

The Litter Power Package

Version 1.2

September 27, 2003

- What's New (Version 1.2)

New utilities: lp.sigma, lp.delta, lp.pi, and lp.logos. All inlets are active, so a change to any value triggers output of the result of the calculation. Sigma and pi will add and multiply up to 256 inlets, delta calculates differences (left minus right, right minus left, and the absolute difference), and logos gives you quotient and modulo (naturally for both ints and floats). Help files should now have better word wrapping under OS X, no matter what anti-aliasing settings are chosen.

Beta version of Litter Power for Windows available for Litter Pros.

- What's New (Version 1.1.1)

Fully Carbonized objects for Max under OS X!

New objects with chaotic properties: simple population growth model (lp.poppy and lp.poppy~), Lyapunov space (lp.lya), Schuster/Procaccia 1/f signal generator (lp.ccc and lp.ccc~).

The objects lp.nn~ (signal degrading, supporting the mind-boggling notion of fractional bit-resolution) and lp.trrr~ (a noise signal with a linear distribution, a textbook solution for dithering) have been made available in the Starter Pack.

- What's New (Version 1.02)

Gaussian and triangular noise (primarily for dithering), variable-color noise, variable-color and black random number generators. Signal degradation with fractional bit resolution!

- What's New (Version 1.0)

Everything. All objects from the original Litter Package have been re-written as external objects. New random number distributions have been added (I Ching, dice, finite urn model, log-normal, parametric linear congruence, Tausworthe 88 and TT800 generators). Improved implementations of fractal noise generators. And:

- MSP objects for generating noise (pink, brown, gray, black, very white, popcorn, PLC, and LF noise)
- Real-time implementations of Interval Mutation algorithms
- Cartesian-to-polar conversion and phase unwrapping (compatible with both MSP 1.x and MSP 2).
- Statistics object now calculates skew and kurtosis (as well as count, min/max, mean and standard deviation).
- Mapping objects (scale, offset, and limit; all in one convenient package)

- I Ching mapping and I Ching texts
- Multiple improvements to existing random number generators

- License Overview

Litter is divided into a freeware Starter Pack and a commercial Professional Bundle. The Pro Bundle includes the right to sell programs created in Max using Litter objects, something that was not permitted under the original freeware Litter license.

- History

September 2003

Released 1.2 final for Classic OSs and OS X; beta version for Windows XP

June 2003

Fixed minor bug in lp.pi.help.

May 2003

- Loosened up comment boxes for better wrapping under OS X anti-aliasing settings.

March 14-17, 2003

- Added lp.sigma, lp.pi, lp.delta, and lp.logos.
 - Added exponential and power scaling to lp.scampf and lp.scampi. Also added scale mode, allowing specification of upper/lower limits for input and output range instead of the more direct (but more difficult for users to calculate) scale/offset.

March 3, 2003

- Fixed icon for Carbon version of lp.norm

March 2, 2003

- Dispensed with labels for OS X objects (one of the more aggravating changes in X is the lack of label support). New custom icons for OS X objects reflect pro/starter status.
 - Fixed assistance string for lp.loggie's middle inlet. (Inadvertently changed to "beta" while updating version resources. Global search-and-replace is a powerful tool, but you can shoot yourself in the foot with it.)

February, 2003

- Rebuilt Starter Pack Overview on the model of the Pro Overview. Also changed name to the more pronounceable "Litter Starter Pack Overview"
 - Moved lp.trrr~ and lp.nn~ to the Starter Pack.
 - Fixed OS X exception with lp.frim~ (this was insanely harmless, but OS X wasn't to know).
 - Corrected inaccuracy in lp.ccc~.help.

January, 2003

- Added "Chaotic Processes" to Litter Power Overview
 - Modified menu handling in Pro overview.

December, 2002

- Added fully Carbon-capable (ie, OS X) versions of all objects.
- New objects: lp.ccc~, lp.lya, lp.poppy, lp.poppy~.
- Streamlined handling of version information.
- All objects now responded consistently to the Get Info... command.
- Renamed Overview file for :patches:extras:.
- Tidied up several .help files.

April 10, 2002: Litter Power 1.1 beta distributed.

- First objects implementing chaotic algorithms: lp.poppy and lp.poppy~ (simple population growth model), lp.lya (Lyapunov spaces), plus experimental implementations of Julia sets and Verhulst models (not yet finalized).

May 11, 2002: Litter Power Starter Pack and Professional Bundle 1.03

- Fixed bug in lp.scampf whereby min/max were converted to integer.

March 5, 2002: Litter Power Starter Pack and Professional Bundle 1.02

- New objects lp.gsss~ (Gaussian noise), lp.nn~ (signal degradation), lp.phhh (black noise), lp.pvvv and lp.pvvv~ (variable color noise), and lp.trrr~ (triangular distribution/dithering noise) to Professional Bundle.
- Overall performance improvements with MSP objects.
- Made version information available in collectives/stand-alones (all objects), overcoming Max' refusal to copy 'vers' resources (arghh).
- Added support for tab selection between number boxes in many .help files, as well as improving some cosmetic issues.
- Lp.linnie finds its resources.
- A more compact version of the Pro Overview

January 22, 2002: Litter Power Professional Bundle 1.0 released.

January 22, 2002: Litter Power Starter Pack 1.01a

- Overview Patcher: Included logo as picture instead of fpic.
- Documentation: documented obands message to lp.frim~ and added examples.
- License: Made explicit the right of the user to make copies for her own use.

January 17, 2002: Litter Power Starter Pack 1.01 released

- Included Litter Power logo (used as decoration in .help files)
- Documentation: moved page for lp.phhh~ to correct alphabetical order, updated documentation of Pro Bundle components, added more examples. Extended bibliography. Various typographical errors corrected.
- Modified Overview document to be somewhat more robust/friendly regarding default colors. Corrected placement of lp.phhh~.
- Modified Resource numbering to be more Collective-friendly.

January 9, 2002: Litter Power Starter Pack 1.0 released