



OPEN SOURCE COMPLIANCE TOOLSET - FOSSOLOGY

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AGENDA

- FOSSology Project Introduction
- Updates from 2010 OW2 meeting
- FOSSology 1.4.1 Tour
- OW2 Experience
- FOSSology Next Step



WHAT IS FOSSOLOGY?

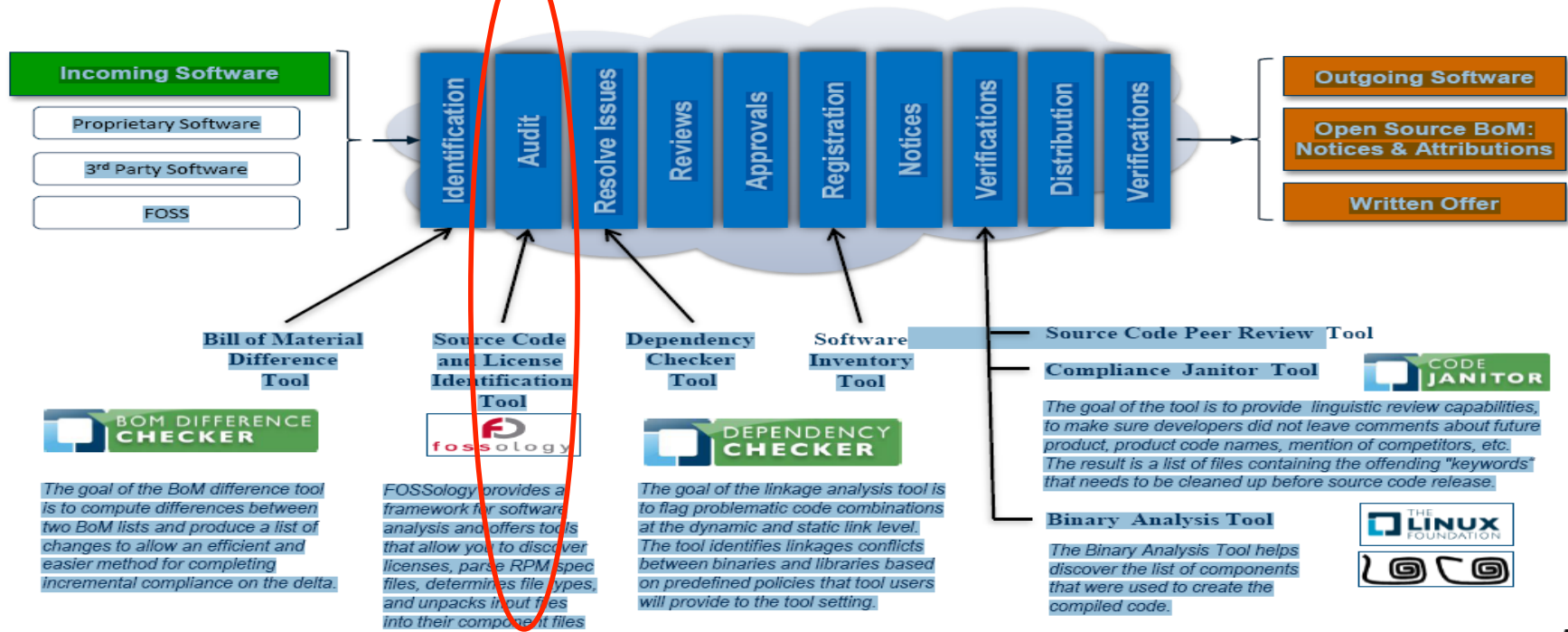
- FOSSology (<http://fossology.org>) is an open source compliance toolset that provides license and copyright discovery.
- Goal: Create a public open source software repository together with tools to maintain the repository and facilitate analysis, storage, and sharing of metadata.
- Hewlett Packard (HP) initiate FOSSology.
- Open Source Project
- FOSSology Team



