Some Ideas for Modules
Agenda

- Idea 1: Visual Library
- Idea 2: Schliemann
- Idea 3: Templating Support
- Idea 4: Web Framework Support
- Idea 5: API Support Templates
- Idea 6: Porting a Swing application
- Idea 7: Integrating a 3rd party library

- How to distribute modules?
1. Visual Library API

- Framework for graphic modeling and visual graphs
  - visualization
  - widgets
  - predefined actions
  - layouts
  - zoom in/out
  - satellite view
  - in-place editing

http://graph.netbeans.org/
Demo

- Simpsons sample
- Visual Database sample
private Widget createSimpsonWidget(String label, Image image) {
    IconNodeWidget character = new IconNodeWidget(this);
    character.setImage(image);
    character.setLabel(label);
    mainLayer.addChild(character);
    character.getActions().addAction(createSelectAction());
    character.getActions().addAction(createObjectHoverAction());
    character.getActions().addAction(connectAction);
    character.getActions().addAction(moveAction);
    character.getLabelWidget().getActions().addAction(editorAction);
    return character;
}
2. Generic Languages Framework

- Declarative approach to language support creation, i.e., editors
  - declare tokens and grammar
  - assign colors
  - assign navigator content
  - assign code completion
  - assign brace matching
  - assign indentation

http://languages.netbeans.org/
3. Templating Support

<!--
   Document : abc.html
   Created on : Nov 10, 2007, 8:45:22 AM
   Author : ${author}
-->$

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
<head>
  <title></title>
  <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
</head>
<body>

    ${footer}

</body>
</html>
Templating Support
4. Web Framework Support

Steps
1. Choose Project
2. Name and Location
3. Frameworks

Frameworks
Select the frameworks you want to use in your web application.
- Visual Web JavaServer Faces
- JavaServer Faces
- Struts 1.2.9

Struts 1.2.9 Configuration
- Action Servlet Name: action
- Action URL Pattern: *.do

Add Struts TLDs

< Back  Next  Finish  Cancel  Help
5. API Support Templates

Steps
1. Choose File Type
2. ...

Choose File Type

Project: DemoModule

Categories:
- Module Development
  - Java
  - Swing GUI Forms
  - AWT GUI Forms
  - JUnit
  - XML
  - Other

File Types:
- Java SE Library Descriptor
- Language Support
- Action
- JavaHelp Help Set
- File Type
- Module Installer
- Options Panel
- Project Template
- Update Center
- Window Component
- Wizard

Description:
Use this template to add a new class library to the Library Manager of the user’s IDE. Select a library you have already defined in your own IDE. You may include associated sources and/or javadoc.
API Support Templates

NetBeans IDE 6.0
6. Porting a Swing Application
Porting a Swing Application
7. Integrating 3\textsuperscript{rd} party libs

1. JFugue: http://jfugue.org/
   = nbfuguesupport.dev.java.net

2. iText: http://www.lowagie.com/iText/
   = nbitextsupport.dev.java.net

3. Google for 'open source java api'
Distributing Modules

1. Email/upload somewhere/usb stick...
3. Own update center