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National Center for Supercomputing Applications  
University of Illinois at Urbana-Champaign  
605 E. Springfield, Champaign, IL  
61820 [httpd@ncsa.uiuc.edu](mailto:httpd@ncsa.uiuc.edu)

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**For the pcre component:**

PCRE LICENCE

-----

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Written by: Philip Hazel [<ph10@cam.ac.uk>](mailto:ph10@cam.ac.uk)

University of Cambridge Computing Service,  
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:  
Mike Belshe (mbelshe@netscape.com)  
Michael Campanella (campanella@stevms.enet.dec.com)

**For the expat xml parser component:**

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gdal/frmts/gtiff/tif\_float.c  
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gdal/frmts/hdf4/hdf-eos/\*  
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gdal/frmts/pcraster/libcsf  
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gdal/frmts/grib/degrib/\*  
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port/cpl\_minizip\*  
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gdal/ogr/ogrsf\_frmts/dxf/intronurbs.cpp  
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gdal/alg/thinplatespline.cpp  
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IEEE754 log() code derived from:  
@(#)e\_log.c 1.3 95/01/18

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gdal/alg/libqhull  
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and

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gdal/frmts/pdf/pdfdataset.cpp (method PDFiumRenderPageBitmap())  
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## JavaScript MD5

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## Jaxrpc 1.1

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Java(TM) API for XML-based Remote Procedure Call (JAX-RPC) Specification ('Specification')

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Files:

```
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make/stub_includes/egl/**
make/stub_includes/khr/**
make/stub_includes/openmax/**
```

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Files:

src/jogamp/graph/geom/plane/AffineTransform.java

src/jogamp/graph/geom/plane/IllegalPathStateException.java

src/jogamp/graph/geom/plane/NoninvertibleTransformException.java

src/jogamp/graph/geom/plane/PathIterator.java

src/jogamp/graph/geom/plane/Path2D.java

src/jogamp/graph/math/plane/Crossing.java

src/org/apache/harmony/misc/HashCode.java

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Typecast  
=====

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<<https://java.net/projects/typecast>>

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Files:  
`src/jogl/classes/jogamp/graph/font/typecast/ot/*`  
`src/jogl/classes/jogamp/graph/font/typecast/ot/table/*`

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`src/jogl/classes/jogamp/graph/font/typecast/ot/table/*`  
`src/jogl/classes/jogamp/graph/font/typecast/tt/engine/*`

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Version 1.0

<http://font.ubuntu.com/ufl/ubuntu-font-licence-1.0.txt>

Or within this repository: `doc/licenses/ubuntu-font-licence-1.0.txt`

Files:

`src/jogamp/graph/font/fonts/ubuntu/*`

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Files:

`make/stub_includes/cg/CG/**`

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PNGJ  
====

PNGJ: Java library for reading and writing PNG images.

Version 1.12 (3 Dec 2012)

<<http://code.google.com/p/pngj/>>

Author: Hernan J. Gonzalez and Shawn Hartsock

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src/jogl/classes/jogamp/opengl/util/pngj/\*\*

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## **Python 2.7.7**

*See below.*

## **Python 2.7.10**

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes

2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes

3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.1.5	3.1.4	2012	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.2.3	3.2.2	2012	PSF	yes
3.3.0	3.2	2012	PSF	yes
3.3.1	3.3.0	2013	PSF	yes
3.3.2	3.3.1	2013	PSF	yes
3.4.0	3.3	2013	PSF	yes

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@author Stoyan Stefanov <sstoo@gmail.com>

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## **SciPy 0.15.1**

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The code for the t-digest was originally authored by Ted Dunning

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### **Xlrd 0.9.3**

### **Xlrd 1.1.0**

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**Xlwt 0.7.4**

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Bundled Libraries:

\*\*\*\*\* Base 64 Library (base64/base64.hpp) \*\*\*\*\*

base64.hpp is a repackaging of the base64.cpp and base64.h files into a single header suitable for use as a header only library. This conversion was done by Peter Thorson (webmaster@zaphoyd.com) in 2012. All modifications to the code are redistributed under the same license as the original, which is listed below.

base64.cpp and base64.h

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René Nyffenegger [rene.nyffenegger@adp-gmbh.ch](mailto:rene.nyffenegger@adp-gmbh.ch)

\*\*\*\*\* SHA1 Library (sha1/sha1.hpp) \*\*\*\*\*

sha1.hpp is a repackaging of the sha1.cpp and sha1.h files from the shallsha1 library (<http://code.google.com/p/smallsha1/>) into a single header suitable for use as a header only library. This conversion was done by Peter Thorson ([webmaster@zaphoyd.com](mailto:webmaster@zaphoyd.com)) in 2013. All modifications to the code are redistributed under the same license as the original, which is listed below.

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\*\*\*\*\* MD5 Library (common/md5.hpp) \*\*\*\*\*

md5.hpp is a reformulation of the md5.h and md5.c code from <http://www.opensource.apple.com/source/cups/cups-59/cups/md5.c> to allow it to function as a component of a header only library. This conversion was done by Peter Thorson ([webmaster@zaphoyd.com](mailto:webmaster@zaphoyd.com)) in 2012 for the WebSocket++ project. The changes are released under the same license as the original (listed below)

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L. Peter Deutsch  
[ghost@aladdin.com](mailto:ghost@aladdin.com)

\*\*\*\*\* UTF8 Validation logic (utf8\_validation.hpp) \*\*\*\*\*

utf8\_validation.hpp is adapted from code originally written by Bjoern Hoehrmann <[bjoern@hoehrmann.de](mailto:bjoern@hoehrmann.de)>. See <http://bjoern.hoehrmann.de/utf-8/decoder/dfa/> for details.

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/\* zlib.h – interface of the 'zlib' general purpose compression library version 1.2.8, April 28<sup>th</sup>, 2013

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zlib was written by Jean-loup Gailly (compression) and Mark Adler (decompression).

