Introducing FOSSology 3.0

Kate Stewart (on behalf of the FOSSology community)
November 10, 2015
Open Source License Compliance by Open Source Software
What is FOSSology:

- a system for handling compliance task?
- a framework for software analysis tools?
- a set of analysis agents that can be integrated into other tools?
- An open source software community project?
FOSSology is:

✓ a system for handling compliance task
✓ a framework for software analysis tools
✓ a set of useful agents that can be integrated into other tools
✓ an open source software community project
Complying with Open Source Licenses

- Open Source is software that has been made available for use under an open source license.

- Two basic general categories:
  
  - **Permissive** – minimal requirements about how the software can be redistributed.
    - Apache-2.0, BSD-2-Clause, MIT, …
  
  - **Copyleft** – permission is given to use, modify and distribute the software as long as the same rights are preserved down the line.
    - GPL-2.0, GPL-3.0, AGPL-3.0, LGPL-2.1, MPL-2.0, CDDL-1.0 …
Open Source Definition

- Free Redistribution
- Source Code
- Derived Works
- Integrity of the Author’s Source Code
- No Discrimination Against Persons or Groups
- No Discrimination Against Fields of Endeavor

- Distribution of License
- License Must Not be Specific to a Product
- License Must Not Restrict Other Software
- License Must be Technology-Neutral
Mixing Open Source Licenses

- Not all open source licenses can be used with each other!

- Various projects and distributions provide guidance as to what can be used in that project and combined together.
  - GNU
  - Apache
  - Fedora (which also influences RHEL & CentOS)
  - Debian (which also influences Ubuntu)
  - Android
Compliance?

- Comply with the terms of the license that gives you permission to use the software. Know what you must do, can do, and cannot do.
- When you are distributing software that contains multiple licenses, make sure the licenses are possible to use together.
  - For example, not all copyleft can be used together, and there are specific issues combining permissive and copyleft.
- Are there any government regulations on the content?
  
  ➜ Need to accurately know which licenses, copyrights are in the source code, and if there is any content subject to export control, etc.
FOSSology: handing compliance tasks

- Upload an open source package to the server
- Select scan agents to analyze the software
- Review the licenses detected that scanners have found
- Compare and correct findings if necessary
- Generate report output
  - list of licenses and copyright holders (spreadsheet, SPDX, ...)
  - Set of File Notices applicable
  - Export Control Information
<table>
<thead>
<tr>
<th>Job/Dependency</th>
<th>Status</th>
<th>Dependency</th>
<th>Average items/sec</th>
<th>ETA</th>
</tr>
</thead>
<tbody>
<tr>
<td>189</td>
<td>Completed</td>
<td>wget_agent</td>
<td>0.17</td>
<td>Scanned</td>
</tr>
<tr>
<td>190 / 189</td>
<td>Completed</td>
<td>unpack</td>
<td>164</td>
<td>Scanned</td>
</tr>
<tr>
<td>191 / 190</td>
<td>Completed</td>
<td>adj2nest</td>
<td>1101</td>
<td>Scanned</td>
</tr>
<tr>
<td>192 / 191</td>
<td>Started</td>
<td>nomos</td>
<td>3</td>
<td>4:29:53 [Pause] [Cancel]</td>
</tr>
<tr>
<td>193 / 191</td>
<td>Completed</td>
<td>pkgagent</td>
<td>0.00</td>
<td>Scanned</td>
</tr>
<tr>
<td>194 / 193, 192</td>
<td></td>
<td>buckets</td>
<td></td>
<td></td>
</tr>
<tr>
<td>195 / 191</td>
<td>Completed</td>
<td>copyright</td>
<td>85</td>
<td>Scanned</td>
</tr>
<tr>
<td>196 / 191</td>
<td>Completed</td>
<td>ecc</td>
<td>80</td>
<td>Scanned</td>
</tr>
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<td>Completed</td>
<td>mimetype</td>
<td>68</td>
<td>Scanned</td>
</tr>
<tr>
<td>198 / 191</td>
<td>Started</td>
<td>monk</td>
<td>14</td>
<td>0:48:52 [Pause] [Cancel]</td>
</tr>
<tr>
<td>199 / 192, 198, 191</td>
<td></td>
<td>decider</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Example:

**Release**

The latest stable release of Thrift is 0.9.2 (released on 2014-11-07).

