

Tristan Murail  
*Terre d'ombre*  
2004

June 2020 - Max 8 64bit - UNTESTED  
2020



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The setup and the execution of the electroacoustic part  
of this work requires a Computer Music Designer (Max expert).

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## Work related information

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### Performance details

- March 20, 2004, Allemagne, Berlin

Publisher : Lemoine

### Detailed staff

- 4 flutes, 4 oboes, 4 clarinets, 4 bassoons, 6 horns, 4 trumpets, 4 trombones, 3 percussionists, 2 harp, piano, electronic/MIDI keyboard/synthesizer, electronic/MIDI keyboard/synthesizer, strings

### Useful links on Brahms

- [Terre d'ombre](#) for large orchestra and electronic sounds (2003-2004), 25mn
- [Tristan Murail](#)

## Version related information

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Documentation date: June 14, 2020

Version state: valid, validation date : June 15, 2020, update : May 6, 2021, 3:09 p.m.

### Documentalist

Manuel Poletti (Manuel.Poletti@ircam.fr)

You noticed a mistake in this documentation or you were really happy to use it? Send us feedback!

### Realisation

- Eric Daubresse (Computer Music Designer)

Version length: 25 mn

Default work length: 25 mn

### Upgrade Motivation

Porting of the original Max4 patch to Max8 64bit

### Comment

What was achieved in this version:

- created technical setup drawing & present documentation
- converted all sound files from 44.1KHz to 48KHz current standard
- created an independent Max Project
- fixed a potential crash when loading sound files twice
- tested all sound files

WARNING: The present version was made in studio and needs to be tested in a real performance situation.

### Other version(s)

- [Tristan Murail - Terre d'ombre - maxmsp5-version-unttested](#) (Nov. 10, 2010)
- [Tristan Murail - Terre d'ombre - transfert\\_mustica\\_ftp](#) (April 14, 2010)

## Electronic equipment list

### Computer Music Equipment

- 1 MacBook Pro - *Apple Laptops* (Apple)  
Mac OS EL Capitan or later
- 1 Max 8 - *Max* (Cycling74)  
Max 8 or later
- 1 Sound Board - *Sound Board*  
Minimum: 6 separate audio outputs
- 1 KX 88 - *MIDI Keyboard* (Yamaha)  
On stage - needs to send program changes
- 1 BCF 2000 - *MIDI Mixer* (Behringer)  
In-patch MIDI mixing (optional)
- 1 Footswitch / Sustain Pedal - *Footswitch / Sustain Pedal*  
For keyboardist (optional)
- 1 Volume Pedal - *Volume Pedal*  
For keyboardist (optional)
- 1 Midi interface - *MIDI Interfaces*  
Connects the MIDI keyboard to the computer

### Audio Equipment

- 4 Loudspeaker - *Loudspeakers*  
15" full-band speakers
- 2 Stage monitor - *Stage Monitors*  
For keyboardist and conductor
- 2 subwoofer - *Subwoofers*  
18" subwoofer
- 1 Digital Mixing Desk - *Digital Mixers*  
Minimum: 6 separate inputs / 8 separate audio outputs

Files

File	Type	Author(s)	Comment
<a href="#">Documentation</a>	Document	Manuel Poletti	
<a href="#">Documentation - Apple Pages</a>	Document	Manuel Poletti	For further editing
<a href="#">Documentation - Microsoft Word</a>	Document	Manuel Poletti	For further editing
<a href="#">Performance Patch</a>	Performance patch		
<a href="#">Technical rider</a>	Technical rider	Manuel Poletti	
<a href="#">Technical rider - Max8</a>	Technical rider	Manuel Poletti	For further editing

# Instructions

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## Global description of the live-electronics

The Max patch plays some stereo sound files which are dynamically spatialized through 4 speakers placed around the audience, and mono sound files played through frontmost speakers . Sound files are triggered from a keyboard player on stage.

The keyboard is linked from the stage to the live-electronics computer in the control-room through a MIDI connexion. The keyboard player triggers MIDI notes together with the conducting, and MIDI program-changes to select different banks of sound files. Therefore the keyboard needs to have the possibility to send some MIDI program-changes easily. A Yamaha SY77 or KX88 model is recommended.

The role of the computer music designer is to set up the live-electronics, install and run the Max patch, monitor the MIDI input while following the score, and mix the live-electronics during the performance.

Please read the [documentation](#) files for further details.

Version documentation creation date: June 14, 2020, 5:10 p.m., update date: May 6, 2021, 3:09 p.m.