

# Redmine

## Project Management Software

Web Site:

[www.soebes.com](http://www.soebes.com)

Blog:

[blog.soebes.com](http://blog.soebes.com)

Email:

[info@soebes.com](mailto:info@soebes.com)

Dipl.Ing.(FH) Karl Heinz Marbaise

# Agenda

1. What we are talking about?
2. Redmine Installation
3. Redmine Overview
4. Detailed feature list
5. Demo

# 1 What we are talking about?

- Redmine is project management software
- Redmine is implemented in Ruby using the Ruby on Rails Framework
- Redmine is licensed under GNU General Public License

# 1 What we are talking about?

- We are talking in particular about Redmine, but there exist other Collaboration tools for Software Development and project management.
  - Fusionforge (former GForge)
  - trac

# 1 What we are talking about?

- Why?
  - These are tools which are specific developed for Collaboration.
  - Other tools support only partial areas for example Bug tracking, wiki etc.
  - Groupware supports only partially parts for collaboration like Bug tracking or “project management” etc.

# 2 Installation Redmine

- Implemented in Ruby with Ruby on Rails
- Installation can be done in about 15-30 Minutes
  - If you familiar with Ruby less than 15 Minutes

# 2 Installation Redmine

- Download the archive from Redmine site (Rubyforge).
- Configure Database access (username, password, database name) put these information into database.yml
- Create Database

```
rake db:migrate  
RAILS_ENV="production"
```

# 2 Installation Redmine

- Load default configuration into database

```
rake redmine:load_default_data  
RAILS_ENV="production"
```
- Permissions and may be session secret generation
- Test Installation via

```
ruby script/server webrick  
-e production
```



# 2 Installation Redmine

- Point your browser to `http://localhost:3000`
- Login with user: admin and password:admin
- Enjoy working with Redmine

# 3 Overview Redmine Intro Page

[Home](#) [Projects](#) [Help](#)

[Sign in](#) [Register](#)

## Redmine

Search:

### Home

#### Latest news

[SupoSE: Release 1.0.0](#)

*This will become the Release 1.0.0*

Added by [manager](#) [manager](#) [about 6 hours ago](#)

[View all news](#)



#### Latest projects

- [JaGoSI](#) (10/01/2008 04:25 AM)  
Java GForge SOAP Interface
- [SupoSE](#) (09/29/2008 03:06 AM)  
test

# 3 Overview Redmine Administration

[Home](#) [My page](#) [Projects](#) [Administration](#) [Help](#)

Logged in as admin [My account](#) [Sign out](#)

## Redmine

Search:

### Administration

---

 [Projects](#) | [New](#)

 [Users](#) | [New](#)

 [Roles and permissions](#)

 [Trackers](#) | [Issue statuses](#) | [Workflow](#)

 [Custom fields](#)

 [Enumerations](#)

 [Settings](#)

 [Information](#)

# 3 Overview Redmine Projects

Home My page Projects Administration Help Logged in as admin My account Sign out

## Redmine

Search:

### Projects ➕ New project

Filters  
Status :

Project ▲	Description	Subprojects	Public	Created		
JaGoSI	Java GForge SOAP Interface	0	✓	10/01/2008	Archive	Delete
SOA - Component	This is main SOA Component	5	✓	10/05/2008	Archive	Delete
SOA - DAO	The DAO of the SOA Component. Data Access Object layer.	0	✓	10/06/2008	Archive	Delete
SOA - Integration Test	The Integration Test module for SOA connector	0	✓	10/06/2008	Archive	Delete
SOA - Tomcat	The SOA Tomcat package	0	✓	10/06/2008	Archive	Delete
SOA - Web-Service	This is the web-service of the SOA Component.	0	✓	10/06/2008	Archive	Delete
SOA - WSDL	The WSDL's for the Web-Service	0	✓	10/06/2008	Archive	Delete
SupoSE	The Subversion Repository Search Engine	0	✓	09/29/2008	Archive	Delete
Svnbook	The Subversion Book Translation	0		10/02/2008	Archive	Delete

(1-9/9) | Per page: 25, 50, 100

# 3 Overview Redmine Users

Home My page Projects Administration Help Logged in as admin My account Sign out

## Redmine

Search:

