AWARD
2015

FAUST

FAUST OPEN SOURCE SOFTWARE COMPETITION 2015

GRAME – Centre National de Creation Musicale

April 11, 2015

LINUX AUDIO CONFERENCE 2015 – JG|U, MAINZ

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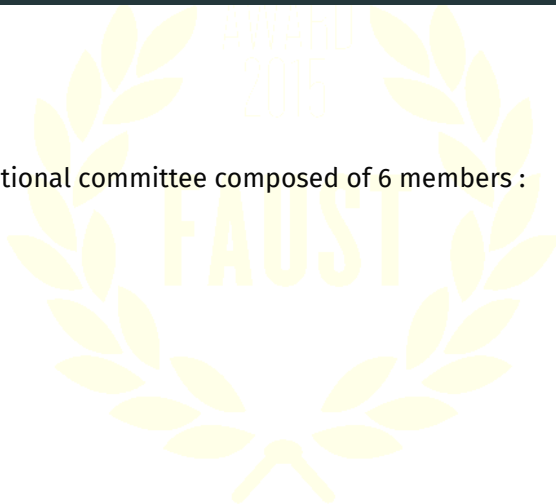Promote innovative high-quality free audio software developed with Faust programming language.

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- Sponsored by Grame – Centre National de Création Musicale.

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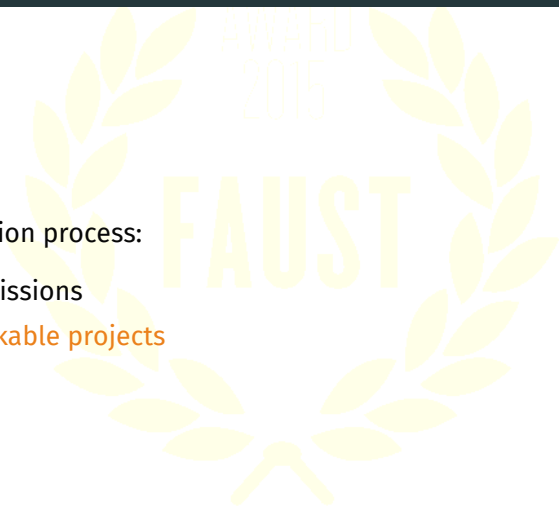- Julius Smith (Stanford U., Palo Alto, USA)
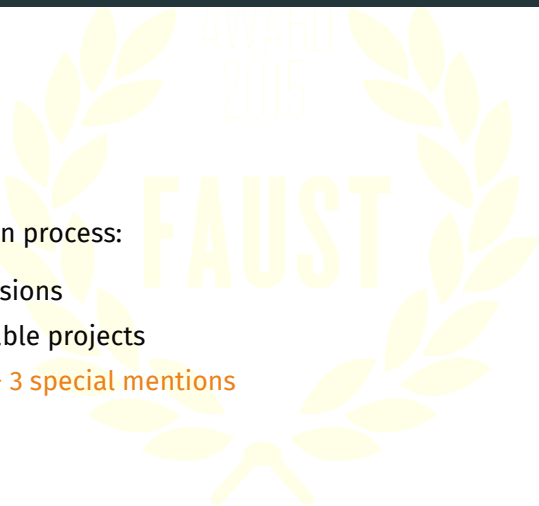
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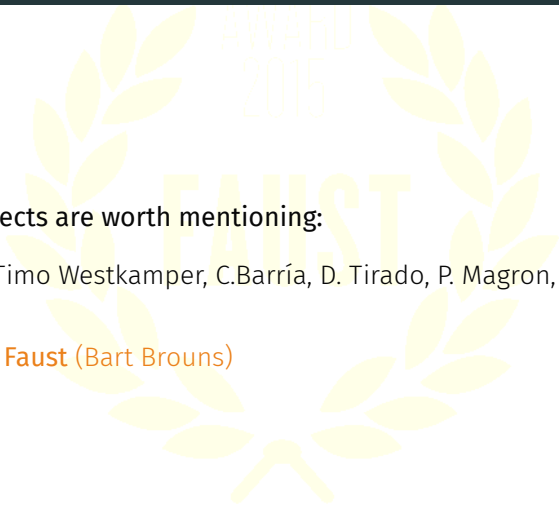· 4 remarkable projects
· 1 winner + 3 special mentions

