

HoaLibrary

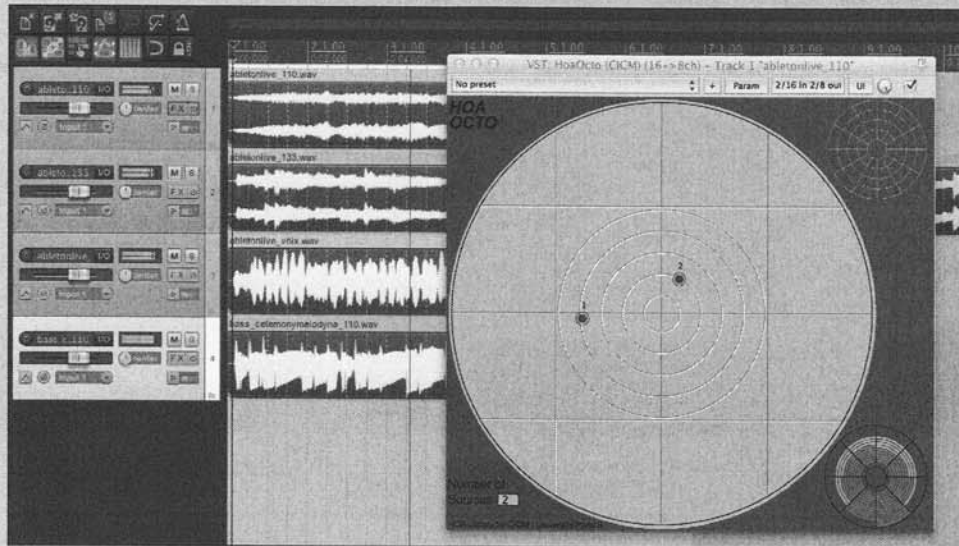
High Order Ambisonics Library

Français

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VST

Hoa library as a suite of VST plugins.



Important : To install the plugin suite, click on the download link below, then choose the repertory depending on your OS and follow the instructions in it.



Mac/Win Beta 0.1

(30/05/2014).

Feedback and comments are welcome. [Contacts](#).

All sources codes are available on the [HoaLibrary Github repository](#).

The [hoa.library](#) in under the GNU Public License. If you'd like to avoid the restrictions of the GPL and use Hoa Library for a closed-source product, you contact the CICM.

News

(Français) Avis de Soutenance de doctorat 10/22/2015

HoaLibrary v2.2 07/01/2015

Dionys'Hum 04/06/2015

About HoaLibrary :

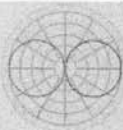
HoaLibrary is a collection of C++ and FAUST classes and objects for Max, PureData and VST destined to high order ambisonics sound reproduction. It won "Le prix du jeune chercheur" , awarded by the AFIM in 2013. This library is free, open-source and made available by CICM, the research center of music and computer science of the Paris 8 University



Maison des Sciences de l'Homme
Paris Nord



Mac



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High Order Ambisonics Library

These VST plugins allow to spatialize up to 16 sources for several loudspeakers systems :

- **HoaQuadra** – 4 loudspeakers (45°, 135°, 225°, 315°).
- **HoaFiveDotOne** – 5 loudspeakers in a 5.1 Surround configuration (0°, 30°, 110°, 250°, 330°).
- **HoaHexa** – 6 loudspeakers (30°, 90°, 150°, 210°, 270°, 330°).
- **HoaOcto** – 8 loudspeakers (22,5°, 67,5°, 112,5°, 157,5°, 202,5°, 247,5°, 295,5°, 337,5°).
- **HoaHexaDeca** - 16 loudspeakers (11,25°, 33,74°, 56,24°, 78,75°, 101,25°, 123,75°, 146,25°, 168,75°, 191,25°, 213,75°, 236,25°, 258,75°, 281,25°, 303,75°, 326,25°, 348,75°).
- **HoaBinaural** - Binaural headphones restitution.

Commands :

- Change the number of sources : The number box.
- Change source's radius and angle : Click and drag.
- Change source's radius : Click and drag with *alt* + *shift*.
- Change source's angle : Click and drag with *alt*.
- Zoom : *shift* + mouse wheel

Version : Beta 0.1

The plugins has been tested on Mac Os 10.8.5 with reaper v4.591. compatible with the softwares supporting VST plugins

Install :

Drag all package content to the VST custom folder, as default :
/Library/Audio/Plug-ins/VST
/Users/"username"/Library/Audio/Plug-ins/VST

The HOA Library :

Sound space is one of the principal dimensions of the contemporary musical thought, especially in the electroacoustic music domain but also in intermedia arts. In this context, the [CICM](#) has made spatialization its principal research axis. This project's aim is to give to musician spatialization models based on high order ambisonics and sound fields synthesis.

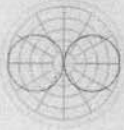
You can visit the official website : [HoaLibrary](#). This project is developed in a part of the Paris 8 University [LABEX arts H2H](#).

VST developer : João Svidzinski.

Hoa developers : Julien Colafrancesco, Pierre Guillot & Elliott Paris.

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Version : Beta 0.1 for Windows 32bit

The plugins has been tested on Windows 7 with reaper v4.62. compatible with the softwares supporting VST plugins

Install :

Drag all package content to the VST custom folder.

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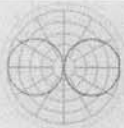
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- Zoom : *shift* + mouse wheel

Version : Beta 0.1 for Windows 64bit

The plugins has been tested on Windows 7 with reaper v4.62. compatible with the softwares supporting VST plugins

Install :

Drag all the *.dll* files, in the main folder, to the VST custom folder,

Drag *cbias.dll*, located in *cbias* folder, to **C:\Windows\system**

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