### Users + New user

Filters  
Status : active

Login ▲	Firstname	Lastname	Email	Administrator	Created	Last connection	
admin	Redmine	Admin	admin@somenet.foo	✓	10/01/2008 03:06 AM	10/05/2008 10:38 PM	Lock
anonymous	anonymous	-	anonymous@foo.bar		09/29/2008 01:48 AM		Lock
		-			10/01/2008 03:06 AM		Lock
		-			10/01/2008 03:06 AM		Lock
		-			10/02/2008 06:20 AM		Lock
		-			10/02/2008 06:20 AM		Lock
kama	Karl Heinz	Marbaise	redmine@soebes.de		10/01/2008 03:06 AM	10/03/2008 08:43 PM	Lock
kama@soebes.de	kama-soebes-de	-	kama@soebes.de		10/02/2008 06:20 AM		Lock
kamaa	kamaa	-	kamaa@foo.bar		10/01/2008 03:27 AM		Lock
manager	manager	manager	manager@foo.bar		10/01/2008 03:06 AM	10/03/2008 08:47 PM	Lock
		-			10/01/2008 03:06 AM		Lock
somebody	somebody	-	somebody@foo.bar		10/01/2008 03:27 AM		Lock

(1-12/12) | Per page: 25, 50, 100

# 3 Overview Redmine Roles

Home My page Projects Administration Help Logged in as admin My account Sign out

## Redmine

Search:

### Roles + New role

Role	Sort	
Manager	-	Delete
Developer	-	Delete
Reporter	-	Delete
<i>Non member</i>		Delete
<i>Anonymous</i>		Delete

[Permissions report](#)

# 3 Overview Redmine Roles

## Role: Manager

Name \*

Issues can be assigned to this role

### Permissions

Project				
<input checked="" type="checkbox"/> Edit project	<input checked="" type="checkbox"/> Select project modules	<input checked="" type="checkbox"/> Manage members	<input checked="" type="checkbox"/> Manage versions	
Boards				
<input checked="" type="checkbox"/> Manage boards	<input checked="" type="checkbox"/> Add messages	<input checked="" type="checkbox"/> Edit messages	<input checked="" type="checkbox"/> Delete messages	
Documents				
<input checked="" type="checkbox"/> Manage documents	<input checked="" type="checkbox"/> View documents			
Files				
<input checked="" type="checkbox"/> Manage files	<input checked="" type="checkbox"/> View files			
Issue tracking				
<input checked="" type="checkbox"/> Manage categories	<input checked="" type="checkbox"/> Add issues	<input checked="" type="checkbox"/> Edit issues	<input checked="" type="checkbox"/> Manage issue relations	<input checked="" type="checkbox"/> Add issue notes
<input checked="" type="checkbox"/> Edit issue notes	<input checked="" type="checkbox"/> Edit own issue notes	<input checked="" type="checkbox"/> Move issues	<input checked="" type="checkbox"/> Delete issues	<input checked="" type="checkbox"/> Manage public queries
<input checked="" type="checkbox"/> Save queries	<input checked="" type="checkbox"/> View gantt	<input checked="" type="checkbox"/> View calendar		
News				
<input checked="" type="checkbox"/> Manage news	<input checked="" type="checkbox"/> Comment news			
Repository				
<input checked="" type="checkbox"/> Manage repository	<input checked="" type="checkbox"/> Browse repository	<input checked="" type="checkbox"/> View changesets		
Time tracking				
<input checked="" type="checkbox"/> Log time	<input checked="" type="checkbox"/> View time entries	<input checked="" type="checkbox"/> Edit time entries	<input checked="" type="checkbox"/> Edit own time entries	
Wiki				
<input checked="" type="checkbox"/> Manage wiki	<input checked="" type="checkbox"/> Rename wiki pages	<input checked="" type="checkbox"/> Delete wiki pages	<input checked="" type="checkbox"/> View wiki pages	<input checked="" type="checkbox"/> Edit wiki pages

[Check all](#) | [Uncheck all](#)

# 3 Overview Redmine Trackers

Home My page Projects Administration Help Logged in as admin My account Sign out

## Redmine

Search:

### Trackers + New tracker

Tracker	Sort	
Bug	-	<input type="button" value="Delete"/>
Feature	-	<input type="button" value="Delete"/>
Support	-	<input type="button" value="Delete"/>



# 3 Overview Redmine Trackers

Home My page Projects Administration Help Logged in as admin My account Sign out

---

**Redmine** Search:

---

## Tracker

Name \*

Issues displayed in changelog

Issues displayed in roadmap

# 3 Overview Redmine Project Settings

Home My page Projects Administration Help Logged in as admin My account Sign out

JaGoSI Search:





Overview Activity Roadmap Issues New issue News Documents Wiki Files Repository **Settings**

## Settings

Information Modules Members Versions Issue categories Wiki Repository Forums

Name \*   
30 characters maximum.

