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National Center for Supercomputing Applications
University of Illinois at Urbana-Champaign
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61820 httpd@ncsa.uiuc.edu

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Written by: Philip Hazel <ph10@cam.ac.uk>

University of Cambridge Computing Service,
Cambridge, England. Phone: +44 1223 334714.

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

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Mike Belshe (mbelshe@netscape.com)
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Bootstrap-sass 3.3.5

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Colorama 0.3.9
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Cropper.js v1.1.3

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Dgrid/Dgrid1

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gdal/frmts/gtiff/tif_float.c

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gdal/frmts/pcraster/libcsf

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gdal/frmts/grib/degrib/*

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gdal/ogr/ogrsf_frmts/dxf/intronurbs.cpp

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

IEEE754 log() code derived from:
@(#)e_log.c 1.3 95/01/18

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gdal/alg/libqhull

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

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JsonSchema 3.0.1

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Jaxrpc 1.1

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Version: 1.1

Status: FCS, Maintenance Release
Release: October 14, 2003

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make/stub_includes/khr/**
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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
========

Typecast is a font development environment for OpenType font technology.

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

Author: David Schweinsberg

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src/jogl/classes/jogamp/graph/font/typecast/tt/engine/*

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==================

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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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JQuery 2.1.4

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Jss-preset-default

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Kerberos V5 1.16.1

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in src/lib/gssapi, including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c

```
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
```

