

THE GREAT IMAGE OPTIMIZATION CASE STUDY

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Results Summary



-Smush-

800,000+ Downloads



-WP Compress-

FAST, FREE, UNLIMITED



-EWWW IO-

500,000+ Downloads

ORIGINAL FILE SIZE	78.9 MB
FREE VERSION (SMUSH)	0.5% 78.51 MB
MAXIMUM (SUPER-SMUSH - \$50/MO)	47.5% 41.3 MB
RESIZE (SUPER-SMUSH + 2048px)	91.4% 6.75 MB
TIME TO COMPRESS	1 min 45 sec

ORIGINAL FILE SIZE	78.9 MB
FREE VERSION (INTELLIGENT)	67.5% 41.3 MB
MAXIMUM (ULTRA - STILL FREE)	78.9% 16.63 MB
RESIZE (ULTRA + 2048px)	96.1% 3.05 MB
TIME TO COMPRESS	25 sec

ORIGINAL FILE SIZE	78.9 MB
FREE VERSION (LOSSLESS)	2.1% 77.19 MB
MAXIMUM (MAX LOSSY - Pay Per Image)	69.1% 24.32 MB
RESIZE (MAX LOSSY + 2048px)	94.1% 4.71 MB
TIME TO COMPRESS	5-15 Minutes



The Experiment

This case study is brought to you by WP Compress, we personally completed all testing and data was recorded by an independent third party. If you have any questions or would like to obtain additional information about this case study, please contact us via the support center.



KEY TERMS

ORIGINAL FILE SIZE	<i>The total combined file size of the 20 high resolution case study images. (78.9 MB across the board)</i>
FREE VERSION	<i>All plugins tested have at least one compression setting in their free version. Some plugins offer multiple settings in the free while others may be more of a trial or demo.</i>
MAXIMUM	<i>We tested the max compression option of each plugin, these were in the paid version, other than WP Compress where ULTRA was still free.</i>
RESIZE (MAXIMUM + RESIZE)	<i>We defined optimal as a mix of quality and size. Typically this was not the max version, but the next strongest compression level with image resizing to 2048px as in all standard cases, images do not need to be larger.</i>
TIME TO COMPRESS	<i>We tested the time needed for max compression and resizing. This was typically in the paid version of the plugins.</i>



THE IMAGES

The data presented is based on a collection of 20 images from Unsplash.com and was tested with the free & premium versions of the most downloaded image optimization plugins.

The Findings

Case Study Notes



WP COMPRESS

Core Version Free

WP Compress prides itself on having all necessary image optimization features completely free

Unlimited Compression

No max file size, no GB/mo transfer limit, unlimited image compression and no API usage charges

Quick Bulk Optimization

Less than 30 seconds to backup, optimize and resize all images



EWWW IO

Long Time To Compress

Tests took 5 to 15 mins to complete. Also received failure errors and had to restart multiple times.

Limited Free Version

Free version saved only 2.1% (1.6MB of 78.7MB). Only one mode and limited features without upgrading

Gets Costly Quick

Cost \$.84 in API credits to compress just 20 images and their thumbnails



SMUSH

Expensive

Many features are blocked off until you fork over \$50/mo for their entire package.

Great User Interface

Smush has an amazing user interface and storyline behind the brand

Limited Free Version

Without Super-Smush, free options saved only .5% and was slower

Other Plugins

IMAGIFY

Excluded as Imagify is limited to 2MB per image in free version and 25MB total – basically a glorified demo. The images we could compress averaged 59.38% savings.

SHORTPIXEL

Could not test or get proper results as the plugin crashed our site multiple times, froze, and even set us back to the "Install WordPress" select your language page.

KRAKEN.IO

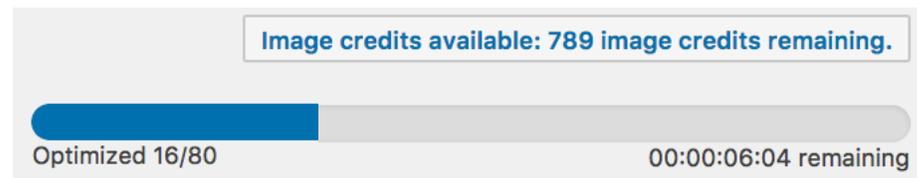
Initially, their servers were down for optimizing. Great user interface,, but the free version only allowed 100MB of testing so the full case study was not able to be completed.

WP Compress - Promise

If you find a better free alternative to WP Compress, let us know. We pride ourselves in providing the most easy to use, feature rich and fastest image optimization out there, and even beat the paid versions of other plugins.

EWWW IO Compression Time

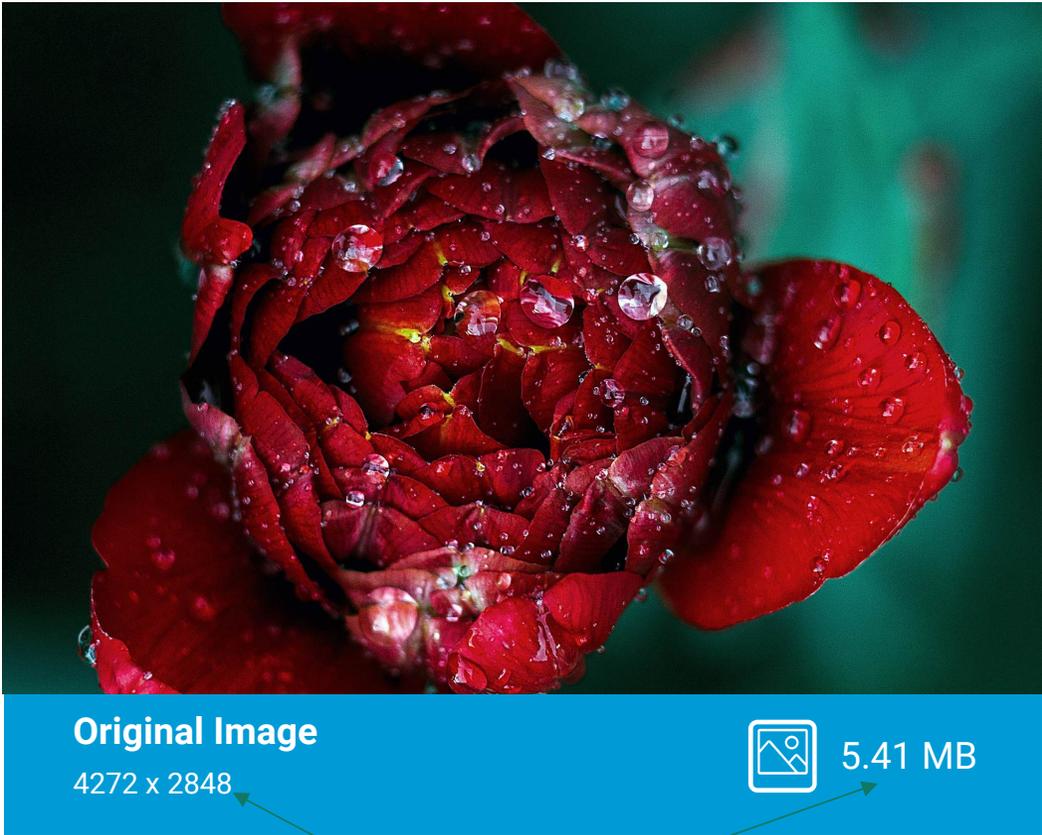
Running max lossy and resize on 20 images and their respective thumbnails took 5+ minutes.