FOSSOLOGY IN LINUX FUNDATION

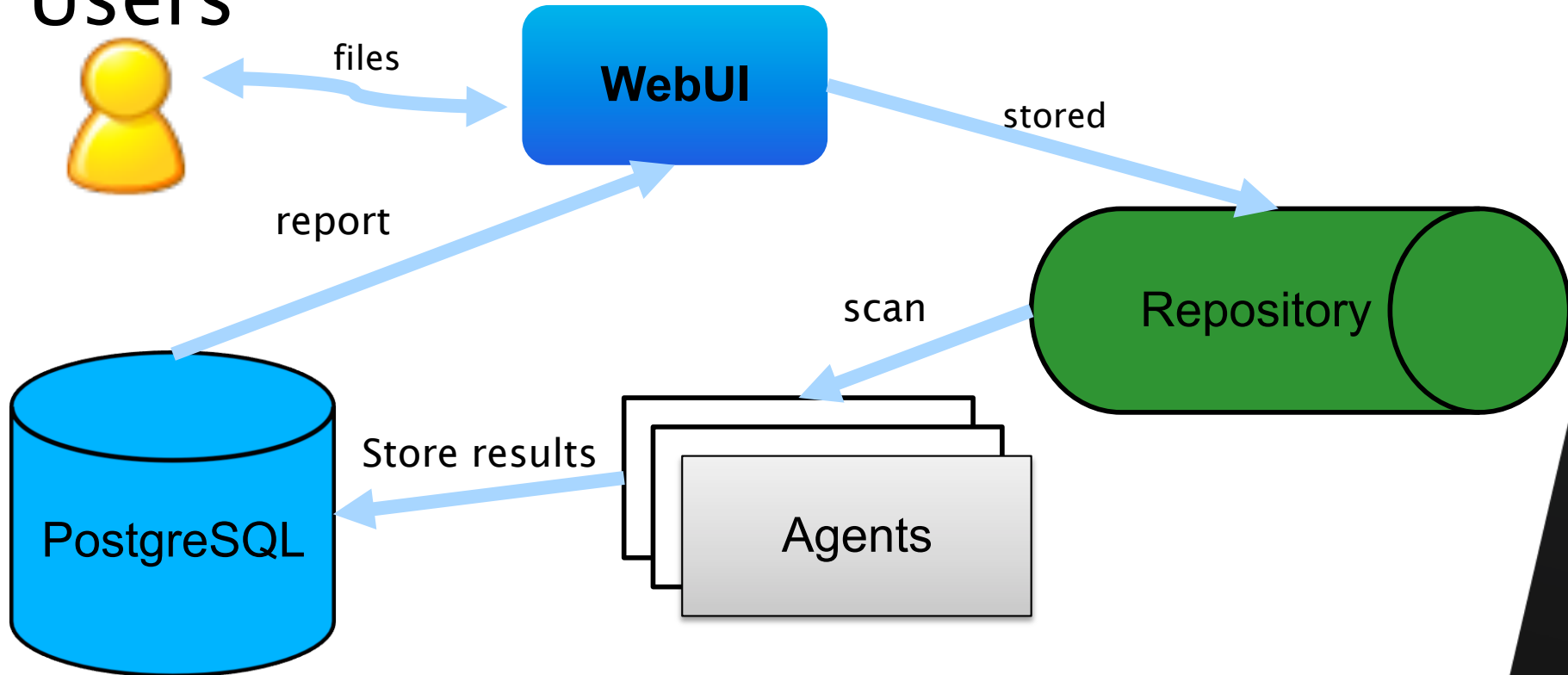


LF tools are designed to be practical and easy to fit into a simple FOSS compliance process

