# Release Notes - OpenSHAPA: 0.2 Alpha

## 62: Database - Refactor ...AreLogicallyEqual methods to be .equal methods, and associated hash codes

Performed under the hood refactoring to improve code performance and parallel java coding paradigms.

## 102: Scripting - implement jruby so that users can write scripts to manipulate openSHAPA databases.

Added the foundations of a scripting engine to OpenSHAPA. The scripting engine is powered by the ruby scripting language, for further information on the structure of this language see: http://www.ruby-lang.org/en/

## 129: Scripting - canned script to show how to import data.

Created an example showing how to import data from text files (CSV) using a ruby script.

## 148: Scripting doesn't display meaningful syntax errors.

When running a script; a console window is now displayed that contains all output from a script (i.e. stuff like puts), this console window also displays improved error recovery for when a user attempts to use a malformed script.

## 140: Sample rb script does not import cells of text data

Tweaked the sample script so that cell data is correctly pulled in on the mac.

## 111: Spreadsheet, new variable, list variables all not displaying on the mac.

When attempting to display the spreadsheet, new variable or list variables dialogs; They now correctly appear in java1.5 on mac OSX 10.4.

## 127: Spreadsheet - Mouse wheel to scroll through the spreadsheet.

When navigating the spreadsheet; users are able to use a mouse wheel to scroll up and down the spreadsheet.

## 64: Quicktime Controller - Discrepency between controller and created cell time.

When creating cells using the quicktime video viewer; the timestamp created for the onset now has the correct value.

## 70: Empty spreadsheet columns must display width correctly

When displaying a spreadsheet containing empty columns; the empty columns are correctly padded so that all cells are correctly aligned.

## 55: Spreadsheet - Implement column selection.

Users are now able to select and highlight spreadsheet columns.

Produced by FogBugz