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//
// Supports progressive and baseline sequential JPEG image files, and the most common chroma subsampling factors: Y, H1V1, H2V1,
H1V2, and H2V2.
//
```

```
// Chroma upsampling quality: H2V2 is upsampled in the frequency domain, H2V1 and H1V2 are upsampled using point sampling.
// Chroma upsampling reference: "Fast Scheme for Image Size Change in the Compressed Domain"
// http://vision.ai.uiuc.edu/~dugad/research/dct/index.html

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// jpge.cpp - C++ class for JPEG compression.
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// v1.01, Dec. 18, 2010 - Initial release
// v1.02, Apr. 6, 2011 - Removed 2x2 ordered dither in H2V1 chroma subsampling method load_block_16_8_8(). (The rounding factor
was 2, when it should have been 1. Either way, it wasn't helping.)
// v1.03, Apr. 16, 2011 - Added support for optimized Huffman code tables, optimized dynamic memory allocation down to only 1
alloc.
// Also from Alex Evans: Added RGBA support, linear memory allocator (no longer needed in v1.03).
// v1.04, May. 19, 2012: Forgot to set m_pFile ptr to NULL in cfile_stream::close(). Thanks to Owen Kaluza for reporting this bug.
// Code tweaks to fix VS2008 static code analysis warnings (all looked harmless).
// Code review revealed method load_block_16_8_8() (used for the non-default H2V1 sampling mode to downsample chroma) somehow
didn't get the rounding factor fix from v1.02.
```