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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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

University of Cambridge Computing Service,  
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ZeusBench V1.01

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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)

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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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gdal/ogr/ogrsf\_fmts/dxf/intronurbs.cpp

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This code is derived from the code associated with the book "An Introduction to NURBS" by David F. Rogers. More information on the book and the code is available at:

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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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C.B. Barber  
Arlington, MA

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gdal/frmts/pdf/pdfdataset.cpp (method PDFiumRenderPageBitmap())

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Version: 1.1

Status: FCS, Maintenance Release

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=====

<<http://harmony.apache.org/>>

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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`

A.3) The JOGL source tree contains code from David Schweinsberg  
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Typecast

=====

Typecast is a font development environment for OpenType font technology.

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

Author: David Schweinsberg

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

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=====

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Author: Canonical Ltd., Dalton Maag

UBUNTU FONT LICENCE

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/\*

A.5) The JOGL source tree also contains header files from NVIDIA,  
reflecting Cg.

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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## **Libgcc\_s.so.1**

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Version 3.1, 31 March 2009

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## Libstdc++ Runtime Library

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Mignon Belongie <mignon at atomiclabs dot com> Michael  
Dickey <mike at atomiclabs dot com>  
Stas Khirman <stas at khirman dot com>  
Andrew C. Morrow <andrew.c.morrow at gmail dot com> Taneli Otala  
<taneli at atomiclabs dot com>

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## Pointer Events PolyFill 0.4.1

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## Pug XML Parser

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## PyParsing 2.0.3

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## **Python 2.7.7**

*See below.*

## **Python 2.7.10**

### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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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0.9.0 thru 1.2		1991-1995	CWI	yes
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
2.5	2.4	2006	PSF	yes
2.7	2.6	2010	PSF	yes

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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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1.6	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
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
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3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
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3.1.3	3.1.2	2010	PSF	yes
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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
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3.3.2	3.3.1	2013	PSF	yes
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@author Stoyan Stefanov <sstoo@gmail.com>

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

A number of small but very helpful changes have been contributed by Adrien Grand  
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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](mailto: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

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

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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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[ghost@aladdin.com](mailto:ghost@aladdin.com)

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

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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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Shaon Barman <shaon.barman@gmail.com>

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**Version 3, 29 June 2007**

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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

Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files	Oracle Binary Code License Agmt	Esri Portal for ArcGIS, ArcGIS for Server, and ArcGIS Data Store Version 10.5
Java Server Faces 1.1_01	Sun Binary Code License Agreement	ArcGIS 10.3.1 for Server
JSON in Java	MIT LICENSE	ArcGIS 10.3.1 for Server
JSON Schema Validator	MIT License Some parts Public Domain	Portal 10.6, ArcGIS Online Web Scene Viewer, ArcGIS API for JavaScript 4.4
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
JavaScript MD5	MIT	WebAppBuilder for ArcGIS
Java Server Pages Standard Tag Library	Sun License	ArcGIS 10.3.1 for Server (Spatial Data Server)
Java Service 2.0.10	GNU Lesser General Public License 2.1	ArcGIS 10.3.1 for Server
Java.util.concurrent 2.1	Public Domain	ArcGIS 10.3.1 for Server
Javax.mail 1.4	Oracle Binary Code License Agmt	Esri Maps for Cognos
JAXB 2.0	Common Development and Distribution License	ArcGIS 10.3.1 for Server
Jaxrpc 1.1	Sun Microsystems License	Esri Maps for Cognos

JAX-RS Jersey 1.1.5	Common Development and Distribution License (CDDL)	ArcGIS 10.3.1 for Server
JDOM	Apache-style license: <a href="http://www.jdom.org/docs/faq.html#a0030">http://www.jdom.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)
JodaTime	Apache License 2.0	ArcGIS GeoEvent Extension for Server; Portal for ArcGIS 10.3.1
JodaTime 2.8.2	Apache License 2.0	ArcGIS Data Store 10.5
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,
JSON in Java	MIT License	ArcGIS 10.3.1 for Server
JSONCPP	MIT License Modified	ArcGIS pro 1.4, ArcGIS for Server 10.5.1
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
Jolokia	Apache License 2.0	ArcGIS GeoEvent Extension for Server
JQuery 1.3.1	MIT License: <a href="https://jquery.org/license/">https://jquery.org/license/</a>	ArcGIS 10.3.1 for Desktop, ArcGIS GeoEvent Extension for Server

