## Friday 11 June 2010

Issues:

- 1. Every class that has an association or composition eventually will need its own custom view page template, e.g. sed\_view. For the moment I have set the default view for these classes to dev\_view ( a copy of base\_view ).
- 2. An association in UML is cast as a ReferenceField in the resulting class schema. Open the association and add the widget:label tag to the class that is being associated.
- 3. The default description text for a class should be a informative description of the class, not the instance, derived from the SED-ML manual.
- 4. Apply 'searchable' tags to the appropriate class attributes.
- 5. I choose 'isTidyHtmlWithCleanup' as the MathML validator. Will this work?
- 6. What should be added to our implementation of SED-ML to make it more than merely a mirror image of the SED-ML XML format?
  - a. The ability to attach files at various points, e.g. parameter files.
  - b. Additional output types, e.g. animations.
  - c. Custom page templates
  - d. Custom search form
  - e. Custom catalog indexes
  - f. Custom portlet(s)
  - g. Custom viewlet(s)

## Friday 24 September 2010

#### To Do:

- 1. Publish our mercurial repositories (Chris/Martin). This may mesh with deploying Plone.
- 2. Create a vleaf mailing list (Henk).

Found an article on SBRML - a markup language for associating systems biology data with models. At a glance the schema seems bigger than SED-ML's, but SBRML appears to be SBML specific.

## Monday 27 September 2010

Spoke with Chris about publishing the Mercurial repositories and deploying Plone. Both can be accomplished in their own project space on a server in the DMZ. Chris said he would supply me with login credentials for both accounts. I will install Plone and Chris (or Maarten) will help me configure Apache/nginx and Varnish. Chris will install the required Mercurial packages; after which I can clone the repositories to their new home.

## Tuesday 5 October 20010

### tutorial0.pro

Added simplugin.h to list of header files. NB: this is the only tutorial in which simplugin.h appears.

#### auxingrowthplugin.h

Declared, and defined, a virtual function named DefaultLeafML() which merely returns a QString naming a LeafML filename sans path.

### VirtualLeaf.cpp

Moved Cell::SetMagnification() and Cell::SetOffset() from main() to
MainBase::Init().

#### canvas.h

Declare exportCellData().

#### canvas.cpp

Add an 'Export cell areas' to the file dropdown menu which invokes - surprise - Main::exportCellData():

```
void Main::exportCellData(void) {
  QFile file("areas.csv");
  if ( file.open( IO_WriteOnly ) ) {
    QTextStream stream( &file );
    mesh.CSVExportCellData(stream);
    mesh.CSVExportMeshData(stream);
    file.close();
  }
}
```

#### mesh.h

Include <QTextStream>

Set the boundary\_poloygon pointer to zero in the class constructor, and delete it, if it exists, in the class destructor.

**Declare** Compactness(), CSVExportCellData() and CSVExportMeshData():

```
double Compactness(double *res_compactness=0, double *res_area=0, double *res_cell_area=0);
void CSVExportCellData(QTextStream &csv_stream) const;
void CSVExportMeshData(QTextStream &csv_stream);
```

#### mesh.cpp

In mesh::clear(), delete the boundary\_polygon only if the pointer hasn't been assigned:

```
if (boundary_polygon) {
   delete boundary_polygon;
   boundary_polygon=0;
}
```

Ditto for mesh::clean().

Define the code for Compactness(), CSVExportCellData() and CSVExportMeshData().

### modelcatalogue.cpp

In  ${\tt InstallModel()}$  , find and load the default LeafML file.

### simplugin.h

```
Declare DefaultLeafML():
```

```
// Default LeafML-file to be read after model startup
virtual QString DefaultLeafML(void);
```

### simplugin.cpp

Define DefaultLeafML(). Returns an empty QString:

```
QString SimPluginInterface::DefaultLeafML(void) { return QString(); }
```

### xmlwrite.cpp

In Mesh::XMLReadCells() - Delete the boundary\_ploygon only if its pointer has been assigned.