Subproject of

Description **B** **I** **U** **S** **C** **H1** **H2** **H3**   **pre**   Text formatting: [Help](#)

Java GForge SOAP Interface

Identifier \*

Homepage

Public

Trackers

Bug  Feature  Support

Custom fields

Resolution

# 3 Overview Redmine Project Overview

The screenshot shows the Redmine interface for the JaGoSI project. The top navigation bar includes links for Home, My page, Projects, and Help. The user is logged in as 'kama' and can access their account or sign out. A search bar and a 'Jump to a project...' dropdown are also present. The main navigation menu includes Overview (selected), Activity, Roadmap, Issues, New issue, News, Documents, Wiki, Files, and Repository. The Overview page displays the project name 'Java GForge SOAP Interface' and its subprojects. It features an 'Issue tracking' section with a list of bugs and features, a 'Members' section listing the reporter, and a 'Spent time' section showing 2.00 hours. A sidebar on the right provides links for Planning, Calendar, Gantt, and Details.

Home My page Projects Help Logged in as kama My account Sign out

JaGoSI Search:  Jump to a project.. ▾

Overview Activity Roadmap Issues New issue News Documents Wiki Files Repository

## Overview

Java GForge SOAP Interface

- Subprojects: GForge

**Issue tracking**

- Bug: 3 open on 60
- Feature: 7 open on 84

[View all issues](#)

**Members**

Reporter: kamaa -, manager -, somebody -, Karl Heinz Marbaise

**Planning**

[Calendar](#) | [Gantt](#)

**Spent time**

2.00 hours

[Details](#) | [Report](#)

# 3 Overview Redmine Activity

Home My page Projects Help

Logged in as kama My account Sign out

## JaGoSI

Search:  Jump to a project..

Overview **Activity** Roadmap Issues New issue News Documents Wiki Files Repository

### Activity

From 10/14/2007 to 11/12/2007

#### 11/07/2007

- 06:21 PM Revision 248: - Removed unused packages in Test area.  
- *Removed unused packages in Test area.*  
kama
- 06:16 PM Revision 247: - Fixed #133 - Change to TestNG - Added TestGroup file to the Global project  
- *Fixed #133 - Change to TestNG - Added TestGroup file to the Global project*  
kama
- 06:10 PM Bug #130 (Closed): Add Unit Test Artifact/Groups manager -
- 06:09 PM Feature #133 (Closed): Introduce TestNG instead of JUnit 4 manager -
- 06:09 PM Revision 246: - Fixed #133 - Changed to TestNG instead of JUnit 4 - Removed the GForgeAPITest...  
- *Fixed #133 - Changed to TestNG instead of JUnit 4 - Removed the GForgeAPITestCase.java, cause it currently does not work.*  
kama

#### 11/06/2007

- 07:16 PM Feature #133: Introduce TestNG instead of JUnit 4  
*Use `[[TestNG]]` instead of JUnit 4, cause we can use the grouping options.*  
manager -

#### 11/05/2007

- 09:02 AM Revision 245: - Added Test for getArtifactFiles() - Changed ReleasePropertiesTest from JUnit 3.X ...  
- *Added Test for getArtifactFiles() - Changed ReleasePropertiesTest from JUnit 3.X to JUnit 4.X - Updated dependency for POM from 0.0.10 to 0.0.11*  
kama

#### 10/30/2007

- 06:46 PM Revision 244: - Fixed changes.xml  
- *Fixed changes.xml*  
kama

#### Activity

- Issues
- News
- Files
- Documents
- Changesets
- Wiki pages
- Subprojects

# 3 Overview Redmine Ticket

Home My page Projects Administration Help Logged in as admin My account Sign out

## JaGoSI

Search:

Overview Activity Roadmap **Issues** New issue News Documents Wiki Files Repository Settings

### Feature #106 Update Log time Watch Copy Move Delete

---

**Get to run the auto generated Unit Tests of Axis**

Added by manager - [439 days](#) ago. Updated 1 day ago.