and the initial implementation of incremental propagation, including the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
```

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Keyring 19.0.1

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Ladda for BootStrap 3

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Libgcc_s.so.1

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liblzma 5.x

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Libstdc++ Runtime Library
Libstdc++.so6.024 Runtime Library

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nghttp2 1.26.0

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Ng -lazyload-image

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Node-archiver

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Numexpr 2.6.2
Numexpr 2.6.9

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NumPy 1.9.2
NumPy 1.13.1
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Oculus Mobile SDK 3.2.1

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Igor Pavlov

Pip 9.0.1
Pip 18.1
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Pluggy 0.9.0

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Pointer Events PolyFill 0.4.1

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Prompt_toolkit 2.0.9

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Psycopg2

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Additional Help:

Peter Fein contributed a logging connection/cursor class that even if it was not used directly heavily influenced the implementation currently in psycopg2.extras.

Jan Urbański (re)started the work on asynchronous queries and contributed both on that and on other parts of psycopg2.

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Put-selector

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Py 1.8.0

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Pyresistent 0.14.11

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Pytest 3.2.1
Pytest 4.4.0

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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Python 2.7.7

Python 2.7.10

Python 2.7.16

A. HISTORY OF THE SOFTWARE

==========

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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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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Python 3.4.4

Python 3.4.5

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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
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
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Python-dateutil 2.8.0

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Simple Logging Façade for Java (SLF4J)

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Squish DXT Compression Library

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Store.js V1.3.16

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SVProgressHUD 2.2.1

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SymPy 0.7.6
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SystemsJS 0.19.27
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T-digest 3.0

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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Testpath 0.4.2

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Three.js r79

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X86cpu 0.4

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Xerces 3.1

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Xerces C++ Parser

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Xlrd 0.9.3
Xlrd 1.1.0
Xlrd 1.2.0

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Xlwt 0.7.4
Xlwt 1.0.0
Xlwt 1.3.0

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Xvfb V1.18.3

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****** 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
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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) 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

****** UTF8 Validation logic (utf8_validation.hpp) ******
utf8_validation.hpp is adapted from code originally written by Bjoern Hoehrmann <bjoern@hoehrmann.de>. See http://bjoern.hoehrmann.de/utf-8/decoder/dfa/ for details.

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Xvfb V1.19.3
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ZeroMQ 4.1.4
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Zstandard 1.3.4

