

IPTC's Social Media Photo Metadata Test 2016

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Issue and Goals

- **The issue:** primarily professional photographers complained that their metadata embedded into an image file “disappear” if shared across a Social Media system ... and they approach IPTC as standard maker
 - why this happens
 - how this can be stopped
- **The goal:**
To show exactly what happens in a typical Social Media communication workflow



The Test

IPTC Photo Metadata Working Group set up this test

- Steps in a typical workflow:
 - upload an image (file) to the social media system
 - check what metadata is displayed there
 - download/save-as
and check what metadata exist in this image file.
- Define a test procedure for that and well-document the result – test should be as unbiased as possible
- Publish the test with a simple traffic light rating of the results



What was Tested

- IPTC Social Media Photo Metadata Test 2013
15 Social Media systems tested – big/major generic ones (Facebook, Google+, Tumblr, Twitter) plus ones known for photo exchange (Instagram, Flickr, 500px) and generic data exchange (Dropbox)
- IPTC Social Media Photo Metadata Test 2016
* The same mix of tested system – some of 2013 dropped out (Flickr Pro, via.me, Yfrog), some were new (Behance, EyeEm, LinkedIn)

Results published on 19 January 2016 and compared to 2013



Social Media site/system	Summary	Displays correctly?		Displays 4Cs?	Save As embedded?			Download embedded?		
500px - www.500px.com Tested in late 2015	Some embedded metadata fields are shown, all correctly, but not the rights-relevant 4C fields. Metadata preserved in SaveAs file. Compared to 2013: SaveAs preserves metadata now = improvement									
		Exif	IPTC	IPTC	Exif	IPTC IIM	IPTC XMP	Exif	IPTC IIM	IPTC XMP
Tested in March 2013	Most relevant fields shown, copyright was overridden, in downloaded file we only found Exif metadata. Save As is disabled.									
		Exif	IPTC	IPTC	Exif	IPTC IIM	IPTC XMP	Exif	IPTC IIM	IPTC XMP
BEHANCE - www.behance.net Tested in late 2015	All rights-relevant fields and more are shown, all corectly. Embedded metadata is preserved in the SaveAs and the downloaded image file. Compared to 2013: not tested then									
		Exif	IPTC	IPTC	Exif	IPTC IIM	IPTC XMP	Exif	IPTC IIM	IPTC XMP
Dropbox - www.dropbox.com Tested in late 2015	No embedded metadata shown. Embedded metadata only preserved in the downloaded image file but not in the SaveAs. Compared to 2013: also SaveAs files preserved metadata then = decline									
		Exif	IPTC	IPTC	Exif	IPTC IIM	IPTC XMP	Exif	IPTC IIM	IPTC XMP
Tested in March 2013	No metadata shown, all embedded fields are preserved in the image files.									
		Exif	IPTC	IPTC	Exif	IPTC IIM	IPTC XMP	Exif	IPTC IIM	IPTC XMP
EyeEm - www.eyem.com Tested in late 2015	No embedded metadata shown. SaveAs file was downscaled and all metadata was stripped off. Compared to 2013: not tested then									
		Exif	IPTC	IPTC	Exif	IPTC IIM	IPTC XMP	Exif	IPTC IIM	IPTC XMP

Facebook - www.facebook.com Tested in late 2015	No embedded metadata shown. SaveAs file preserved Copyright Notice and Creator in IIM, anything else is stripped off. Surprise: 2 IIM fields contain data generated by Facebook. Compared to 2013: at least 2 fields in IIM survive now = slight improvement	 Exif	 IPTC	 IPTC	 Exif	 IPTC IIM	 IPTC XMP	 IPTC	 IPTC IIM	 IPTC XMP
Tested in June 2013	Metadata not shown anymore, all embedded metadata stripped-off from image files.	 Exif	 IPTC	 IPTC	 Exif	 IPTC IIM	 IPTC XMP	 IPTC	 IPTC IIM	 IPTC XMP
Flickr FREE account- www.flickr.com Tested in late 2015	Some embedded metadata fields are shown, all correctly, but not all rights-relevant 4Cs. Embedded metadata is stripped off SaveAs files but preserved in downloaded files. Compared to 2013: plus = any downloaded file preserves metadata now; minus = even high resolution SaveAs file does not preserve it now.	 Exif	 IPTC	 IPTC	 Exif	 IPTC IIM	 IPTC XMP	 Exif	 IPTC IIM	 IPTC XMP
Tested in March 2013	A few metadata fields shown, 'by' was overridden, for any downscaled rendition all embedded metadata are stripped-off from image files, only the Original rendition keeps all metadata.	 Exif	 IPTC	 IPTC	 Exif	 IPTC IIM	 IPTC XMP	 Exif	 IPTC IIM	 IPTC XMP
Google Photo - photos.google.com Tested in late 2015	Some embedded metadata fields are shown, all correctly, but not all rights-relevant 4Cs. SaveAs works only for downscaled files - only Exif metadata is preserved. Downloaded files preserved all metadata. Compared to 2013/Google+ photos: SaveAs file gets IIM and XMP metadata stripped off now = decline	 Exif	 IPTC	 IPTC	 Exif	 IPTC IIM	 IPTC XMP	 Exif	 IPTC IIM	 IPTC XMP
Google+ Tested in March 2013	Primarily Exif metadata shown, all embedded fields are preserved.	 Exif	 IPTC	 IPTC	 Exif	 IPTC IIM	 IPTC XMP	 Exif	 IPTC IIM	 IPTC XMP



