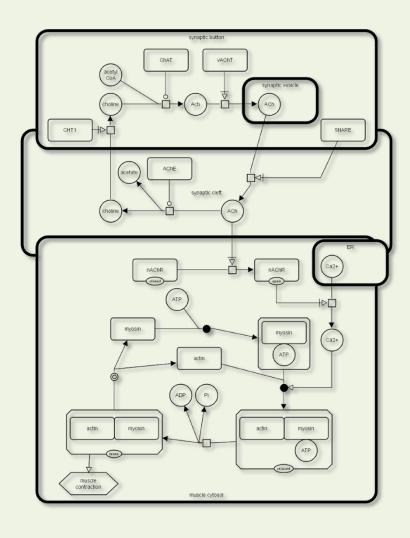


Rendering Information & SBGN-ML

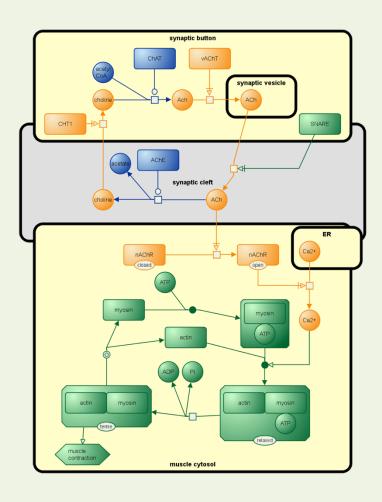
Frank T. Bergmann fbergman@caltech.edu



Color Please!



Color Please!



- Edges:
 - Stroke: color, width

- Nodes:
 - Stroke: color, width
 - Fill: color / gradient

Assigned to: id, role, type

- Edges:
 - Stroke: color, width

- Nodes:
 - Stroke: color, width
 - Fill: color / gradient

Apply style to arc / port / node with given id.

Assigned to: id, role, type

- Edges:
 - Stroke: color, width

- Nodes:
 - Stroke: color, width
 - Fill: color / gradient

Assigned to: id, role, type

Apply style to arc / port / node with specified class, for example all simple Chemicals

- Edges:
 - Stroke: color, width

- Nodes:
 - Stroke: color, width
 - Fill: color / gradient

Apply style to arc / port / node with new attribute 'objectRole'.

Assigned to: id, role, type

Render Extension

Complementing layout information with render information in SBML files

Ralph Gauges, Sven Sahle and Katja Wegner
University of Heidelberg
Im Neuenheimer Feld 267
D-69120 Heidelberg
Germany

May 25, 2011

How does it work?

List of Color Definitions:

List of Gradient Definitions:

How does it work?

List of Styles:

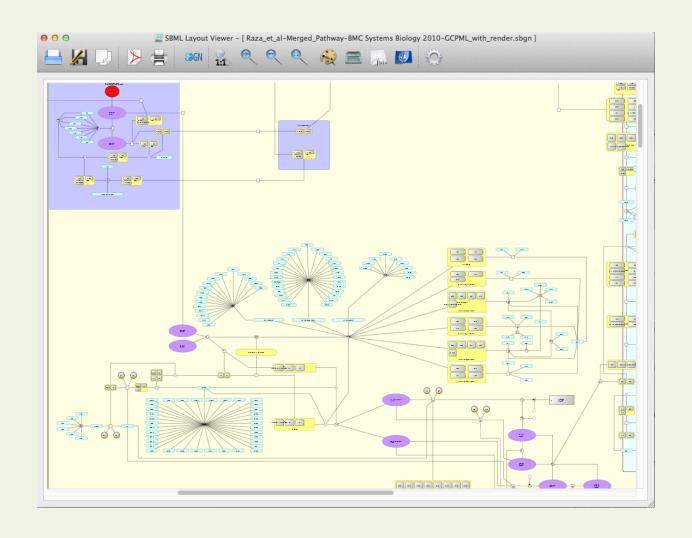
SBGN-ML

Extensions:

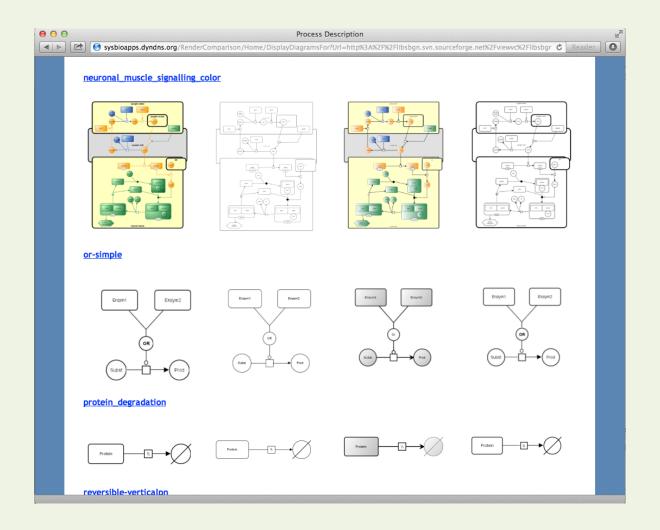
```
<map language="process description">
  <extension>
   <renderInformation id="example" programName="SBML Layout"</pre>
    programVersion="3.0"
    xmlns="http://projects.eml.org/bcb/sbml/render/level2">
     <listOfColorDefinitions>...</listOfColorDefinitions>
     <listOfGradientDefinitions>...</listOfGradientDefinitions>
     <listOfStyles>...</listOfStyles>
   </renderInformation>
  </extension>
```

12

Implementation



Implementation



LibSBGN

Code Available to:

- Assign color to SBGN diagram through:
 - id, color pairs
 - Extracting color from GraphML files
- Could be adapted to read into dictionaries when unmarshalling SBGN from JAXB
- Commit to SVN?

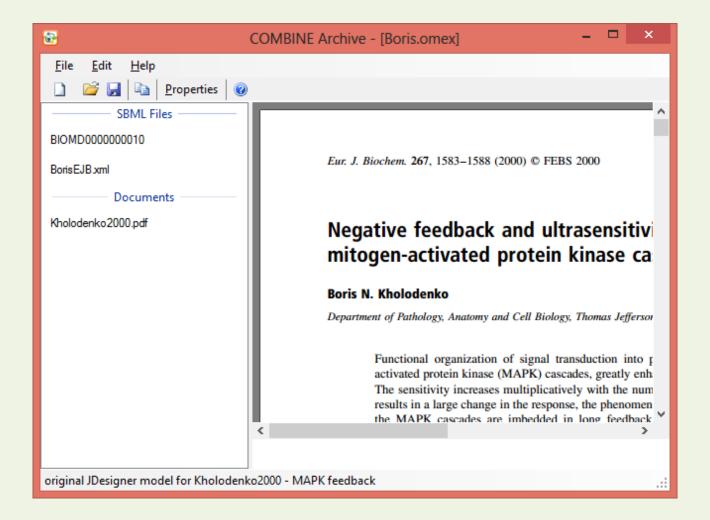
What is next?

Cross Referencing:

 Connecting an SBGN map with underlying SBML model

Linking SBGN node to PDF / additional information

COMBINE Archive



More Information

• Blog:

http://frank-fbergmann.blogspot.com

Java example:

http://www.sbgn.org/LibSBGN/SBGN-ML Extensions

Online Application for testing:

http://sysbioapps.dyndns.org

Thank You!



Thank You!