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Version 3, 29 June 2007

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Apache POI 3.13/poi-ooxml-3.13/poi-ooxml-schemas-3.13/ poi-4.0.0.jar, poi-ooxml-4.0.0.jar, ooxml-schemas-1.4.jar	Apache License 2.0	ArcGIS for Server 10.5, ArcGIS for Server 10.7
Apache Quartz.NET	Apache License 2.0	ArcGIS 10.3.1 Data Reviewer
Apache Spark 1.3.0	Apache License 2.0	ArcGIS 10.4 for Server
Apache Spark 1.4	Apache License 2.0	ArcGIS for Server 10.4
Apache Spark 1.6.0	Apache License 2.0	ArcGIS for Server 10.4, ArcGIS for Server 10.5
Apache Spark 2.2.0	Apache License 2.0	ArcGIS for Server 10.6
Apache Tomcat 1.7.0.57	Apache License 2.0	ArcGIS 10.3.1 for Server, Portal for ArcGIS 10.3.1

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 Tomcat 9.0.8	Apache License 2.0	ArcGIS for Server 10.7.0, Portal for ArcGIS 10.7.0, ArcGIS Data Store 10.7.0
Apache Tomcat 9.0.17	Apache License 2.0	ArcGIS for Server 10.7.1, Portal for ArcGIS 10.7.1, ArcGIS Data Store 10.7.1, ArcGIS Notebooks 10.7.1
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	Apache License 2.0	ArcGIS 10.4 for Server
Apache ZooKeeper 3.5.3 Beta 1	Apache License 2.0	ArcGIS Server 10.6.0
Array Generics	MIT	WebAppBuilder for ArcGIS

ASM 3.1	BSD License	Esri Maps for IBM Cognos 6.0.2
AspectJ 1.1.1	Common Public License 1.0	ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server
Assimp Open access import library 3.1.1	BSD License	ArcGIS Runtime SDKs 10.2.x
Atomicwrites 1.3.0	MIT License	ArcGIS Pro 2.4
Attrs 19.1.0	MIT License	ArcGIS Pro 2.4
Aws-elasticache	Amazon Software License	Portal for ArcGIS 10.3.1, ArcGIS online
AWS SDK for Java, V1.11.311	Apache License 2.0	ArcGIS for Server 10.4, Portal for ArcGIS 10.4, Esri ArcGIS for Server 10.6.1 and later version. Portal for ArcGIS 10.6.1 and later
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Big.js	MIT	ArcGIS API for JavaScript
Bitlyj 2.0	Apache License 2.0	ArcGIS Runtime SDKs 10.2.x
Blaze 3.3	BSD License	ArcGIS Pro Desktop/Server
Bleach 3.1.0	Apache License 2.0	ArcGIS PRO 2.4
Bluebird	MIT	AppStudio for ArcGIS 1.0, Web AppBuilder for ArcGIS
Body-parser	MIT	AppStudio for ArcGIS 1.0, Web AppBuilder for ArcGIS

Boost 1.44/1.45/1.55/1.57	Boost License 1.0	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 Data Store, ArcGIS Pro 1.0, ArcGIS Runtime SDKs 10.2.x, Business Analyst Server 10.2, Tracking Server 10.2 (V.1.45), ArcGIS for INSPIRE (V1.55.00)
Boost C++ Libraries	MIT	CityEngine SDK (2008 – 2016)
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
Bootstrap-loader	MIT	Survey123 Hub v1
Bootstrap-rtl	MIT	AppStudio for ArcGIS 1.0
Bootstrap for Sass	MIT	Survey123 Hub v1
Bootstrap-Sass 3.3.5	MIT	Insights for ArcGIS 1.0, Insights for ArcGIS 3.0
Bootstrap-slider 5.1.0	MIT	Insights for ArcGIS 1.0
Bouncy Castle	M Adaptation of MIT X11 License: http://www.bouncycastle.org/licence.html	ArcGIS GeoEvent Extension for Server
Bootstrapping Applications using AWS CloudFormation	Apache License 2.0	ArcGIS 10.3.1 for Server

Brotli 1.0.4		ArcGIS 10.7, ArcGIS Pro 2.3
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ButterKnife	Apache License 2.0	Navigator for ArcGIS 2.0
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Caja V6003	Apache License V2.0	WebAppBuilder for ArcGIS
Calcite + Bootstrap	Apache V2.0	Survey123 Website
Canvas	MIT License	Esri Maps for IBM Cognos 6.0.2
Canvas2Image	MIT	Esri Maps for MicroStrategy
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Cewolf 1.0	GNU Lesser General Public License 2.1	ArcGIS 10.3.1 for Server
Cffi 1.12.2	MIT License	ArcGIS Pro 2.4
Cfftime 1.0.0b1	MIT License	ArcGIS Pro 2.4

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
Chart.js	MIT	AppStudio for ArcGIS 1.0
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
Chokidar	MIT	Web AppBuilder for ArcGIS (Developer Edition
Cividis colormap	CC0	ArcGIS Pro 2.3, ArcGIS Enterprise 10.7
Cldr-data	MIT	Survey123 website, 2.8 release

Clipboard 1.5.8	MIT	Insights for ArcGIS 1.0
Clipper Library v. 6.1.3	Boost Software License	ArcGIS Runtime SDKs 10.2.x
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CodeMirror v5.19.0	MIT License	Insights for ArcGIS 1.0
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CollagePlus for jQuery	MIT License	Survey123 Website
Colorama 0.3.9	BSD	ArcGIS Pro 2.1
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Color-scheme-js	BSD	Survey123 Website V3.1
Commons CLI	Apache License 2.0	ArcGIS GeoEvent Extension for Server