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jloup@gzip.org      madler@alumni.caltech.edu

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## Zlib.js

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Extracted from pdf.js

<https://github.com/andreaskal/pdf.js>

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Version 3, 29 June 2007

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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### *0. Definitions.*

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**Version 3, 29 June 2007**

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Ant 1.6.5	Apache License 2.0	ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server
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Apache Avro 1.8.2	Apache License 2.0	Geoevent 10.6.0
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Apache CXF	Apache License 2.0	ArcGIS GeoEvent Extension for Server
Apache Commons	Apache License 2.0	ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server, ArcGIS GeoEvent Extension for Server, ArcGIS 10.3.1 Data Reviewer, Portal for ArcGIS 10.3.1, ArcGIS Runtime SDK for Java, ArcGIS Runtime SDK for Android
Apache CouchDB	Apache License 2.0	ArcGIS 10.3.1 for Server, ArcGIS 10.3.1 Data Store
Apache Curator	Apache License 2.0	ArcGIS GeoEvent Extension for Server
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Apache Derby 10.2.2.0	Apache License 2.0	ArcGIS 10.3.1 for Server

Apache emailvalidator 1.4.1	Apache License 2.0	Portal for ArcGIS 10.4
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Apache HTTP Components	Apache License 2.0	ArcGIS GeoEvent Extension for Server
Apache HTTP Server 2.2.15	Apache License 2.0	ArcGIS 10.3.1 for Server
Apache HTTPClient 4.3	Apache License 2.0	ArcGIS Runtime SDK 10.2.4 for Java, ArcGIS Runtime SDK 10.2.6-2 for Android
Apache HTTPClient 4.3.6	Apache License 2.0	ArcGIS Runtime SDK Quartz for Android and Java (100.0.0)
Apache Jakarta JCS 1.2	Apache License 2.0	ArcGIS 10.3.1 for Server
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Apache Karaf	Apache License 2.0	ArcGIS GeoEvent Extension for Server
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Apache Spark 2.2.0	Apache License 2.0	ArcGIS for Server 10.6
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Apache Tomcat 7.0.64	Apache License 2.0	ArcGIS for Server 10.4, Portal for ArcGIS 10.4, ArcGIS Datastore 10.4
Apache Tomcat 7.0.69	Apache License 2.0	ArcGIS for Server 10.5, Portal for ArcGIS 10.5, ArcGIS Data Store 10.5
Apache Tomcat 7.0.70	Apache License 2.0	ArcGIS for Server 10.5, Portal for ArcGIS 10.5, ArcGIS Data Store 10.5
Apache Tomcat 7.0.72	Apache License 2.0	ArcGIS for Server 10.5.1, Portal for ArcGIS 10.5.1, ArcGIS Datastore 10.5.1
Apache Tomcat 7.0.73	Apache License 2.0	ArcGIS for Server 10.5.1, Portal for ArcGIS 10.5.1, ArcGIS Datastore 10.5.1
Apache Tomcat 8.5.15	Apache License 2.0	ArcGIS for Server 10.6, Portal for ArcGIS 10.6, ArcGIS Data Store 10.6
Apache Xalan 2.7	Apache License 2.0	ArcGIS 10.3.1 for Server
Apache Web Server	Apache License V2.0	AppStudio for ArcGIS V1

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Apache ZooKeeper 3.5.3 Beta 1	Apache License 2.0	ArcGIS Server 10.6.0
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Bluebird	MIT	AppStudio for ArcGIS 1.0, Web AppBuilder for ArcGIS
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Bootstrap	MIT	AppStudio for ArcGIS 1.0, Survey123 Website, Survey123 Hub v1
Bootstrap 3.3.4	MIT License	Portal for ArcGIS 10.5
Bootstrap-datepicker	Apache License 2.0	AppStudio for ArcGIS 1.0,
Bootstrap-daterangepicker	MIT License	Survey123 Hub v1
Bootstrap-dialog	MIT	AppStudio for ArcGIS 1.0

Bootstrap-fileinput	BSD	AppStudio for ArcGIS 1.0
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Bootstrap for Sass	MIT	Survey123 Hub v1
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Bootstrapping Applications using AWS CloudFormation	Apache License 2.0	ArcGIS 10.3.1 for Server

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Canvas	MIT License	Esri Maps for IBM Cognos 6.0.2
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CGAL V4.6.1	LGPL V3.0/GPL V3.0	ArcGIS Desktop, AGServer, colorArcGIS Pro 1.2
CGAL V4.6.3	Commercial License	CityEngine 2016.0 and CityEngine SDK
CGAL V4.8	LGPL V2.0	ArcGIS 10.x (from 10.0 to the latest 10.4) and ArcGIS Pro

CGG2013a geoid models, (1) CGG2013n83a.byn + CGG2013n83a.err, (2) CGG2013i08a.byn + CGG2013i08a.err, plus the (3) CGVD28-related geoid model, HT2_0.byn.	Open Government License - Canada	ArcGIS for Desktop/Server/Engine/Reader 10.5, Pro 1.4, AGOL, Portal (any software that ships the "pedata" folder or the ArcGIS Coordinate Systems Data setup)
CGIS Library 2.01	CGIC License Terms	Esri Maps for IBM Cognos 6.0.2
Chardet	GNU Lesser General Public License 2.1	Esri Roads and Highways v10.4
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Chef Client 12.5	Apache License 2.0	Esri ArcGIS 10.5 for Server with SQL Server Express; Esri ArcGIS 10.5 for Server with SQL Server Express; Esri ArcGIS 10.5 for Server on Ubuntu with Postgresql
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CodeMirror v5.19.0	MIT License	Insights for ArcGIS 1.0
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Commons Configuration	Apache License 2.0	ArcGIS GeoEvent Extension for Server
CommonServiceLocator V1.2	MS-PL	ArcGIS Earth V1.0, Drone2Map
Commons Validator	Apache License 2.0	Portal for ArcGIS 10.4
Compression	MIT	AppStudio for ArcGIS 1.0, Web AppBuilder for ArcGIS
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Cordova InAppBrowser Plugin	Apache License 2.0	Esri maps for MicroStrategy
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D3 3.5.12	BSD	Insights for ArcGIS 1.0
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Dgrid/Dgrid1	BSD License	ArcGIS API for JavaScript
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Dojo Toolkit 1.8.3 (1.6)	BSD License: <a href="https://github.com/dojo/dojo/blob/master/LICENSE">https://github.com/dojo/dojo/blob/master/LICENSE</a>	ArcGIS 10.3.1 for Server, ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, Portal for ArcGIS 10.3.1, ArcGIS GeoEvent Extension for Server

