

# Oracle® AutoVue

Acknowledgments

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Software	Version
Adobe CMAP Resource Files	20231115
Apache Commons Pool	2.12.0
Apache Logging Services - log4j	2.24.3
Boost	1.87.0
ESAPI	2.5.2
FreeType	2.13.3
GifDecode	1987
IconService	
Jackson	2.18.3
Jetty	9.4.57
JOGL	2.5.0
jsoncpp	1.9.4
jsonrpc4j	1.6.0
Libjpeg	9f
libjsonrpc-cpp	1.4.1
LibTIFF	4.7.0

**Table 1 (Cont.) Third-Party Software**

Software	Version
libpng	1.6.47
openjpeg	2.5.3
slf4j	2.0.17
stax2-api	4.2.2
TwoFish	3.9.1.38
Xerces-C	3.3.0
woodstox-core	7.1.0
zlib	1.3.1

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Files:

- ⌘ make/stub\_includes/opengl/\*\*
- ⌘ make/stub\_includes/egl/\*\*
- ⌘ make/stub\_includes/khr/\*\*
- ⌘ make/stub\_includes/openmax/\*\*

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Apache Harmony - Open Source Java SE

=====

<<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

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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/\*
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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:  
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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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## 2.13 Libjpeg

The Independent JPEG Group's JPEG software

=====

README for release 9f of 16-Jan-2022

=====

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### 2.13.1 DOCUMENTATION ROADMAP

=====

This file contains the following sections:

**Table 2 Sections in the license text**

Section	Description
OVERVIEW	General description of JPEG and the IJG software.
LEGAL ISSUES	Copyright, lack of warranty, terms of distribution.
REFERENCES	Where to learn more about JPEG.
ARCHIVE LOCATIONS	Where to find newer versions of this software.
ACKNOWLEDGMENTS	Special thanks.
FILE FORMAT WARS	Software *not* to get.
TO DO	Plans for future IJG releases.

**Table 3 User Documentation in the Distribution**

Document	Description
install.txt	How to configure and install the IJG software.
usage.txt	Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1	Unix-style man pages for programs (same info as usage.txt).
wizard.txt	Advanced usage instructions for JPEG wizards only.
cdaltui.txt	Description of alternate user interface for cjpeg/djpeg.
change.log	Version-to-version change highlights.

**Table 4 Programmer and Internal Documentation**

Document	Description
libjpeg.txt	How to use the JPEG library in your own programs.

**Table 4 (Cont.) Programmer and Internal Documentation**

Document	Description
example.c	Sample code for calling the JPEG library.
structure.txt	Overview of the JPEG library's internal structure.
filelist.txt	Road map of IJG files
coderrules.txt	Coding style rules --- please read if you contribute code.

Please read at least the files `install.txt` and `usage.txt`. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

### 2.13.1.1 OVERVIEW

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

### **2.13.1.3 REFERENCES**

=====

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard",

Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.

(Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at <https://www.ijg.org/files/Wallace.JPEG.pdf>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics)



omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.

The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

IJG JPEG 8 introduced an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany. IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011): Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from <https://www.itu.int/rec/T-REC-T.871>. A PDF file of the older JFIF document is available at <https://www.w3.org/Graphics/JPEG/jfif3.pdf>.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <https://www.ijg.org/files/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

#### 2.13.1.4 ARCHIVE LOCATIONS

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The "official" archive site for this software is [www.ijg.org](http://www.ijg.org). The most recent released version can always be found there in directory "files". This particular version will be archived in Windows-compatible "zip" archive format as <https://www.ijg.org/files/jpegsrc9e.zip>, and in Unix-compatible "tar.gz" archive format as <https://www.ijg.org/files/jpegsrc.v9e.tar.gz>.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at [rtfm.mit.edu:ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/](ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/). If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body

- ⌘ send usenet/news.answers/jpeg-faq/part1
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#### 2.13.1.5 ACKNOWLEDGMENTS

---

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

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Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

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#### 2.13.1.6 FILE FORMAT WARS

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The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are

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There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!

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