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Image analysis report

04/27/2017

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File information:

Name	OCIG0L0.jpg
Image type	JPEG
Location	No data
Size	4.6MB
Resolution	5559x3744
Software	Adobe Photoshop CS6 (Windows)
Compression matches software	Adobe Photoshop, Adobe Photoshop Lightroom
Thumbnail	



Verdict

Metadata contain tags of a graphics editing software.













Metadata contain Photoshop tags.

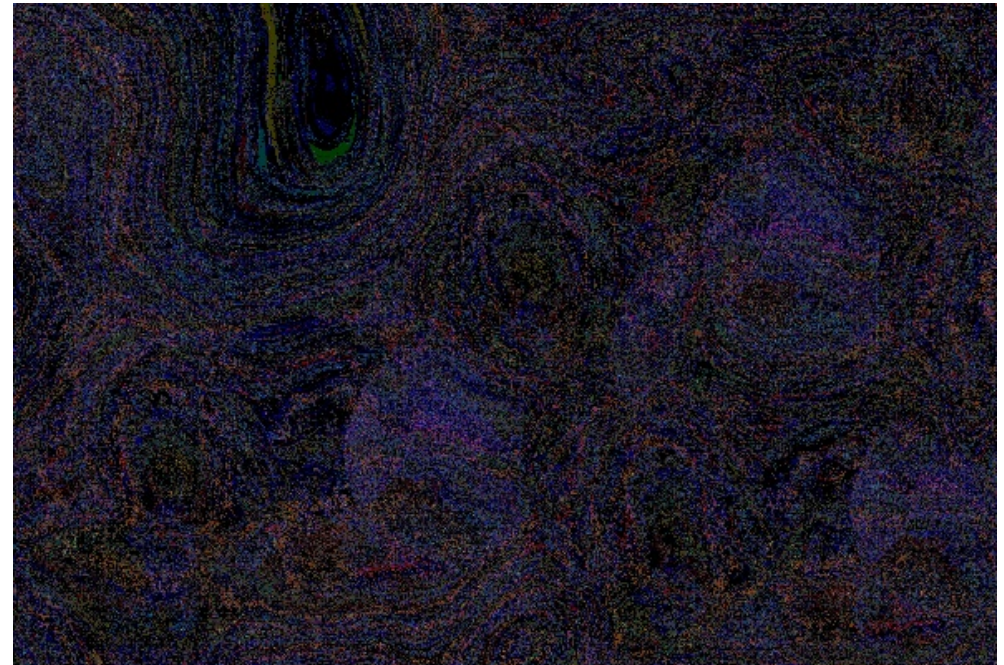
No camera info contained in image metadata.

Image compression matches known software products.

Erased or incomplete EXIF metadata.

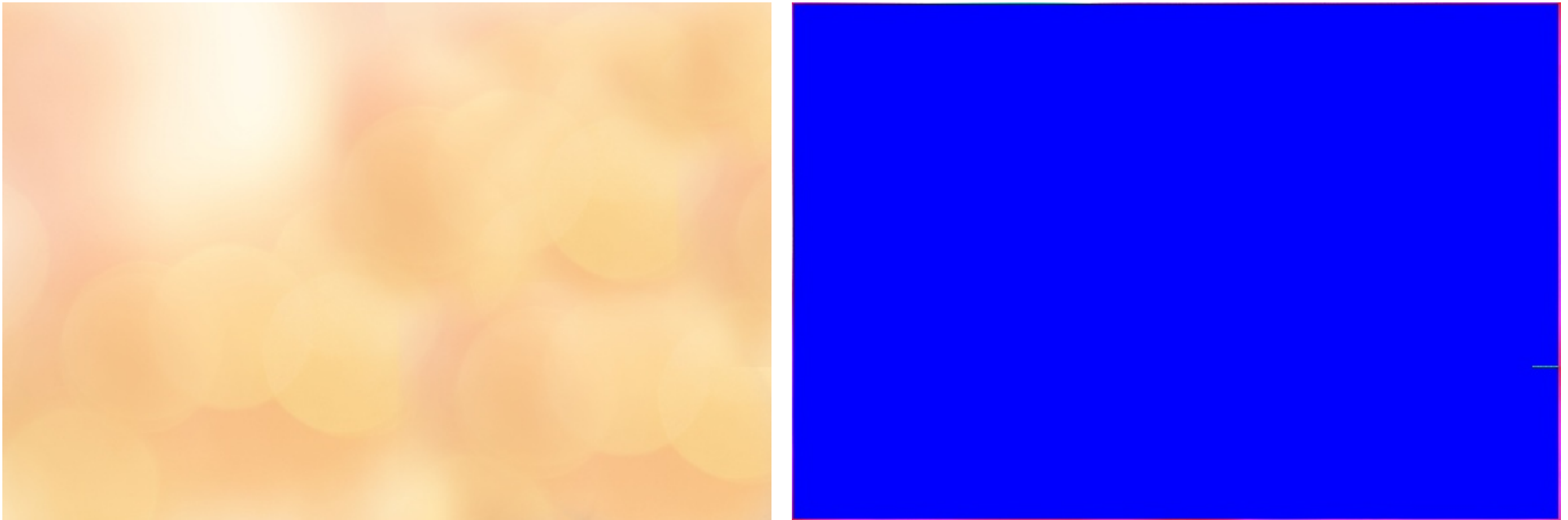
Algorithms:

 Compression	<input checked="" type="radio"/>
 Metadata	<input checked="" type="radio"/>
 Image quality	<input checked="" type="radio"/>
 Stamp	<input type="radio"/>
 JPEG Ghosts	<input checked="" type="radio"/>
 Thumbnail analysis	<input checked="" type="radio"/>
 Image recapture detection	<input type="radio"/>
 Double Quantization effect	<input type="radio"/>
 Error Level Analysis	<input checked="" type="radio"/>
 Bag features	<input type="radio"/>
 Higher Order Wavelet Statistics	<input type="radio"/>
 Luminance Gradient Service	<input type="radio"/>



Description

In order to determine edited areas the algorithm analyzes the image for the presence of areas with different levels of compression. The result of the algorithm is presented in the form of the quantization error level maps. Study of this map reveals the image fragments are compressed using different sampling rates. Significant difference coefficients by sampling different areas of the picture indicates that these regions were previously part of different photos and are combined in a single image during manipulation. Differences of error levels in the areas of the image with comparable details are considered as evidence of a manipulation or retouching images.



Description

In order to determine edited areas the algorithm analyzes the image for the presence of areas with different levels of compression. Unlike ELA, in addition to the probability map, JPEG Ghosts can output an automatic reply (with minimal participation of the expert) as a mask.