- thrift-0.9.2.tar.gz [PGP] [MD5]
- Thrift compiler for Windows (thrift-0.9.2.exe) [PGP] [MD5]

**Maven artifact**

```xml
<dependency>
  <groupId>org.apache.thrift</groupId>
  <artifactId>libthrift</artifactId>
  <version>0.9.2</version>
</dependency>
```

When downloading from a mirror, please be sure to verify the checksums and signature (see the MD5 and PGP links above). The KEYS file contains the public key(s) used for signing releases.

**Incubator Releases**

Releases from the incubator (less than 0.6.0) are available at the Thrift Incubator Archive

Releases from 0.6.0 up to the current release are available at the Apache Thrift Archive

**GIT Checkout**

For those who would like to participate in Thrift development, you may checkout Thrift from the Apache GIT repository.

```
git clone https://git-wip-us.apache.org/repos/asf/thrift.git

cd thrift
```
### License Browser

**Folder:** Software Repository/thrift-0.9.1.tar.gz/thrift-0.9.1

<table>
<thead>
<tr>
<th>Scanner Count</th>
<th>Concluded License Count</th>
<th>License Name</th>
<th>Files</th>
</tr>
</thead>
<tbody>
<tr>
<td>2421</td>
<td>0</td>
<td>Apache-2.0</td>
<td>adoclocal: Freeware, FSF, GPL-2.0-with-autoconf-exception, GPLv2+, Apache-2.0, BisonException, FSF, GPL-3.0+ with-bison-exception, No_license_found, UnclassifiedLicense, Zlib</td>
</tr>
<tr>
<td>819</td>
<td>0</td>
<td>No_license_found</td>
<td>compiler: Apache-2.0, No_license_found, UnclassifiedLicense, Zlib, FSF, LGPL-2.1, MIT, MIT-style, No_license_found, UnnamedLicense, LGPL-2.1, MIT, MIT-style, LGPLv2.1+</td>
</tr>
<tr>
<td>132</td>
<td>0</td>
<td>FSF</td>
<td>contrib: Apache-2.0, Freeware, No_license_found, See-file, SeeFile, Apache-2.0, LesserGPLv2.1+, LGPLv2.1, MIT, MIT-style, LGPLv2.1+ UnnamedLicense</td>
</tr>
<tr>
<td>94</td>
<td>0</td>
<td>UnclassifiedLicense</td>
<td>doc: Apache-2.0, LGPL-2.1, MIT, MIT-style, No_license_found, UnclassifiedLicense, Zlib, LGPLv2.1+</td>
</tr>
<tr>
<td>13</td>
<td>0</td>
<td>Freeware</td>
<td>lib: Apache-2.0, Apache-possibility, BSD-3-Clause, FSF, No_license_found, See-doc(OTHER), SeeFile, UnclassifiedLicense, WebM</td>
</tr>
<tr>
<td>8</td>
<td>0</td>
<td>GPLv2+</td>
<td>test: Apache-2.0, FSF, No_license_found, UnclassifiedLicense, Zlib, LGPLv2+</td>
</tr>
<tr>
<td>6</td>
<td>0</td>
<td>GPL-exception</td>
<td>tutorial: Apache-2.0, FSF, No_license_found, Trademark-ref, UnclassifiedLicense, Zlib</td>
</tr>