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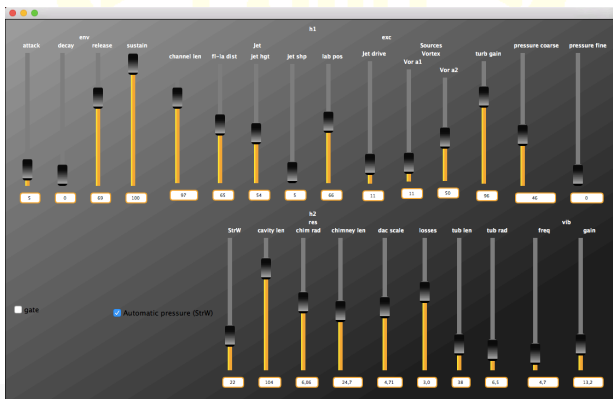- Voice of Faust (Bart Brouns)
- PMix (Oliver Larkin)

FLAUTA

Flauta is a Waveguide based flute model. Copyright (C) 2011 Timo Westkämper, Carlos Barría, Daniel Tirado, Paul Magron and Patricio de la Cuadra.

Flauta main components:

· flauta.dsp - main module, includes resonator
· excitation.dsp - excitation
· constants.dsp - constant declarations
· params.dsp - variable parameters
· utils.dsp - utilities

Flauta main links:

· source: https://github.com/timowest/flauta
· archive: https://github.com/timowest/flauta/archive/
  f5248a8cb2c31a38fb943cfd55ec3828f5bf9dbc.zip
· demo: https://soundcloud.com/asilva1928/
  aurelio-silva-s-ez-signos-i
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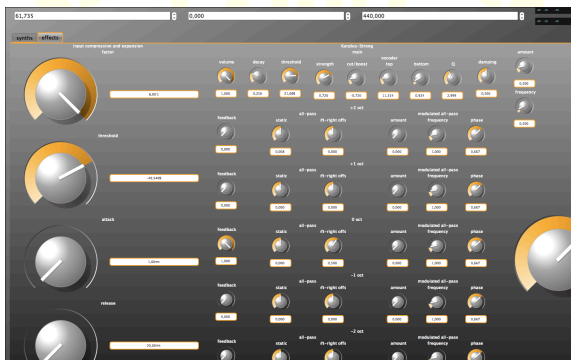 https://ccrma.stanford.edu/~cc/pub/mp3/of.mp3
· demo: http:
  //ccrma.stanford.edu/~pdelac/Ouldemes_video.avi

VOICEOFFAUST

VoiceOfFaust: a voice synthesizer/effects machine. It is partly a port of VocSynth to Faust with some new additions.

Currently VoiceOfFaust consists of:

· pitch tracker,
· compressor/expander,
· normal vocoder with a "super-saw" that can be cross-faded to a "super-pulse",
· filter-free vocoder based on PAF oscillators,
· filter-free vocoder based on FOF oscillators,
· FM with modulation by the voice,
· ring-modulation with an emulation of Casio CZ-oscillators,
· Karplus-Strong used as an effect,
· phase modulation used as an effect.

VoiceOfFaust main links:

· source: https://github.com/magnetophon/VoiceOfFaust
· installer: https://github.com/magnetophon/SynthSinger
· demo 1: http://magnetophon.nl/sounds/magnetophon/
  DemoSynths_H246.mp4
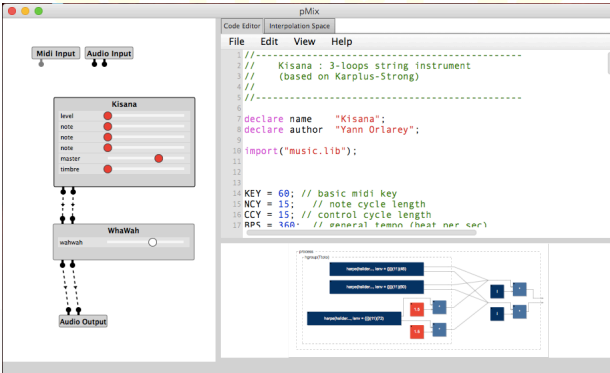· demo 2: http://magnetophon.nl/sounds/magnetophon/
  DemoFX_H246.mp4