Case Study Key

Demonstrated on Image 1

For Smush And EWWW we tested the PAID version on maximum compression for all images while WP Compress was FREE



Original Image Dimensions and File Size for reference

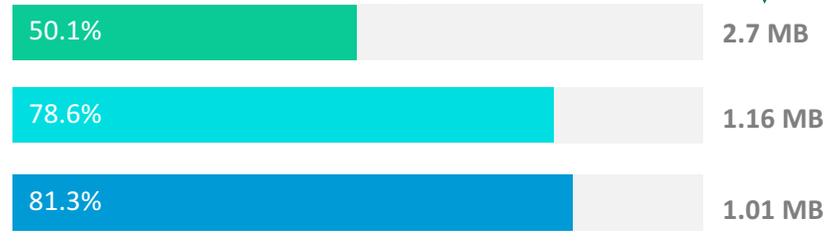
These are the plugins tested with their max optimization settings

- Smush**
Super-Smush (\$50/mo)
- EWWW**
Max Lossy (\$ per image)
- WP Compress**
ULTRA (FREE)

These are the resulting file sizes

Compression

Bars indicate the % saved after optimizing



Compression + Resizing

Bars indicate the % saved after optimizing and resizing to 2048px



Unless it is a background image, there is typically no need to have images larger than 2048px – the file size savings from compressing and resizing can be massive

Image 1

Image Optimization Case Study

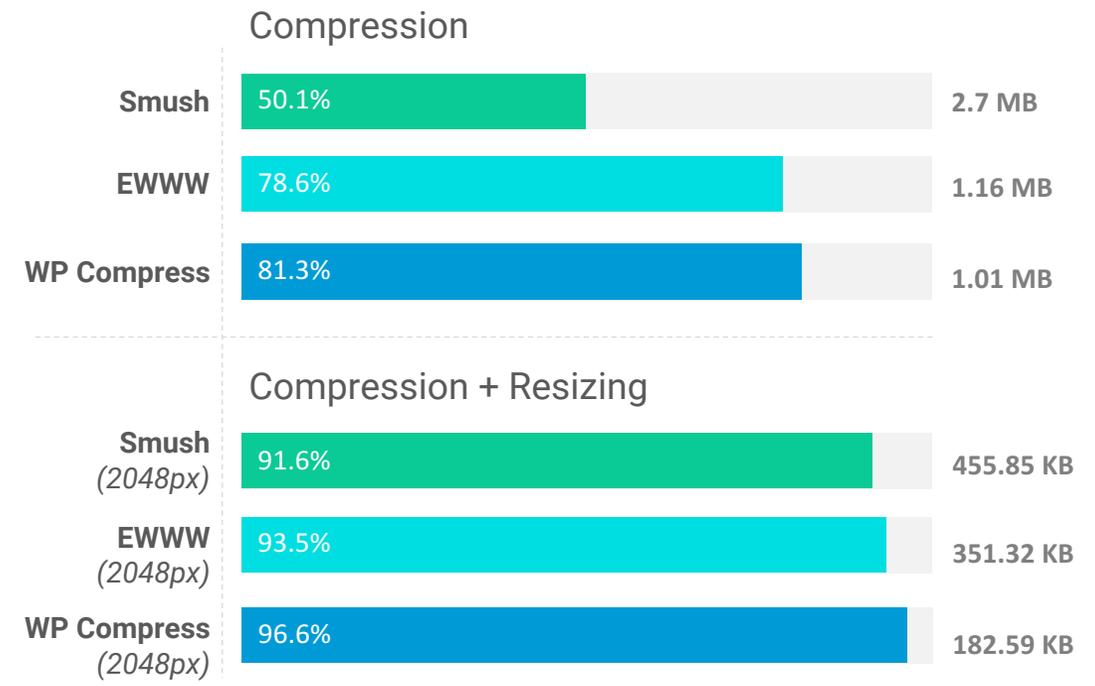
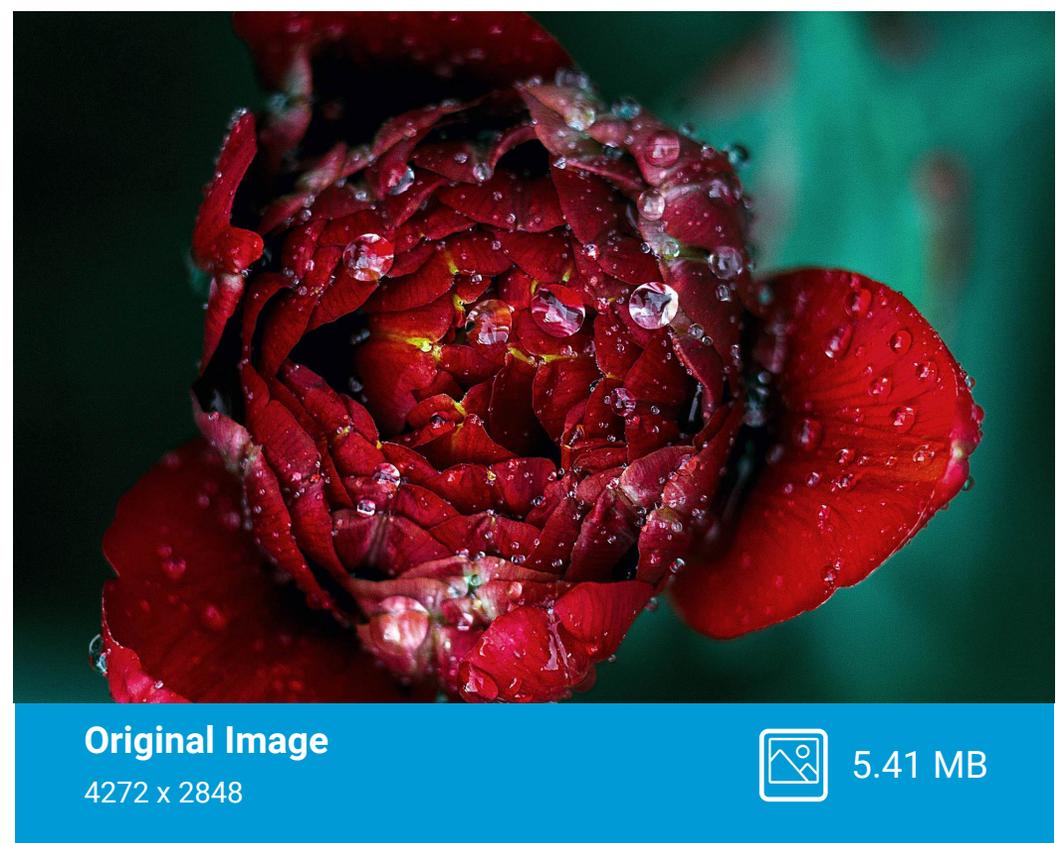


