

Agenda

- What is Open Source Software
- Degrees of Open Source
- Is the AnIML Standard Open?
- ASTM Standards Licensing Overview
- AnIML XML Schema Licensing
- Using AnIML in Open and Closed Source Products
- AnIML Tools Project



What is Open Source Software?

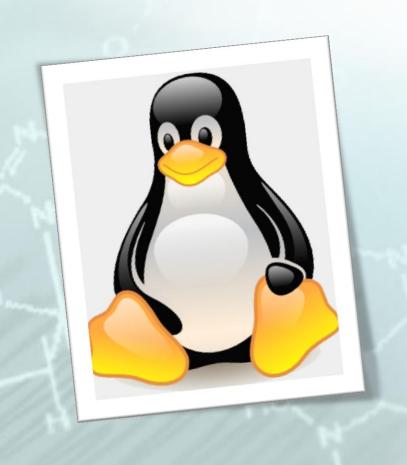
Open source is a development method for software that harnesses the power of distributed peer review and transparency of process.

Opensource.org

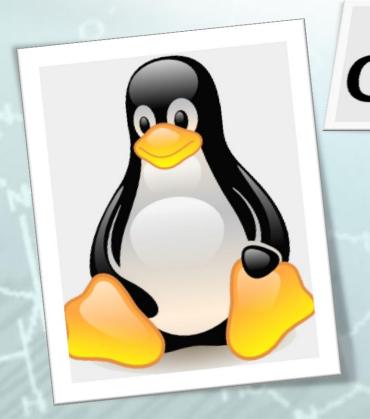
- No royalties or licensing fees
- Access to the source code







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OpenOffice.org

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If we use an Open Source component in our software then will we have to make the entire product Open Source?



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• This can be true. It is important to understand the licensing terms of the component



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I don't know which license to use, there are too many options



Too Many Options?

- Academic Free License 3.0 (AFL 3.0)
- Affero GNU Public License
- Adaptive Public License
- Apache License, 2.0
- Apple Public Source License
- Artistic license 2.0
- Attribution Assurance Licenses
- New and Simplified BSD licenses
- Boost Software License (BSL1.0)
- Computer Associates Trusted Open

Source License 1.1

• Common Development and

Distribution License

- Common Public Attribution License 1.0 (CPAL)
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- Open Group Test Suite License
- Open Software License 3.0 (OSL 3.0)
- PHP License
- Python license (CNRI Python License)
- Python Software Foundation License
- Qt Public License (QPL)
- RealNetworks Public Source License V1.0
- Reciprocal Public License 1.5 (RPL1.5)
- Ricoh Source Code Public License
- Simple Public License 2.0
- Sleepycat License
- Sun Public License
- Sybase Open Watcom Public License 1.0
- University of Illinois/NCSA Open Source

License

- Vovida Software License v. 1.0
- W3C License
- wxWindows Library License
- X.Net License
- Zope Public License
- zlib/libpng license

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Degrees of Open Source

- Open Source licenses state the degree of freedom the author permits users of their software
- We will look at three levels of freedom
 - GPL license
 - LGPL license
 - BSD license



GPL License

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- Ensures that the software retains its freedom



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Cannot be used in proprietary/commercial software



LGPL License

- Lesser General Public License (LGPL)
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 - Copyright notice be maintained
 - Original authors' names not be used in promotion without their permission



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Can be used in proprietary/commercial and GPL software



Is the AnIML Standard Open, as in Open Source?



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 - No, AnIML is a standard, not a software component



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 - No, AnIML is a standard, not a software component
- Is the AnIML Standard Open, as in Accessible?
 - Yes! AnIML formatted files are human readable