Img.ly - www.img.ly Tested in late 2015	No embedded metadata shown. Embedded metadata is preserved in the high resolution/original size SaveAs image file but stripped off in a downscaled file. Compared to 2013: the loss of metadata in downscaled images was not tested in 2013.	 Exif	 IPTC	 IPTC	 Exif	 IPTC IIM	 IPTC XMP	 Exif	 IPTC IIM	 IPTC XMP
Tested in March 2013	No metadata shown, all embedded fields are preserved in the Save As image files.	 Exif	 IPTC	 IPTC	 Exif	 IPTC IIM	 IPTC XMP	 Exif	 IPTC IIM	 IPTC XMP
Instagram - instagram.com Tested in late 2015	Tested using the Instagram iOS app v 6.4.1: No embedded metadata fields are shown. No retrieval of image files possible. Compared to 2013: then SaveAs was possible - with stripped off metadata.	 Exif	 IPTC	 IPTC	 Exif	 IPTC IIM	 IPTC XMP	 Exif	 IPTC IIM	 IPTC XMP
Tested in March 2013	Image taken by a smartphone, metadata edited with an app, then posted at Instagram: No metadata are shown, all metadata stripped-off from Save As files.	 Exif	 IPTC	 IPTC	 Exif	 IPTC IIM	 IPTC XMP	 Exif	 IPTC IIM	 IPTC XMP
Joomeo - www.joomeo.com Tested in late 2015	Some embedded metadata fields are shown, all correctly, but not the rights-relevant 4Cs. Embedded metadata preserved in the downloaded image files. Compared to 2013: more embedded metadata were shown then, including 4Cs = slight decline	 Exif	 IPTC	 IPTC	 Exif	 IPTC IIM	 IPTC XMP	 Exif	 IPTC IIM	 IPTC XMP
Tested in March 2013	Some metadata fields are shown and all embedded fields are preserved in the image files. Save As is disabled.	 Exif	 IPTC	 IPTC	 Exif	 IPTC IIM	 IPTC XMP	 Exif	 IPTC IIM	 IPTC XMP
LINKED IN 2015 - www.linkedin.com Tested in late 2015	No embedded metadata shown. Only embedded Exif fields are preserved in SaveAs files. Compared to 2013: not tested then.	 Exif	 IPTC	 IPTC	 Exif	 IPTC IIM	 IPTC XMP	 Exif	 IPTC IIM	 IPTC XMP



Pictify - www.pictify.com Tested in late 2015	No embedded metadata shown. No retrieval of image files possible. Compared to 2013: then SaveAs was possible - with stripped off metadata.	 Exif  IPTC  IPTC	 Exif  IPTC IIM  IPTC XMP	 Exif  IPTC IIM  IPTC XMP
Tested in March 2013	No metadata shown, embedded fields are preserved in downloaded image files but not in Save As files.	 Exif  IPTC  IPTC	 Exif  IPTC IIM  IPTC XMP	 Exif  IPTC IIM  IPTC XMP
Pinterest - www.pinterest.com Tested in late 2015	No embedded metadata shown. Embedded metadata preserved in high resolution/original size images, but IIM and XMP metadata is stripped off in downscaled images. Compared to 2013: the loss of IIM and XMP metadata in downscaled images was not tested then.	 Exif  IPTC  IPTC	 Exif  IPTC IIM  IPTC XMP	 Exif  IPTC IIM  IPTC XMP
Tested in March 2013	No metadata shown, all embedded fields are preserved in the Save As image files.	 Exif  IPTC  IPTC	 Exif  IPTC IIM  IPTC XMP	 Exif  IPTC IIM  IPTC XMP
Tumblr - www.tumblr.com Tested in late 2015	No embedded metadata shown. Only the embedded Exif fields are preserved in the SaveAs image files, IIM and XMP metadata is stripped off. Compared to 2013: in SaveAs files all metadata were preserved then = decline	 Exif  IPTC  IPTC	 Exif  IPTC IIM  IPTC XMP	 Exif  IPTC IIM  IPTC XMP
Tested in March 2013	No metadata shown, all embedded fields are preserved in the Save As image files.	 Exif  IPTC  IPTC	 Exif  IPTC IIM  IPTC XMP	 Exif  IPTC IIM  IPTC XMP
Twitter - www.twitter.com Tested in late 2015	No embedded embedded metadata shown. Only downscaled images are available for SaveAs and the metadata are stripped off such files. Compared to 2013: no change	 Exif  IPTC  IPTC	 Exif  IPTC IIM  IPTC XMP	 Exif  IPTC IIM  IPTC XMP
Tested in June 2013	No metadata shown, all embedded metadata stripped-off from image files.	 Exif  IPTC  IPTC	 Exif  IPTC IIM  IPTC XMP	 Exif  IPTC IIM  IPTC XMP



After the Results

- About 30 organisations, primarily trade association of photographers, contacted and made aware of the results
- Only a few responded
- Some – more private – contacts said:
 - many amateur photographers don't care about such a test as they don't care about copyright
 - many professional photographers have given up and share only pictures with a) watermarks and/or b) of low business value.
 - people from Social Media admitted: our engineers don't know much about metadata, they focus on perfect pixels.



Wrap Up

You can find:

All results at

<http://www.embeddedmetadata.org/testresults>

The Embedded Metadata Manifesto at

<http://embeddedmetadata.org>

More about IPTC Photo Metadata at

www.iptc.org/photometadata

This presentation at

www.phmdc.org (next week)