<tr>
<td>4</td>
<td>0</td>
<td>Zlib</td>
<td>.travis.yml: Apache-2.0 [N: 100%][N]</td>
</tr>
<tr>
<td>4</td>
<td>0</td>
<td>MIT</td>
<td>adoclocal.m4: FSF [M: 94%][N], autoConfException [N: 100%], GPLv2+ with-autoconf-exception [N]</td>
</tr>
<tr>
<td>4</td>
<td>0</td>
<td>MIT-style</td>
<td>CHANGES: UnclassifiedLicense [Nk], Apache-possibility [N]</td>
</tr>
<tr>
<td>3</td>
<td>0</td>
<td>LGPL-2.1</td>
<td>config.guess: autoConfException [Nk: 100%], GPLv2+ [Nk: 100%], GPLv2+ with-autoconf-exclution [N]</td>
</tr>
<tr>
<td>3</td>
<td>0</td>
<td>SeeFile</td>
<td>config.h: No_license_found [Nk][N]</td>
</tr>
<tr>
<td>2</td>
<td>0</td>
<td>MIT-style</td>
<td>config.hin: No_license_found [Nk][N]</td>
</tr>
<tr>
<td>2</td>
<td>0</td>
<td>LGPLv3+</td>
<td>config.sub: autoConfException [Nk: 100%], GPLv2+ [Nk: 100%], GPLv2+ with-autoconf-exception [N]</td>
</tr>
<tr>
<td>2</td>
<td>0</td>
<td>Apache-possibility</td>
<td>lib: Apache-2.0, Apache-possibility, BSD-3-Clause, FSF, No_license_found, See-doc(OTHER), SeeFile, UnclassifiedLicense, WebM</td>
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<tr>
<td>2</td>
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<td>BisonException</td>
<td>test: Apache-2.0, FSF, No_license_found, UnclassifiedLicense, Zlib, LGPLv2+</td>
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<tr>
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<td>Apache-possibility</td>
<td>tutorial: Apache-2.0, FSF, No_license_found, Trademark-ref, UnclassifiedLicense, Zlib</td>
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<tr>
<td>1</td>
<td>0</td>
<td>WebM</td>
<td>adoclocal.m4: FSF [M: 94%][N], autoConfException [N: 100%], GPLv2+ with-autoconf-exception [N]</td>
</tr>
<tr>
<td>1</td>
<td>0</td>
<td>See-file</td>
<td>CHANGES: UnclassifiedLicense [Nk], Apache-possibility [N]</td>
</tr>
<tr>
<td>1</td>
<td>0</td>
<td>See-doc(OTHER)</td>
<td>config.guess: autoConfException [Nk: 100%], GPLv2+ [Nk: 100%], GPLv2+ with-autoconf-exclution [N]</td>
</tr>
<tr>
<td>1</td>
<td>0</td>
<td>Public-domain</td>
<td>config.h: No_license_found [Nk][N]</td>
</tr>
<tr>
<td>1</td>
<td>0</td>
<td>See-file</td>
<td>config.hin: No_license_found [Nk][N]</td>
</tr>
<tr>
<td>1</td>
<td>0</td>
<td>See-doc(OTHER)</td>
<td>config.sub: autoConfException [Nk: 100%], GPLv2+ [Nk: 100%], GPLv2+ with-autoconf-exception [N]</td>
</tr>
</tbody>
</table>
Clearing: Reviewing and Adjusting

