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DOCUMENTATION ROADMAP
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This file contains the following sections:


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. FILE FORMAT WARS Software *not* to get.
TO DO             Plans for future IJG


releases. Other documentation files in the


distribution are:


User documentation:   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.   change.log   Version-to-version
change highlights.
Programmer and internal documentation:
  libjpeg.txt   How to use the JPEG library in your own
  programs. example.txt   Sample code for calling the JPEG
  library.
structure.txt   Overview of the JPEG library's internal
structure. coderules.txt   Coding style rules --- please read if
you contribute code.
Please read at least 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.

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. JPEG's strong
suit is compressing
photographic images or other types of images that have smooth color
and brightness transitions between neighboring pixels. Images with
sharp lines or
other abrupt features may not compress well with JPEG, and a higher
JPEG quality may have to be used to avoid visible compression
artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily
identical to
the input pixels. However, on photographic content and other
"smooth" images,
very good compression ratios can be obtained with no visible
compression artifacts, and extremely high compression ratios are
possible if you are willing to sacrifice image quality (by reducing
the "quality" setting in the compressor.)

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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REFERENCES
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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 http://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
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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).

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.

The JPEG standard does not specify all details of an interchangeable
file format. For the omitted details, we follow the "JFIF"
conventions, revision
1.02. JFIF version 1 has been adopted as ISO/IEC 10918-5 (05/2013)
and 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.iso.org/standard/54989.html and
http://www.itu.int/rec/T- RECT.871.
A PDF file of the older JFIF 1.02 specification is available at
http://www.w3.org/Graphics/JPEG/jfif3.pdf.
The TIFF 6.0 file format specification can be obtained from
http://mirrors.ctan.org/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
http://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.

ARCHIVE LOCATIONS
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The "official" archive site for this software is
www.ijg.org. The most recent released version can always be
found there in directory "files".

The JPEG FAQ (Frequently Asked Questions) article is a source
of some general information about JPEG. It is available at
http://www.faqs.org/faqs/jpeg-faq.

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