

Plugins

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- 1 Plugins und Packages
 - Plugins
 - Packages
 - Remote Packages

- 2 jRWorkspace
 - Hauptfenster
 - Plugin Manager
 - Package Upload Wizard
 - Webstart Wizard

- 3 Plugin Entwicklung
 - Kommandozeilenparameter
 - Test-Plugin Implementation

Was ist ein Plugin?

- Unterklasse von `de.jreality.ui.jrworkspace.plugin.Plugin`
- Hat das Wort „plugin“ im Klassennamen
- Zur Laufzeit ladbar
- Zur Laufzeit entfernbar
- Kann seine Eigenschaften speichern und laden

jRWorkspace Plugin API

```
public abstract PluginInfo getPluginInfo();  
public abstract void install(Controller c) throws Exception;  
public abstract void uninstall(Controller c) throws Exception;  
public void restoreStates(Controller c) throws Exception {  
public void storeStates(Controller c) throws Exception {
```

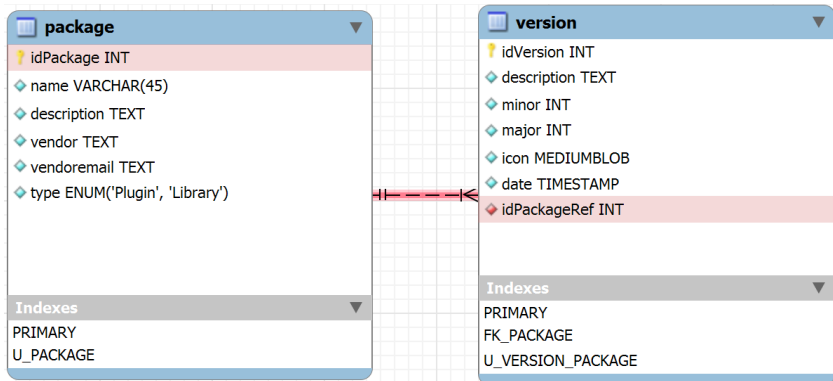
jRWorkspace Plugin API

```
8
9 public class PluginInfo {
10
11     public String
12         name = "unnamed",
13         vendorName = "unknown",
14         email = "unknown";
15     public int
16         version = 0x01000000;
17     public Icon
18         icon = getIcon("puzzle.png");
19     public URL
20         documentationURL = null;
21
22 }
23
```

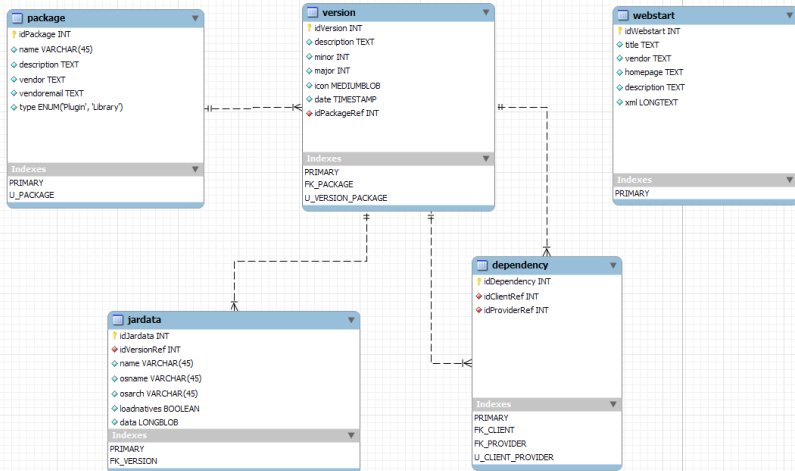
Package

- .jar Datei auf der Festplatte (Local Package)
- bin Ordner mit class-Files (Local Package)
- Sammlung von .jar Dateien auf dem Package Server (Remote Package)

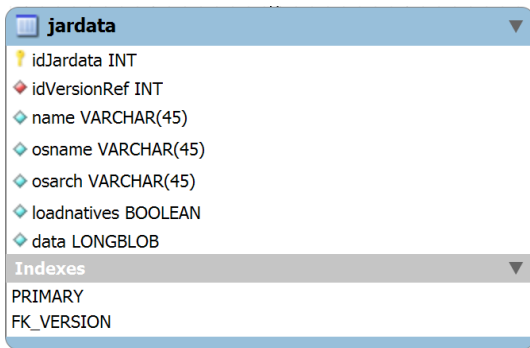
Remote Package



MySQL Datenbank



Jar Datei Daten



The screenshot shows a database schema viewer window titled 'jardata'. The table structure is as follows:

| Field Name | Field Type |
|--------------|-------------|
| idJardata | INT |
| idVersionRef | INT |
| name | VARCHAR(45) |
| osname | VARCHAR(45) |
| osarch | VARCHAR(45) |
| loadnatives | BOOLEAN |
| data | LONGBLOB |

Below the table structure, there is a section for 'Indexes' which includes:

- PRIMARY
- FK_VERSION

Abhängigkeiten

The screenshot shows a database table definition for a table named "dependency". The table has three integer columns: "idDependency", "idClientRef", and "idProviderRef". Below the columns, there is a section for "Indexes" which includes a primary key and three foreign keys: "PRIMARY", "FK_CLIENT", "FK_PROVIDER", and "U_CLIENT_PROVIDER".

| Column Name | Column Type |
|---------------|-------------|
| idDependency | INT |
| idClientRef | INT |
| idProviderRef | INT |

Indexes

- PRIMARY
- FK_CLIENT
- FK_PROVIDER
- U_CLIENT_PROVIDER

1 Plugins und Packages

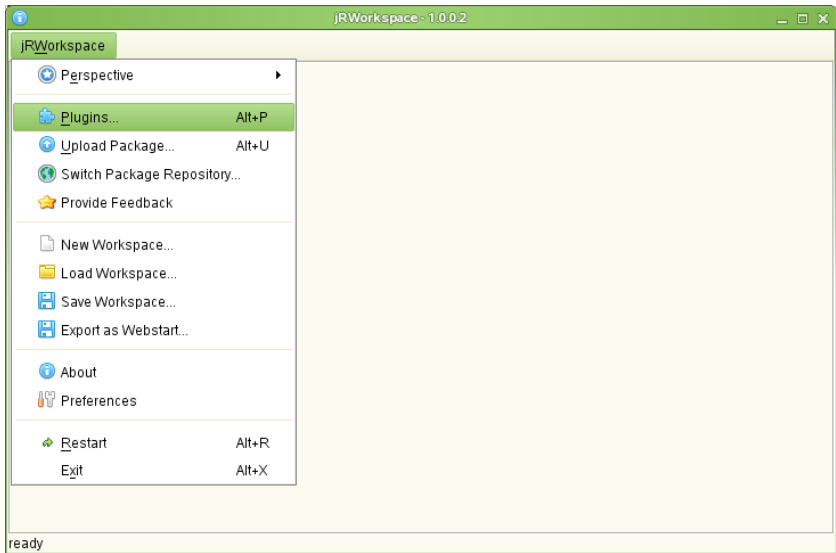
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Plugin Manager

Plugins Packages

Packages

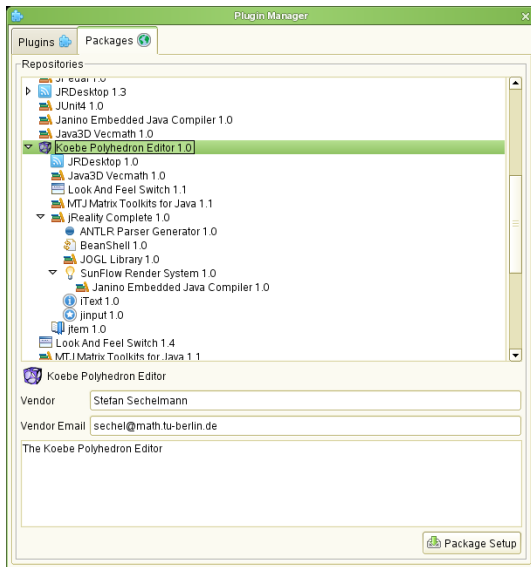
| | | |
|--|--|-----|
| | Cyclidic Discretization 2.0 | 2.0 |
| | LookAndFeelSwitchPlugin.jar | 0.0 |
| | ViewerApp for jRWorkspace 1.3 | 1.3 |
| | /home/sechel/Workspace/MolueculeWorkspace/bin/ | 0.0 |
| | looks-1.3.2.jar | 0.0 |

Filter

Plugin Library Local

Included Plugins

| | | | |
|--|------------------------|-------------------|-------------------------------------|
| | Geometry Inspector | Stefan Sechelmann | <input checked="" type="checkbox"/> |
| | BeanShell | Stefan Sechelmann | <input checked="" type="checkbox"/> |
| | Scene Graph Navigator | Stefan Sechelmann | <input checked="" type="checkbox"/> |
| | ViewerApp2 | Stefan Sechelmann | <input checked="" type="checkbox"/> |
| | ViewerApp2 Preferences | Stefan Sechelmann | <input checked="" type="checkbox"/> |
| | OBJ File Import Plugin | Stefan Sechelmann | <input checked="" type="checkbox"/> |



ViewerApp for jRWorkspace

-Vendor-

Vendor

Email

-Versions-

| | |
|-----|---|
| 1.3 | The ViewerApp for jRWorkspace. |
| 1.2 | 1.3 - Side Panel Perspective 2.0 support |
| 1.1 | 1.2 - All gui elements are in the workspace |
| 1.0 | |

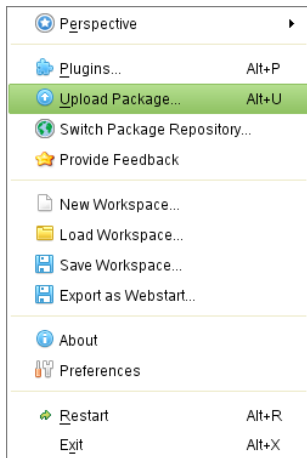
-Dependencies-

| | | |
|--|----------------------------|-----|
| | Side Panel Perspective 2.0 | 2.0 |
| | jReality Complete 1.1 | 1.1 |
| | JOGL Library 1.0 | 1.0 |
| | SunFlow Render System 1.0 | 1.0 |
| | MPLD Render System 1.0 | 1.0 |