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

Concurrentlinked-Hashmap	Apache License 2.0	ArcGIS 10.3.1 for Server (Spatial Data Server)
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Console-stamp V0.2.7	MIT	Survey123 website, 2.8 release
ConvertUTF	University of Illinois/NCSA Open Source License & Unicode License	ArcGIS Runtime SDKs 10.2.x
Cookie-parser	MIT	AppStudio for ArcGIS 1.0, Web AppBuilder for ArcGIS
Cordova InAppBrowser Plugin	Apache License 2.0	Esri maps for MicroStrategy
Core-js 2.4.0 Core-js 2.5.4	MIT	Insights for ArcGIS 1.0, Insights for ArcGIS 3.0
Cropper.js v1.1.3	MIT	Web AppBuilder for ArcGIS (December release)
Cryptography 2.6.1	Dual licensed – Apache 2.0 or BSD-3 clause	ArcGIS PRO 2.4
CsvReader	MIT	Drone2Map
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Cycler 0.10.0	BSD	ArcGIS Pro 2.1
D3	BSD	Survey123 Website, Survey123 Hub v1

D3 3.5.12	BSD	Insights for ArcGIS 1.0
D3-cloud	BSD	Survey123 Hub v1
Date Range Picker	MIT License	Survey123 Website
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Decorator 4.4.0	BSD-3Clause License	ArcGIS Pro 2.4
Deferred	MIT	ArcGIS WebApp Builder
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Delegate 2.1.0.3	MIT License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server, ArcReader 10.3.1
Dgrid/Dgrid1	BSD License	ArcGIS API for JavaScript
Dijit	BSD License	ArcGIS API for JavaScript
Dojo Toolkit 1.8.3 (1.6)	BSD License: https://github.com/dojo/dojo/blob/master/LICENSE	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
Dojo Toolkit 1.11.1	BDS License	Portal for ArcGIS 10.5, ArcGIS for Server 10.5, ArcGIS Data Store 10.5, ArcGIS API for JavaScript

Dojo Toolkit 1.12	BSD License	Portal for ArcGIS 10.6, ArcGIS Server 10.6, ArcGIS Data Store 10.6
Dojox	BSSD License	ArcGIS API for JavaScript
DotNetZip	Microsoft Public License	ArcGIS Mobile 10.3.1, Tracking Server 10.3.1, Drone2Map
Download	MIT	AppStudio for ArcGIS 1.0
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Dragula	MIT	Survey123 Hub v1
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Earcut 2.1.1	ISC License	Portal 10.5.1, ArcGIS Online Web Scene Viewer, ArcGIS API for JavaScript, ArcGIS API for JavaScript
Easing Equations	BSD License	ArcGIS Runtime SDKs 10.2.x
Eclipse User Assistance 3.2.1	Eclipse Public License 1.0	ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server
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Efficient and Lightweight In-Memory Implementation of R*-Tree	BSD	ArcGIS 10.3.1 Data Reviewer

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Elasticsearch Plugin: Delete-by-query	MIT	ArcGIS Data Store 10.5
Elasticsearch-py	Apache License V2.0	ArcGIS Server V10.6.1
Elasticsearch-sql	Apache License V2.0	ArcGIS for Server 10.4, ArcGIS Data Store 10.5
Elkjs 0.3.0	Eclipse Public License V1.0	Insights for ArcGIS 3.0
Ember cli	MIT	Survey123 Website
Enterprise Library 4.1	Microsoft Public License	ArcLogistics 10.3.1
Enterprise Library.Common V6.0.1304.0	Microsoft Public License	ArcGIS Earth V1.0
Enterprise Library.Logging V6.0.1304.0	Microsoft Public License	ArcGIS Earth V1.0
Entrypoints 0.3	MIT License	ArcGIS PRO 2.4
Entt	The MIT License	All ArcGIS Runtime SDK products (v100.2.0)- known as Update 2

Epic Datasmith SDK	Proprietary License	CityEngine 2017
Erlang	Erlang Public License	ArcGIS 10.3.1
Es6-promise 3.0.2	MIT	Insights for ArcGIS 1.0
Esprima.js	BSD License	ArcGIS API for JavaScript
Esri Cedar	Apache V2.0	Survey123 Website
Exceljs	MIT License	Survey123 Hub v1.1
Exif.js	MIT License	Crowdsource Reporter
Exif.js V2.1.1	MIT License	ArcGIS Portal 10.6.1, ArcGIS Online
Exifdump.py	Public Domain	ArcGIS 10.3.1 for Desktop
Expat 2.2.4	MIT License	ArcGIS Server 10.6 (Linux)
Expat XML Parser	BSD 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
Expat XML Parser version 2.2.0	MIT License	ArcGIS 10.5, ArcGIS Pro 1.4

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Extend	MIT	AppStudio for ArcGIS 1.0
EZMorph 1.0.4	Apache License 2.0	Esri Maps for Cognos
Facebook Folly v2016.12+	Apache License 2.0	ArcGIS Pro 2.0
Facelets 1.1	Common Development and Distribution License (CDDL)	ArcGIS 10.3.1 for Server
FFmpeg	LGPLV2.1/MIT	Drone2Map for ArcGIS
FileAPI	BSD License	AppStudio for ArcGIS 1.0
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FlexiblePageControl	MIT License	ArcGIS Runtime SDK 100.1 for iOS
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Framework7	MIT License	Business Analyst Web and Mobile Apps
