

ICONVIS v.0.2

Installation Guide

1. REQUIREMENTS

ICONVIS has been tested with the following components:

- a) Java 6
- b) MySQL Server 5
- c) GlassFish Server Open Source Edition 3.1.1
- d) Ant 1.7+

All of those components have to be installed on your machine, in accordance with the operating system in use.

2. DOWNLOAD

Download ICONVIS_v.0.2.2.zip from ICONVIS website (<http://iconvis.polito.it/iconvis/?q=node/5>). The zip folder contains three different packages, iconvis-frontend.zip, iconvis-backend.zip and configuration.zip. Uncompress them in a suitable position on your machine.

3. DATABASE INSTALLATION

Create a DB named `iconvis` in your MySQL server, then populate it with the SQL script `Iconvis_DB_Script_Win.sql` (if you are on Windows) or `Iconvis_DB_Script_Uni.sql` (if you are on Unix/Linux). You can find these files in the configuration folder.

Create a user for `iconvis` and grant privileges:

```
CREATE USER 'iconvis'@'localhost' IDENTIFIED BY 'iconvis';
GRANT ALL PRIVILEGES ON iconvis.* TO 'iconvis'@'localhost' WITH GRANT OPTION;
```

4. DATA FOLDER

Move configuration/iconvizDB_data folder to C:/ if your operating system is Windows, or to /usr/local/ if it's Unix/Linux.

5. ICONVIS INSTALLATION

- a) Configuration/input_files folder contains several files, including test_ontology.owl, the ontology used for your local demo. If you want to test a different ontology, copy it in the input_files folder.
- b) Edit configuration/dev.properties with the real path of input_files. If you want to use a different ontology, change the ontology name in dev.properties file. Move dev.properties to the buildfiles folder of iconvis-backend.
- c) Edit configuration/input_files/query_mapping.xml with your database connection data and your customized queries for one or multiple nodes, following the instructions written as a comment in the XML. If you are using test_ontology.owl just to see how ICONVIS works, leave the second part of query_mapping.xml untouched.
- d) Edit configuration/input_files/LOD_query_mapping.xml with your customized SPARQL queries for one or multiple nodes. If you are using test_ontology.owl, leave LOD_query_mapping.xml untouched.
- e) Move configuration/crossdomain.xml to the docroot folder of your GlassFish server (glassfish-3.1.1/glassfish3/glassfish/domains/domain1/docroot).
- f) To see ICONVIS logs, move configuration/log4j-1.2.15.jar to glassfish-3.1.1/glassfish3/glassfish/lib folder. Then move configuration/log4j.properties to glassfish-3.1.1/glassfish3/glassfish/domains/domain1/lib/classes.
- g) Run ant from iconvis-backend root.
- h) At the end of the build process, a WAR file is created in the dist folder of iconvis-backend. Move it to the deploy folder of your GlassFish and start the server. The AS will make available a WSDL file at http://127.0.0.1:8080/Iconvis_0.2.2/IconvisWSService?wsdl. This is the web service that ICONVIS frontend will reach for obtaining data from the backend. After a while you should see on the server log a line similar to: [#|2011-10-17T17:35:12.716+0200|INFO|glassfish3.1.1|javax.enterprise.system.core.com.sun.enterprise.v3.server|_ThreadID=10;_ThreadName=main;|CORE10010: Loading application Iconvis_0.2.2 done in 46.737 ms|#]. You are ready to run ICONVIS demo.

6. ICONVIS DEMO

To run ICONVIS local demo, open iconvis-frontend/main.html in your Web browser. The SWF file can load properly local or external resources by changing settings from the Global Security Settings Panel. So before you start the frontend application, go to

http://www.macromedia.com/support/documentation/en/flashplayer/help/settings_manager04.html: set "Allow Always", then go to "Modify", "Add", and choose the location of the `main.swf` file.