Image 2

Image Optimization Case Study

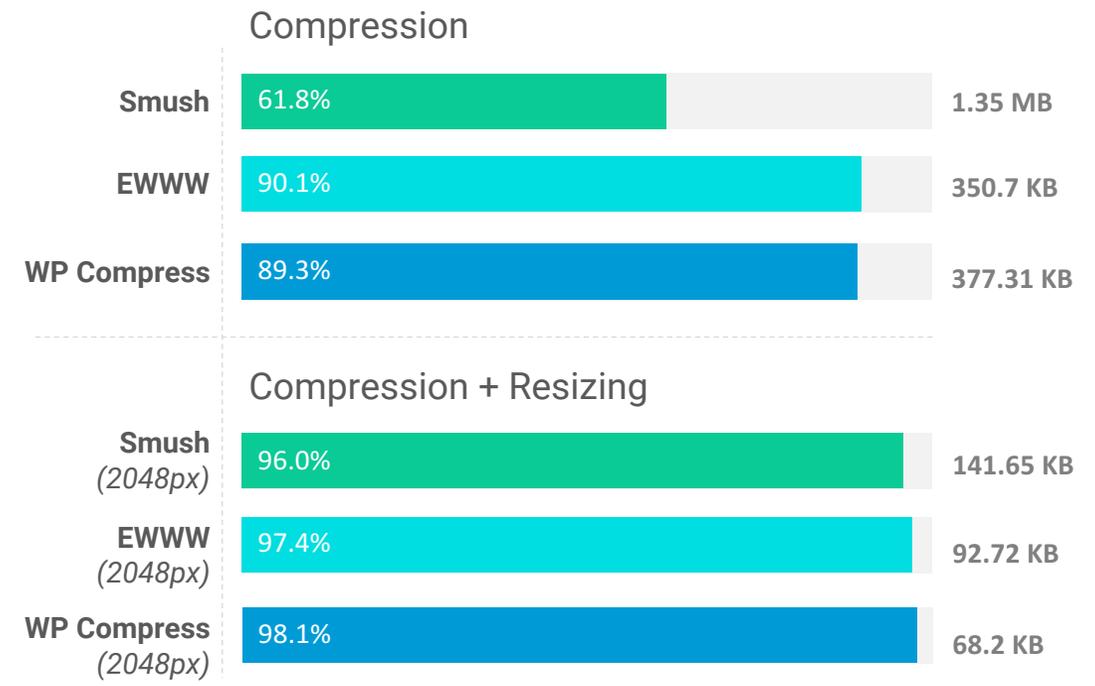
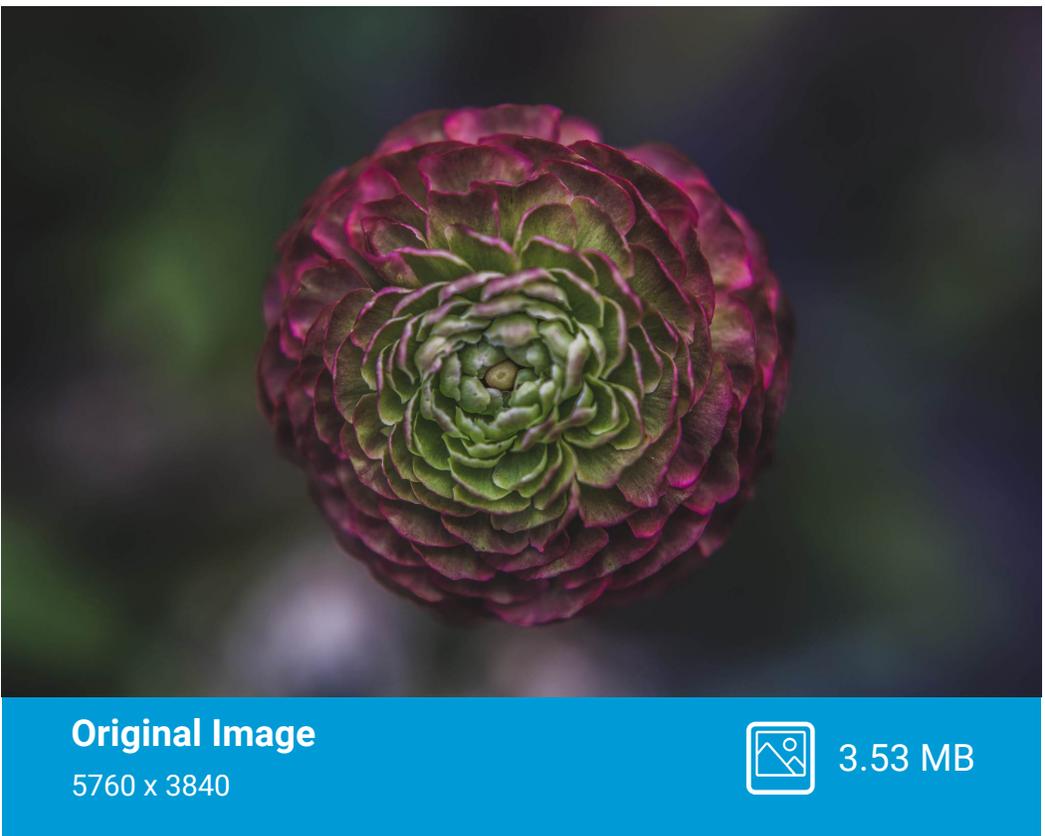