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Fs-extra	MIT License	AppStudio for ArcGIS 1.0, ArcGIS WebApp Builder
Fuse Fabric	Apache License 2.0	ArcGIS GeoEvent Extension for Server
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Futures 3.03	BSD	AGDT, AGServer, AGEngine 10.4
Fx-gtlf	MIT License	ArcGIS Pro 2.3

GDAL 1.6/1.8	MIT 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, Production Mapping 10.3.1
GDAL 1.11.0	MIT, BSD 3 Clause, other non-GPL licenses	Esri Production Mapping 10.3.1 Patch 1
GDAL 1.11.3	MIT, BSD 3 Clause, other non-GPL licenses	CityEngine 2016.0
GDAL 2.1	MIT	ArcGIS 10.5, ArcGIS Pro 1.4
Geo	Apache License V2.0	ArcGIS for Server 10.4
GeoTIFF (RDO) 1.2.3	X11 License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server, ArcReader 10.3.1
GEOS	LGPL 2.1	ArcGIS Data Interoperability extension 10.3.1
GEOS V3.5.0	LGPL 2.1	ArcGIS 10.5, ArcGIS Pro 1.4
GeoRSS	Apache License 2.0	Portal for ArcGIS 10.3.1, ArcGIS online
Git for windows	MIT	AppStudio for ArcGIS 1.0
GLAD	MIT	ArcGIS Runtime SDK (all flavors) (v100.0.0)
GLEW 1.5	BSD 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 Explorer

GL Header	Open GL License	ArcGIS Runtime SDKs 10.2.x
Glib 2.58.1	LGPL V2.1	ArcGIS Server 10.7, ArcGIS Portal 10.7
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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Globalize-compiler	MIT	Survey123 website, 2.8 release
Glutess	SGI FREE SOFTWARE LICENSE B	CityEngine 2018.1, CityEngine SDK
GNU C Library	LGPL V2.1	ArcGIS Desktop, ArcGIS Server 10.4, ArcGIS Pro 1.2
GnuTLS libgnutls v3.3.25	LGPL V2.1	
GnuTLS libgnutls v3.5.11	LGPL V2.1	ArcGIS for Server 10.6
GnuTLS libgnutls v3.6.3	LGPL V2.1	ArcGIS for Server 10.7 Linux

Gold Parser	Gold Parser License	ArcGIS for Desktop Tracking Analyst 10.3.1, ArcGIS for Server Tracking Analyst 10.3.1, ArcGIS Engine Tracking Analyst 10.3.1
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Google Etc2Comp Library	Apache License 2.0	ArcGIS Pro 2.3, ArcGIS Server V10.7
Google GSON 2.3.1	Apache License 2.0	ArcGIS Runtime SDK Quartz for Android and Java (100.0.0)
Google Protocol Buffer Version 3.6	BSD License	ArcGIS Enterprise 10.7, ArcGIS Pro 2.3
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
Gson	Apached License 2.0	Navigator for ArcGIS 2.0
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
H5py 2.9.0	BSD-3 Clause	ArcGIS PRO 2.4
Hadoop-AWS	Apache License 2.0	ArcGIS Server 10.5

Hadoop-Azure 2.7.0	Apache License 2.0	ArcGIS for Server 10.5.1
Hadoop-hdfs-native-client	Apache License 2.0	ArcGIS for Server 10.7
Harfbuzz 1.2.3	MIT	ArcGIS Pro 1.3, ArcGIS Desktop 10.5
HazelCast	Apache License 2.0	ArcGIS GeoEvent Extension for Server, ArcGIS for Server 10.7, Portal for ArcGIS 10.7
HDF4	BSD License	ArcGIS 10.3.1 for Server
HDF5	BSD License	ArcGIS 10.3.1 for Server
Hibernate-core V4.1.9	LGPL V2.1	ArcGIS Server 10.6.1
HikariCP	Apache License 2.0	ArcGIS Server 10.6.1
HPPC	Apache License 2.0	ArcGIS Data Store 10.5
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HTML Filtering for Java	CC-BY-SA 2.5	ArcGIS 10.3.1 for Server
Humanizer	MIT	ArcGIS Runtime SDKs 10.2.x
ImagesLoaded	MIT	Survey123 Website
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ICU 58.2	ICU License	ArcGIS Runtime SDKs 10.2.x ArcObjects 10.5.1
IntersectionObserverPolyfill	Custom BSD-like license	ArcGIS Storymaps
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Intel Math Kernel Library	Intel Simplified Software License (Version April 2018)	ArcGIS Desktop, ArcGIS Pro 2.1
Ipykernal 5.1.0	BSD-3 Clause	ArcGIS PRO 2.4
Ipython 7.4.0	BSD-3 Clause	ArcGIS PRO 2.4
Ipywidgets 7.4.2	BSD-3 Clause	ArcGIS PRO 2.4
Irrlicht Engine	Irrlicht Engine License	ArcGIS SDK 10.2.5 (Java)
iTextSharp	Mozilla Public License 1.1	Business Analyst Server 10.3.1, Business Analyst Desktop 10.3.1

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JAX-WS 2.3.1	Custom	ArcGIS 10.7.1 for Server
JSZip	MIT	Business Analyst Web App, Community Analyst ver. 5.2+
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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
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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
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
Java Native Access	Apache License 2.0	ArcGIS for Server 10.7, ArcGIS DataStore 10.7, Portal for ArcGIS 10.7, ArcGIS Monitor
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
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Jcifs	GNU Lesser General Public License 2.1	ArcGIS Runtime SDKs 10.2.x
