



The SBML Java™ library

<http://sbml.org/Software/JSBML>

JSBML

- Compromise:
 - High compatibility to libSBML
 - Java-like library
- Main developers
 - Nicolas Rodriguez and Andreas Dräger
 - NR available during the whole meeting to answer JSBML-related questions

Status

- Version 0.8-rc2 just released
(<https://sourceforge.net/projects/jsbml/files/jsbml/0.8-rc2/>)
 - Final release close
 - Support all levels and versions
- Version 1.0
 - Support for SBML level 3 packages
 - Adding a libsbml compatibility module

- SBML L3 packages implemented :
- Qual
- Layout
- Groups
- Fbc
- On the way : Render, Spatial, Multi



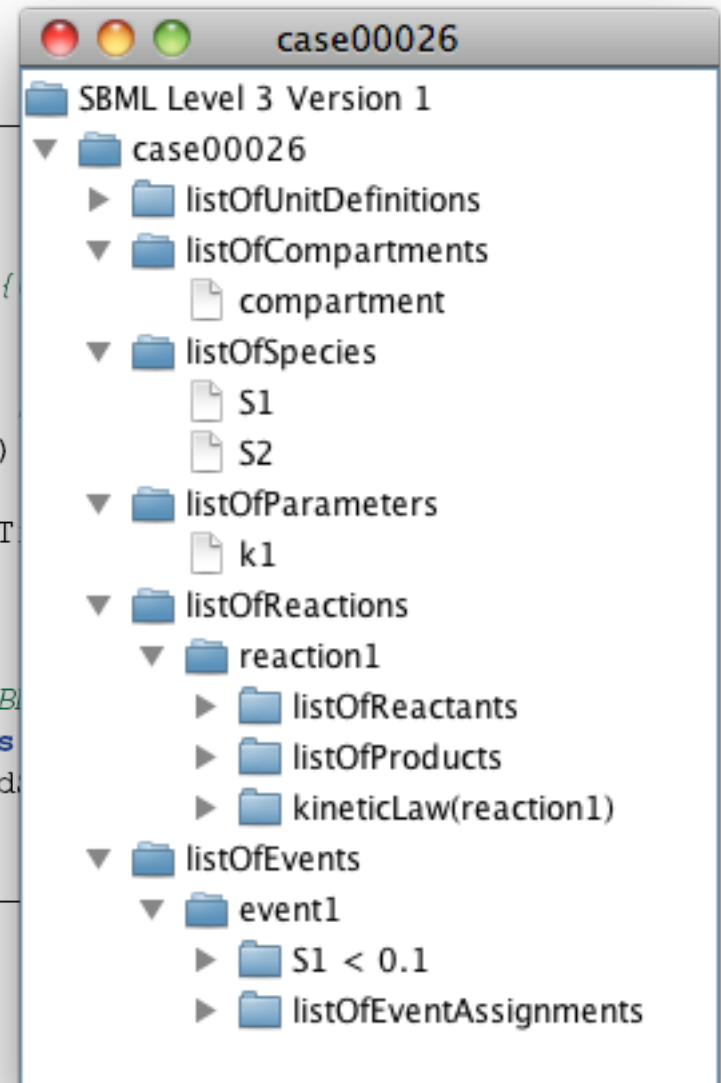
How to get started?

Obtaining JSBML

- `https://sourceforge.net/projects/jsbml/files/jsbml`
- Download the file `jsbml-X.Y-with-dependencies.jar`.
- Once you have added it to the Java CLASSPATH, you can start working with JSBML.

Visualizing the content of an SBML file

```
1 import javax.swing.*;
2 import org.sbml.jsbml.*;
3
4 /** Displays the content of an SBML file in a JFrame {
5 public class JSBMLvisualizer extends JFrame {
6
7     /** @param document The sbml root node of an
8     public JSBMLvisualizer(SBMLDocument document)
9         super(document.getModel().getId());
10     getContentPane().add(new JScrollPane(new JTextArea()));
11     pack();
12     setVisible(true);
13 }
14 /** @param args Expects a valid path to an SBML file
15 public static void main(String[] args) throws IOException {
16     new JSBMLvisualizer((new SBMLReader()).readSBMLFile(args[0]));
17 }
18 }
```



How to compile a L3 package

- Checkout the sources from sourceforge
svn co <https://jsbml.svn.sourceforge.net/svnroot/jsbml/trunk/jsbml>
cd jsbml/core
ant jar
cd ../extension/qual
ant jar
now, includes the jar file from core/build, core/lib, extension/qual/build
- Generating a big jar, including jsbml-qual:
cp extension/qual/build/*.jar core/lib
cd core
ant bigjar
now, you have a jsbml-X.Y-with-dependencies.jar that contains jsbml-qual as well
- All of this will be automatised and we will provides the pre-compile jar files in the future

How to contribute

Creating a patch:

- Checkout the sources from sourceforge
`svn co "https://jsbml.svn.sourceforge.net/svnroot/jsbml/trunk jsbml"` JSBML
- Do your modifications, then create a patch file:
`svn diff > jsbml-patch.txt`
- Attach it to a tracker item or send it through the development list.

Bug trackers:

- http://sourceforge.net/tracker/?group_id=279608&atid=1186776
- <https://www.pivotaltracker.com/projects/499447>

Mailing lists:

- jsbml-development@caltech.edu: public list with discussion about the development of JSBML and support for users.
- jsbml-team@caltech.edu: private list for the JSBML team where anybody can send mails for support or bugs reports.

JSBML: a flexible Java library for working with SBML

Andreas Dräger^{1,*†}, Nicolas Rodriguez^{2,†}, Marine Dumousseau², Alexander Dörr¹,
Clemens Wrzodek¹, Nicolas Le Novère², Andreas Zell¹ and Michael Hucka^{3,*}

¹Center for Bioinformatics Tuebingen (ZBIT), University of Tuebingen, Tübingen, Germany, ²European Bioinformatics Institute, Wellcome Trust Genome Campus, Hinxton, Cambridge, UK and ³Computing and Mathematical Sciences, California Institute of Technology, Pasadena, CA, USA

Associate Editor: Jonathan Wren

Thanks

<http://sbml.org/Software/JSBML>