ELSE - EL Locus Solus' Externals

Version 1.0 beta-10 (June 16th 2018)

Needs Pd 0.48-1 or above

This project is still in a beta phase, where drastic changes may occur and backwards compatibility is not guaranteed until a final release. Find latest releases at: https://github.com/porres/pd-else/releases

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See License.txt https://github.com/porres/pd-else/blob/master/License.txt and http://www.wtfpl.net/ for more details

Acknowldegdements

Special thanks to Flávio Luis Schiavoni, for helping me out in a few things, teaching me how to code and contributing to this library with the objects: [median~] and [keyboard].

I'd also like to thank my cyclone buddy Matt Barber, for developing the "magic" code I'm using here and also contributing with the [float2bits], [brown~], [gray~] and [pinknoise~] objects.

"EL Locus Solus" is run by me, Alexandre Torres Porres, and is a thing that organizes cultural events/concerts and music technology courses; website: http://alexandre-torres.wixsite.com/el-locus-solus

EL Locus Solus offers a computer music tutorial with examples in Pure Data for its courses. These are in portuguese as of yet, with plans for english translation and formatting into a book. There are over 350 examples for now and they were designed to work with Pd Extended 0.42-5, making extensive use of the existing objects available in Pd Extended's libraries.

Even though Pd Extended's libraries form a large set of external objects, at some point there was the need of something "else". Thus, this library emerged with the goal of provind extra objects. ELSE also started by stealing some ideas and stuff from SuperCollider, such as most of the chaotic generators UGENs.

But what started as a new library to include missing functionalities in the Pd Ecossystem (libraries from Pd Extended mostly) has now grown to encompass functionalities found in other Pd objects/libraries in Pd Extended, but with a different design and more functionalities, in order to remove many dependencies of the didactic material from these libraries. The reasons behind this is to rely on as little libraries as possible and also to get rid of many projects that are now long gone abandoned.

The goal of ELSE also outgrew the didactic material and includes now objects not necessarily depicted in the computer music examples. In fact, the didactic material has become quite obsolete with so much new objects on the table that it'll need a complete rewrite. Moreover, even basic elements from Pd Vanilla are being redesigned into new objects.

I'm also involved in maintaining Cyclone, a legacy library for Pd (see: https://github.com/porres/pd-cyclone). But ELSE is now in the process of superseding even cyclone, at least for the purposes of my didactic material.

Hence, ELSE is now a coming to be a quite big library, and keeps growing and growing, and it will take a while to stabilize. We can say then it's still in an early stage of development, that's why it's still in Beta stage, where drastic changes may occur and backwards compatibility is not guaranteed until a final release.

Downloading ELSE:

Look for the latest releases in https://github.com/porres/pd-else/releases - but ELSE is also available via 'deken' (Pd's external manager). In Pd, just go for Help => Find Externals and search for 'else'.

Installing ELSE:

This release has been tested with Pd Vanilla 0.47-1, not guaranteed to work in any other version or in Pd Extended/Purr Data. ELSE comes with a set of separate binaries, so you just need to add the "else" path to Pd.

Building ELSE for Pd Vanilla:

ELSE relies on the build system called "pd-lib-builder" by Katja Vetter (check the project in: https://github.com/pure-data/pd-lib-builder). PdLibBuilder tries to find the Pd source directory at several common locations, but when this fails, you have to specify the path yourself using the pdincludepath variable. Example:

make pdincludepath=~/pd-0.47-1/src/ (for Windows/MinGW add 'pdbinpath=~/pd-0.47-1
/bin/)

· Installing with pdlibbuilder

use "objectsdir" to set a relative path for your build, something like:

```
make install objectsdir=../else-build
```

Then move it to your preferred install folder for Pd and add it to the path.

