GREENRIVERS WEBP

Magento module for images conversion to webp format

Table of Contents

I Requirements	3
I RequirementsII Installation	3
1) Webp support	3
2) Vips extension	3
3) Module	
III Usage	
1) Config	
2) Conversion	
3) Cron	6
IV Dev notes	7
1) Directory	
2) Commands	
3) Log files	
V Sources	

I Requirements

- x PHP >= 7.1
- **x** Cwebp >= 0.5.2
- x libvips >= 8.4.5
- x Magento >= 2.3

II Installation

1) Webp support

sudo apt-get install libwebp-dev sudo apt-get install webp

Enable GD-support.

Make sure that You have this extension.

sudo apt-get install phpX-gd

where X is PHP version (i.e. 7.1)

Last but not least configure PHP to enable support for webp format.

--with-webp-dir=DIR

2) Vips extension

sudo apt-get install libvips-dev pecl install vips

Add extension=vips.so to php.ini file.

3) Module

composer require greenrivers/webp php bin/magento module:enable GreenRivers_Webp php bin/magento setup:upgrade php bin/magento setup:di:compile php bin/magento setup:static-content:deploy -f

III Usage

1) Config

Stores \rightarrow Configuration \rightarrow GREENRIVERS \rightarrow Webp

General		
	Enabled	Yes
Settings		
	Algorithm [store view]	Webp
	Quality	75
Conversion		
	Convert images on product save	Yes

General → Enabled - module activation

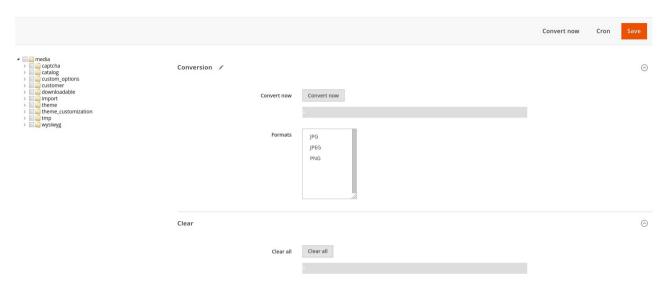
Settings \rightarrow Algorithm - choose one from three conversion methods (Webp, Cwebp, Vips)

Settings → Quality - quality of converted image

Conversion \rightarrow Convert images on product save - after uploaded images on product edit page and save it, all images assigned to current product will be converted automatically

2) Conversion

Content → Conversion → Convert now



Tree nodes (left side) - select in which catalogs images should be converted.

Conversion tab – select image extensions which should be converted, click on **Convert now** button to start operation (this operation can take long time, please wait patiently). After finish You should see modal popup with conversion summary.

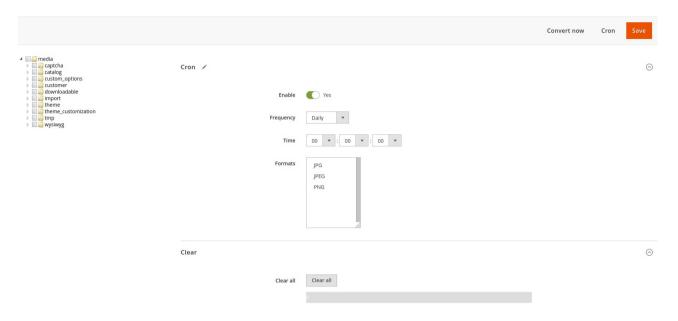
Clear tab – click on **Clear all** button to remove all webp images. After finish You should see modal popup with clear summary.

Click on **Save** button to remember settings.

You must flush Magento cache after all of those operations.

3) Cron

Content → Conversion → Cron



Tree nodes (left side) - select in which catalogs images should be converted when cron running.

Cron tab – select cron frequency, time scheduled and image extensions which should be converted.

Clear tab – click on **Clear all** button to remove all webp images. After finish You should see modal popup with clear summary.

Click on **Save** button to schedule cron operation with choosen settings.

You must flush Magento cache after all of those operations.

IV Dev notes

1) Directory

Webp images are created in *pub/media/greenrivers/webp* folder.

This catalog mapping *pub/media* folders structure.

Example:

We have image: pub/media/catalog/product/g/r/green-rivers.jpg

Their equivalent in webp format has been created in pub/media/greenrivers/webp/catalog/product/g/r/green-rivers.webp

2) Commands

There are 2 commands which works the same as operations from admin backend.

```
unexpected
unexpected:webp:clear
unexpected:webp:convert

Convert images to webp format
```

greenrivers:webp:convert

It has two arguments:

- a) **ext** determine images extensions
- b) **dir** specify catalogs

To convert images in all folders with all available extensions (jpg, jpeg, png) run command without parameters.

Example:

We want to convert all png images in folders:

- pub/media/captcha
- pub/media/customer
- pub/media/wysiwyg

To achieve this run below command:

greenrivers:webp:convert --ext=png --dir=captcha,customer,wysiwyg

greenrivers:webp:clear

Run to remove all webp images.

3) Log files

Errors are logged in var/log/greenrivers/webp.log file.

V Sources

https://www.php.net/manual/en/image.installation.php

https://developers.google.com/speed/webp

https://github.com/libvips/libvips

https://github.com/libvips/php-vips