

Exiv2 - Feature #1048

Add support for webm video format.

27 Mar 2015 10:07 - Robin Mills

Status:	New	Start date:	27 Mar 2015
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	image format	Estimated time:	0.00 hour
Target version:	0.28		
Description			
<p>Google have proposed new image and movie file formats to address various deficiencies in the existing 2000+ known formats. We believe that the video format webm is already supported by our Matrovska implementation.</p> <p>Gilles has been asking on behalf of Digicam for Exiv2 to support webp.</p> <p>I've looked at libwebp from Google. I've built it and run some examples. This looks like a straight-forward task.</p> <pre>621 rmills@rmillssmbp:~ \$ cp ~/Pictures/2015/WinterTrip/Austin/DSC_5900.jpg test.jpg; ls -alt test.jpg -rw-r--r-- 1 rmills staff 7167602 22 Mar 22:23 test.jpg 622 rmills@rmillssmbp:~ \$ exiv2 -pv test.jpg wc # nice new test JPEG with 156 lines of metadata 156 1091 10978 623 rmills@rmillssmbp:~ \$ cwebp -metadata exif test.jpg -o test.webp # convert the JPEG to WEBP while keeping the exif data in test.web Saving file 'test.webp' File: test.jpg Dimension: 6000 x 4000 Output: 420072 bytes Y-U-V-All-PSNR 42.59 47.79 47.70 43.73 dB block count: intra4: 45949 intra16: 47801 (-> 50.99%) skipped block: 12523 (13.36%) bytes used: header: 281 (0.1%) mode-partition: 125371 (29.8%) Residuals bytes segment 1 segment 2 segment 3 segment 4 total macroblocks: 2% 6% 13% 76% 93750 quantizer: 36 36 30 23 filter level: 15 31 32 20 Metadata: * EXIF data: 14854 bytes 624 rmills@rmillssmbp:~ \$ ls -alt test.webp # a little smaller, eh? -rw-r--r-- 1 rmills staff 434952 22 Mar 22:24 test.webp 626 rmills@rmillssmbp:~ \$ webpmux -get exif test.webp -o - exiv2 -pv - # extract the metadata and pipe it through exiv2 Saved file - (14854 bytes) 0x010f Image Make Ascii 18 NIKON CORPORATION 0x0110 Image Model Ascii 12 NIKON D5300 ... 0x0202 Thumbnail JPEGInterchangeFormatLength Long 1 10670 0x0213 Thumbnail YCbCrPositioning Short 1 1 627 rmills@rmillssmbp:~ \$ webpmux -get exif test.webp -o - exiv2 -pv - wc Saved file - (14854 bytes) 156 1091 10978 # we still have 156 lines of metadata 628 rmills@rmillssmbp:~ \$</pre> <p>Please don't think that because I have been able to extract the meta data with a pipe, this project's trivial. It's not. I'd like us to use Exiv2's basicio module to perform I/O within libwebp. This is because basicio supports web protocols to randomly seek data on the web (we don't copy the whole file).</p> <p>I'll take a look at the webp/webpmux libraries and make an assessment of the effort required to get basicio to perform I/O.</p>			

Related issues:

Related to Exiv2 - Feature #992: Better raw file support and test

Assigned**18 Sep 2014****History**

#1 - 09 Apr 2015 18:22 - Robin Mills

- Subject changed from *Add support for webp image format.* to *Add support for webp image and webm video formats.*

#2 - 23 May 2015 08:36 - Robin Mills

- Assignee deleted (*Robin Mills*)

#3 - 24 Aug 2015 10:23 - Robin Mills

- Tracker changed from *Bug* to *Feature*
- Category changed from *miscellaneous* to *image format*
- Status changed from *Assigned* to *New*
- Target version changed from *0.26* to *1.0*

#4 - 13 Jun 2016 11:46 - Robin Mills

- Status changed from *New* to *Assigned*
- Assignee set to *Robin Mills*
- Target version changed from *1.0* to *0.28*

#5 - 20 Aug 2016 15:52 - Robin Mills

- Subject changed from *Add support for webp image and webm video formats.* to *Add support for webm video format.*
- Status changed from *Assigned* to *New*
- Assignee deleted (*Robin Mills*)

Thanks to splendid work by Ben, we have WebP support added to v0.26. webm is Matrovska and may already be working. The video code needs attention and [#992](#) should address this matter in v0.27.

I'm going to change the title of this to only include webm. I'm also going to set Status = New and unassign myself from this task. Our video code and image tests will be serviced in v0.27.

#6 - 20 Aug 2016 16:19 - Gilles Caulier

Good idea. WebM is another important Google format to support in near future.

Gilles Caulier