PMIX

Graphical patcher and preset interpolator for Mac, (and eventually) Linux and Windows. A node could be a VST, AU, LADSPA plugin or a JIT compiled FAUST program. An integrated code editor and SVG display makes pMix a nice environment for development and pedagogy with Faust.

pMix is written using C++ and the JUCE framework. In order to integrate FAUST's LLVM compiler, a JUCE module was developed so that other JUCE users can also easily integrate FAUST into their projects.

pMix main links:
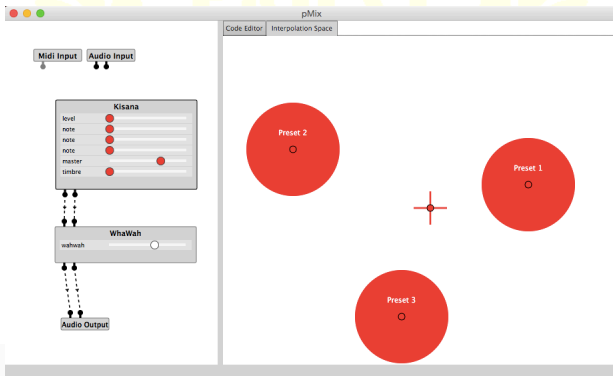
· source: https://github.com/CMRCYork/pMix2
· source: https://github.com/CMRCYork/juce_faustllvm
· source: https://github.com/CMRCYork/pMixFaustNodes
· binary: https://github.com/CMRCYork/pMix2/releases
· demo: https://vimeo.com/122268573

AND THE WINNER IS…

AND THE WINNER IS... GUITARIX

Guitarix, a virtual guitar amplifier. The input signal is processed by a main amp and a rack-section. More than 25 built-in modules are provided, from a simple noise gate to modulation f/x like flanger, phaser or auto-wah.

Guitarix main links:

· website: http://guitarix.sourceforge.net/
· source: http://sourceforge.net/p/guitarix/git/ci/
  master/tree/trunk/
· demo: https://www.youtube.com/watch?list=
  PLBgpFfzlUca1JDiVf9E_AX06VMtzDb_lr&t=26&v=
  t91xJUos10A

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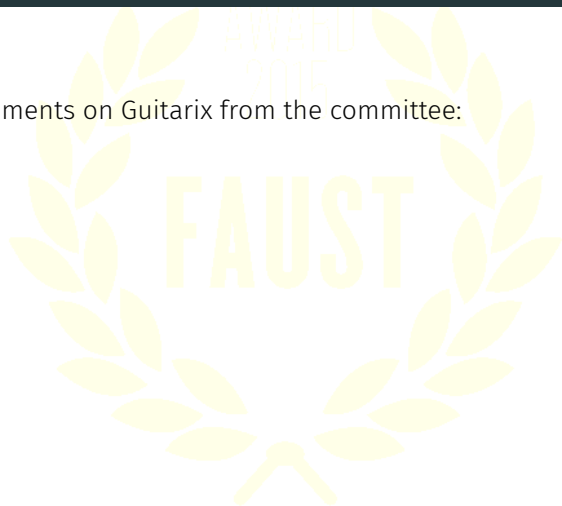
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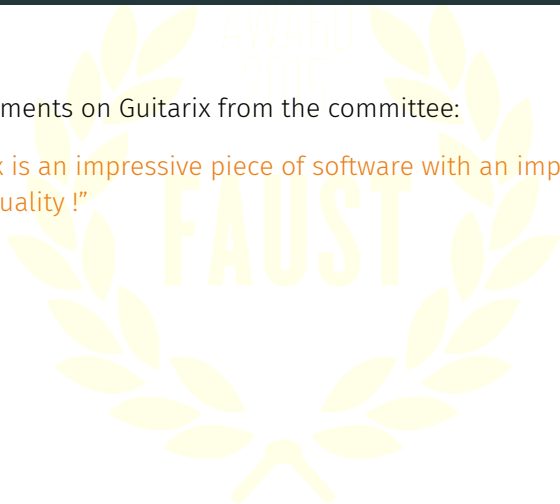
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- "I can say that I have a high opinion of the guitarix work."

CONGRATULATIONS TO GUITARIX !

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