Image 3

Image Optimization Case Study



Original Image
6000 x 4000  7.2 MB

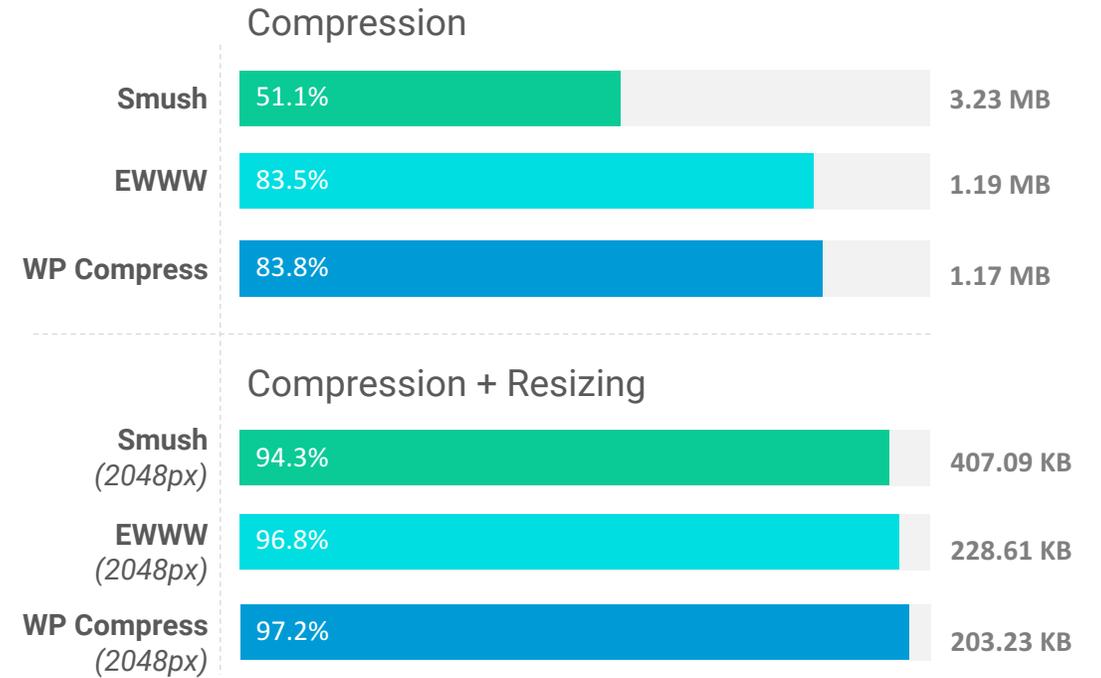


Image 4

Image Optimization Case Study

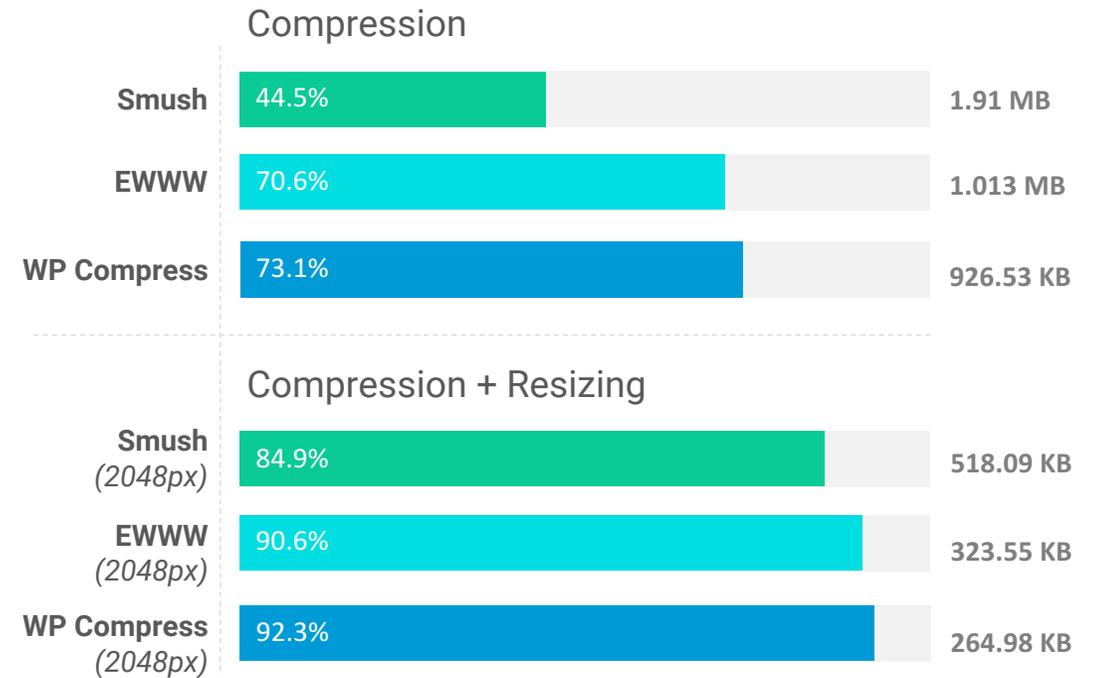
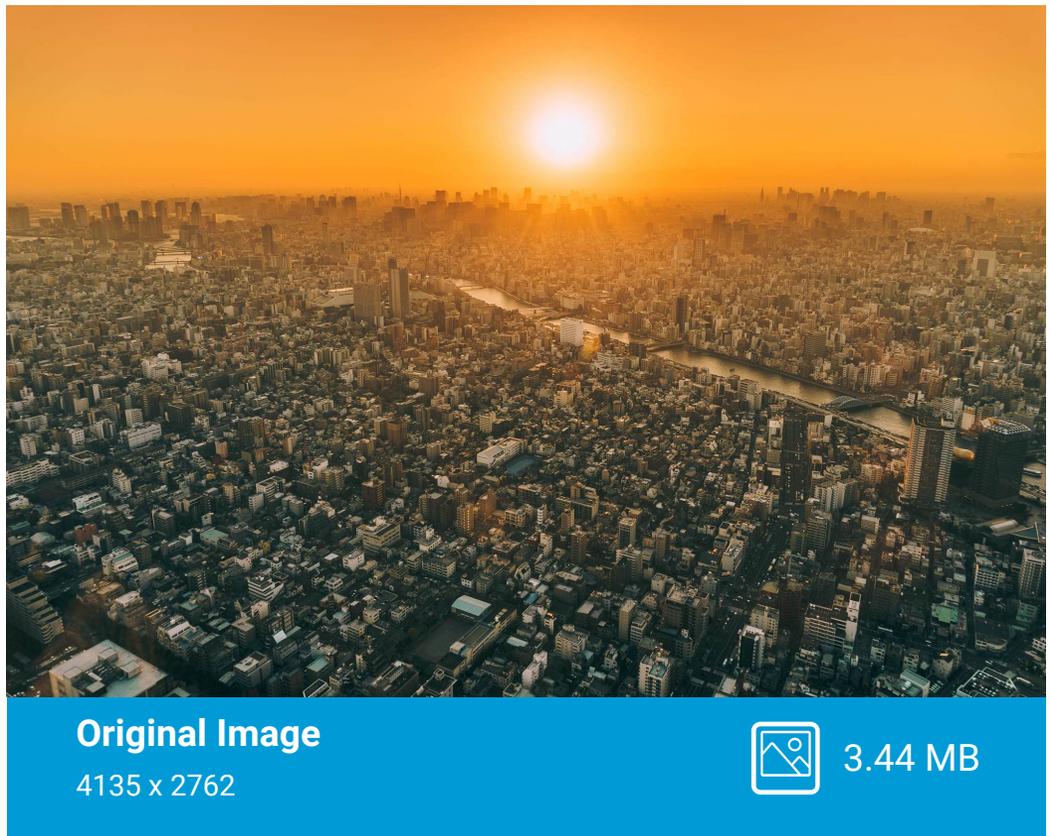


Image 5

Image Optimization Case Study



Original Image

4896 x 3264



4.04 MB

Compression



Compression + Resizing



Image 6

Image Optimization Case Study

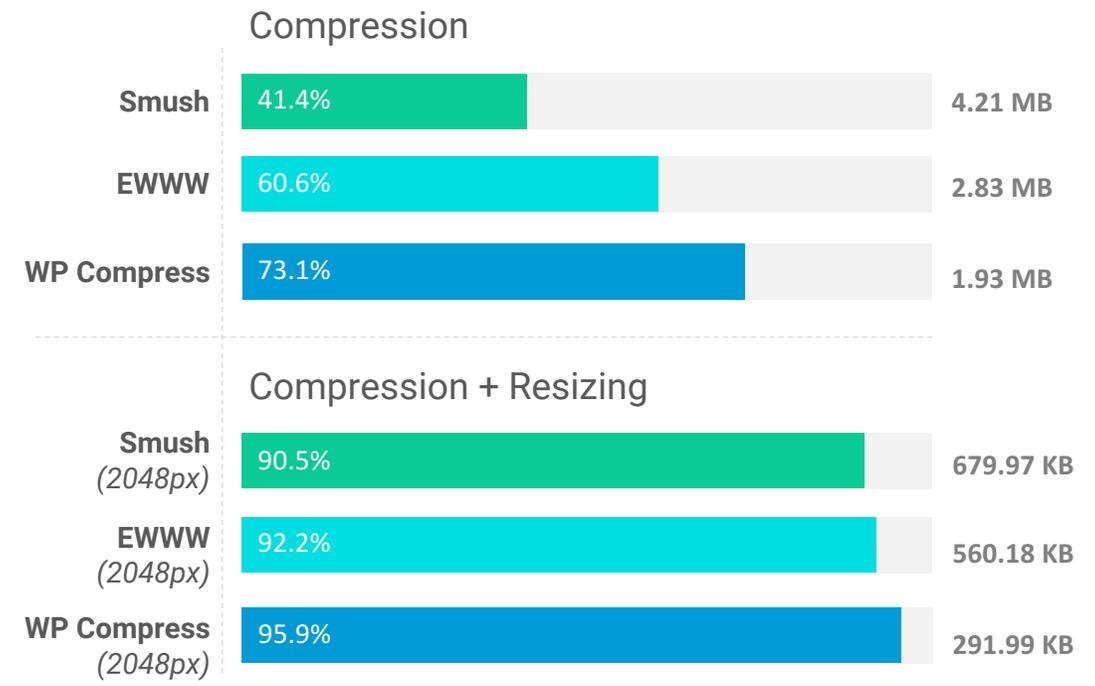
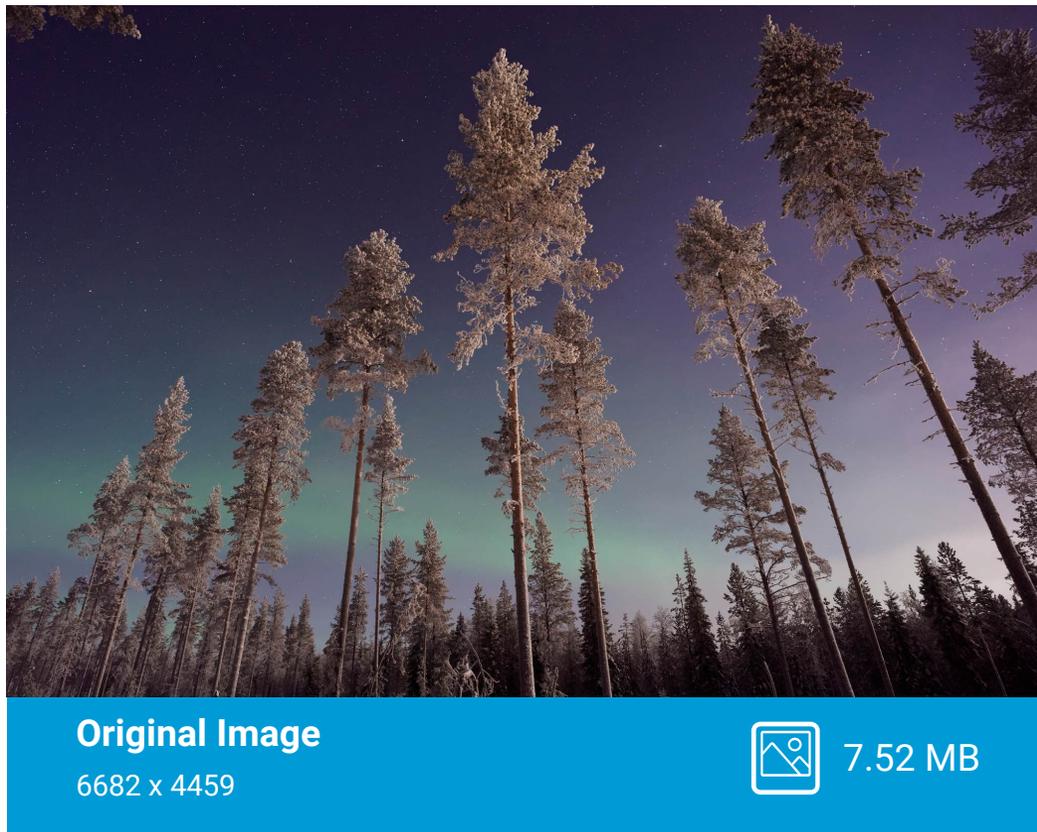