# Wednesday 6 October 2010

Wrote Simon van Mourik about his missing libiconv-2.dll.

# Thursday 7 October 2010

Added a Q3FileDialog in canvas.cpp:Main::exportCellData(void) to choose where to write the exported cell data.

# Friday 8 October 2010

Added new parameters to control perodic cell exprt data.

Added code to relize perodic cell export.

## Monday 11 October 2010

### **Mercurial hooks**

Tried several alternatives for Mercurial's pretxnchangegroup.forbid\_2heads hook.

- 1. http://bitbucket.org/dgc/headcount: Headcount ui complains of a missing data member
- 2. http://stackoverflow.com/questions/1705921/useful-mercurial-hooks: forbid2\_heads.py doesn't load
- 3. http://davidherron.com/node/961: forbid2\_heads.sh works as advertised

### **Mercurial Repositories**

Tried to install Rhode Code from: http://packages.python.org/RhodeCode.

- 1. http://bitbucket.org/marcinkuzminski/rhodecode
- 2. http://packages.python.org/RhodeCode, http://pypi.python.org/pypi/RhodeCode/1.0.0rc3

- 3. http://hg.python-works.com (demo,demo)
- 4. http://bitbucket.org/bfrog/cutehg
- 5. http://pypi.python.org/pypi/SIP, http://www.riverbankcomputing.com/hg/sip
- 6. http://pypi.python.org/pypi/PyQt
- 7. http://ask.github.com/celery

All goes tolerably until you tick in the url; at which point RhodeCode complains that:

Exception happened during processing of request from ('127.0.0.1', 35803)
Traceback (most recent call last):
File "/ufs/guravage/.archive/mas/mr/thodecode/lib/python2.5/site-packages/Paste-1.7.5.1-py2.6.egg/paste/httpserver.py", line 1068, in process_request_in_thread self.finish request(request, client address)
File "/ufs/guravage/opt/Python-2.6.2/lib/python2.6/SocketServer.py", line 320, in finish request
self.RequestHandlerClass(request, client_address, self)
<pre>File "/ufs/guravage/opt/Python-2.6.2/lib/python2.6/SocketServer.py", line 615, ininit self.handle()</pre>
File "/ufs/guravage/.archive/mas/mr/rhodecode/lib/python2.6/site-packages/Faste-1.7.5.1-py2.6.egg/paste/httpserver.py", line 442, in handle BaseHTTPRequestHandler.handle(self)
File "/ufs/guravage/opt/Python-2.6.2/lib/python2.6/BaseHTTPServer.py", line 329, in handle self.handle_one_request()
File "/ufs/guravage/.archive/mas/mr/rhodecode/lib/python2.6/site-packages/Paste-1.7.5.1-py2.6.egg/paste/httpserver.py", line 437, in handle_one_request self.wsqi execute()
Sell.wsgexecute() File "/ufs/guravage/.archive/mas/mr/rhodecode/lib/python2.6/site-packages/Paste-1.7.5.1-py2.6.egg/paste/httpserver.py", line 287, in wsgi_execute self.wsgi start response)
<pre>sell.wsgl_scatresponse/ File "/ufs/guravage/.archive/mas/mr/rhodecode/lib/python2.6/site-packages/Paste-1.7.5.1-py2.6.egg/paste/cascade.py*, line 130, incall return self.apps[-1](environ, start response)</pre>
File "/ufs/guravage/.archive/mas/mr/rhodecode/lib/python2.6/site-packages/Paste-1.7.5.1-py2.6.egg/paste/registry.py", line 379, incall app iter = self.application(environ, start response)
File */ufs/guravage/.archive/mas/mr/rhodecode/lib/python2.6/site-packages/RhodeCode-1.0.0rc1-py2.6.egg/rhodecode/lib/middleware/https_fixup.py*, line 33, incall_
return self.application(environ, start_response) File "/ufs/guravage/.archive/mas/mr/rhodecode/lib/python2.6/site-packages/Pylons-1.0-py2.6.egg/pylons/middleware.py", line 163, incall
<pre>self.app, new_environ, catch_exc_info=True)</pre>
File "/ufs/guravage/.archive/mas/mr/rhodecode/liD/python2.6/site-packages/Pylons-1.0-py2.6.egg/pylons/util.py", line 48, in call_wsgi_application app iter = application(environ, start response)
File */ufs/guravage/.archive/mas/mr/rhodecode/lib/python2.6/site-packages/WebError-0.10.2-py2.6.egg/weberror/errormiddleware.py*, line 156, incall return self.application(environ, start response)
File "/ufs/guravage/.archive/mas/mr/rhodecode/lib/python2.6/site-packages/RhodeCode-1.0.0rcl-py2.6.egg/rhodecode/lib/middleware/simplehg.py", line 55, incall return self.application(environ, start response)
File "/ufs/guravage/.archive/mas/mr/rhodecode/lib/python2.6/site-packages/Beaker-1.5.4-py2.6.egg/beaker/middleware.py", line 152, incall
File "/ufs/guravage/.archive/mas/mr/rhodecode/lib/python2.6/site-packages/Routes-1.12.3-py2.6.egg/routes/middleware.py", line 131, incall response = self.app(environ, start response)
File "/ufs/guravage/.archive/mas/mr/rhodecode/lib/python2.6/site-packages/Pylons-1.0-py2.6.egg/pylons/wsgiapp.py*, line 98, incall self.setup app env(environ, start response)
File "/ufs/guravage/.archive/mas/mr/rhodecode/lib/python2.6/site-packages/Pylons-1.0-py2.6.egg/pylons/wsgiapp.py", line 203, in setup_app_env
<pre>pylons_obj.translator = _get_translator(lang, pylons_config=self.config) File */ufs/guravage/.archive/mas/mm/rhodecode/lib/python2.6/site-packages/Pylons-1.0-py2.6.egg/pylons/il8n/translation.py*, line 165, in _get_translator raise LanguageError('lOBTror: %s' % ice)</pre>
LanguageError: IOError: [Errno 2] No translation file found for domain: 'rhodecode'