<b>Status :</b>	New	<b>Start :</b>	10/06/2008
<b>Priority :</b>	Urgent	<b>Due date :</b>	10/06/2008
<b>Assigned to :</b>	Karl Heinz Marbaise	<b>% Done :</b>	<input type="text" value="0"/> 0%
<b>Category :</b>	Maven Build System	<b>Spent time :</b>	-
<b>Target version :</b>	Milestone 0.0.11	<b>Estimated time :</b>	8.00 hours
<b>Resolution :</b>			

---

**Description**

Get to run the auto generated Unit Tests of Axis, cause currently the majority will fail.

---

**Related issues** Add

---

**History**

---

10/06/2008 04:58 AM - Redmine Admin #1

- **Due date** set to *10/06/2008*
- **Start** set to *10/06/2008*
- **Estimated time** set to *8.0*

Also available in: [Atom](#) | [PDF](#)

# 3 Overview Redmine Ticket

The screenshot shows a Redmine interface for a project named 'TestProject'. The user is logged in as 'admin'. The main content area displays a ticket titled 'Bug #1' with the following details:

- Status:** Closed
- Priority:** Normal
- Assigned to:** Karl Heinz Marbaise
- Category:** -
- Target version:** Milestone 0.1.0
- Start:** 03/13/2009
- Due date:** -
- % Done:** 100% (represented by a green progress bar)
- Spent time:** 2.00 hours
- Estimated time:** 2.00 hours

The ticket description reads: 'This should be solved as the first step.' Below the description, there are sections for 'Related issues', 'Watchers', and 'History'. The 'History' section shows that the status was changed from 'New' to 'Closed' and the '% Done' was updated from 0 to 100. An 'Associated revisions' section shows a revision titled 'Revision 3' added by 'km' 17 minutes ago, with the note '- Fixed #1'. The interface includes navigation tabs for Overview, Activity, Roadmap, Issues, New Issue, News, Documents, Wiki, Files, Repository, and Settings. A sidebar on the right contains links for 'Issues', 'View all issues', 'Summary', 'Change log', 'Planning', 'Calendar', and 'Gantt'. At the bottom, it says 'Powered by Redmine © 2006-2009 Jean-Philippe Lang' and 'Also available in: Atom | PDF'.

# 3 Overview Redmine Roadmap


Home My page Projects Help Logged in as kama My account Sign out

## JaGoSI


Search:  Jump to a project.. ▼

Overview Activity **Roadmap** Issues New issue News Documents Wiki Files Repository

### Roadmap

 **Milestone 0.0.11**

**Due in 9 days (10/17/2008)**

 38%

*5 closed (36%) 9 open (64%)*

Related issues

- [Feature #16](#): Exception if not correctly authenticated via login()
- [Feature #19](#): JaGoSI Error Handling
- [Feature #81](#): Class JaGoSIProjectTask
- [Feature #83](#): Compiling with debug activated
- [Feature #84](#): Configure the Upload limit for Files
- [Feature #104](#): Fixe Maven 2 Build package
- [Feature #106](#): Get to run the auto generated Unit Tests of Axis
- [Feature #133](#): Introduce TestNG instead of JUnit 4
- [Feature #134](#): Update Copyright Year

**Roadmap**

Feature

Show completed versions

**Versions**

Milestone [0.0.11](#)

# 3 Overview Redmine Issues

Home My page Projects Help Logged in as kama My account Sign out

## JaGoSI

Search:  Jump to a project..

Overview Activity Roadmap **Issues** New issue News Documents Wiki Files Repository

### Issues

Filters

Status  Add filter:

Apply

<input checked="" type="checkbox"/>	#	Tracker	Status	Priority	Subject	Assigned to	Updated
<input type="checkbox"/>	131	Bug	New	High	com.soebes.jagosi.api.util.ReleasePropertiesTest do not work under Maven run	Karl Heinz Marbaise	10/28/2007 03:01 PM
<input type="checkbox"/>	106	Feature	New	Urgent	Get to run the auto generated Unit Tests of Axis	Karl Heinz Marbaise	10/07/2008 10:20 AM
<input type="checkbox"/>	104	Feature	Assigned	Immediate	Fixe Maven 2 Build package	manager -	10/06/2008 04:59 AM
<input type="checkbox"/>	95	Bug	New	Normal	Change Return Type of createFRSFile	Karl Heinz Marbaise	07/21/2007 09:18 PM
<input type="checkbox"/>	85	Bug	New	Normal	Update or add the JavaDoc for Methods.	Karl Heinz Marbaise	07/13/2007 12:43 AM
<input type="checkbox"/>	84	Feature	New	Normal	Configure the Upload limit for Files	Karl Heinz Marbaise	10/06/2008 05:00 AM
<input type="checkbox"/>	83	Feature	New	High	Compiling with debug activated	Karl Heinz Marbaise	10/06/2008 05:00 AM
<input type="checkbox"/>	81	Feature	New	High	Class JaGoSIProjectTask	Karl Heinz Marbaise	10/06/2008 05:01 AM
<input type="checkbox"/>	19	Feature	New	High	JaGoSI Error Handling	Karl Heinz Marbaise	06/17/2007 09:28 PM
<input type="checkbox"/>	16	Feature	New	High	Exception if not correctly authenticated via login()	Karl Heinz Marbaise	06/17/2007 12:42 AM