Image 7

Image Optimization Case Study



Compression



Compression + Resizing



Image 8

Image Optimization Case Study

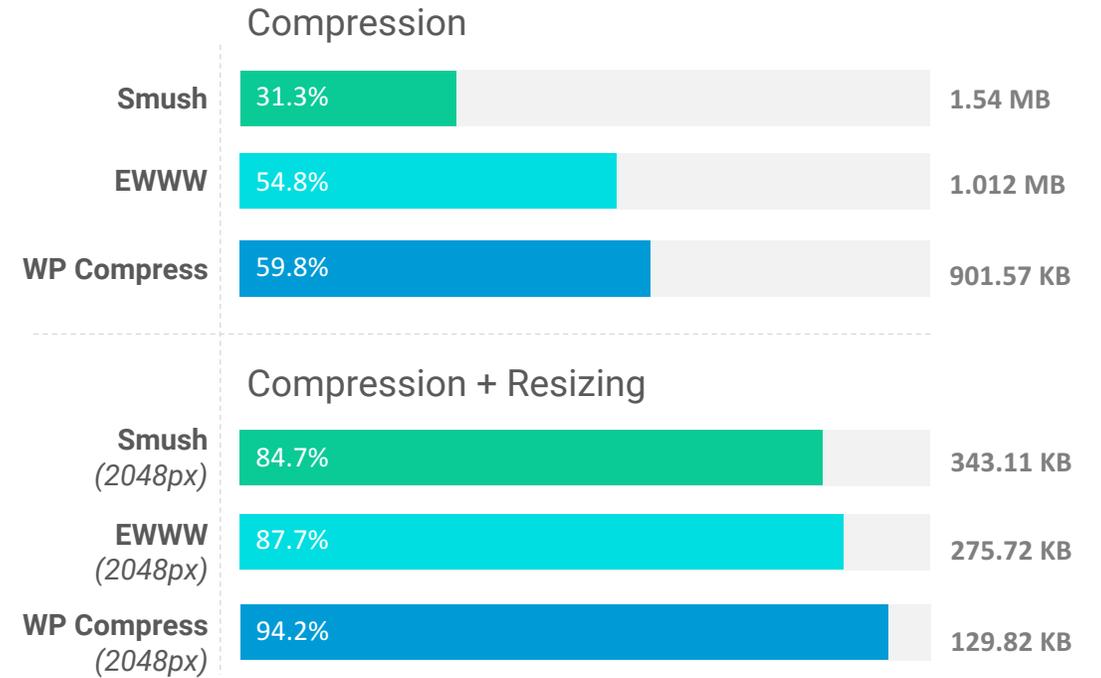


Image 9

Image Optimization Case Study

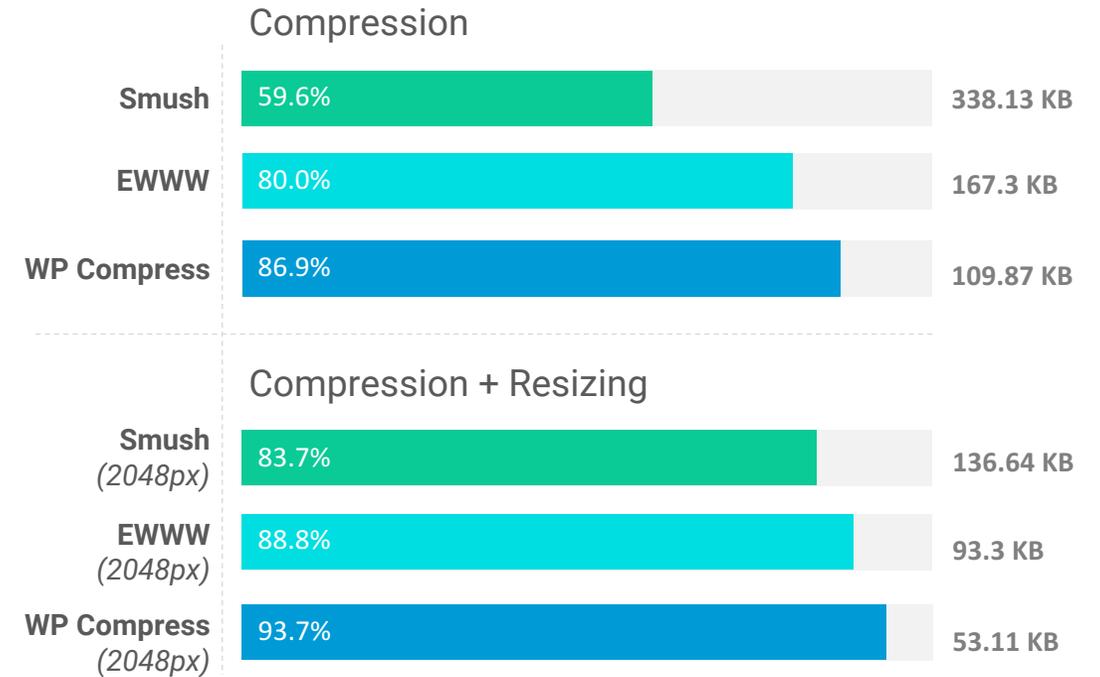