Jedi 0.13.3	MIT License	ArcGIS PRO 2.4
Jimp	MIT	Web AppBuilder for ArcGIS (Developer Edition)
Jinja2 2.10.1	BSD-3 Clause License	ArcGIS PRO 2.4
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 Editor V5.9.6	Apache License 2.0	Portal 10.6, ArcGIS Online Web Scene Viewer, ArcGIS API for JavaScript 4.6
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
Json4s 3.6	Apache License 2.0	10.6 ArcGIS Data Store
Jsonschema 3.0.1	MIT License	ArcGIS PRO 2.4

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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: https://jquery.org/license/	ArcGIS 10.3.1 for Desktop, ArcGIS GeoEvent Extension for Server
Jquery 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
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JQuery.qrcode.js	MIT	AppStudio for ArcGIS 1.0
JQuery_request	MIT	AppStudio for ArcGIS 1.0
JQuery UI	MIT / Public Domain https://jquery.org/license/	CityEngine 2017
JQuery XML to JSON Plugin	MIT License: https://jquery.org/license/	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
Json-simple 1.1	Apache License 2.0	ArcGIS Server 10.6, ArcGIS DataStore 10.6, Portal for ArcGIS 10.6
Jsoup 1.9.1	MIT License	ArcGIS Server 10.6, ArcGIS DataStore 10.6, Portal for ArcGIS 10.6
jsPDF 1.3.4	MIT License	
JsPlumb	Dual License: MIT and GPLv2	ArcGIS GeoEvent Extension for Server
Jsr166e 1.1.0	CC0	ArcGIS Data Store 10.5
JSS	MIT License	Survey 123 Website V3.1
Jss-preset-default	MIT License	Survey 123 Website V3.1
Js-xss	MIT License	Story Maps 2.0
JSZip	MIT License	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
Jupyter_client 5.2.4	BSD-3 Clause License	ArcGIS PRO 2.4

Jupyter_console 6.0.0	BSD-3 Clause License	ArcGIS PRO 2.4
Jupyterhub 0.3	BSD	Portal for ArcGIS 10.5
Jupyterlab 0.35.4	BSD-3 Clause License	ArcGIS PRO 2.4
Jupyterlab_server 0.2.0	BSD-3 Clause License	ArcGIS PRO 2.4
Jython 2.7	The Jython License	CityEngine 2016.0
Kdtree.js	MIT	ArcGIS API for JavaScript
Kerberos V5 1.16.1	MIT	ArcGIS Server 10.7 Linux
Kevva	MIT	Enketo viewer 1.11
Keyring 19.0.1	BSD-3 Clause License	ArcGIS PRO 2.4
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
LAS Optimizer 1.2.4	Apache License 2.0	Drone2Map v 1.3
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 http://www.ijg.org/files/README	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
LibPNG 1.6.35	Libpng license	ArcGIS Pro 2.3
LibPNG 1.6.36	Libpng license	ArcGIS Pro 2.4, ArcGIS 10.8.1 for Desktop
LibRaw	CDDL V1.0	CityEngine 2017
Libssh2 1.4.3	Libssh2 License	Production Mapping 10.3.1
Libstdc++ Runtime Library	GNU General Public License V3 (GCC Runtime Library Exception V3.1)	ArcGIS 10.3.1 for Server (Linux), ArcGIS Runtime SDKs 10.2.X , Esri Conda Channel for use with 10.5, Esri Conda Channel for use with 10.6.1, ArcGIS Server for Linux 10.7
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
Libtess.js V1.2.2	SGI FREE SOFTWARE LICENSE B	ArcGIS Runtime SDK 100.2.0 (update 2) All APIs, ArcGIS Api for JavaScript v 4.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
Libxml2 2.9.8	MIT License	ArcGIS for Server Linux 10.7, ArcGIS Portal 10.7
Libxslt 1.1.28	MIT License	ArcGIS for Server 10.5
Libxsxlt 1.1.29 Libxsxlt 1.1.32	MIT License	ArcGIS for Server 10.5, ArcGIS for Server Linux 10.7, ArcGIS Portal 10.7
LittleCMS LittleCMS V2.8	MIT License MIT License	ArcGIS for Server 10.3.1 ArcGIS for Server 10.5.1
LLVM libc++	University of Illinois/NCSA Open Source License	Esri Conda Channel for use with 10.6.1 ArcGIS Server for Linux
log4js	Apache License 2.0	Web AppBuilder for ArcGIS (Developer Edition)
log4net V2.0.8	Apache License 2.0	ArcGIS Earth V1.8

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
Markupsafe 1.1.1	BSD-3 Clause License	ArcGIS PRO 2.4
Maquette.js v2.4.0	MIT	ArcGIS API for JavaScript v4
MapBox GL	MapBox GL native License	Survey123 for ArcGIS V1.0
Masonry: 1.1.0	MIT License	ArcGIS Earth iOS Beta
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, AGEngine 10.4

Matplotlib 2.0.2	Python License (based on)	ArcGIS Pro 2.1
Matplotlib 3.0.3	Python License (based on)	ArcGIS PRO 2.4
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
Mesa 18.1.4	MIT License	ArcGIS Server Linux 10.7, ArcGIS Portal 10.7
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 V.4.2.0, V7.0.0	Apache License 2.0	Esri ArcGIS for Server 10.5 and later version. Portal for ArcGIS 10.5 and later. Esri ArcGIS for Server 10.6.1 and later version. Portal for ArcGIS 10.6.1 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)