- Why?
  - Indirect references to other files (i.e., “License information can be found in README”)
  - Scanners work based on heuristics, and results may still be ambiguous as to which license applies.
  - Files may have been added from other projects under different licenses, and “surprises” may need to be addressed so the terms of the license can be respected

- How?
  - Review results in license browser, investigate “surprises” and understand context, consult with developers, legal counsel, as needed.
  - Record concluded license and save in system, so don’t need to revisit the issues again for next release of a file, effectively “clearing” the file.
<table>
<thead>
<tr>
<th>License Name</th>
<th>Scanner Results (N: nomos, M: monk, Nk: ninka)</th>
<th>Edited Results</th>
<th>Clearing Status</th>
<th>Files Cleared</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>No_license_found</td>
<td>AGPL, GPL, GPL-2.0, GPL-2.0+, HP-DEC, LGPL-2.0+, No_license_found, See-file(COPYING)</td>
<td></td>
<td>dot</td>
<td>0/20</td>
<td>[Tag][Edit][Bulk]</td>
</tr>
<tr>
<td>GPL-2.0</td>
<td></td>
<td></td>
<td>dot</td>
<td>0/138</td>
<td>[Tag][Edit][Bulk]</td>
</tr>
<tr>
<td>GPL-2.0+</td>
<td></td>
<td></td>
<td>dot</td>
<td>0/2738</td>
<td>[Tag][Edit][Bulk]</td>
</tr>
<tr>
<td>GPL</td>
<td></td>
<td></td>
<td>dot</td>
<td>0/184</td>
<td>[Tag][Edit][Bulk]</td>
</tr>
<tr>
<td>BSD-3-Clause</td>
<td></td>
<td></td>
<td>dot</td>
<td>0/184</td>
<td>[Tag][Edit][Bulk]</td>
</tr>
<tr>
<td>Dual-license</td>
<td></td>
<td></td>
<td>dot</td>
<td>0/184</td>
<td>[Tag][Edit][Bulk]</td>
</tr>
<tr>
<td>WebM</td>
<td></td>
<td></td>
<td>dot</td>
<td>0/184</td>
<td>[Tag][Edit][Bulk]</td>
</tr>
<tr>
<td>BSD</td>
<td></td>
<td></td>
<td>dot</td>
<td>0/184</td>
<td>[Tag][Edit][Bulk]</td>
</tr>
<tr>
<td>BSD-2-Clause</td>
<td></td>
<td></td>
<td>dot</td>
<td>0/184</td>
<td>[Tag][Edit][Bulk]</td>
</tr>
<tr>
<td>BSD-2-Clause-NetBSD</td>
<td></td>
<td></td>
<td>dot</td>
<td>0/184</td>
<td>[Tag][Edit][Bulk]</td>
</tr>
<tr>
<td>See-file(README)</td>
<td></td>
<td></td>
<td>dot</td>
<td>0/184</td>
<td>[Tag][Edit][Bulk]</td>
</tr>
<tr>
<td>MIT-style</td>
<td></td>
<td></td>
<td>dot</td>
<td>0/184</td>
<td>[Tag][Edit][Bulk]</td>
</tr>
<tr>
<td>See-file(COPYING)</td>
<td></td>
<td></td>
<td>dot</td>
<td>0/184</td>
<td>[Tag][Edit][Bulk]</td>
</tr>
<tr>
<td>arm</td>
<td></td>
<td></td>
<td>dot</td>
<td>0/2738</td>
<td>[Tag][Edit][Bulk]</td>
</tr>
<tr>
<td>arm64</td>
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<td>dot</td>
<td>0/184</td>
<td>[Tag][Edit][Bulk]</td>
</tr>
</tbody>
</table>
# Gephi License

This file is part of Gephi.

**Copyright**

* 2008-2012 Gephi
* Website: http://www.gephi.org

This file is part of Gephi. You may not use this file except in compliance with the License. You can obtain a copy of the License at

* http://gephi.org/about/legal/licenses-notice/

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- Portions Copyrighted [year] [name of copyright owner].

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### License Table

<table>
<thead>
<tr>
<th>License</th>
<th>Source</th>
<th>Text</th>
<th>Comment</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unclassified</td>
<td>ninka: #1</td>
<td>Click to edit</td>
<td>Click to edit</td>
<td>✗</td>
</tr>
<tr>
<td>GPL-3.0</td>
<td>nomos: #1</td>
<td>Click to edit</td>
<td>Click to edit</td>
<td>✗</td>
</tr>
<tr>
<td>CDDL</td>
<td>nomos: #1</td>
<td>Click to edit</td>
<td>Click to edit</td>
<td>✗</td>
</tr>
</tbody>
</table>

Showing 1 to 3 of 3 entries

### Bulk History

<table>
<thead>
<tr>
<th>License</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;no entries&gt;</td>
<td>&lt;no entries&gt;</td>
</tr>
</tbody>
</table>
FOSSology is:

- a system for handling compliance task
- a framework for software analysis tools
- a set of useful agents that can be integrated into other tools
- an open source software community project
FOSSology: framework for analysis tools

- Upload files and unpack them into their components
- Browse file contents and meta data
- Scan file contents for key information with agents
- Review detected information and annotate
- Create report files based on the information you’re interested in and export them
Framework Components

- Infrastructure
  - Repository, Database, Web server, PHP

- Agents and Jobs
  - Job Scheduler
  - Plugins: file comparing, diff, ..
  - Scanners: Nomos, Monk, Ninka, Copyright, ECC
  - Other: package, mimetype, maintenance, buckets

- User Interface
  - Access control, permissions and groups, tagging & filters.
FOSSology 3.0: Workflow Improvements