Image 10

Image Optimization Case Study

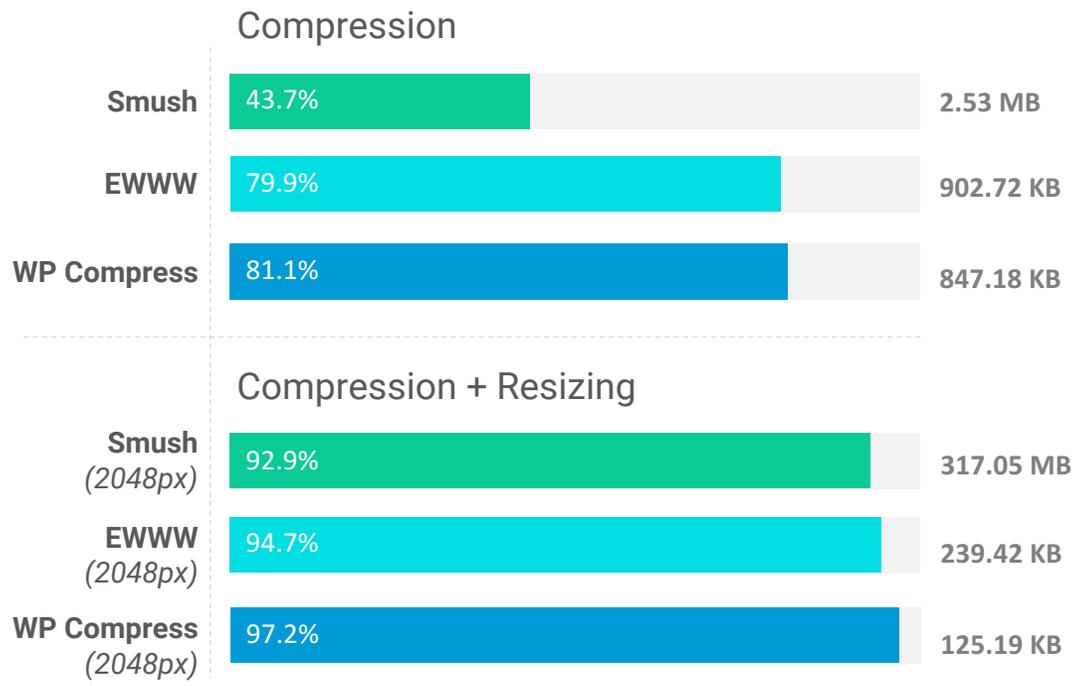
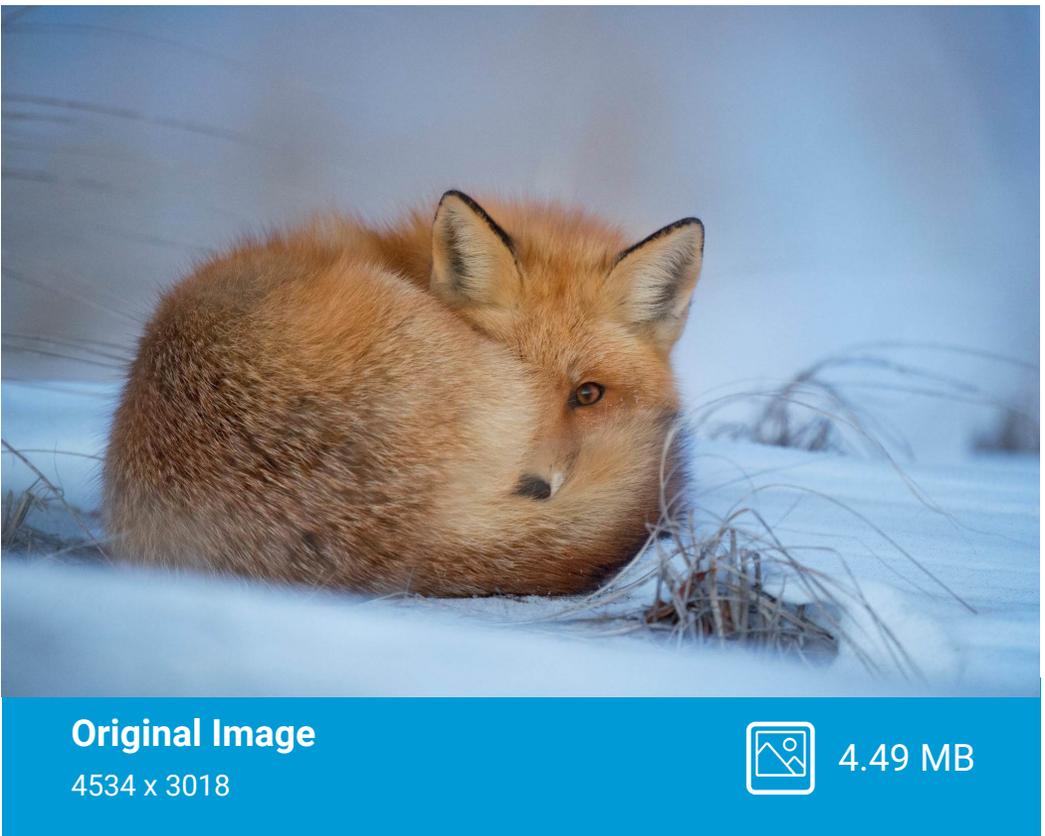


Image 11

Image Optimization Case Study

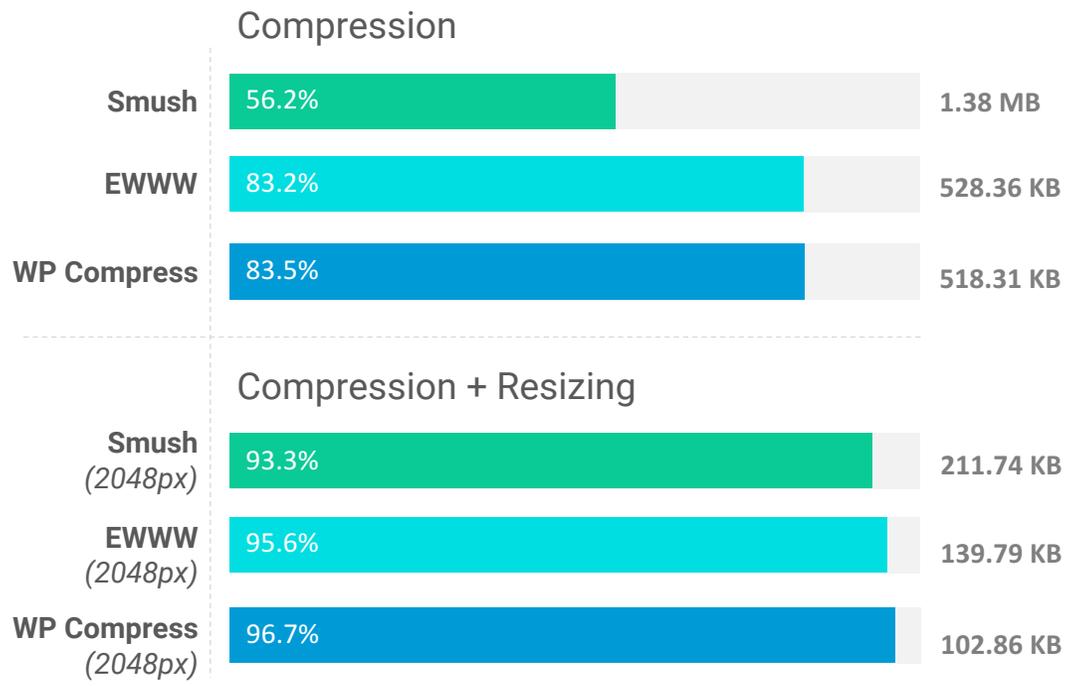
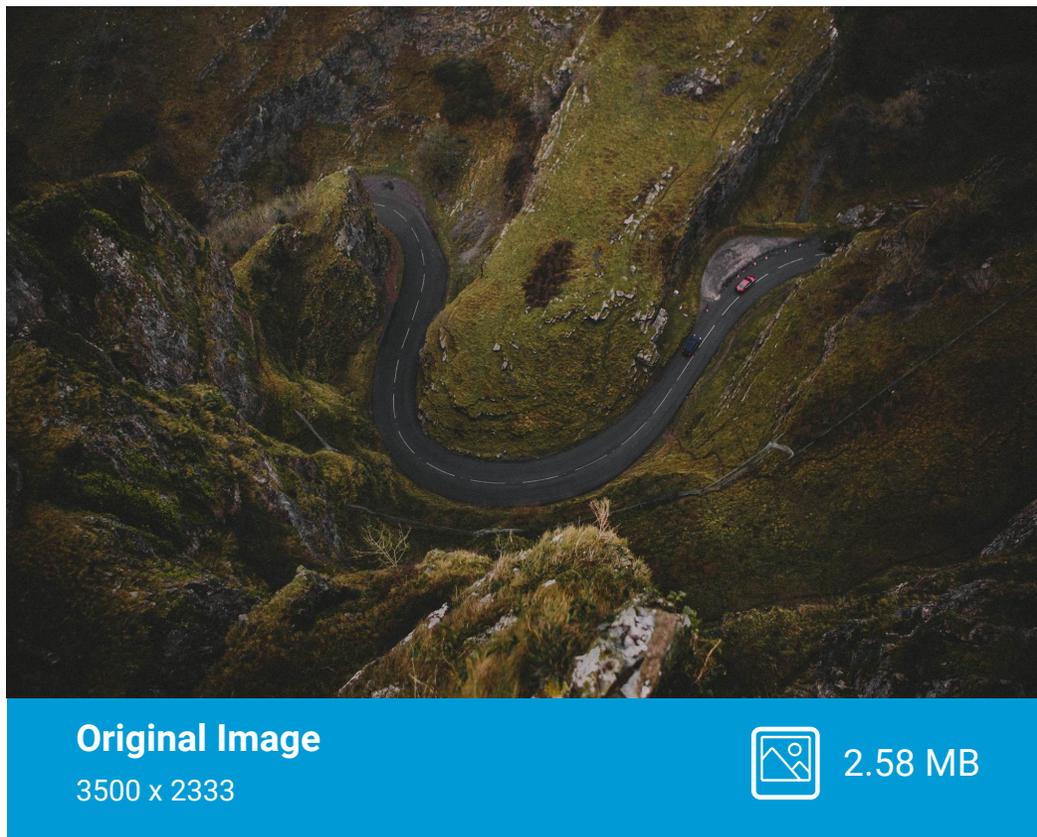