MinGW-w64 Project	Public Domain/MIT License	ArcGIS Server 10.6.1
MiniWeb	LGPL 2.0	Esri Maps for Office 3.0
Mistune 0.8.4	BSD-3 Clause License	ArcGIS PRO 2.4
Mkl 2019.3	Intel Simplified Software license	ArcGIS PRO 2.4
Mkl_fft 1.0.10	BSD-3 Clause License	ArcGIS PRO 2.4
Mkl-random 1.0.2	BSD-3 Clause License	ArcGIS PRO 2.4
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
More-itertools 6.0.0	MIT License	ArcGIS PRO 2.4
Mpmath 0.19	BSD	ArcGIS Pro 2.1
MpMath 1.0.1	BSD License	ArcGIS PRO 2.4
Multer	MIT	AppStudio for ArcGIS 1.0
MX4J 3.0.1	Apache License 1.1	ArcGIS 10.3.1 for Server
Nbconvert 5.4.1	BSD-3 Clause	ArcGIS PRO 2.4
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
netCDF4 1.5.0.1	MIT License	ArcGIS PRO 2.4
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)
Nextjs	MIT License	Story Maps 2.0

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-color	MIT License	Survey123 Website V3.1
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
Nlohmann-json	MIT License	ArcGIS Pro 2.3
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
Notebook 5.7.8	BSD-3 Clause License	ArcGIS PRO 2.4
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
Numexpr 2.6.9	MIT License	ArcGIS Pro 2.4
Numpy 1.9.2	BSD	AGDT, AGServer, AGEngine 10.4, Drone2Map
Numpy 1.13.1	BSD	ArcGIS Pro 2.1
Numpy 1.16.2	BSD License	ArcGIS PRO 2.4
NVIDIA Texture Tools		CityEngine 2018.1, CityEngine SDK

Object.assign Polyfill	Public Domain	Business Analyst
Oculus Mobile SDK 3.2.1	Oculus License	ArcGIS 360 VR
OOXML Schemas (ooxml-schemas-1.4.jar)	Apache License 2.0	ArcGIS Server 10.7
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
Openpyxl 2.6.1	MIT License	ArcGIS PRO 2.4
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
OpenSSL 1.1.1	OpenSSL License	ArcGIS V10.7, ArcGIS Pro 2.3
Openssl 1.1.1b	OpenSSL Licesne	ArcGIS PRO 2.4, ArcGIS 10.8.1 for Desktop, ArcGIS 10.8.1 for Server
Org.reflections: reflections: 0.9.10	WTFPL – Do What the Fuck You Want to Public License	ArcGIS Server V10.6.1
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, ArcGIS Maps for PowerBI
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
Pandas 0.24.2	BSD License	ArcGIS PRO 2.4
Paranamer	BSD	10.6 ArcGIS Data Store
PAR		
Parso 0.3.4	MIT License	ArcGIS PRO 2.4
Pdf.js	Apache License 2.0	ArcGIS API for JavaScript
PDFium	BSD License	ArcGIS 10.7, ArcGIS Pro 2.3
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
Pickleshare 0.7.5	MIT License	ArcGIS PRO 2.4
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
Pip 18.1	MIT License	ArcGIS PRO 2.4
Pip 19.0.3	MIT License	ArcGIS PRO 2.4
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

Pluggy 0.9.0	MIT License	ArcGIS PRO 2.4
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
PostgreSQL 10.6	PostgreSQL License	ArcGIS Data Store 10.7, Portal for ArcGIS 10.7
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
PptxGenJS V2.4.0	MIT License	Excalibur V1.0
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
Prometheus_client 0.6.0	Apache 2 License	ArcGIS PRO 2.4
Promise Polyfill	MIT License	Business Analyst
Prompt_toolkit 2.0.9	BSD-3 Clause License	ArcGIS PRO 2.4
Prototype	MIT License	ArcGIS 10.3.1 for Server
Prototype Window Class 0.70	MIT License	ArcGIS 10.3.1 for Server
Psycopg2	LGPL V2.1	ArcGIS Server V10.6.1
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
Py 1.8.0	MIT License	ArcGIS PRO 2.4
Py4J	BSD License	ArcGIS V10.7, ArcGIS Pro 2.3
Pycparser 2.19	BSD-3 Clause License	ArcGIS PRO 2.4
PyParsing 2.0.3	MIT	AGDT, AGServer, AGEngine 10.4
PyParsing 2.19	BSD-3 Clause License	ArcGIS PRO 2.4
PyParsing 2.4.0	MIT License	ArcGIS PRO 2.4
Pygments 2.3.1	BSD License	ArcGIS PRO 2.4
Pyopenssl 19.0.0	Apache 2 License	ArcGIS PRO 2.4
PyPDF 1.26.0	BSD License	ArcGIS Pro 2.1
Pyresistent 0.14.11	MIT License	ArcGIS PRO 2.4
Pyshp 2.0.1	MIT License	ArcGIS PRO 2.4
Pytest 3.2.1	MIT	ArcGIS Pro 2.1

Pytest 4.4.0	MIT License	ArcGIS PRO 2.4
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 2.7.16	Python License	ArcGIS Desktop 10.7.1
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 3.6.8	Python License	ArcGIS PRO 2.4
Python 4.1.2	Revised BSD	Portal for ArcGIS 10.5
Python-dateutil 2.42	BSD	AGDT, AGServer, AGEngine 10.4

Python dateutil 2.6.1	BSD	ArcGIS Pro 2.1
Python dateutil 2.8.0	BSD	ArcGIS PRO 2.4
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
Pytz 2017.2	MIT License	ArcGIS Pro 2.1
Pytz 2018.9	MIT License	ArcGIS PRO 2.4
Pyzmq 18.0.0	BSD-3 Clause License	ArcGIS PRO 2.4