Current Object list (247 objects):

```
ASSORTED: [2] - [nbang] - [table~]
PATCH/SUBPATCH MANAGEMENT: [7] - [args] - [blocksize~] - [click] - [properties] - [window] -
[loadbanger] / [lb] - [initmess]
MESSAGE MANAGEMENT: [13] - [break] - [fromany] - [toany] - [any2symbol] - [changed] - [order] - [hot] -
[setmess] - [pack2] - [routeall] - [routetype] - [sig2float~] - [float2sig~]
FILE MANAGEMENT: [1] - [dir]
MIDI: [17] - [sysrt.in] - [sysrt.out] - [ctl.in] - [ctl.out] - [touch.in] - [touch.out] - [pgm.in] - [pgm.out] - [bend.in] -
[bend.out] - [note.in] - [note.out] - [clock] - [panic] - [mono] - [voices] - [suspedal]
MATH: FUNCTIONS: [23] - [accum~] - [count] - [ceil] - [ceil~] - [floor] - [floor~] - [int~] - [rint] -
[quantizer \sim] - [quantizer] - [fold] - [fold \sim] - [lastvalue] - [mag] - [mag \sim] - [randf] - [randf \sim] - [randf] - 
[sin~] - [wrap2] - [wrap2~]
MATH: CONVERSION: [22] - [hex2dec] - [bpm] - [dec2hex] - [car2pol] - [car2pol~] - [cents2rato] -
[cents2ratio~] - [db2lin] - [db2lin~] - [float2bits] - [hz2rad] - [hz2rad~] - [lin2db] - [lin2db~] - [rad2hz] -
[rad2hz~] - [ratio2cents] - [ratio2cents~] - [pol2car] - [pol2car~] - [rescale] - [rescale~]
MATH: CONSTANT VALUES: [4] - [sr~] - [nyquist~] - [pi] - [e]
MATH: LOGIC: [1] - [loop]
AUDIO PLAYING: [2] - [player~] - [sampler~]
AUDIO PROCESSING: [8] - [downsample~] - [allpass.rev~] - [fbdelay~] - [ffdelay~] - [shaper~] - [crusher~]
- [drive~] - [noisegate~]
REVERB: [1] - [plateverb~]
FILTERS (21): - [allpass.2nd~] - [lop.bw~] - [hip.bw~] - [biquads~] - [bandpass~] - [bandstop~] -
[crossover~] - [bpbank~] - [bicoeff] - [biplot] - [brickwall~] - [eq~] - [highpass~] - [highshelf~] - [lowpass~] -
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[lowshelf~] - [resonbank~] - [resonbank2~] - [resonant~] - [resonant2~] - [mavg~]

OSCILLATORS (DETERMINISTIC GENERATORS): [24] - [cosine~] - [impulse~] / [imp~] - [impulse2~] / [imp2~] - [parabolic~] - [pulse~] - [saw~] - [saw2~] - [oscbank~] - [oscbank2~] - [sine~] - [square~] - [tri~] -

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[vsaw~] - [pmosc~] - [wavetable~] / [wt~] - [bl.imp~] - [bl.imp2~] - [bl.saw~] - [bl.saw2~] - [bl.sine~] - [bl.square~] - [bl.tri~] - [bl.vsaw~] - [bl.wavetable~]

CHAOTIC GENERATORS: [23] - [brown~] - [clipnoise~] - [crackle~] - [cusp~] - [fbsine~] - [fbsine2~] - [gbman~] - [gray~] - [henon~] - [ikeda~] - [latoocarfian~] - [lorenz~] - [lfnoise~] - [lincong~] - [logistic~] - [quad~] - [rampnoise~] - [randpulse~] - [randpulse2~] - [standard~] - [stepnoise~] - [pinknoise~] - [xmod~]

PHYSICAL MODELLING: [1] - [pluck~]

SIGNAL ROUTING: [10] - [balance~] - [pan2~] - [pan4~] - [rotate~] - [xfade~] - [xgate~] - [xgate2~] - [xselect~] - [xselect2~] - [mtx~]

CONTROL: [14] - [adsr~] - [asr~] - [autofade~] - [autofade2~] - [decay~] - [decay2~] - [fader~] - [glide~] - [glide2~] - [ramp~] - [susloop~] - [sequencer~] - [impseq~] - [lfo]

TRIGGERS: [23] - [coin] - [coin~] - [dust~] - [dust2~] - [gatehold~] - [gate2imp~] - [pimp~] - [tempo] - [tempo~] - [pulsecount~] - [pulsediv~] - [sh~] - [schmitt] - [schmitt] - [status] - [status~] - [trig.delay~] - [trig.delay2~] - [match~] - [trig2bang~] - [trighold~]

SIGNAL ANALYSIS: [11] - [changed~] - [changed2~] - [elapsed~] - [lastvalue~] - [median~] - [peak~] - [rms~] - [vv~] - [past~] - [zerocross~]
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GUI: [17] - [mtx.ctl] - [pic] - [colors] - [slider2d] - [display] - [display~] - [out~] - [gain~] - [gain2~] - [keyboard]

- [graph~] - [meter~] - [meter2~] - [mix2~] - [mix4~] - [setdsp~] - [openfile]

EXTRA: [1] - [output~]