Image 12

Image Optimization Case Study



Compression



Compression + Resizing



Image 13

Image Optimization Case Study

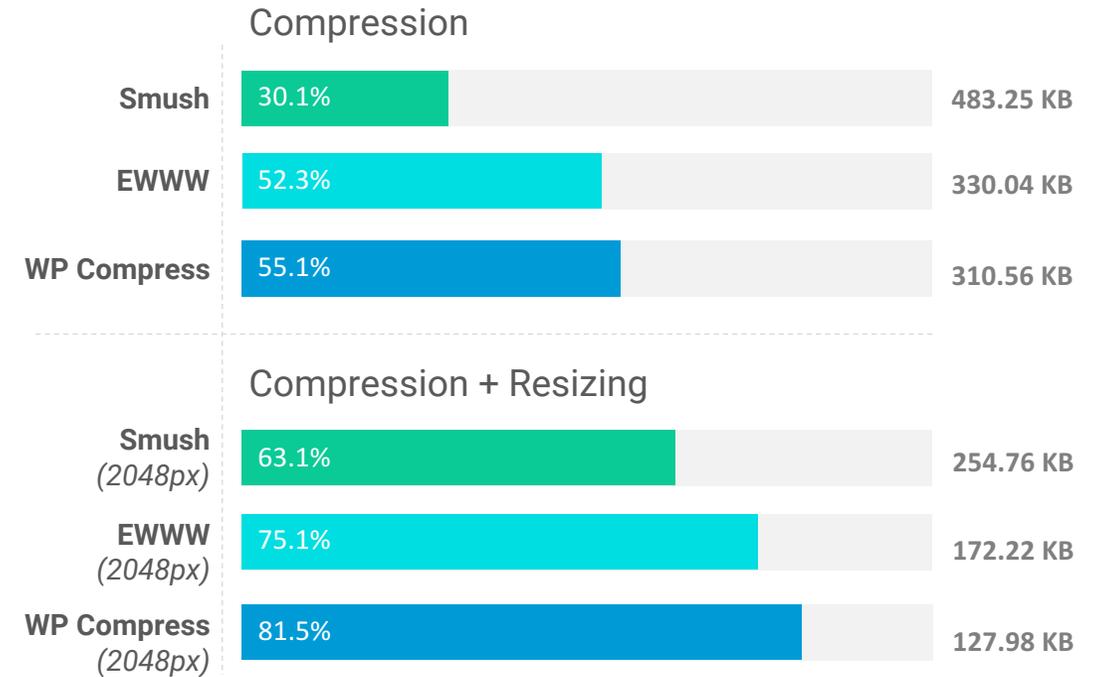


Image 14

Image Optimization Case Study



Original Image

4547 x 3020



2.67 MB

Compression



Compression + Resizing



Image 15

Image Optimization Case Study

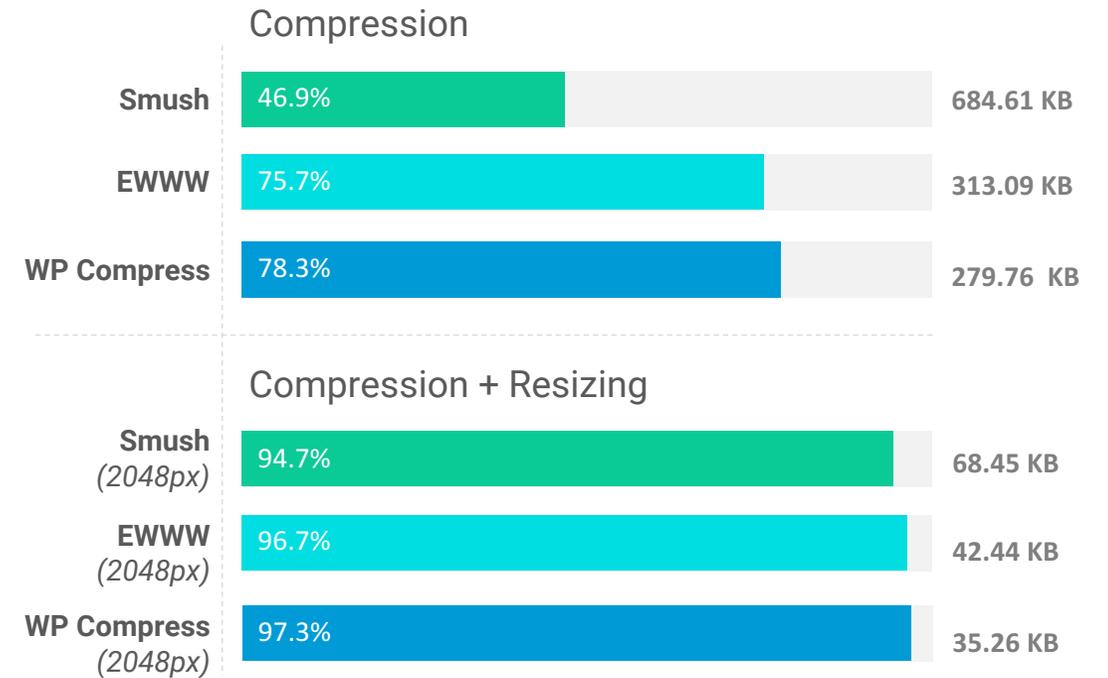
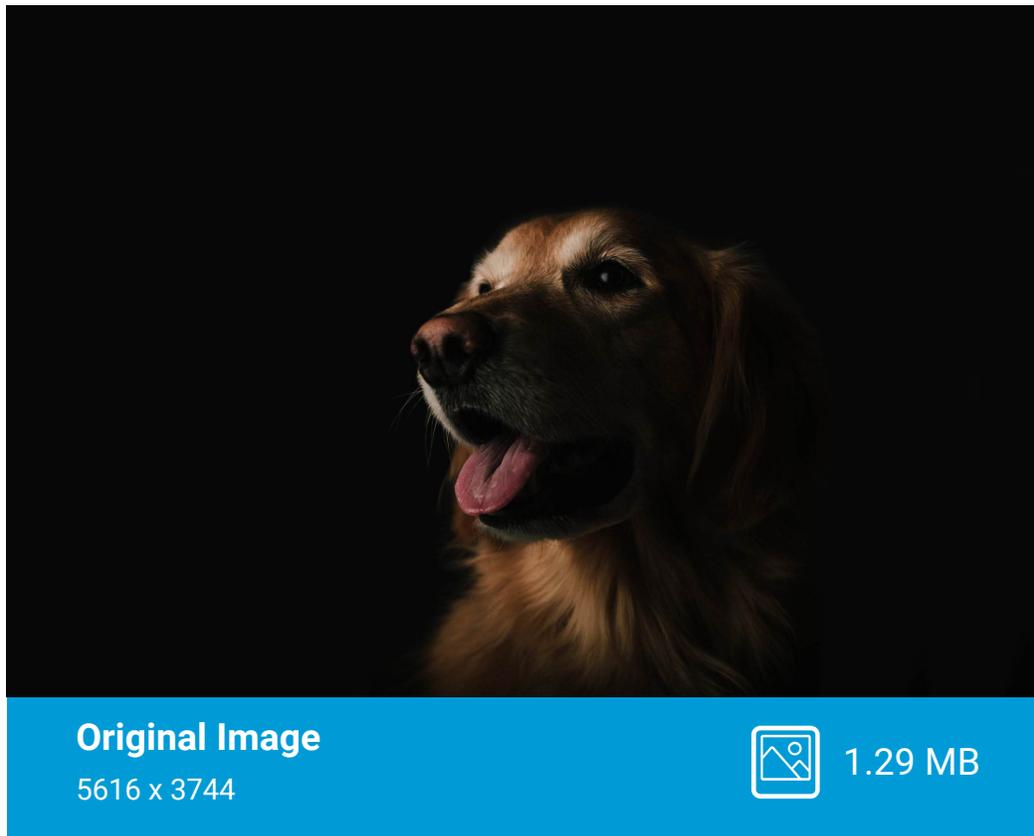