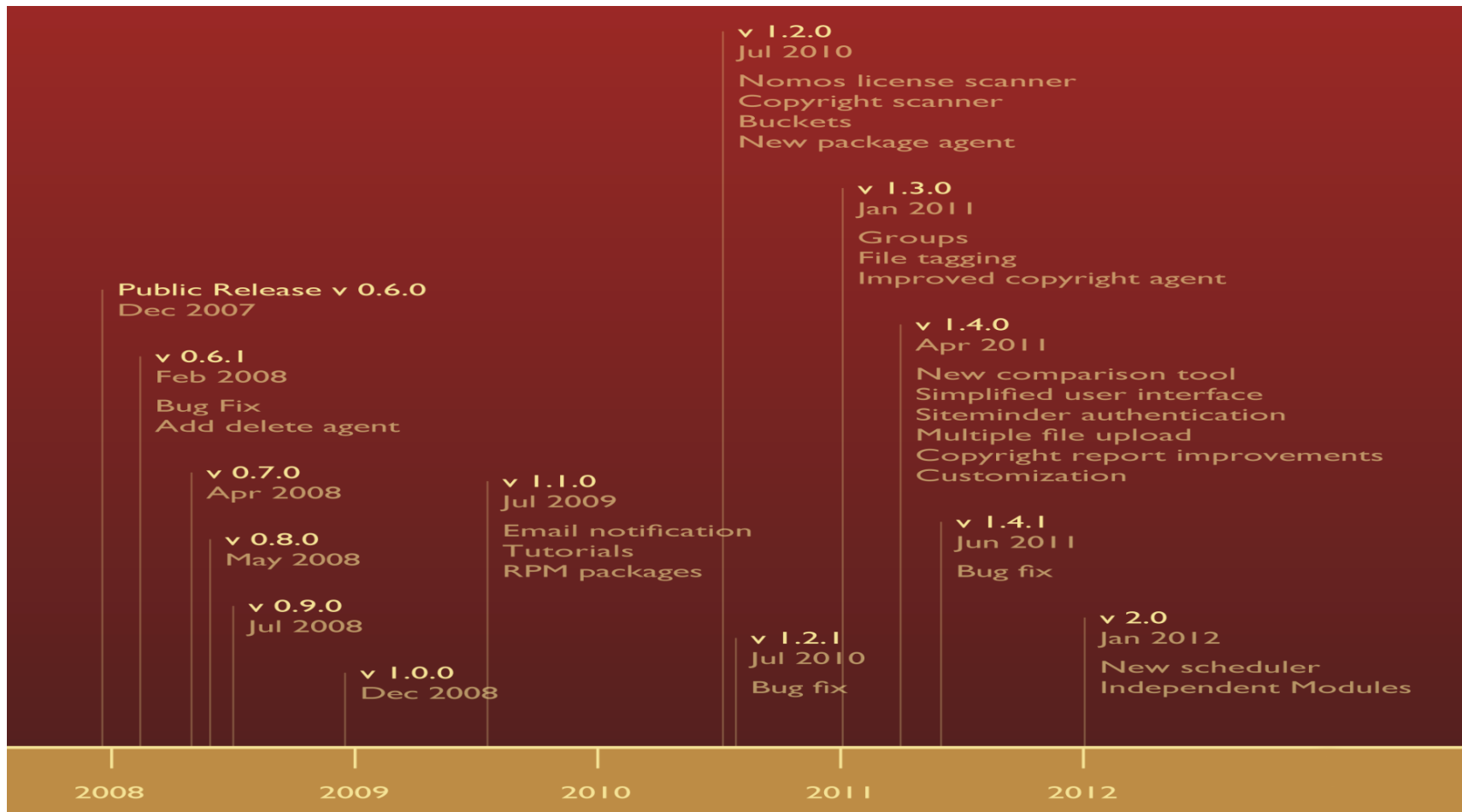


HOW FOSSOLOGY WORKS?

Users



THE LAST 12 MONTHS





USING FOSSOLOGY


- Installation: <http://fossology.org/download>
- When you install FOSSology you are only installing the tools to perform your own analyses and create your own software repository.
- Demo server at <http://repo.fossology.org>




SNAPSHOT- HOMEPAGE

menu

A screenshot of the FOSSology homepage. The page has a header with a navigation menu and a user login area. The main content area contains a welcome message, a description of the tool, and a list of capabilities. Annotations include a red oval around the navigation menu with an arrow pointing to the word 'menu', and another red oval around the 'Welcome to FOSSology' text with an arrow pointing to the word 'title'.

