

Information Visualization

Exercises

Manuel Huber, Simon Nestler and Michael Schlegel

Lesson II

Introduction to Java and prefuse

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Exercise I

Setup *Java* development

Exercise II

Integrate *prefuse* libraries

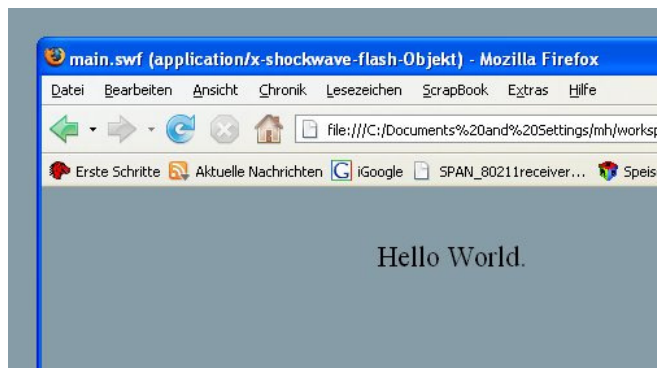
Exercise III

Develop simple *prefuse* visualization application

Exercise I

Setup Java development

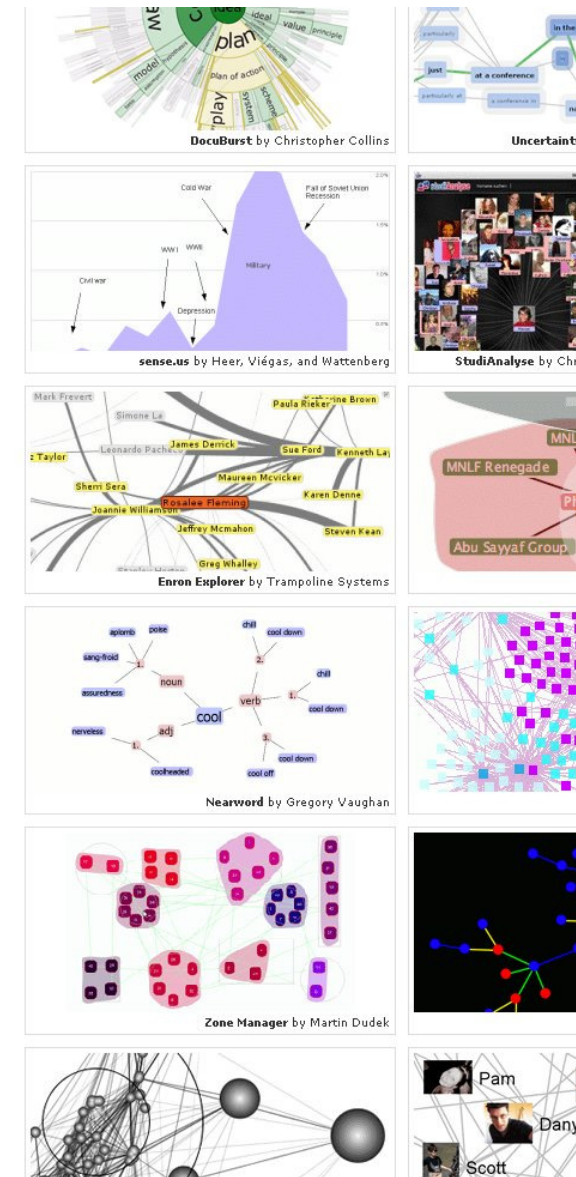
- Download and install Eclipse from <http://www.eclipse.org>
- Or use your favorite IDE (e.g. EMACS/vim/Notepad++ etc)
- Learn about applets from <http://java.sun.com/docs/books/tutorial/deployment/applet/index.html>
- Enter the “Hello World” example and compile it



Exercise II

Integrate *prefuse* libraries

- Download the *prefuse* libraries from <http://prefuse.org>
- Extract and compile the libraries
- Point your IDE to the .jar file (precompiled library files)
- Hint: “-classpath c:\path\to\flare\build”
- Modify the “Hello World” example to import some part of the *prefuse* library
- E.g. “import *prefuse*.data.Graph;”

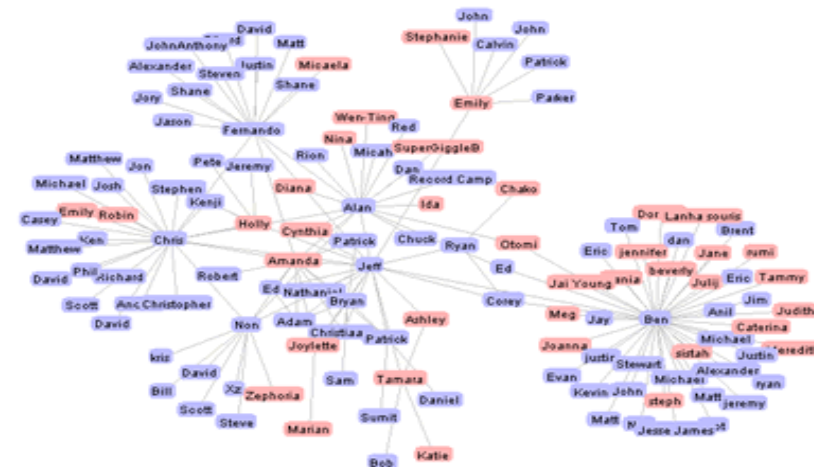


Eclipse Hints

- **Import prefuse as in the reame.txt**
 - **Create a new project**
 - **Set “Java Build Path” in preferences**
 - **Use export as jar**
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Exercise III

Develop simple *prefuse* visualization application



- Find the documentation at <http://prefuse.org/doc/manual/>
- Implement the simple application from the chapter “introduction > example applicaton”
- Note that you have to use the data set from <http://prefuse.org/doc/manual/introduction/example/socialnet.xml>
- Change the example application to an applet.

Caveat: Java applet security

- **Java Applets running in the browser run in a sandbox**
- **No access to HTTP documents across domains**
- **You can access data on your local webserver or on .informatik.tu-muenchen.de if you put your Applet in your “Hallen”-public-html**
- **Mirror the dataset in your hallen account**
- **Local flash files can only be accessed by trusted applets**
- **You can use keytool to create a certificate and jarsigner to sign a jar file**

- **For this exercise you can also simply include the data as a resource in the applet jar file or even as a string constant.**