### **RE-INSTALL**

- 1. easy\_install mercurial
- 2. mkdir src
- 3. cd src
- 4. hg clone http://www.riverbankcomputing.com/hg/sip
- 5. cd sip
- 6. python build.py prepare
- 7. python configure.py
- 8. make
- 9. make install
- 10. cd ..
- 11. curl http://www.riverbankcomputing.com/static/Downloads/PyQt4/PyQt-x11-gpl-4.7.7.tar.gz
- 12. tar xzf PyQt-x11-gpl-4.7.7
- 13. cd PyQt-x11-gpl-4.7.7
- 14. python configure.py
- 15. make
- 16. make install
- 17. cd ..
- 18. hg clone https://litsol@bitbucket.org/bfrog/cutehg

- 19. cd cutehg
- 20. python setup.py build
- 21. python setup.py install

22. cd .. 21. easy\_install rhodecode, http://pypi.python.org/pypi/RhodeCode/1.0.0rc2

This procedure fails as before.

However, upon inspection I saw that the i18n directory was missing from my build but present in the rhodecode clone from bitbucket. While I think that the <code>easy\_install rhodecode</code> invocation is necessary to install the various subsidiary packages, moving the cloned rhodecode into the site-packages directory seems to have made most functionality work. e.g. graphical logs and diff highlighting.

# Tuesday 12 October 2010

## RhodeCode

I think that if Chris can install RhodeCode, I can serve individual instance from my home directory.

### SED-ML L1V1RC1

Walking through the new SED-ML schema I see that they've dropped the generic simulation class and added AddXML and RemoveXML model change classes. Adding several more SED-ML examples for the symposium might still be justified - though they become obsolete the moment I introduce the new schema changes.