 Home Search Browse Upload Organize Jobs Admin Obsolete Help

 **Welcome to FOSSology** User: demo [logout](#)

FOSSology is a framework for software analysis tools. The current tools identify licenses in software, allow browsing of uploaded file hierarchies, and extract MIME type and meta data information. This website is an interface into the FOSSology project. With it, you can:

- Browse uploaded files and content.
- View file contents and meta data.
- Display analysis results.
- Download files.
- Upload files to analyze.
- Unpack and store the data within the files for analysis.
- Invoke specialized agents to scan and analyze the files.
- Create and manage user accounts.

Where to Begin...

The menu at the top contains all the primary capabilities of FOSSology.

- **Browse**: If you don't know where to start, try browsing the currently uploaded projects.
- **Search**: Look through the uploaded projects for specific files.



SNAPSHOT - LOADING FILES



Home Search Browse Upload Organize Jobs Admin Obsolete Help

fossology **Upload from URL** User: demo [logout](#)

This option permits uploading a file from a remote web or FTP server to FOSSology. The file to upload must be accessible via a URL and must not require human interaction such as login credentials.

1. Select the folder for storing the uploaded file: Software Repository **Select folder**
2. Enter the URL to the file:

NOTE: If the URL requires authentication or navigation to access, then the upload will fail. Only provide a URL that goes directly to the file. The URL can begin with HTTP://, HTTPS://, or FTP://.
3. (Optional) Enter a description of this file: **Select analysis**
4. (Optional) Enter a viewable name for this file:

NOTE: If no name is provided, then the uploaded file name will be used.

5. Select optional analysis

- Schedule Bucket Analysis
- Schedule Copyright/Email/URL Analysis
- Schedule MIME-type Analysis
- Schedule Metadata Analysis (not needed for license analysis)
- Schedule Nomos License Analysis
- Schedule Package Analysis
- Schedule Spec File Analysis (deprecated)
- Schedule bSAM License Analysis (deprecated)

- Local files
- HTTP POST
- URL
- FTP(including multiple file uploads that match a filename pattern)
- Files mounted on the FOSSology web server



SNAPSHOT - COPYRIGHT/EMAIL/URL

Home Search Browse Help

fossology Copyright/Email/URL Browser [login](#) | [Support](#)

Folder: [Software Repository/ BobG/ mythtv-0.24.1.tar.bz2/](#)
[mythtv-0.24.1.tar/](#) [mythtv-0.24.1/](#) [libs/](#) [libmyth](#)
[License Browser](#) | [Bucket Browser](#) | [Browse](#) | [Copyright/Email/URL](#) | [License List](#) | [License List Download](#) | [Search](#) | [View](#) | [Info](#) • [bsam License](#) | [License Tree](#) • [Refresh](#)

Show all

Jump to: [Emails](#) | [URLs](#)

Count	Files	Copyright Statements	
1	Show	author: renchi raju <renchi_pooh.tam.uiuc.edu>	audiooutput.cpp
1	Show	author andrew kimpton nigel pearson	audiooutput.h
1	Show	author originally based on masterselection.cpp/h by david blain	audiooutputalsa.cpp
1	Show	Author Renchi Raju <renchi_pooh.tam.uiuc.edu	audiooutputalsa.h
1	Show	copyright (c) alan calvert	audiooutputbase.cpp
1	Show	copyright (c) alan calvert foobum gmail.com	audiooutputbase.h
2	Show	copyright (c) brad hughes <bhughes trolltech.com	audiooutputca.cpp
1	Show	Copyright (c) Brad Hughes <bhughes trolltech.com	audiooutputca.h
1	Show	Copyright (C) by Trolltech	audiooutputdigitalencoder.cpp
			audiooutputdigitalencoder.h
			audiooutputdownmix.cpp
			audiooutputdownmix.h
			audiooutputdx.cpp