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 ImageResize Module v 3.0.0	MIT License	Insights for ArcGIS 3.0
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 https://www.rabbitmq.com/mpl.html	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
Requests 2.21.0	Apache 2.0 License	ArcGIS PRO 2.4
requirejs (r.js)	BSD	Web AppBuilder for ArcGIS (Developer Edition)
ResizeObserver polyfill v1.5.0	MIT License	Business Analyst Web App
Restify	MIT License	AppStudio for ArcGIS V1.0
Restler	MIT License	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
Rxjs 6.2.2	Apache License 2.0	ArcGIS for Insights 3.0
S2TC	MIT	ArcGIS Server 10.6, ArcGIS Runtime 100.x
S3-zip	MIT License	Survey123 Website V3.0
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, AGEngine 10.4, ArcGIS Pro 1.0
SciPy 0.19.1	BSD	ArcGIS Pro 2.1
Scipy 1.2.1	BSD License	ArcGIS PRO 2.4
Select2	MIT	CityEngine 2017.0
Serve-favicon	MIT	AppStudio for ArcGIS 1.0
Setuptools 36.4.0	MIT	ArcGIS Pro 2.1

Setuptools 40.6.2	MIT License	ArcGIS PRO 2.4
Setuptools 41.0.0	MIT License	ArcGIS PRO 2.4
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
Shortid	MIT +no-false-attribs License	Survey123 website, 2.8 release
Simple Logging Façade for Java (SKF4J)	MIT License: http://www.slf4j.org/license.html	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
Six 1.10.0	MIT	ArcGIS Pro 2.1
Six 1.12.0	MIT License	ArcGIS Pro 2.4
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
Splitjs v1.5.4	MIT License	Excalibur V1.0
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
SQLite 3.27.2	Public Domain	ArcGIS 10.7.1 Desktop, ArcGIS 10.7.1 Engine, ArcGIS 10.7.1 for Server, ArcGIS PRO 2.4
System.Data.SQLite	Public Domain	ArcGIS PRO 2.4
SQL Server Spatial Tools	Microsoft Public License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server

StackWalker	BSD License	ArcGIS Pro 2.3, ArcGIS 10.7
Store.js V1.3.16	MIT License	ArcGIS WebApp Builder
Styled.js	MIT License	Story Maps 2.0
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)
SVGDOM Ver 0.3.18	MIT License	ArcGIS Pro 2.3
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, AGEngine 10.4, ArcGIS Pro 1.0
Sympy 1.1.1	BSD	ArcGIS Pro 2.1
Sympy 1.3	BSD-3 Clause License	ArcGIS 2.4

SystemsJS 0.19.27 SystemsJS 0.19.40	MIT License	Insights for ArcGIS 1.0, Insights for ArcGIS 3.0
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
Testpath 0.4.2	MIT License	ArcGIS PRO 2.4
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
Tooltip.js	MIT License	ArcGIS Storymaps
Tornado 5.1.1	Apache 2 License	ArcGIS PRO 2.4
TrueZip	Apache License 2.0	ArcGIS Runtime SDKs 10.2.x
Tslib 1.9.3	Apache License 2.0	Insights for ArcGIS 3.0

TSnackBar	Apache License 2.0	Navigator for ArcGIS 2.0
Turbosquid.com Jet Fighter.obj Jeep.obj	Royalty Free License	ArcGIS Earth V1.8
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
Urllib3 1.24.1	MIT License	ArcGIS PRO 2.4
Url=polyfill v 1.1.1	MIT License	Business Analyst Web App
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
Vimeo Player	MIT License	Story Maps 2.0
Watch	Apache License 2.0	Web AppBuilder for ArcGIS (Developer Edition)

Wheel 0.29.0	MIT	ArcGIS Pro 2.1
Wheel 0.33.1	MIT License	ArcGIS PRO 2.4
Widgetsnbextension 3.4.2	BSD-3 Clause License	ArcGIS PRO 2.4
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
Win_inet_pton 1.1.0	Public Domain	ArcGIS Pro 2.4
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
X86cpu 0.4	BSD-2 Clause License	ArcGIS 2.4
XACML 1.2	Sun XACML License	ArcGIS 10.3.1 for Server
XCB	XCB License	ArcGIS Runtime SDKs 10.2.x
Xlrd 1.2.0	BSD License	ArcGIS PRO 2.4
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, AGEngine 10.4
Xlwt 1.3.0	BSD	ArcGIS Pro 2.1
XmlToJson Plugin	MIT License: http://opensource.org/licenses/mit-license.php	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, 3.0.2.jar	Apache License 2.0	ArcGIS for Server 10.5, ArcGIS for Server 10.7
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
Xvfb 1.20.0	MIT License	ArcGIS Server Linux 10.7, ArcGIS Portal 10.7
Zaphoyd WebSocket++/0.7.0	Modified MIT License	ArcGIS Pro 2.0
ZeroMQ 4.1.4	LGPL 3.0 plus Static Linking Exception	SA Server (aka Collaboration Server) V10.7.1
ZeroMQ 4.3.1	LGPL 3.0 plus Static Linking Exception	ArcGIS PRO 2.4
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 Zone.js 0.8.12	MIT License	Insights for ArcGIS 1.0, Insights for ArcGIS 3.0
Zstandard 1.3.4	BSD License	ArcGIS V10.7, ArcGIS Pro 2.3
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

Effective Date May 15, 2019