-Client Packages-

| | | |
|--|-----------------------------|-----|
| | Cyclidic Discretization 2.0 | 2.0 |
|--|-----------------------------|-----|


Apply Cancel



Upload Package

New Package

Enter a name and description for the new package



Package Name


Category

Vendor

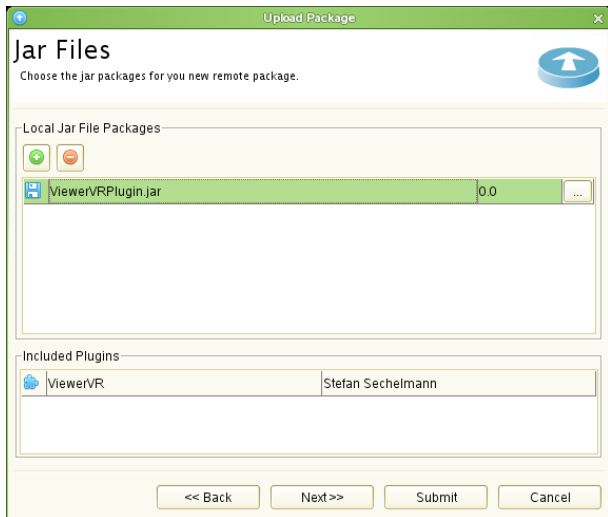
Email

Package Description

Icon

 TU-logo-80x60.png

<< Back Next >> Submit Cancel



Upload Package

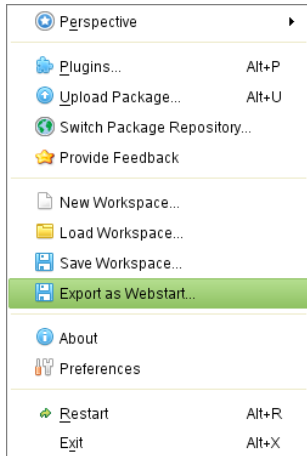
Dependencies

Choose dependent packages for remote package.

Installed Packages

| <input type="checkbox"/> | Name | Version |
|-------------------------------------|----------------------------|---------|
| <input checked="" type="checkbox"/> | Look And Feel Switch 1.1 | 1.1 |
| <input type="checkbox"/> | Look And Feel Switch 1.0 | 1.0 |
| <input type="checkbox"/> | ANTLR Parser Generator 1.0 | 1.0 |
| <input type="checkbox"/> | BeanShell 1.0 | 1.0 |
| <input type="checkbox"/> | Item 1.0 | 1.0 |
| <input type="checkbox"/> | jinput 1.0 | 1.0 |
| <input checked="" type="checkbox"/> | Viewer VR Data 1.0 | 1.0 |
| <input type="checkbox"/> | iText 1.0 | 1.0 |
| <input checked="" type="checkbox"/> | jReality Complete 1.1 | 1.1 |
| <input type="checkbox"/> | jReality Complete 1.0 | 1.0 |
| <input type="checkbox"/> | P5 1.0 | 1.0 |

<< Back Next >> Submit Cancel



Export Java Webstart

Export the current workspace to Java Webstart. Please provide some information

Title

Vendor

Homepage

Startup Configuration

Hide jRWorkspace-Menu Hide jRWorkspace-Window

Webstart Startup File

JNLP File

Description

A test webstart.

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Kommandozeilenparameter

```
Usage: java -jar jRWorkspace.jar [-n | -f <workspacefile.jrw> | -w <host:port:id>], [-ut <trigger file>]
```

-n: skips reading of the default workspace

-f <workspacefile.jrw>: reads the workspace from <workspacefile.jrw>

-w <host:port:id>: loads the workspace from the database given by <host:port>.
<id> is the primary key of the file

-ut <trigger file>: Listens to changes of <trigger file> and updates local packages

Test-Plugin Implementation

```
1 package de.varylab.jrworkspace.testplugin;
2
3 import static javax.swing.JOptionPane.showMessageDialog;
4
5 public class TestPlugin extends Plugin {
6
7     @Override
8     public PluginInfo getPluginInfo() {
9         PluginInfo info = new PluginInfo();
10        info.name = "Test Plugin";
11        return info;
12    }
13
14    @Override
15    public void install(Controller c) throws Exception {
16        showMessageDialog(c.getMainWindow(), "Hallo Plugin Welt");
17    }
18
19    @Override
20    public void uninstall(Controller c) throws Exception {
21        showMessageDialog(c.getMainWindow(), "Und Techüss");
22    }
23
24    @Override
25    public void storeStates(Controller c) throws Exception {
26        super.storeStates(c);
27        showMessageDialog(c.getMainWindow(), "storeStates()");
28    }
29
30    @Override
31    public void restoreStates(Controller c) throws Exception {
32        super.restoreStates(c);
33        showMessageDialog(c.getMainWindow(), "restoreStates()");
34    }
35
36 }
```


Vielen Dank!