SNAPSHOT - VIEW LICENSE SCAN



Folder: [Software Repository/ Examples/ FOSSologyExample.tar.bz2/ fossology](#)
[Bucket Browser](#) | [Copyright/Email/URL](#) | [Browse](#) | [Nomos License](#) | [Nomos](#)

278 files found (225 unique) with license **GPL_v2**

1 2 ... [Next]

Count	Files	License Name
225	Show	GPL_v2
41	Show	(C)HP-Dev
29	Show	No License Found
24	Show	GPL
17	Show	LGPL_v2.1
2	Show	Apache_v2.0
2	Show	(C)IETF
2	Show	GFDL
2	Show	Public-domain-claim
1	Show	APSL_v2.0
1	Show	Artistic
1	Show	Boost
1	Show	BSD
1	Show	FSF-possibility
1	Show	GPL_v2.1+
1	Show	GPL_v3
1	Show	Indemnity

[agents/](#)
[Apache_](#)
[.FSF-pos](#)
[Found ,P](#)
[,X11-pos](#)
[clic/](#)
[\(C\)HP-D](#)
[debian/](#)
[devel/](#)
[\(C\)HP-D](#)
[Makefile](#)
[\(C\)HP-D](#)
[Makefile.cc](#)
[\(C\)HP-Dev](#)
[mkcheck.sh](#)
[GPL_v2](#)
[mkinstall.sh](#)
[GPL_v2](#)
[mktar.sh](#)
[GPL_v2](#)
[mkuninstall.sh](#)

File	Nomos Licenses found
Exclude this file type. 1: Folder: Software Repository/ Examples/ FOSSologyExample.tar.bz2/ fossology/ tests/ TestData/ archives/ fossi16L518.tar.bz2/ fossology/ agents/ foss_license_agent/ Filter_License/ 1sl.c	GPL_v2
Exclude this file type. 2: Folder: Software Repository/ Examples/ FOSSologyExample.tar.bz2/ fossology/ agents/ foss_license_agent/ Filter_License/ 1sl.c	GPL_v2
Exclude this file type. 3: Folder: Software Repository/ Examples/ FOSSologyExample.tar.bz2/ fossology/ agents/ foss_license_agent/ Filter_License/ 1sl.h	GPL_v2
Exclude this file type. 4: Folder: Software Repository/ Examples/ FOSSologyExample.tar.bz2/ fossology/ tests/ TestData/ archives/ fossi16L518.tar.bz2/ fossology/ agents/ foss_license_agent/ Filter_License/ 1sl.h	GPL_v2
Exclude this file type. 5: Folder: Software Repository/ Examples/ FOSSologyExample.tar.bz2/ fossology/ ui/ tests/ SiteTests/ AboutMenuTest.php	GPL_v2
Exclude this file type. 6: Folder: Software Repository/ Examples/ FOSSologyExample.tar.bz2/ fossology/ tests/ TestData/ archives/ fossi16L518.tar.bz2/ fossology/ ui/ plugins/ tests/ SiteTests/ AboutMenuTest.php	GPL_v2

[\[Download\]](#)
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[\[View\]\[Info\]](#)
[\[Download\]](#)
[\[View\]\[Info\]](#)



SNAPSHOT - BUCKETS



fossology **Bucket Browser** Home Search Browse Upload Organize Jobs Admin Help User: fossy [logout](#)

Folder: **Software Repository/ Fedora-14-source-DVD.iso**
[License Browser](#) | [Copyright/Email/URL](#) | [Browse](#) | [Bucket Browser](#) | [License List](#) | [License List Download](#) | [Search](#) | [View](#) | [Info](#) | [bsam License](#) | [License Tree](#) | [Refresh](#)