- **User Interface**
  - Efficient reviewing of licenses for determining concluded licenses
  - Editing copyrights
  - Folder navigation

- **License Analysis Support**
  - Added the concept of candidate licenses
  - Ability to now re-use license decisions
  - Bulk assignment of license decisions based on text phrases
  - Apply license decision automatically when Monk and Nomos find the same license in same text area
FOSSology 3.0: System Interactions

- Command line support (scriptable)
  - Uploads and scans from the command line
  - Schedule activities / integrate them into automated workflows
  - Run individual agents (e.g. for licenses)

- New Report Types Supported
  - Export Bill of Material ( SPDX 2.0 RDFa )
  - Generate README/COPYING text files to support distributions
### Download SPDX 2

#### linux 4.3 (Linux 4.3 kernel)

<table>
<thead>
<tr>
<th>Job/Dependency</th>
<th>Status</th>
<th>lynx 4.3</th>
<th>Average items/sec</th>
<th>ETA</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Completed</td>
<td>spdx2</td>
<td>2015-11-10 04:55 - 2015-11-10 04:55</td>
<td>21532 items/sec</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Job/Dependency</th>
<th>Status</th>
<th>lynx 4.3</th>
<th>Average items/sec</th>
<th>ETA</th>
</tr>
</thead>
<tbody>
<tr>
<td>189</td>
<td>Completed</td>
<td>wget_agent</td>
<td>1 item</td>
<td>2015-11-10 01:50 - 2015-11-10 01:50</td>
</tr>
<tr>
<td>190 / 190</td>
<td>Completed</td>
<td>ununpack</td>
<td>55,037 items</td>
<td>2015-11-10 01:50 - 2015-11-10 01:50</td>
</tr>
<tr>
<td>191 / 191</td>
<td>Completed</td>
<td>adj2nest</td>
<td>55,037 items</td>
<td>2015-11-10 01:50 - 2015-11-10 01:50</td>
</tr>
<tr>
<td>192 / 191</td>
<td>Completed</td>
<td>nomos</td>
<td>51,231 items</td>
<td>2015-11-10 01:50 - 2015-11-10 01:50</td>
</tr>
<tr>
<td>193 / 191</td>
<td>Completed</td>
<td>pkgagent</td>
<td>1 item</td>
<td>2015-11-10 01:56 - 2015-11-10 01:56</td>
</tr>
<tr>
<td>194 / 193, 192</td>
<td>Completed</td>
<td>buckets</td>
<td>59,656 items</td>
<td>2015-11-10 03:24 - 2015-11-10 03:27</td>
</tr>
<tr>
<td>195 / 191</td>
<td>Completed</td>
<td>copyright</td>
<td>51,231 items</td>
<td>2015-11-10 01:56 - 2015-11-10 01:56</td>
</tr>
<tr>
<td>196 / 191</td>
<td>Completed</td>
<td>ecc</td>
<td>51,231 items</td>
<td>2015-11-10 01:56 - 2015-11-10 01:56</td>
</tr>
<tr>
<td>197 / 191</td>
<td>Completed</td>
<td>mimetype</td>
<td>51,153 items</td>
<td>2015-11-10 01:56 - 2015-11-10 01:56</td>
</tr>
<tr>
<td>198 / 191</td>
<td>Completed</td>
<td>monk</td>
<td>51,231 items</td>
<td>2015-11-10 01:56 - 2015-11-10 01:56</td>
</tr>
<tr>
<td>199 / 192, 198, 191</td>
<td>Completed</td>
<td>decider</td>
<td>275 items</td>
<td>2015-11-10 03:24 - 2015-11-10 03:27</td>
</tr>
</tbody>
</table>
FOSSology 3.0: Agent Improvements

- **New Optional Scanner - Ninka**
  - Ninka has been integrated, and can be run at upload or at scheduling

- **Detecting Export Control and Customs Information**
  - Extension to copyright agent’s regular expressions to detect ECC

- **Command Line Use**
  - Individual Scanning Agents (monk, nomos, ninka, etc.) can be invoked from the command line.
FOSSology is:

✔ a system for handling compliance tasks
✔ a framework for software analysis tools
✔ a set of useful agents that can be integrated into other tools
✔ An open source software community project
Agent: Nomos

Overview:
• Nomos is named after the Greek word for “law”.
• License identification is done using short phrases (regular expressions) and heuristics. The heuristics for detecting phrases must be found in (or out of) proximity to another phrase or phrases.
• This scanner currently recognizes more than 659 licenses.