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Dragula	MIT	Survey123 Hub v1
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Easing Equations	BSD License	ArcGIS Runtime SDKs 10.2.x
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Efficient Java Matrix Library 0.25	Apache License V2.0	CityEngine 2016.0

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Enterprise Library.Logging V6.0.1304.0	Microsoft Public License	ArcGIS Earth V1.0
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Font Awesome 4.6.3	SIL OPEN FONT LICENSE Version 1.1	CityEngine 2017.0
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GDAL 1.11.0	MIT, BSD 3 Clause, other non-GPL licenses	Esri Production Mapping 10.3.1 Patch 1
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GEOS	LGPL 2.1	ArcGIS Data Interoperability extension 10.3.1
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GLM	MIT	ArcGIS Pro 1.3
Gl-matrix	MIT	ArcGIS API for JavaScript
Giflib	MIT License	ArcGIS Runtime SDKs 10.2.x

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GnuTLS libgnutls v3.5.11	LGPL V2.1	ArcGIS for Server 10.6
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Google VR SDK for Unity	Apache License 2.0	ArcGIS 360 VR
GotDotNet RefreshPanel sample 1.2	GotDotNet Share Source License	ArcGIS 10.3.1 for Server
Gridstack.js	MIT	CityEngine 2017.0
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Guava Libraries	Apache License 2.0	ArcGIS GeoEvent Extension for Server
Guava	Apache License 2.0	ArcGIS for Server 10.4, Navigator for ArcGIS 2.0
Guava 18.0	Apache License 2.0	ArcGIS Data Store 10.5
Hadoop-AWS	Apache License 2.0	ArcGIS Server 10.5

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J7zip	GNU Lesser General Public License 2.1	ArcGIS 10.3.1 for Server
JSZip	MIT	Business Analyst Web App, Community Analyst ver. 5.2+
Jackson-core-2.6.2	Apache License 2.0	ArcGIS Data Store 10.5
Jackson 2.6.3	Apache License V2.0	CityEngine 2016.0
Jackson JSON processor 1.9.3	Apache License V2.0	ArcGIS for Server 10.4
Jackson JSON Processor	GNU Lesser General Public License 2.1; Apache License 2.0	ArcGIS 10.3.1 for Server (Java Spatial Data Server); ArcGIS GeoEvent Extension for Server, ArcGIS Runtime SDK for Android and Java 10.2.x
Japanese WordNet	Japanese WordNet License	ArcGIS 10.3.1 for Desktop
JCarousel	MIT	CityEngine 2017.0
JavaBeans Activation Framework 1.1 (JAF)	Oracle Binary Code License Agmt	Esri Maps for Cognos

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JSON in Java	MIT LICENSE	ArcGIS 10.3.1 for Server
Java Runtime (JRE) 1.8.0_65	Oracle Binary Code License Agmt	ArcGIS for Server 10.4, Portal for ArcGIS 10.4, ArcGIS Datastore 10.4,
Java 1.8.0_101 Java 1.8.0_111 Java 1.8.0_121	Oracle Binary Code License Agmt	ArcGIS for Server 10.5, Portal for ArcGIS 10.5, ArcGIS Data Store 10.5, ArcGIS for Server 10.5.1, Portal for ArcGIS 10.5.1, ArcGIS Datastore 10.5.1
Java 1.8.0_144 Java 1.8.0_151	Oracle Binary Code License Agmt 21 September 2017	ArcGIS for Server 10.6, ArcGIS for Server 10.6, Portal for ArcGIS 10.6, ArcGIS Data Store 10.6, ArcGIS Desktop-ArcMap 10.6
JavaScript MD5	MIT	WebAppBuilder for ArcGIS
Java Server Pages Standard Tag Library	Sun License	ArcGIS 10.3.1 for Server (Spatial Data Server)
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Java.util.concurrent 2.1	Public Domain	ArcGIS 10.3.1 for Server
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JDOM	Apache-style license: <a href="http://www.idom.org/docs/faq.html#a0030">http://www.idom.org/docs/faq.html#a0030</a>	ArcGIS GeoEvent Extension for Server
Jcifs	GNU Lesser General Public License 2.1	ArcGIS Runtime SDKs 10.2.x
Jimp	MIT	Web AppBuilder for ArcGIS (Developer Edition)
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JRE 1.7.0_76	Oracle Binary Code License Agreement for the Java SE Platform Products and JavaFX	ArcGIS 10.3.1 for Server, Portal for ArcGIS 10.3.1, ArcGIS 10.3.1 Data Store, ArcGIS Runtime SDKs 10.2.x, Tracking Server 10.3.1,
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JSONCPP	MIT License Modified	ArcGIS pro 1.4, ArcGIS for Server 10.5.1
Json4s 3.6	Apache License 2.0	10.6 ArcGIS Data Store
JSON.Net	MIT License: <a href="http://json.codeplex.com/license">http://json.codeplex.com/license</a>	ArcGIS GeoEvent Extension for Server, Drone2Map
JogAmp JOGL 2.2.4	New BSD 2-Clause License with other licensed materials	CityEngine 2008-2016