Bucket Pool: OSRB

Count	Files	Bucket
1748	Show	Previously-approved (unchanged) packages
1748	Show	Acceptable licenses (name+license match)
242	Show	GPL/LGPL v3 Packages
109	Show	SHIP-HOLD licenses
410	Show	KNOWN BAD licenses
69725	Show	GPL/LGPL version 3 licenses
331	Show	Known commercial licenses and/or packages
11	Show	Package LIKELY to be commercial
23875	Show	Suspected bad licenses
17	Show	Affero (AGPL) licenses, not version 3

aajohan-comfortaa-fonts-1.003-5.1.fc14.src.rpm [View]

Acceptable licenses (name-Licenses (Override all versions), different licenses summary software, No licenses found packages

aalib-1.4.0-0.18.rc5.fc12.s
 Acceptable licenses (name-Licenses (Override all versions), different licenses summary Known acceptable dual-lic Not in a Bucket, Previously

abrt-1.1.13-2.fc14.src.rpm
 "Minimal" licenses and/or i licenses (name+license ma (Override all versions), Goc licenses summary, GPL/LG licenses, Items with "Frien dual-licensed software, No Previously-approved (unch

Buckets are a method to organize file reports based on your own criteria.

fossology **List Files for Bucket** Home Search Browse Upload Organize Jobs Admin Obsolete Help User: [logout](#)

The following files are in bucket: 'GPL Licenses (Demo)'. [First] [Prev] 1 2 3 ... [Next]

File	Licenses found
1: Exclude files with license: GPL_v2. Folder: Software Repository/ Examples/ FOSSologyExample.tar.bz2/ fossology/ tests/ TestData/ archives/ fossI16L518.tar.bz2/ fossology/ ui/ plugins/ jobs-showjobs-upload.php	GPL_v2
2: Exclude files with license: GPL_v2. Folder: Software Repository/ Examples/ FOSSologyExample.tar.bz2/ fossology/ tests/ TestData/ archives/ fossI16L518.tar.bz2/ fossology/ ui/ plugins/ TBD.php	GPL_v2
3: Exclude files with license: Apache_v2.0 ,Artistic ,Boost ,BSD ,GFDL ,GPL_v3 ,LGPL_v3+ ,NPL ,OSL_v3.0 ,Python ,Zope. Folder: Software Repository/ Examples/ FOSSologyExample.tar.bz2/ fossology/ tests/ TestData/ archives/ fossI16L518.tar.bz2/ fossology/ ui/ plugins/ ui-licterm-default.dat	Apache_v2.0 ,Artistic ,Boost ,BSD ,GFDL ,GPL_v3 ,LGPL_v3+ ,NPL ,OSL_v3.0 ,Python ,Zope
4: Exclude files with license: GPL_v2. Folder: Software Repository/ Examples/ FOSSologyExample.tar.bz2/ fossology/ tests/ TestData/ archives/ fossI16L518.tar.bz2/ fossology/ ui/ plugins/ core-debug-user.php	GPL_v2
5: Exclude files with license: GFDL ,GPL_v2. Folder: Software Repository/ Examples/ FOSSologyExample.tar.bz2/ fossology/ tests/ TestData/ archives/ fossI16L518.tar.bz2/ fossology/ ui/ plugins/ ui-licgroup-default.php	GFDL ,GPL_v2



SNAPSHOT – FILE COMPARISONS

Home Search Browse Upload Organize Jobs

fossology Compare License Browser

Filter: 0. Remove nothing

Folder: Software Repository/ BobG/
cpio-2.9-4.fc8.src.rpm/
cpio-2.9.tar.gz/
cpio-2.9.tar/
cpio-2.9/

Folder: Software Repository/ BobG/
cpio-2.11.tar.bz2/
cpio-2.11.tar/
cpio-2.11/

ABOUT-NLS [View][Info]
LikelyNot [Download]

aclocal.m4 [View][Info]
FSF [Download]

AUTHORS [View][Info]
No_license_found [Download]

build-aux/
FSF, GPL-exception, GPL_v2+,
Public-domain-ref, TeX-exception,
X11

ChangeLog [View][Info]
GPL_v3 [Download]

config.h.in [View][Info]
No_license_found [Download]