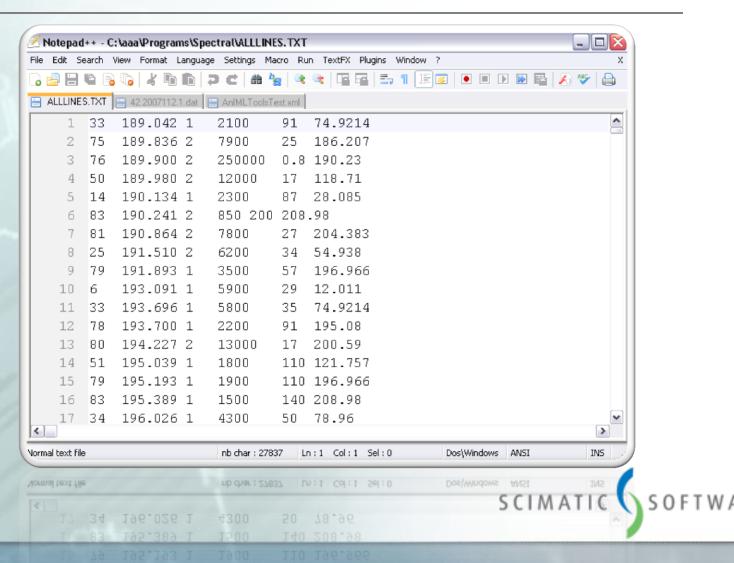


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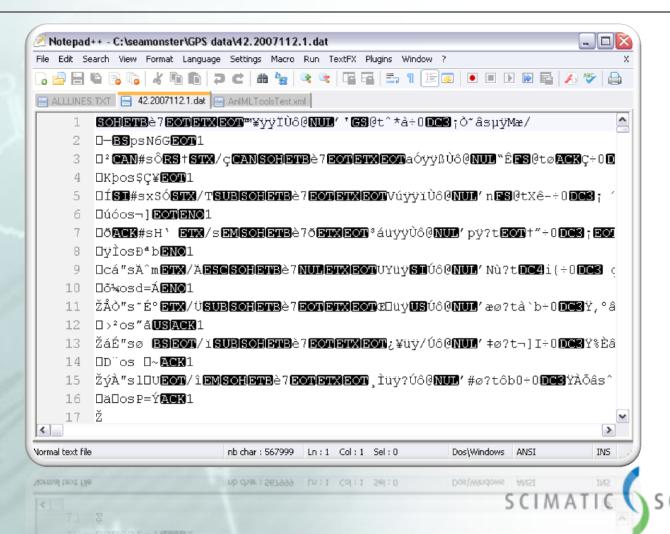
The success of a new data standard is dependent on the ability of the data to be accessible to everyone.



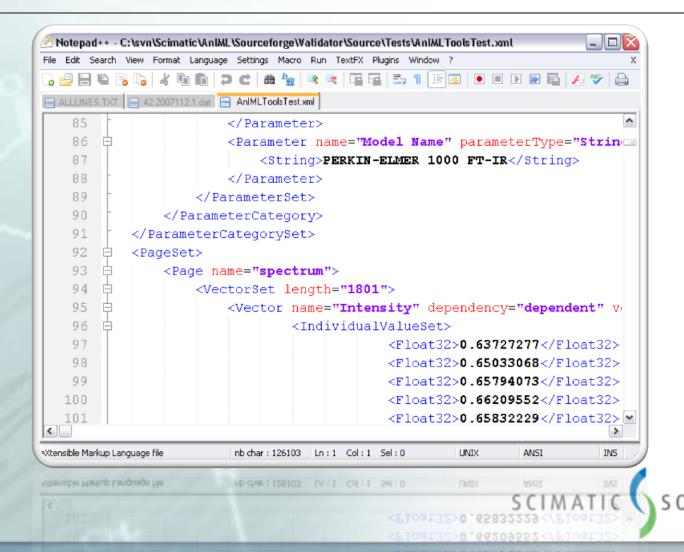
Accessible Data?



Accessible Data?



Accessible Data!



ASTM Licensing Overview

- ASTM is the licensing body responsible for publishing the AnIML standard
- Standards do not use not open source licenses
- Standards are not free



Standards



Back to Molecular Spectroscopy and Separation Science Standards

ASTM E1578 - 06

ASTM E1578 - 06 Standard Guide for Laboratory Information Management Systems (LIMS)

Active Standard ASTM E1578 Developed by Subcommittee: E13.15 | Book of Standards Volume: 03.06

Standards Tracke	l
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Buy Standard (PDF)	more info	39 pages	\$ 51.00	
Buy Standard (Print)	more info	39 pages	\$ 51.00	
Buy Standard + Redline (PDF)	why redline?	78 pages	\$ 61.20	

Standards Subscriptions

Historical (view previous versions of standard) ASTM License Agreement



ASTM License Agreement

www.astm.org/msgs/license_astm.htm

- Ownership Standards are copyrighted by ASTM
- Various Licensing schemes Individual users, single & multisite licenses
- Right to browse, search, retrieve, display and view the Product
- Standard copyright agreement