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jQuery.qrcode.js	MIT	AppStudio for ArcGIS 1.0
jQuery_request	MIT	AppStudio for ArcGIS 1.0
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jQuery XML to JSON Plugin	MIT License: <a href="https://jquery.org/license/">https://jquery.org/license/</a>	ArcGIS GeoEvent Extension for Server
Js-cookie	MIT	AppStudio for ArcGIS 1.0, Survey123 Hub v1
Jsep 0.3.0	MIT License	Insights for ArcGIS 1.0
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LasZIP	GNU Lesser General Public License 2.1	ArcGIS Pro 2.1, ArcGIS Server 10.6
Liblconv	GNU Lesser General Public License 2.1	ArcGIS Pro Version 1.1
LibCurl	X11 License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server, ArcReader 10.3.1, ArcGIS Runtime SDKs10.2.x, Production Mapping 10.3.1
Libcurl 7.45.0	MIT	AGDT, AGS, AGEngine 10.4
Libcurl 7.47.1	MIT	ArcGIS Server, ArcGIS Desktop and ArcGIS Engine, Version 10.4.1
LibCurl 7.49.1	MIT	ArcGIS Server, ArcGIS Desktop and ArcGIS Engine, Version 10.5.
Libiodbc	BSD	ArcGIS 10.3.1 for Server
Libjpg-turbo 2.5.2	BSD License; See also <a href="http://www.ijg.org/files/README">http://www.ijg.org/files/README</a>	ArcGIS Runtime SDKs 10.2.x
Liblzma 5.x	Public Domain with dependencies	ArcGIS 10.5

LibMorton	MIT License	ArcGIS Pro 1.5, ArcGIS for Server 10.5.1
Libpng 1.2.56	Libpng license	ArcGIS Server 10.5, ArcGIS Portal 10.5, ArcGIS Data Store 10.5 ArcGIS Runtime
libpng PNG Support (RDO & Core) 1.2.0	zlib license	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server, ArcReader 10.3.1, ArcGIS Runtime SDKs 10.2.x, ArcGIS 10.3.1 for Maritime: Server
libpng 1.6.28	Libpng license	ArcGIS Desktop 10.5.1, ArcGIS Pro 2.0, ArcGIS Server 10.5.1
libpng 1.6.29	Libpng license	ArcGIS Server 10.6, ArcGIS Runtime (ArcGIS Portal 10.6
LibRaw	CDDL V1.0	CityEngine 2017
Libssh2 1.4.3	Libssh2 License	Production Mapping 10.3.1
Libtess.js V1.2.2	SGI FREE SOFTWARE LICENSE B	ArcGIS Runtime SDK 100.2.0 (update 2) All APIs
Libstdc++ Runtime Library	GNU General Public License v3 (GCC Runtime Library Exception)	ArcGIS 10.3.1 for Server (Linux), ArcGIS Runtime SDKs 10.2.x , Esri Conda Channel for use with 10.5
LIBSVM 3.17	Modified BSD License	ArcGIS 10.3.1 for Desktop

Libtess	SGI Free Software License	ArcGIS 10.3.1, ArcGIS Runtime SDKs 10.2.x
LIBXML	MIT License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server, ArcReader 10.3.1
LibXML2	MIT License	ArcGIS 10.3.1 for Server (Linux)
LibXML2 2.9.3	MIT License	ArcGIS for Server 10.5
Libxml2 2.9.4	MIT License	ArcGIS for Server 10.5
Libxslt 1.1.28	MIT License	ArcGIS for Server 10.5
Libxsxlt 1.1.29	MIT License	ArcGIS for Server 10.5
LittleCMS LittleCMS V2.8	MIT License MIT License	ArcGIS for Server 10.3.1 ArcGIS for Server 10.5.1
log4js	Apache License 2.0	Web AppBuilder for ArcGIS (Developer Edition)
Lucene-Core 3.4	Apache License 2.0	ArcGIS Runtime SDKs 10.2.x
Lucene Java 2.4	Apache License 2.0	ArcGIS 10.3.1 for Server
Lucene .NET 2.0.0.4	Apache License 2.0	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 for Server, Business Analyst Server 10.3.1, ArcGIS Explorer
Lucene.NET 3.0.3	Apache License 2.0	ArcGIS Pro 1.4

Lyra	Apache License 2.0	ArcGIS 10.3.1 Engine, ArcGIS GeoEvent Extension for Server
LZMA SDK	Public Domain	ArcGIS 10.3.1 Engine
MahApps.Metro	Ms-PL	Drone2Map
Maquette.js v2.4.0	MIT	ArcGIS API for JavaScript v4
MapBox GL	MapBox GL native License	Survey123 for ArcGIS V1.0
Mathjs 2.7.0	Apache License 2.0	Insights for ArcGIS 1.0
Matplotlib 1.3.0	Matplotlib License 1.3.0	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 for Server, ArcGIS 10.3.1 Engine
Matplotlib 1.4.3	Python License (based on)	AGDT, AGServer, AEngine 10.4
Matplotlib 2.0.2	Python License (based on)	ArcGIS Pro 2.1
Mesa 11.2.1 Mesa 11.2.2	MIT License MIT License	ArcGIS for Server 10.5, ArcGIS for Server 10.5.1
Mesa 17.0.5	MIT License	ArcGIS Server 10.6
MetadataExtractor	Apache License 2.0	Drone2Map
METIS V5.1.0	Apache License 2.0	ArcGIS Desktop 10.5.1, ArcGIS Server 10.4, ArcGIS Pro 2.0
Microsoft Azure Data Lake Store Hadoop Connector 2.8.0	Apache License 2.0	ArcGIS Enterprise 10.6

Microsoft Azure Data Lake Store Java SDK 2.1.4	MIT License	ArcGIS Enterprise 10.5.1
Microsoft Azure DocumentDB Hadoop 1.2.9	MIT License	ArcGIS Enterprise 10.6
Microsoft Azure DocumentDB Java SDK 1.8.0	MIT License	ArcGIS Enterprise 10.6
Microsoft Azure Management Libraries 2.0.0	Apache License 2.0	ArcGIS Server Cloud Builder for Microsoft Azure 10.5
Microsoft Azure SDK for .Net 2.8	MIT License	ArcGIS Server Cloud Builder for Microsoft Azure 10.5
Microsoft Azure Storage SDK 4.2.0	Apache License 2.0	Esri ArcGIS for Server 10.5 and later version. Portal for ArcGIS 10.5 and later.
Microsoft Computational Network Toolkit (CNTK)	MIT License	ArcGIS Pro 2.1, ArcGIS Server 10.6.1
Microsoft Prism Library 6.1.0 for WPF	Apache License V2.0	Drone2Map
MigLayout 5.0	BSD	ArcGIS Server 10.6, ArcGIS DataStore 10.6, Portal for ArcGIS 10.6
MigraDoc	MIT License	ArcGIS Earth V1.0
MIME Pull	CDDL	ArcGIS 10.3.1 for Server (Spatial Data Server)
MiniWeb	LGPL 2.0	Esri Maps for Office 3.0
MMap64 Android 5.0	MIT	ArcGIS Runtime SDK for Android 100.1.0
Moment (JavaScript library)	MIT	Survey123 Website, Survey123 Hub v1, ArcGIS API for JavaScript