Home Search Browse Upload Organize Jobs Admin My Account Help

fossology Compare License Browser

User: bobg
logout | Support

Filter: 3. Same as 3. but also remove files with no license

Folder: Software Repository/ BobG/
cpio-2.9-4.fc8.src.rpm/
cpio-2.9.tar.gz/
cpio-2.9.tar/
cpio-2.9/

Folder: Software Repository/ BobG/
cpio-2.11.tar.bz2/
cpio-2.11.tar/
cpio-2.11/

am/
GPL_v3+, No_license_found

build-aux/
FSF, GPL-exception, GPL_v2+,
Public-domain-ref, TeX-exception,
X11

INSTALL [View][Info]
FSF [Download]

lib/
GPL, GPL-exception, GPL_v2+,
GPL_v3+, LGPL_v2.1+,
No_license_found, Public-
domain-claim

lib/
GPL_v3+



COMMUNITY UPDATE

– OW2 Experience

- Compulsory
- Positive
- Requests
 - Develop filters
 - Separate account

– Eclipse plugin

- Todo list

SQuAT_Fossology

This page contains the list of the FOSSology analysis for mature OW2 projects in a first table, and, in a second table, for other OW2 projects. Thanks to the FOSSology project, the FOSSology team at Hewlett Packard and the Oregon State University Open Source Labs for their hosting and support!

OW2 Mature Project	FOSSology analysis	Version analyzed
ASM	Analysis link	ASM 3.3.2
Acceleo	Analysis link	Acceleo 2.8.0
Bonita	Analysis link	Bonita Open Solution 5.5
CARDAMOM	Analysis link	CARDAMOM 4.2
CAROL	Analysis link	CAROL 3.0.8
CLIF	Analysis link	CLIF 2.0.5
Chameleon	Analysis link	Chameleon (June 7, 2011)
EasyBeans	Analysis link	EasyBeans 1.2.0 M4
Fractal	Analysis link	Fractal (set of components) on June 22, 2011
GASP	Analysis link	GASP 1.0.5
JOPE	Analysis link	JOPE 5.1.2
JORAM	Analysis link	JORAM 5.5.0
JOTM	Analysis link	JOTM 2.2.1
JOnAS	Analysis link	JOnAS 5.3.0 M2
JavaService	Analysis link	JavaService 2.0.10
LemonLDAP:NG	Analysis link	LemonLDAP:NG 1.0.6
NovaForge	Analysis link	NovaForge 2.8.1
Open Mobile IS	Analysis link	OpenMobileIS 1.0
Orbeon Forms	Analysis link	Orbeon Forms 3.9.0
Orchestra	Analysis link	Orchestra PVM 4.7.1



FOSSOLOGY FUTURE TODO

- Big changes v2.0 <http://fossology.org/v2.0>
 - New scheduler
 - Module agent
- SPDX support <http://spdx.org/>
 - The goal of this specification is to enable companies and organizations to share license and component information (metadata) for software package and related content with the aim of facilitating license and other policy compliance.
- Binary analysis
- Dependency analysis

HOW TO PARTICIPATE

- Community home -- <http://fossology.org/>
- You can participate in project by:
 - Submitting new source code (providing enhancements)
 - Contributing to documentation
 - Filing bugs, Testing
 - Writing papers about FOSSology or speaking at conferences
- FOSSology plan can be found at http://fossology.org/task_list.
- Please consider this prez as an invitation to participate 😊

RESOURCE

- FOSSology Web Site
 - <http://fossology.org/>
- FOSSology mailing list
 - fossology@fossology.org
- IRC: *#fossology on OFTC (irc.oftc.net/6667)*
- Open Source at HP
 - <http://opensource.hp.com>
- Linux Foundation Open Compliance Program
 - <http://www.linuxfoundation.org>
 - <http://www.linuxfoundation.org/programs/legal/compliance>



THANK YOU!