(1-10/10) | Per page: 25, 50, 100

Also available in: [Atom](#) | [CSV](#) | [PDF](#)

#### Issues

- [View all issues](#)
- [Summary](#)
- [Change log](#)



# 3 Overview Redmine Issue Context

Home My page Projects Administration Help

## SupoSE

Overview Activity Roadmap **Issues** New issue News Documents Wiki Files Repository Settings

### Issues

Filters

Status open  Add filter:

#	Tracker	Status	Priority	Subject	Assigned to	Updated
<input checked="" type="checkbox"/> 201			Normal	Change logging configuration	Karl Heinz Marbaise	09/20/2008 08:36 PM
<input type="checkbox"/> 200			Urgent	Remove system-scoped dependencies.	Karl Heinz Marbaise	09/20/2008 08:36 PM
<input type="checkbox"/> 199			High	Missing dependency for fontbox in pom	Karl Heinz Marbaise	03/27/2008 08:21 PM
<input type="checkbox"/> 181			Normal	GUI Files	Karl Heinz Marbaise	01/04/2008 01:48 PM
<input type="checkbox"/> 180				or Trac to search in the created index via trac.	Karl Heinz Marbaise	12/31/2007 01:19 PM
<input type="checkbox"/> 173				asic Web application for searching	Karl Heinz Marbaise	03/17/2008 01:20 AM
<input type="checkbox"/> 170				t of the --help output should be changed	Karl Heinz Marbaise	12/19/2007 10:00 AM
<input type="checkbox"/> 168				command stat	manager -	03/26/2008 03:53 PM
<input type="checkbox"/> 167				index handling during scheduled running	Karl Heinz Marbaise	01/10/2008 08:59 PM
<input type="checkbox"/> 155				hOffice Files.	Karl Heinz Marbaise	12/17/2007 11:00 PM

(1-10/10) |

Also available in: [Atom](#) | [CSV](#) | [PDF](#)

# 3 Overview Redmine Gantt Chart

JaGoSI Search:  Jump to a project...

[Overview](#) [Activity](#) [Roadmap](#) [Issues](#) [New issue](#) [News](#) [Documents](#) [Wiki](#) [Files](#) [Repository](#)

## Gantt

6 months from  2008  🔍 ↻

📅 Milestone 0.0.8

- [Feature #104](#): Fixe Maven 2 Build package
- [Feature #106](#): Get to run the auto generated Unit Tests of
- [Feature #84](#): Configure the Upload limit for Files
- [Feature #83](#): Compiling with debug activated
- [Feature #81](#): Class JaGoSIProjectTask

📅 Milestone 0.0.11

2008-10

41							42							43							44						
W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F				
<b>◆ Milestone 0.0.8</b>																											
Assigned 0%																											
New 30%																											
New 0%																											
New 0%																											
<div style="border: 1px solid #ccc; padding: 5px; width: fit-content;"><p><b>Feature #83</b>: Compiling with debug activated</p><p><b>Start</b>: 10/10/2008 <b>Due date</b>: 10/10/2008 <b>Assigned to</b>: Karl Heinz Marbaise <b>Priority</b>: High</p></div>																											

⏪   ⏩

« Previous Next »

Also available in: [PDF](#) | [PNG](#)

### Gantt

- Bug
- Feature
- Subprojects

# 3 Overview Redmine Calendar

Home My page Projects Help Logged in as kama My account Sign out

**JaGoSI** Search:  Jump to a project...

**Overview** Activity Roadmap Issues New issue News Documents Wiki Files Repository

## October 2008

« September November »