MongoDB	Apache V2.0	ArcGIS WebApp Builder
Mpmath 0.19	BSD	ArcGIS Pro 2.1
Multer	MIT	AppStudio for ArcGIS 1.0
MX4J 3.0.1	Apache License 1.1	ArcGIS 10.3.1 for Server
NetCDF 4.0	BSD License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine
NetCDF4 1.2.9	MIT	ArcGIS Pro 2.1
NetCDF-Java Library	MIT	ArcGIS for Server GeoAnalytics Extension 10.4
Netty	Apache License 2.0	ArcGIS 10.3.1 for Server (Spatial Data Server)
Ng2-bs3-modal	ISC License	Survey123 Hub v1
Ng2-dragula	MIT License	Survey123 Hub v1
Nghttp2 1.26.0	MIT License	ArcGIS 10.6.1, ArcGIS Pro 2.2
NGX-Infinite Scroll	MIT License	Survey123 website, 2.1 release
NGX-Translate	MIT License	Survey123 website v1.10
Ning compress-lzf 1.02	Apache License 2.0 (Modified)	ArcGIS Data Store 10.5

Node-archive	MIT	AppStudio for ArcGIS 1.0
Node-FS	MIT	AppStudio for ArcGIS V1
NodeJS	MIT, BSD3, OpenSSL, ICO, Artistic 2.0, (multiples)	AppStudio for ArcGIS V1.0
Node-sqlite3	BSD	AppStudio for ArcGIS V1.0
Nodemailer	MIT	AppStudio for ArcGIS V1
Nose	GNU Lesser General Public License 2.1	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 for Server, ArcGIS 10.3.1 Engine, ArcGIS Pro 1.0
Nose 1.3.7	LGPL V2.0	AGDT, AGServer,AGEngine 10.4, ArcGIS Pro 1.0, ArcGIS Pro 2.1
Noto CJK	SIL Open Font License	ArcGIS Server 10.6 (Linux)
Noto Sans	SIL Open Font License	ArcGIS Server 10.6 (Linux)
Nscala-time	Apache License 2.0	ArcGIS GeoEvent Extension for Server
NTv2 – binary Grid Shift files, NB2783v2.GSB and NB7783v2.GSB	GeoNB Open Data License	ArcGIS for Desktop/Server/Engine/Reader 10.5, Pro .4, AGOL, Portal (any software that ships the "pedata" folder or the ArcGIS Coordinate Systems Data setup).
NTv2-binary Grid Shift file, NTV2_0.gsb	Open Government License - Canada	ArcGIS for Desktop/Server/Engine/Reader 10.5, Pro .4, AGOL, Portal (any software that ships the "pedata" folder or the ArcGIS Coordinate Systems Data setup).
Numexpr 2.6.2	MIT	ArcGIS Pro 2.1

Numpy 1.9.2	BSD	AGDT, AGServer, AGEngine 10.4, Drone2Map
Numpy 1.13.1	BSD	ArcGIS Pro 2.1
Object.assign Polyfill	Public Domain	Business Analyst
Oculus Mobile SDK 3.2.1	Oculus License	ArcGIS 360 VR
Open Asset Import Library	BSD	Drone2Map
OpenCSV	Apache License 2.0	ArcGIS GeoEvent Extension for Server
OpenCVS 3.6	Apache License 2.0	ArcGIS for Server 10.5
OpenGLInsights	MIT	All ArcGIS Runtime SDK products (v100.1.0)- known as Update 1
OpenGL Sample Implementation	SGI Free Software License	CityEngine 2016
OpenGL Support	SGI Free Software License	ArcGIS 10.3.1 3D Analyst Extension, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server
OpenLDAP 2.3	OpenLDAP Public License	ArcGIS 10.3.1 for Server
OpenLDAP 2.4.44	OpenLDAP Public License	ArcGIS for Server 10.5
Openpyxl	The MIT License	ArcGIS for Server 10.6, ArcGIS Pro. 2.1
Open-SAN S Font	Apache License V2.0	AppStudio for ArcGIS V1.0

OpenSceneGraph 2.6	OpenSceneGraph Public License	ArcGIS 10.3.1 for Desktop 3D Analyst, ArcGIS 10.3.1 for Server 3D Analyst, ArcGIS 10.3.1 Engine 3D Analyst, ArcGIS Runtime SDKs 10.0
Open-Sans	Apache License 2.0	CityEngine 2017.0
OpenSSL	OpenSSL License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 for Server, ArcGIS Runtime SDKs10.2.x, Production Mapping 10.3.1, Esri Production Mapping 10.3.1
OpenSSL Library V1.0.1j	OpenSSL License	AppStudio Player for ArcGIS v1 and AppStudio for ArcGIS Desktop Edition v1
OpenSSL 1.0.2g	OpenSSL License	ArcGIS Engine, ArcGIS Desktop and ArcGIS Server, version 10.4.1, 10.5
OpenSSL 1.0.2h	OpenSSL License	ArcGIS Engine, ArcGIS Desktop and ArcGIS Server version 10.5. Also ArcGIS Pro version 1.4, ArcGIS Runtime SDK for Qt, Windows and Linux, Android, iOS-Quartz v. 100.0
OpenSSL 1.0.2j	OpenSSL License	ArcGIS Engine, ArcGIS Desktop and ArcGIS Server, Version 10.45, ArcGIS Pro Version 1.4
OpenSSL 1.0.2k	OpenSSL License	ArcGIS for Server 10.6, ArcGIS Portal 10.6, ArcGIS Enterprise Cloud Builder Command Line Interface for Amazon Web Services 10.6
OSGeo proj.4	MIT	Esri Production Mapping 10.3.1
Otto	Apache License 2.0	Collector for ArcGIS (Android) 10.2.4, Navigator for ArcGIS 2.0
OverLIB 4.21	Artistic License	ArcGIS 10.3.1 for Server
P7zip	GNU Lesser General Public License 2.1	ArcGIS 10.3.1 Engine (Linux)