Jjquery 2.1.4	MIT	Insights for ArcGIS 1.0
JQuery	MIT	ArcGIS WebApp Builder, Survey123 Website, Survey123 Hub v1
JQuery.i18n.properties	MIT	AppStudio for ArcGIS 1.0
JQuery-minicolors	MIT	AppStudio for ArcGIS 1.0
JQuery.qrcode.js	MIT	AppStudio for ArcGIS 1.0
JQuery_request	MIT	AppStudio for ArcGIS 1.0
JQuery UI	MIT / Public Domain <a href="https://jquery.org/license/">https://jquery.org/license/</a>	CityEngine 2017
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
JS-Doc Toolkit 2.1.0	MIT License	ArcGIS 10.3.1 for Server, ArcGIS 10.3.1 Engine
JSONCPP	JSONCPP License	ArcGIS Pro 1.4, ArcGIS 10.5.1 for Server
JjsPlumb	Dual License: MIT and GPLv2	ArcGIS GeoEvent Extension for Server
Jsr166e 1.1.0	CC0	ArcGIS Data Store 10.5

JSZip	MIT	ArcGIS WebApp Builder
JTS Topology Suite 1.13	LGPL V3.0	ArcGIS for Server 10.4
Jupyter 1.0	BSD	Portal for ArcGIS 10.5
Jupyterhub 0.3	BSD	Portal for ArcGIS 10.5
Jython 2.7	The Jython License	CityEngine 2016.0
Kdtree.js	MIT	ArcGIS API for JavaScript
Kevva	MIT	Enketo viewer 1.11
Kryo	BSD	ArcGIS for Server GeoEvents Extension 10.4
Ladda for BootStrap 3	MIT	Survey123 Website
LAPACK	BSD License	ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server
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

Libssh2 1.4.3	Libssh2 License	Production Mapping 10.3.1
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
Libxsslt 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
Lodash V4.17.2	JS License and Dojo License	CityEngine 2017.0
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	AGDT, AGServer, AGEngine 10.4
Mesa 11.2.1 Mesa 11.2.2	MIT License MIT License	ArcGIS for Server 10.5, ArcGIS for Server 10.5.1
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 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 Prism Library 6.1.0 for WPF	Apache License V2.0	Drone2Map
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
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

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 (ISC)	Survey123 Hub v1
Ng2-dragula	MIT License	Survey123 Hub v1
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, AEngine 10.4, ArcGIS Pro 1.0
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).
Numpy 1.9.2	BSD	AGDT, AGServer, AGEngine 10.4, Drone2Map
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
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
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	Open SSL License	AppStudio Player for ArcGIS v1 and AppStudio for ArcGIS Desktop Edition v1
OpenSSL 1.0.2g	Open SSL License	ArcGIS Engine, ArcGIS Desktop and ArcGIS Server, version 10.4.1, 10.5
OpenSSL 1.0.2h	Open SSL 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	Open SSL License	ArcGIS Engine, ArcGIS Desktop and ArcGIS Server, Version 10.45, ArcGIS Pro Version 1.4
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
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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
Pillow (python-pillow)	Python License	Drone2Map
Pion Network Library 3.0.19	Boost License	ArcGIS Runtime SDKs 10.2.x
Piwik Android SDK v1.0.2	BSD	Collector, Explorer, Workforce, Navigator, Operations Dashboard
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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
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.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
PyParsing 2.0.3	MIT	AGDT, AGServer, AGEngine 10.4
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, AGEngine 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 4.1.2	Revised BSD	Portal for ArcGIS 10.5

Python-dateutil 2.4.2	BSD	AGDT, AGServer, AEGEngine 10.4
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
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
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
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

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
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, AityEngine 10.4, ArcGIS Pro 1.0
Select2	MIT	CityEngine 2017.0
serve-favicon	MIT	AppStudio for ArcGIS 1.0
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, AGEngine 10.4
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 SDKs 10.2.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	ArcGIS WebApp Builder
Summernote	MIT	AppStudio for ArcGIS 1.0
Superagent	MIT	Web AppBuilder for ArcGIS (Developer Edition)
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, AGEngine 10.4, ArcGIS Pro 1.0
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 Licensecode	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)
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	LGPL V2.1	ArcGIS for Server 10.4, ArcGIS Runtime 10.4
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
WPFAutomatedGIF	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
WPFTemplates	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
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
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, AGEngine 10.4
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
Zaphoyd WebSocket++/0.7.0	Modified MIT License	ArcGIS Pro 2.0
Zlib Data compression	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
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
Zwing-core	Apache License 2.0	ArcGIS 10.3.1 for Server, Portal for ArcGIS 10.3.1, ArcGIS 10.3.1 Data Store
Zwing-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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