

L-Py

Change Log

July 24th 2009: version 1.4.0 (rev 6689):

Introduce `Lsystem::Debugger`

Introduce first ui of a Lsystem Debugger.

fix bug with animation when resuming (avoid reloading text)

July 17th 2009: version 1.3.0 (rev 6635):

Introduce static rules

introduce structures `PatternModule` and `PatternString`

add parametric production (to avoid use of python list)

add optimization level option

add not named variable to avoid useless arg value retrieval

add heuristic to find static rule and not named variable

add `RuleMap` to avoid useless test

Introduce compilation with `Cython`

Introduce compilation with `python -OO`

add possibility to store arg into a vector instead of creating a python list when retrieving arg.

enable switching order of simulation in tab

fix bug with first view computation in animation

fix bug with query module value assignment

allow lazy copy of parameters

add examples/tutorial/models

Regular Expression in strict predecessor

introduce `or` module to alternative matching

add possibility to retrieve directly module

add possibility to name parameters of module and access them as member of the module

make particular test for matching with module any (or *)

improve iterator

check index when accessing module parameter. Throw exception if required.

allow produce None to produce empty string

fix bug with selection

fix bug updateNamespace function of LsysContext.

fix bug with PyQt/Qt4.5

May 30th 2009: version 1.2.0 (rev 6470):

Introduce option `early return` when no matching

raise error/warning when detecting # smb

fix bug with alias

Introduce `filtering` on parameter value

Introduce `Repeated Expression`

`getVarNb` function added

Introduce `Category of Module`

Introduce `Tropism`

Introduce `SetContour` of `GeneralizedCylinder`

Introduce production of `new(name)` and produce of `A(*arg)`

Introduce `GetIterator` on some part of the structure

March 17th 2009: version 1.1.0 (rev 6096):

Compatibility with PlantGL : `RefCountPtr/pgl_hash_map/?`

Compatibility with OpenAlea : update nodes

Introduce `MatchingEngine`

add `StringMatchingMethod`

Introduce multiscale matching with `MScaleAxialTree` and `MLevelAxialTree`

use template method for matching

Introduce `ModuleVTable` to add property to module class

Introduce `scale` property

simplify some wrapping code

fix bug with context activation

October 8th 2008: version 1.0.0 (rev 5581):

small bug fix mainly on MacOSX

improve packaging

September 11th 2008: version 1.0.0 release candidate 3 (rev 5529):

split tool bar into 2.

add `Save All` feature.

fix small bug with `Lsystem` initialisation.

fix bug with text encoding and `SyntaxHighlighter`.

fix bug with path on `compile_ui rc` generation.

fix bug with `SyntaxError`. Treat them as special case.

add arguments to `EndEach`.

correct bugs with `str` and `repr` on `AxialTree`.

make `saveImage` re definable.

simplify `plot` redefinition api. A `plotter` object can be pass.

September 4th 2008: version 1.0.0 release candidate 2 (rev 5469):

fix bug with signal `valueChanged()` of material editor.

fix bug with import of local python file.

compatibility with `py2exe`.

August 13th 2008: version 1.0.0 release candidate 1 (rev 5408):

fix small text encoding bugs.

release candidate version.

August 12th 2008: version 0.20.2 (rev 5401):

introduce `LpyParsing` namespace.

introduce set of function and member of `LpyParsing` to check format version compatibility and support.

format version test in parsing.

simple test of gui.

gui stream redirection improvement.

change variable `tree` to `lstring` into python shell of gui.

update documentation.

add `documentation.getWikiSpecification`.

August 11th 2008: version 0.20.1 (rev 5397):

now load initialisation code before `lpy` code in `Lsystem.set`. Add a test for this.

fix bugs with add/remove tab and comment in code editor. add icons to the buttons.

add possibility to enable/disable view of tab in code editor.

add option to see text below button of tool bar.

add automatic test of examples of `share/`.

August 8th 2008: version 0.20.0 (rev 5394):

text editor improvement:

add text zooming capability.

font and size selection.

tab space replacement and tab size control.

file monitoring.

tool bar style selection.

preference dialog.

August 7th 2008: version 0.19.2 (rev 5390):

automatic reload of last opened document.

add new rule to syntax highlighting:

- -
- function names are in magenta.

strings are in grey.

tabs and spaces of the beginning of a line are marked in different greys to prevent mixing.

operators and delimiters are in dark blue.

number are in red.

make smaller border in the gui.

fix bug with closing application and saving documents.

set simulation in modified state when changing options.

August 6th 2008: version 0.19.1 (rev 5388):

add module undeclaration and query module declaration features.

fix bug with parsing and comments.

improve lines correspondence in lpy translation.

syntax error highlight in editor.

fix bug with project code mess up when several project are opened in Gui.

August 5th 2008: version 0.19.0 (rev 5385):

change GUI interface to have dock widgets and multiple documents editing.

remove modules `G` and `g`.

remove `None` module from doc.

July 28th 2008: version 0.18.1 (rev 5351):

replace `PYLSYS` prefix by `LPY`.

remove `StringInterpreter` class.

add documentation to predefined modules.

July 24th 2008: version 0.18.0 (rev 5338):

Rename project as `lpy`. Change file and dir names accordingly.

fix bug with `produce *`

separate matching from application in `LsysRule` (now has `match` and `applyTo` functions).

fix bug with `LsysOption.isToDefault`.

clean examples of `share/`.