Pako	MIT	ArcGIS WebApp Builder
Pandas	BSD	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 for Server, ArcGIS 10.3.1 Engine, ArcGIS Pro 1.0
Pandas 0.16.1	BSD	AGDT, AGServer, AGEngine 10.4, ArcGIS Pro 1.0
Pandas 0.20.3	BSD	ArcGIS Pro 2.1
Paranamer	BSD	10.6 ArcGIS Data Store
PAR		
Pdf.js	Apache License 2.0	ArcGIS API for JavaScript
PDFsharp	MIT License	ArcGIS Earth V1.0
PhantomJS.exe 2.1.1	BSD MIT, BSD, OpenSSL, GNU Lesser General Public License (original and 2.1) in dependencies	ArcGIS Pro 2.0
Phantom NPM	ISC License	Business Analyst Server 10.6.1 or 10.7
Pillow (python-pillow)	Python License	Drone2Map
Pion Network Library 3.0.19	Boost License	ArcGIS Runtime SDKs 10.2.x

Pip 9.0.1	MIT	ArcGIS Pro 2.1
Piwik Android SDK v1.0.2	BSD	Collector, Explorer, Workforce, Navigator, Operations Dashboard
Piwik iOS SDK v3.3.0	MIT	Collector, Explorer, Workforce, Navigator, Operations Dashboard
Piwik Javascript v3.0.0	BSD	Collector, Explorer, Workforce, Navigator, Operations Dashboard
PixieLib.NET 7.1 MFC Class Library	Custom License	ArcGIS 10.3.1 for Desktop ArcGIS 10.3.1 for Server, ArcGIS 10.3.1 Engine
Png.js	MIT	ArcGIS API for JavaScript
Pointer Events PolyFill 0.4.1	MIT License (Derivative)	Portal 10.5.1, ArcGIS Online Web Scene Viewer, ArcGIS API for JavaScript 4.2
Poly2Tri	BSD	Production Mapping 10.5.1
PostgreSQL 9.3.4;	PostgreSQL License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server (Ubuntu AMI), Portal for ArcGIS 10.3.1, ArcGIS 10.3.1 Data Store
PostgreSQL 9.3.5	PostgreSQL License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server (Ubuntu AMI), Portal for ArcGIS 10.3.1
PostgreSQL 9.3.10	PostgreSQL License	ArcGIS Data Store 10.4.1
PostgreSQL 9.5.3	PostgreSQL License	ArcGIS Desktop 10.5, ArcGIS Enterprise 10.5
PostgreSQL 9.6.3	PostgreSQL License	10.6 ArcGIS Data Store, 10.6 Portal for ArcGIS, ArcGIS for Desktop 10.6, ArcGIS Pro 2.1

PPLX	Apache 2.0 License	ArcGIS 10.3.1 for Desktop ArcGIS 10.3.1 for Server, ArcGIS 10.3.1 Engine, ArcGIS Runtime SDKs 10.2.x
Prism V5.0.0	Apache V2.0	ArcGIS Earth V1.0
Prism.Composition v5.0.0	Apache V2.0	ArcGIS Earth V1.0
Prism.Interactivity v5.0.0	Apache V2.0	ArcGIS Earth V1.0
Prism.MEFExtensions v5.0.0	Apache V2.0	ArcGIS Earth V1.0
Prism.Mvvm v1.0.0	Apache V2.0	ArcGIS Earth V1.0
Prism.PubSubEvents v1.0.0	Microsoft Custom License	ArcGIS Earth V1.0
PROJ. Version 4.4.8	MIT License	ArcGIS for INSPIRE
PROJ. Version 4.8.0	MIT License	ArcGIS for INSPIRE
Proj.4 V4.9.2	MIT License	CityEngine 2016.0
Promise Polyfill	MIT License	Business Analyst
Prototype	MIT License	ArcGIS 10.3.1 for Server
Prototype Window Class 0.70	MIT License	ArcGIS 10.3.1 for Server
Public Icons	MIT License (Modified)	Open Data Hub Beta
Pug XML Parser 1.0002	Public Domain	ArcGIS 10.3.1 for Server
Put-selector	BSD License	ArcGIS API for JavaScript

Py 1.4.34	MIT	ArcGIS Pro 2.1
PyParsing 2.0.3	MIT	AGDT, AGServer, AEngine 10.4
PyPDF 1.26.0	BSD	ArcGIS Pro 2.1
Pytest 3.2.1	MIT	ArcGIS Pro 2.1
Python	Python License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server, ArcGIS Runtime SDKs 10.2.x
Python 2.7.7	Python V2.7	AppStudio for ArcGIS V1
Python 2.7.10	Python V2.0	AGDT, AGServer, AEngine 10.4
Python 3.4.4	Python License	Portal for ArcGIS 10.5
Python 3.4.5	Python License	Portal for ArcGIS 10.5
Python 3.5.1	Python License	Drone2Map
Python 3.6.2	Python License	Portal for ArcGIS 10.6, ArcGIS Pro 2.1
Python 4.1.2	Revised BSD	Portal for ArcGIS 10.5