History:
• This is one of the original scanners used by HP that was the foundation for FOSSology when it was open sourced in 2007, and has been maintained and enhanced through the years
Agent: Monk

Overview:
• Monk looks for complete licenses (as defined in the license database) and reports the percentage of match to that reference version. It is useful with license highlighting, as it allows you to see exactly what was added or removed from a license.
• Text similarity is based on the Jaccard index

History:
• This scanner was contributed by Siemens and TNGtech to the FOSSology project. It was made available as part of the 2.6 release in 2014.
Agent: Ninka

Overview:

• Ninka is sentence-based, and provides a simple way to identify open source licenses in a source code file.
• Ninka was designed to be lightweight, fast, and if it isn't sure about the license, not to guess.

History:

• This scanner was developed by a team of researchers studying automatic license detection in 2010 [1]
• Ninka has been incorporated into the FOSSology Project as part of the 3.0 release in 2015. It is used in other open source projects as well.

Agent: Copyright

Overview:

- IP compliance teams also scan source to pull out copyright statements, email addresses, authorship statements and URL’s helpful to identify IP ownership.
- This is a regular expression heuristic based source scanner, and false positives have been improved over time, but may still occur.
- Regular expressions used for copyright and ECC analysis can be adjusted by the configuration files.

History:

- This scanner was made available as part of the 1.2 release in July 2010.
- Regular expressions for detecting export compliance information and support for a separate editing display was added in 3.0 release.
FOSSology is:

✓ a system for handling compliance task
✓ a framework for software analysis tools
✓ a set of useful agents that can be integrated into other tools
✓ a open source software community project
Mission:
Advancing Open Source License Compliance

- FOSSology is an open source license compliance software system and toolkit.
- As a toolkit you can run license, copyright and export control scans from the command line.
- As a system, a database and a web user interface are provided to give you a compliance workflow. In one click you can generate an SPDX file, or a README with the copyright notices from your software.
- FOSSology deduplication means that you can scan an entire distro, submit a new version, and only the changed files will get rescanned. This is a big time saver for large projects.
Community Project: A bit of history

- HP created FOSSology in 2007 to help with their internal compliance activities and made it Open Source under the GPL-2.0 in December 2007.
- Periodic releases over the years, adding more features, agents (recognizing licenses), and supported platform images (Debian, Ubuntu, Fedora, RHEL, CentOS, Docker Container, Vagrant) as well as the source is available with 2.6 released on October 10th, 2014.
- January 15, 2015, with 2.6.2 release, source officially moved to github.
- HP transferred stewardship of FOSSology to the Linux Foundation and announced at ELC in Dublin on October 5th.
- November 5, Release 3.0 tagged in github repository…. and the images are building now!
FOSSology Community

and more to be added ...
FOSSology Project Information

- **Project Home**: [www.fossology.org](http://www.fossology.org)
  - In transition to new server, will have new look & feel soon.
  - Volunteers needed to help move key web pages over to server and github wiki ([github.com/fossology/fossology/wiki](https://github.com/fossology/fossology/wiki))

- **FOSSology Source**: [github.com/fossology/fossology](https://github.com/fossology/fossology)
  - Status: tagged 3.0 last week,

- **Mail lists**: [http://lists.fossology.org/](http://lists.fossology.org/)
  - Status: Will be moved to new server.
Try FOSSology

FOSSology is a framework for software analysis tools. With it, you can:

- Upload files into the fossology repository.
- Unpack files (zip, tar, bz2, iso's, and many others) into its component files.
- Browse upload file trees.
- View file contents and meta data.
- Scan for software licenses.
- Scan for copyrights and other author information.
- View side-by-side license and bucket differences between file trees.
- Tag and attach notes to files.
- Report files based on your own custom classification scheme.

Where to Begin...

- The menu at the top contains all the primary capabilities of FOSSology.
- **Login:** Depending on your account's access rights, you may be able to upload files, schedule analysis tasks, or even add new users.
Questions?