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
39	28	29	30	1 Milestone 0.0.8	2	3	4
40	5 ♦ Feature #106: Get to run the auto generat... ♦ Feature #104: Fixe Maven 2 Build package	6 ♦ Feature #104: Fixe Maven 2 Build package	7 ♦ Feature #84: Con Upd	8 ♦ Feature #84: Feature #84: Configure the Upload limit for Files Start: 10/08/2008 Due date: 10/08/2008 Assigned to: Karl Heinz Marbaise Priority: Normal	9	10 ♦ Feature #83: ng with activated	11
41	12 ♦ Feature #81: Class JaGoSIProjectTask	13	14 ♦ Feature #81: Class JaGoSIProjectTask	15	16	17 Milestone 0.0.11	18
42	19	20	21	22	23	24	25
43	26	27	28	29	30	31	1

♦ task beginning this day  
 ♦ task ending this day  
 ♦ task beginning and ending this day

**Calendar**

October 2008

Bug  
 Feature  
 Subprojects

# 3 Overview Redmine Log - Time


Home My page Projects Help Logged in as kama My account Sign out

**JaGoSI** Search:  Jump to a project... ▾

Overview Activity Roadmap **Issues** New issue News Documents Wiki Files Repository

## Spent time

Issue  *Feature #106: Get to run the auto generated Unit Tests of Axis*

Date \*  

Hours \*

Comment

Activity \*

? **October, 2008** x

<< < Today > >>

wk	Sun	Mon	Tue	Wed	Thu	Fri	Sat
39				1	2	3	4
40	5	6	7	8	9	10	11
41	12	13	14	15	16	17	18
42	19	20	21	22	23	24	25
43	26	27	28	29	30	31	

Select date

# 3 Overview Redmine Settings

Redmine

Search:

## Settings

General Authentication Issue tracking Email notifications **Repositories**

Autofetch commits

Enable WS for repository management

Repositories encodings

*Multiple values allowed (comma separated).*

Referencing and fixing issues in commit messages

Referencing keywords

*Multiple values allowed (comma separated).*

Fixing keywords

Applied status:

% Done:

*Multiple values allowed (comma separated).*

## 4. Detailed Features

# 4 Detailed Features

- Wiki
- Ticket System
- Forums
- Repository Browser
- Supported Version Control Tools:
  - CVS, Subversion, Git, Mercurial, Bazaar
- Remote repository support

# 4 Detailed Features

- Time Tracking
  - Integrated
  - Supplemental Timesheet / Budget PlugIn's available
- File Area
- Document „Management“ System



# 4 Detailed Features

- Multi project support
  - Creation of new projects via UI
- Sub Projects
  - Currently limited to single level (Will be changed in 0.9)
- Custom fields for Tracker (Bugs, Support, Patch, Feature Request)
  - Redmine site wide

# 4 Detailed Features

- Technical Features
  - Supported OS's
    - Linux, Windows and Mac OS
  - User self-registration support
    - Can be turned off
  - LDAP authentication support

# 4 Detailed Features

- Technical Features
  - Supported Database Management Systems (DBMS):
    - MySQL, PostgreSQL, SQLite, Oracle, DB2, SQLServer (Ruby On Rails)

# 4 Detailed Features

- Technical Features
  - RESTlest interface
  - SOAP/RPC is not supported anymore.

# 4 Detailed Features

- Technical Features
  - Migrations from other tools:
    - Trac
      - Currently there are some bugs in (links to images etc.)
    - Bugzilla, Mantis (Not tested)

# Questions?

clt2009@soebes.com

- Thank you for your attention.

# On-line Sources I

- [1] Homepage Redmine
  - <http://www.redmine.org>
- [2] Homepage Fusionforge (former GForge)
  - <http://www.fusionforge.org>
- [3] Homepage trac
  - <http://trac.edgewall.com>

# On-line Sources II

- [4] Test Installation (Commercial)
  - <http://www.jumpbox.com/app/redmine>
- [5] Stack to Test Installation
  - <http://bitnami.org/stack/redmine>
- [6] Subversion Conference 2008
  - [Lecture about Software Collaboration Tools](#)
- [7] Lecture about Redmine (frensh)
  - <http://www.slideshare.net/elefevre/cours-du-soin>



# On-line Sources III

- [8] [Apache / Mongrels Cluster Configuration](#)
- [9] [Problems with Mongrels Cluster](#)
- [10] [Mod Rails](#)
- [11] [Screencasts about installation of Redmine](#)