Python-dateutil 2.42	BSD	AGDT, AGServer, AEngine 10.4
Python dateutil 2.6.1	BSD	ArcGIS Pro 2.1
Python Requests	Apache License 2.0	Esri Roads and Highways v10.4
Pytz 2015.4	MIT License	ArcGIS 10.4 (desktop, server, engine), ArcGIS Pro 1.2
Pytz 2017.2	MIT License	ArcGIS Pro 2.1
QRCode.js	MIT License	Survey123 Hub v1.10
Qs	BSD	AppStudio for ArcGIS V1.0
Qt Framework 5.4/5.4.1	GNU Lesser General Public License 2.1	ArcGIS Runtime SDKs 10.2.x
Quill Rich Text Editor	BSD 3 Clause	Survey123 website, 2.3 release
QJson Library	GNU Lesser General Public License 2.1	ArcGIS Runtime SDKs 10.2.x
Quartz 2.2.2	Apache License 2.0	Portal for ArcGIS 10.5, ArcGIS Server 10.5
Quartz Enterprise Scheduler.NET 2.3.3	Apache License 2.0	ArcGIS Data Reviewer Server 10.5

RabbitMQ	Mozilla Public License 1.1 <a href="https://www.rabbitmq.com/mpl.html">https://www.rabbitmq.com/mpl.html</a>	ArcGIS Server 10.3.1, ArcGIS GeoEvent Extension for Server
React	MIT License	Web AppBuilder for ArcGIS
Reflect-metadata 0.1.3	Apache License 2.0	Insights for ArcGIS 1.0
ReportLab	BSD	Esri Roads and Highways
Request	Apache License V2.0	ArcGIS WebApp Builder, AppStudio for ArcGIS 1.0
Requests 2.14.2	Apache License V2.0	ArcGIS Pro 2.1
requirejs (r.js)	BSD	Web AppBuilder for ArcGIS (Developer Edition)
Restify	MIT	AppStudio for ArcGIS V1.0
Restler	MIT	Web AppBuilder for ArcGIS (Developer Edition)
RGBcolor.js	See use rights statement above for this library	Esri Maps for Cognos, Esri Maps for MicroStrategy
Rome	Apache License 2.0	ArcGIS GeoEvent Extension for Server
Rtree.js	MIT	ArcGIS API for JavaScript
S2TC	MIT	ArcGIS Server 10.6, ArcGIS Runtime 100.x
SAAJ 1.1	CDDL + GPL Classpath Exception	Esri Maps for Cognos

SciPy	SciPy License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 for Server, ArcGIS 10.3.1 Engine, ArcGIS Pro 1.0
SciPy 0.15.1	BSD	AGDT, AGServer, AEngine 10.4, ArcGIS Pro 1.0
SciPy 0.19.1	BSD	ArcGIS Pro 2.1
Select2	MIT	CityEngine 2017.0
serve-favicon	MIT	AppStudio for ArcGIS 1.0
Setuptools 36.4.0	MIT	ArcGIS Pro 2.1
SharpKML	Microsoft Public License	Tracking Server 10.3.1
SharpZipLib	Modified GNU Public License	ArcGIS 10.3.1 for Server, Business Analyst Server 10.3.1, Business Analyst Desktop 10.3.1
SharpZipLib	MIT	Drone2Map
ShellJS	BSD	AppStudio for ArcGIS V1.0
Simple Logging Façade for Java (SKF4J)	MIT License: <a href="http://www.slf4j.org/license.html">http://www.slf4j.org/license.html</a>	ArcGIS 10.3.1 for Server (Spatial Data Server), ArcGIS GeoEvent Extension for Server
SiteMesh	OpenSymphony License (BSD Style)	ArcGIS 10.3.1 for Server (Spatial Data Server)
Six 1.9.0	MIT	AGDT, AGServer, AEngine 10.4
Six 1.10.0	MIT	ArcGIS Pro 2.1

Skia	Google BSD License	ArcGIS Runtime SDKs 10.2.x, ArcGIS Mobile 10.3.1, ArcGIS 10.3.1 for Maritime: Server
SlidingMenu	Apache License 2.0	Collector for ArcGIS
SlimScroll	MIT	AppStudio for ArcGIS 1.0
SmoothProgressBar	Apache License 2.0	ArcGIS Runtime SDKs 10.2.x, Navigator for ArcGIS 2.0
Snowball.NET	Apache License 2.0	ArcGIS 10.3.1 for Server, ArcGIS10.3.1 for Desktop
Spirit JSON Library	MIT License	ArcGIS Runtime SDKs 10.2.x
Spring Framework	Apache License 2.0	ArcGIS GeoEvent Extension for Server, Portal for ArcGIS 10.3.1
Spymemcached	MIT License	ArcGIS 10.3.1 for Server (Spatial Data Server)
Squish DXT Compression Library 1.1	MIT License	ArcGIS 10.3.1 3D Analyst Extension, ArcGIS 10.3.1 for Server, ArcReader 10.3.1
SQLite	Public Domain	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server, ArcGIS Pro 1.0, ArcGIS 10.3.1 Data Reviewer (Server/Desktop/Pro), ArcGIS Runtime SDKs10.2.x, ArcGIS Mobile 10.3.1
SQL Server Spatial Tools	Microsoft Public License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server
Store.js V1.3.16	MIT License	ArcGIS WebApp Builder
Summernote	MIT License	AppStudio for ArcGIS 1.0

Sunflow Torus and Solvers	MIT License	CityEngine 2017.1
Superagent	MIT License	Web AppBuilder for ArcGIS (Developer Edition)
SVProgressHUD 2.2.1	MIT License	ArcGIS Runtime SDK 100.1 for iOS
Swing-layout-1.0.3	LGPL	Esri Maps for Cognos
Swipter	MIT	ArcGIS for Local Gov't; Near Me WAB widget
SymPy	BSD	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 for Server, ArcGIS 10.3.1 Engine, ArcGIS Pro 1.0
SymPy 0.7.6	BSD	AGDT, AGServer, AEngine 10.4, ArcGIS Pro 1.0
Sympy 1.1.1	BSD	ArcGIS Pro 2.1
SystemsJS 0.19.27	MIT License	Insights for ArcGIS 1.0
Tao.OpenGL 2.0	MIT License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine
T-digest 3.0	Apache License 2.0	ArcGIS Data Store 10.5
Tether 1.1.1	MIT License	Insights for ArcGIS 1.0
Thinlet 6.0	GNU Lesser General Public License 2.1	ArcGIS 10.3.1 for Server