AnIML XML Schema

- The AnIML Schema is a supplement to the standard
- The AnIML Schema is an XML schema document which lays out the AnIML formatting rules
- Possible to implement AnIML aware software with the schema alone



AnIML XML Schema

- ASTM has made a commitment to ensure that the AnIML
 Schemas are made freely available
- Obtaining the actual standard does cost money but access to the actual *blueprint* of AnIML is free
- There are no licensing fees or roylaties to integrate AnIML into your application
- Similar scenario to using HTML or XML



Adhering to the Standard

- There needs to be a method to ensure that files that claim to adhere to the standard can be verified
- This is the role of the AnIML validation software that will be supplied by ASTM
- To claim a file is AnIML compliant it must be able to pass the validation process



Using AnIML in Products

- There are no restrictions in implementing support for AnIML formatted files in your applications
- AnIML support can be used in
 - Open Source software (even GPL licensed software)
 - Commercial software



Why We Support Open Source

- Why re-invent the wheel over and over again
- We are a solutions company (not a products company)
- Modern day advertising, allows potential clients to evaluate our work without any NDA related issues
- Doing our part to promote the AnIML standard

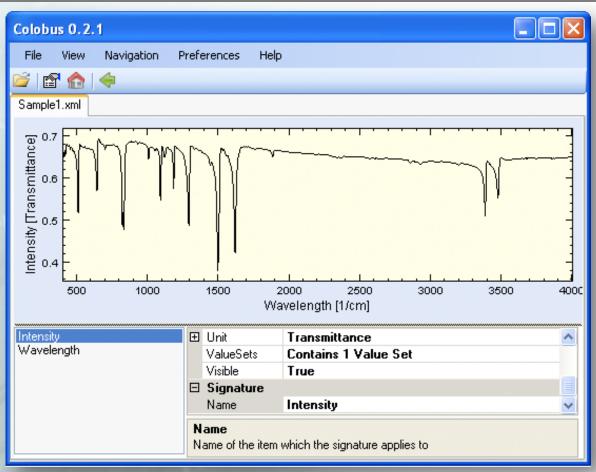


AnIML Tools Project

- Open Source components (C#, Microsoft .Net) for AnIML
- First Open Source .Net solution available
- Hosted on Sourceforge
- LGPL licensing (can be used in commercial products)

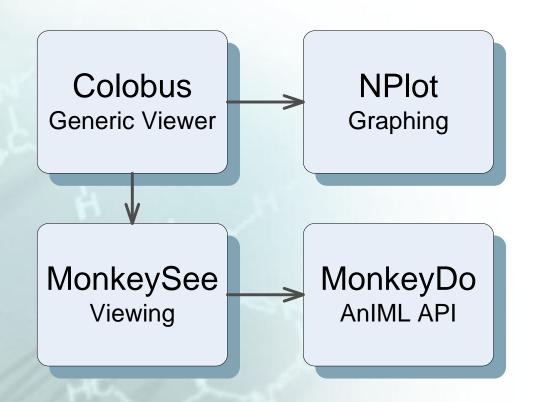


AnIML Tools Project



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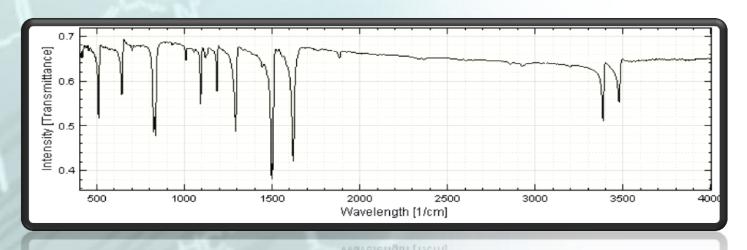
AnIML Tools Project





NPlot

- Popular Open source charting library (over 33,000 downloads)
- Why we choose NPlot:
 - We administrator the project
 - Used in several client projects



Getting Involved

Open Source software is community built software

We are always looking for:

- Software developers C# knowledge with time to donate?
- Feedback Is this software useful for your company?



Questions?

AnIML Project	animl.sourceforge.net
ASTM	www.astm.org
AnIML Tools	www.animltools.com
NPlot	www.nplot.com
Scimatic Software	www.scimatic.com

Jamie McQuay jamie@scimatic.com