Image 16

Image Optimization Case Study

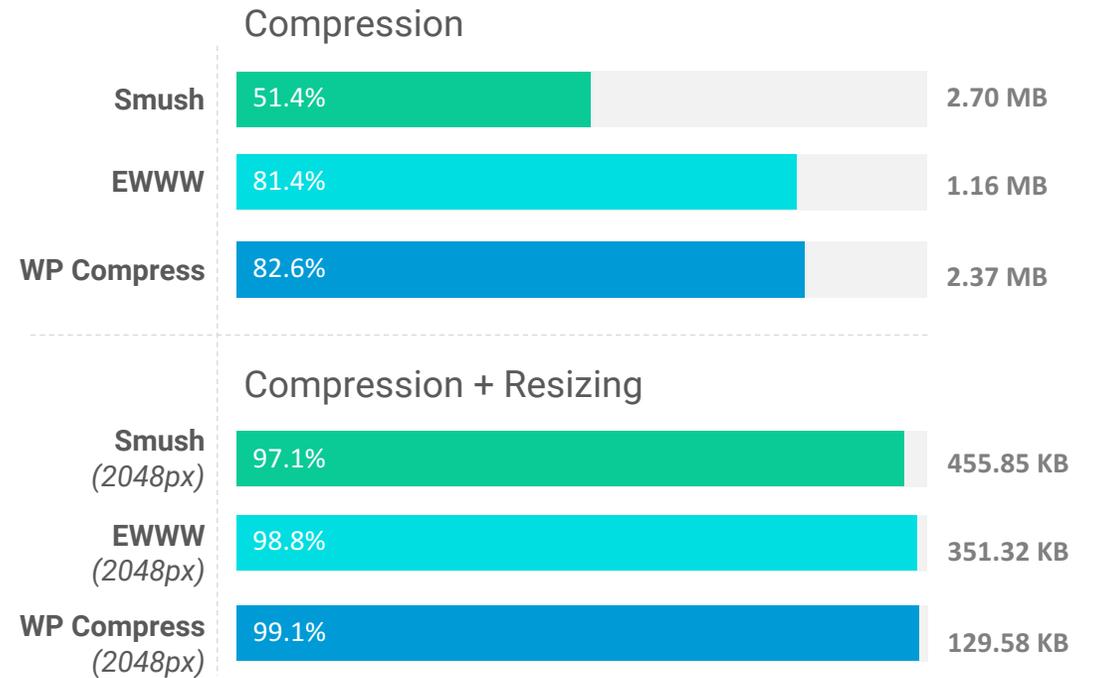


Image 17

Image Optimization Case Study



Compression



Compression + Resizing

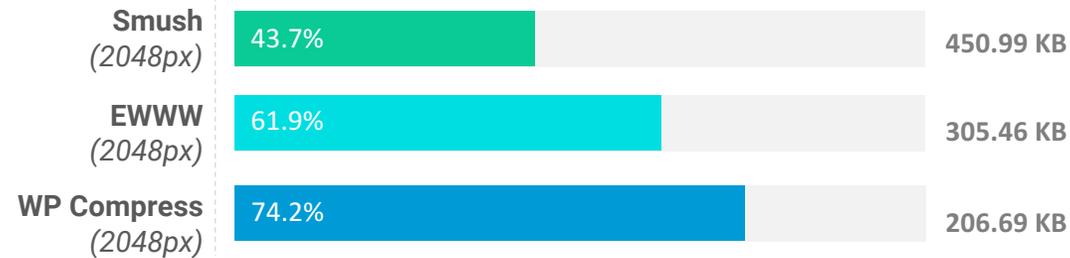
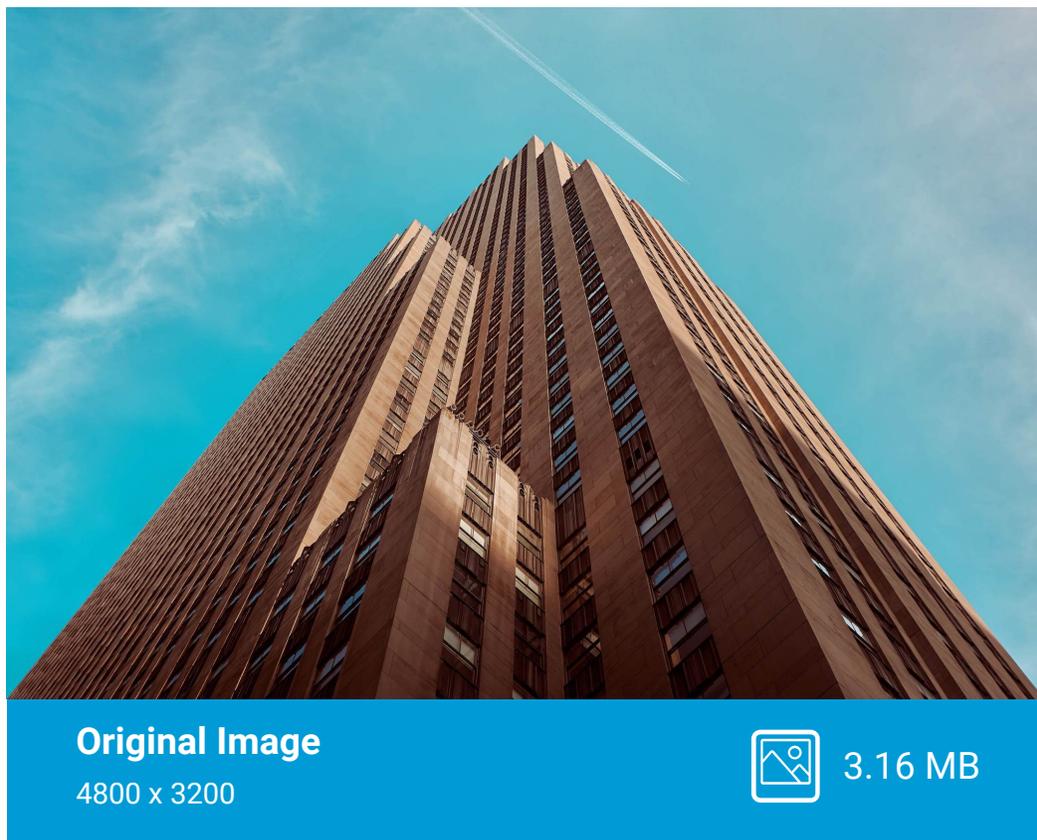


Image 18

Image Optimization Case Study



Compression



Compression + Resizing



Image 19

Image Optimization Case Study



Compression



Compression + Resizing



Image 20

Image Optimization Case Study