Three.js r79	MIT	Portal 10.5, ArcGIS Online Web Scene Viewer, ArcGIS API for JavaScript 4.1
TIFF Image (RDO & Core)/Libtiff 4.0.7	Libtiff License/Public Domain	ArcGIS 10.5.1 for Desktop, ArcGIS Pro 2.0, ArcGIS 10.5.1 for Server,
TingoDB	MIT	ArcGIS WebApp Builder
TrueZip	Apache License 2.0	ArcGIS Runtime SDKs 10.2.x
TSnackBar	Apache License 2.0	Navigator for ArcGIS 2.0
Twix.js	MIT License	Survey123 Hub v1
Ultimate Grid	Code Project Usage License	Esri Production Mapping 10.3.1
UnitsNet	MIT License/code	Drone2Map1.1
Unity Application Block	Apache License 2.0	Drone2Map
Urllib3	MIT License	Esri Roads and Highways 10.4
URL Rewrite Filter	New BSD	ArcGIS 10.3.1 for Server
Velocity	Apache License 2.0	Portal for ArcGIS 103, ArcGIS online
ViewPageIndicator	Apache License 2.0	Navigator for ArcGIS 2.0
Watch	Apache License 2.0	Web AppBuilder for ArcGIS (Developer Edition)

Wheel 0.29.0	MIT	ArcGIS Pro 2.1
Wincertstore 0.2	Python License	ArcGIS Pro 2.1
Wine 1.3.8	GNU Lesser General Public License 2.1	ArcGIS 10.3.1 for Server, ArcGIS 10.3.1 Data Store, ArcGIS Runtime SDKs 10.2.x
Wine 1.7.54 Wine 1.7.54 Wine 2.11	LGPL V2.1	ArcGIS for Server 10.4, ArcGIS Runtime 10.4, ArcGIS for Server 10.6, ArcGIS Runtime 10.6
Win_iconv	Public Domain	ArcGIS 10.5
Winser	MIT	Web AppBuilder for ArcGIS (Developer Edition)
World Magnetic Model (WMM)	Public Domain	Esri Production Mapping 10.3.1
WordNet.NET	Apache License 2.0/ WordNet License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine
WPFAnimatedGIF	Apache License 2.0	Drone2Map
WPF Chrome	MSDN Code Gallery Binary	ArcGIS Mobile 10.3.1
WPF Docking Library	CPOL 1.02	ArcLogistics 10.3.1
WPFThemes	MIT License	Drone2Map
WPF Toolkit	Microsoft Public License	ArcGIS Mobile 10.3.1, ArcLogistics 10.3.1, ArcGIS 10.3.1 for Desktop ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server

WxWidgets 2.8.7	wxWindows Library License	ArcGIS 10.3.1 Engine
XACML 1.2	Sun XACML License	ArcGIS 10.3.1 for Server
XCB	XCB License	ArcGIS Runtime SDKs 10.2.x
XMP Core	BSD	Drone2Map
Xerces C++ 3.1.1 & 3.0.1	Apache License 2.0	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server, ArcGIS Tracking Analyst Extension 10.3.1, ArcReader 10.3.1, ArcGIS Runtime SDKs 10.2 x, Production Mapping 10.3.1
Xerces 3.1	Apache License V2.0	Esri Production Mapping 10.3.1
Xerces-C 3.2.0	Apache License V2.0	ArcGIS for INSPIRE
Xlrd 0.80	BSD	ArcGIS 10.3.1 for Desktop ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server
Xlrd 0.9.3	BSD	AGDT, AGServer, AGEngine 10.4
Xlrd 1.1.0	BSD	ArcGIS Pro 2.1
Xlwt 0.7.4	BSD	ArcGIS 10.3.1 for Desktop ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server



Xlwt 1.0.0	BSD	AGDT, AGServer, AEngine 10.4
Xlwt 1.3.0	BSD	ArcGIS Pro 2.1
XmlToJson Plugin	MIT License: <a href="http://opensource.org/licenses/mit-license.php">http://opensource.org/licenses/mit-license.php</a>	ArcGIS GeoEvent Extension for Server, Survey123 Hub v1
XML4C 5.0.0	W3C Software Notice and License	ArcGIS 10.3.1 for Server
XMLBeans (9xmlmeans) 2.6.0	Apache License 2.0	ArcGIS for Server 10.5
XSLT C Library(libxml2)	MIT License	ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server, ArcReader 10.3.1
Xstyle	BSD License	ArcGIS API for JavaScript
XVFB for X11	MIT License	ArcGIS 10.3.1 for Server (Linux)
Xvfb 1.18.3 Xvfb 1.19.0	Modified MIT License MIT License	ArcGIS for Server 10.5, ArcGIS for Server 10.5.1
Xvfb 1.19.3	MIT License	ArcGIS Server 10.6
Zaphoyd WebSocket++/0.7.0	Modified MIT License	ArcGIS Pro 2.0
Zlib Data compression V1.2.8, V1.2.11	zlib license	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server, ArcReader 10.3.1, ArcGIS Runtime SDKs 10.2.x, ArcLogistics Navigator 10.3.1, ArcLogistics 10.3.1; ArcGIS 10.3.1 for Maritime: Server, Production Mapping 10.3.1, Esri Production Mapping 10.3.1, ArcGIS Server 10.6, ArcGIS Runtime, ArcGIS Portal 10.6, Datastore 10.6, ArcGIS for INSPIRE

Zlib.js	MIT License	ArcGIS API for JavaScript
Zone.js.0.6.12	MIT License	Insights for ArcGIS 1.0
Zxing CCP	Apache License V2.0	AppStudio for ArcGIS V1.0, Survey 123 for ArcGIS v1
Zxwing-core	Apache License 2.0	ArcGIS 10.3.1 for Server, Portal for ArcGIS 10.3.1, ArcGIS 10.3.1 Data Store
Zxwing-javase	Apache License 2.0	ArcGIS 10.3.1 for Server, Portal for ArcGIS 10.3.1, ArcGIS 10.3.1 Data Store

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