July 21th 2008: version 0.17.2 (rev 5278):

Fix bug with `GlobalContext`. Add a `__local_namespace` to contain `LsysRule` code.

Add memory tracker (`TRACKER_ENABLED` to activate) with memory report on `stderr` at the end.

`LsysRule` :

with `*args` variable name in `LsysRule` generated code.

with use of `*` module: first arg is always matched module name.

with left matching of rule in backward mode.

remove `LsysContext` from stack when deleted.

Lsystem object:

possibility to enabled or disabled (`makeCurrent` or `done`) its context.

print declared modules when print.

report query module and axialtree parsing code in `lpy_parser`.

`ModuleClass` are augmented with an active state. Allow to use always the same `ModuleClass` in different namespaces.

matching tests are a lot augmented.

July 2nd 2008: version 0.15.1 (rev 5178):

use declared module in rule predecessors.

July 2nd 2008: version 0.15.0 (rev 5171):

add module declaration:

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introduce `ModuleClass` and `ModuleClassTable`.

look for longest name when parsing `Lstring`.

`LsysContext` has their own `moduleclass` namespace.

add `sceneInterpretation` in `Lsystem` to get homomorphism resulting `Scene`.

process line starting by `#` as comment line in production blocks of `lpy` code.

June 17th 2008: version 0.14.1 (rev 5119):

Fix bug with space in `Lsystem` string.

Fix bug with window specific end line in `Lsystem` code.

Fix bug with `nproduce` in `Lsystem` rules.

Add tests normalized with `nosetests` convention.

Fix bugs with `LsysOption` template and `gcc`

Redefined `len` `cpp` function in `lsysrule.cpp` now compatible with all `boost.python` version.

June 12th 2008: version 0.14.0 (rev 5086):

Define `LsysOptions` class and mechanism to simply add an option, its possible value and corresponding slots.

Add an `LsysOptions` to `LsysContext`.

Graphic edition of the options of `LsysContext`.

Avoid copying of `LsysRule` when iterating in `Lsystem`.

StringInterpreter has now possibility to change of Turtle.

GUI:

First call of Step produces now the axiom.

May 23th 2008: version 0.12.2 (rev 4924):

change error for homomorphism rule with context as warning

add possibility to give a function to retrieve selection (similarly to plot)

May 22th 2008: version 0.12.1 (rev 4920):

add recursive application of rules for homomorphism and turtle interpretation.

add selection and insertion by a x module

correct bug in parsing with line starting by 'e'

May 21th 2008: version 0.12.0 (rev 4919):

StringMatching structure to keep id matching after rule application

May 15th 2008: version 0.11.0 (rev 4902):

add groups of rules in Lsystems.

small bug fix in post_install script

May 15th 2008: version 0.10.1 (rev 4895):

prevent multiple access of Lsystem even from same thread. Resolve warning from April 29th 2008.

May 15th 2008: version 0.10.0 (rev 4893):

animation_timestep is a property of context that can be changed during animation and is taken into account.

animation_timestep is now saved into lpy file.

add the module @g in string interpreter to plot custom plantgl geometric symbol.

add the module _ in string interpreter to change width. Will replace module # in the future.

add a parameter to endBracket and beginBracket of AxialTree to define if current pos is [and] respectively if search should start before or after.

fix matching bug for A[B[C]D]D with A > [B]D.

May 14th 2008: version 0.9.0 (rev 4892):

process lpy file into one py file to have exact correspondence of lines for exceptions.

axiom, maximum depths and derivation length are now converted as python variables which are imported after.

introduce nproduce statement.

error are improved to allow syntax error, warning and syntax warning- when parsing lpy file, explicit exceptions for lpy special command error.

code editor highlight line in case of error at execution.

filename, decompositionMaxDepth and homomorphismMaxDepth are now properties of a Lsystem.

May 13th 2008: version 0.8.0 (rev 4889):

Merge kernel and gui. Gui is now a submodule of kernel.

May 13th 2008: develop version 0.5.2 of Gui (rev 4885):

add case sensitivity and whole word options into find feature

add replace and replaceAll feature

add automatic tabulation when enter is pressed (take into account if previous line ends by a semicolon)

tabulation is done with LsysCodeEditor.indentation which can be set to '\t' or ' '*n

April 29th 2008: develop version:

A mutex now protect access to Lsystem object from multiple thread. Add `isRunning` function to test whether it currently perform any action. **Warning:** It does not prevent multiple access from same thread (to allow embedded call of protected action e.g. run calling `iterate`, ?).

April 29th 2008: develop version:

Create default Lsystem execution context containing `_builtins_` and `openalea.pylsystems.*`. Accessible from `LsysContext.defaultContext()`. Have `_main_` context accessible using `LsysContext.globalContext()`.

April 29th 2008: release version:

Now version is controlled by the hexadecimal number `_version_` in `pylsystem._version_`. Some variables such as `LPY_VERSION_[STR|MAJOR|MINOR]` are created. Similar things for `LPYGUI_VERSION_*`. This number is directly imported into `setup.py` to create egg. The rev is added in the `*_VERSION_STR`. **Warning:** the `_version_` file has to be committed to obtain the last revision version value.