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Coordination of the Montreux Jazz Digital Project:

MetaMedia Center, EPFL

Partner:

Montreux Jazz Festival

EPFL Scientific Labs:

Laboratory of Electromagnetics and Acoustics
Audiovisual communication Laboratory
Signal Processing Laboratory 2

Support:

Mr Vasily Shahnovskiy
Mrs Theresa Rydge
Audemars Piguet SA
Lombard Odier Darier Hentsch & Cie

Technological Partners:

3D audio system : Illusonic (Lausanne)

Loudspeakers : Relec (Yverdon-les-Bains)

Acoustic glas : Glas Troesch (Bützberg / Bussigny VD)

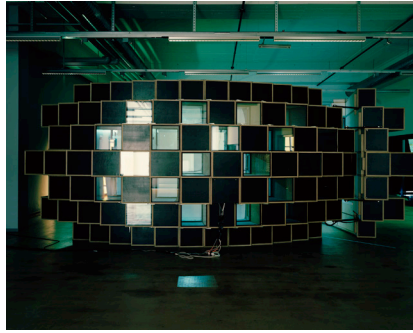
Interactive table : to-fuse (Zürich)

Year: 2012

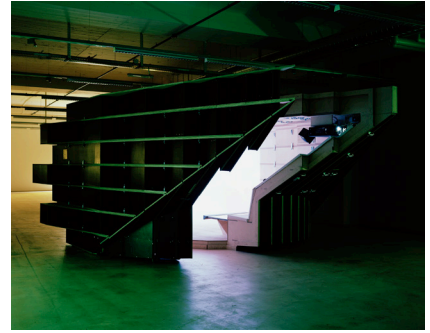
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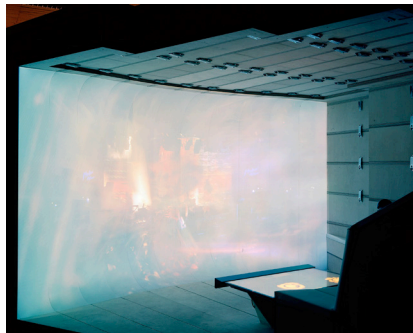
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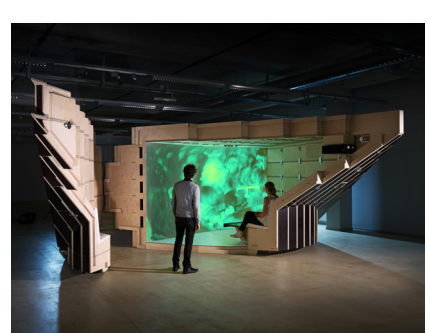
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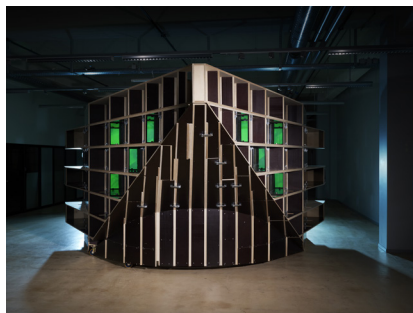
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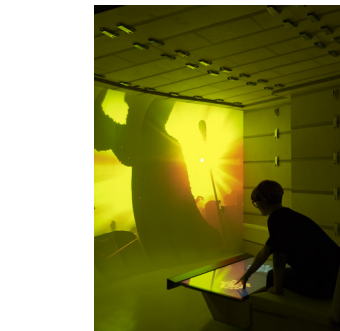
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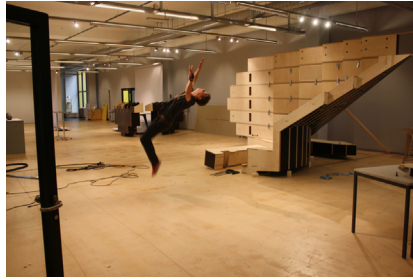
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filename: 15_MJHL_construction_5.jpg
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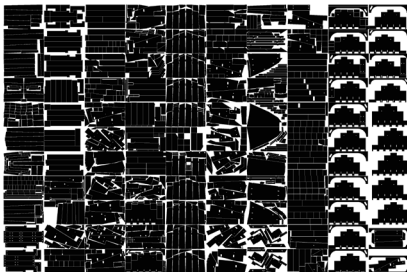
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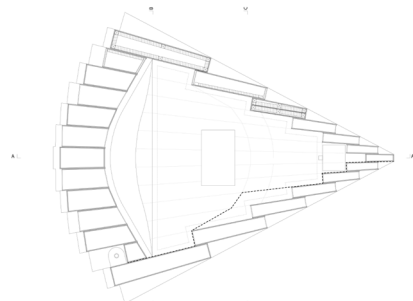
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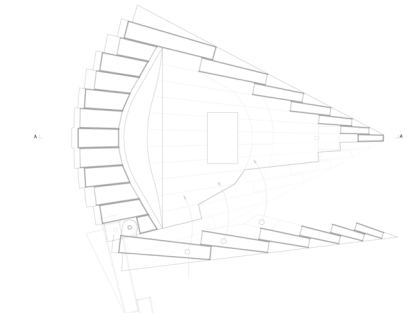
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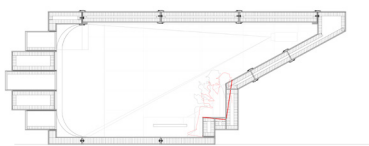
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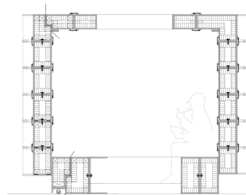
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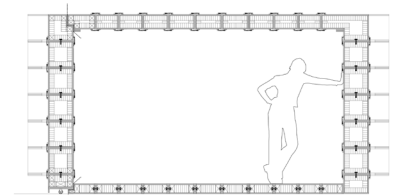
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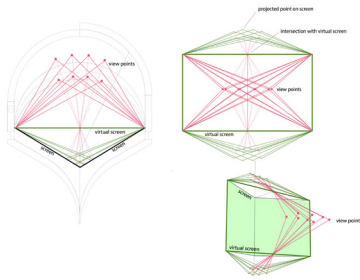
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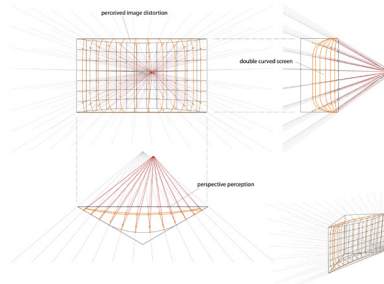
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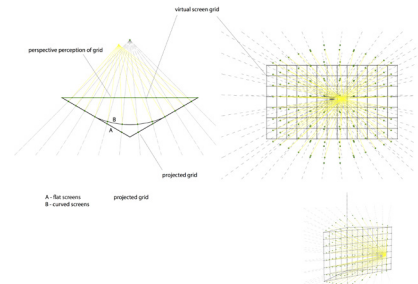
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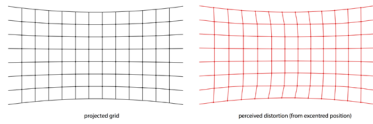
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filename: projection of a grid.png
caption: projection of a grid
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filename: grid.png
caption: projection grids
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