



**HAL**  
open science

## WebAudio Plugins in DAWs and for Live Performance

Michel Buffa, Jerome Lebrun, Stéphane Letz, Guillaume Pellerin

► **To cite this version:**

Michel Buffa, Jerome Lebrun, Stéphane Letz, Guillaume Pellerin. WebAudio Plugins in DAWs and for Live Performance. 14th International Symposium on Computer Music Multidisciplinary Research (CMMR'19), PRISM, CNRS, Oct 2019, Marseille, France. 10.13140/RG.2.2.29707.57126 . hal-02337828

**HAL Id: hal-02337828**

**<https://univ-cotedazur.hal.science/hal-02337828v1>**

Submitted on 16 Nov 2019

**HAL** is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

# WebAudio plugins in DAWs and for live performance

Michel Buffa, Jerome Lebrun  
 Université Côte d'Azur  
 CNRS, INRIA  
 (buffa, lebrun)@i3s.unice.fr

Guillaume Pellerin  
 IRCAM  
 pellerin@ircam.fr

Stéphane Letz  
 GRAME  
 letz@grame.fr

**Demixed version of the track**

**datasources**

**Metadata from different datasources. More to come when we will integrate audio and lyric analysis metadata**

**Lyrics**

- RESTful API + WebAudio clients
- Targets: music schools, composers,...
- WebAudio / WebMidi APIs + proposal for an open plugin standard (ala VST/VSTi for the Web)

**WASABI Web Audio Amplifier**

**WAM PLUGINS**

**WebAudio plugins written in JavaScript**

**FAUST PLUGIN**

**2 Million songs knowledge database**

**Plugin example: a tube guitar amp simulator (Marshall JCM800)**

**Host Webapp for assembling effect and instrument plugins**

Plugins can be:

- JavaScript classes
- WebComponents (GUI)
- WebAssembly (binary)
  - C/C++ compiled
  - FAUST compiled

Support for local / remote plugins  
 Integrated Midi support

**Synths by [webaudiomodules.org](http://webaudiomodules.org)**  
**FAUST DSL: <http://faust.grame.fr>**

**ANR WASABI**  
**<http://wasabihome.i3s.unice.fr>**