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39.12. jpeg — Read and write JPEG files¶

Platforms: IRIX

Deprecated since version 2.6: The `jpeg` module has been deprecated for removal in Python 3.0.

The module `jpeg` provides access to the jpeg compressor and decompressor written by the Independent JPEG Group (IJG). JPEG is a standard for compressing pictures; it is defined in ISO 10918. For details on JPEG or the Independent JPEG Group software refer to the JPEG standard or the documentation provided with the software.

A portable interface to JPEG image files is available with the Python Imaging Library (PIL) by Fredrik Lundh. Information on PIL is available at <http://www.pythonware.com/products/pil/>.

The `jpeg` module defines an exception and some functions.

exception `jpeg.error`¶

Exception raised by [`compress\(\)`](#) and [`decompress\(\)`](#) in case of errors.

`jpeg.compress(data, w, h, b)`¶

Treat data as a pixmap of width `w` and height `h`, with `b` bytes per pixel. The data is in SGI GL order, so the first pixel is in the lower-left corner. This means that `gl.rectread()` return data can immediately be passed to [`compress\(\)`](#). Currently only 1 byte and 4 byte pixels are allowed, the former being treated as greyscale and the latter as RGB color. [`compress\(\)`](#) returns a string that contains the compressed picture, in JFIF format.

`jpeg.decompress(data)`¶

Data is a string containing a picture in JFIF format. It returns a tuple (`data`, `width`, `height`, `bytesperpixel`). Again, the data is suitable to pass to `gl.rectwrite()`.

`jpeg.setoption(name, value)`¶

Set various options. Subsequent [`compress\(\)`](#) and [`decompress\(\)`](#) calls will use these options. The following options are available:

Option	Effect
'forcegray'	Force output to be grayscale, even if input is RGB.
'quality'	Set the quality of the compressed image to a value between 0 and 100 (default is 75). This only affects compression.
'optimize'	Perform Huffman table optimization. Takes longer, but results in smaller compressed image. This only affects compression.
'smooth'	Perform inter-block smoothing on uncompressed image. Only useful for low-quality images. This only affects decompression.

See also

JPEG Still Image Data Compression Standard

The canonical reference for the JPEG image format, by Pennebaker and Mitchell.

[Information Technology - Digital Compression and Coding of Continuous-tone Still Images - Requirements and Guidelines](#)

The ISO standard for JPEG is also published as ITU T.81. This is available online in PDF form.

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