# GREENRIVERS WEBP

Magento module for images conversion to webp format

# **Table of Contents**

| I Requirements     | 3 |
|--------------------|---|
| II Installation    |   |
| 1) Webp support    | 3 |
| 2) Vips extension  | 3 |
| 3) Module          | 3 |
| 4) Memory limit    |   |
| III Úsage          |   |
| 1) Config          |   |
| 2) Conversion      | 5 |
| 3) Cron            | 6 |
| IV Dev notes       | 7 |
| 1) Conversion time |   |
| 2) Directory       | 7 |
| 3) Commands        |   |
| 4) Log files       | 8 |
| V Sources          |   |

## **I Requirements**

- x PHP >= 7.1
- x Cwebp >= 0.5.2
- x libvips >= 8.4.5
- x Magento >= 2.3
- x Memory limit >= 8GB

#### **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.

composer require regicupitt/vips

# 3) Module

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

#### 4) Memory limit

Increase memory limit to minimum 8 GB.

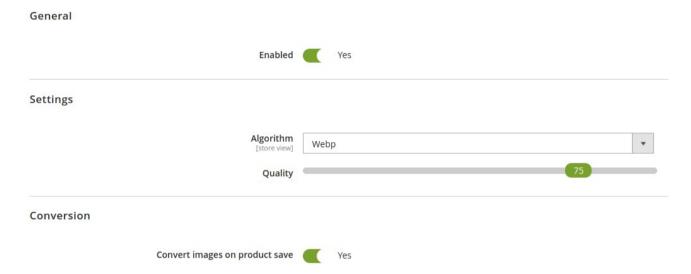
To achieve this add in app/boostrap.php:

php ini\_set('memory\_limit', '8192M');

#### III Usage

#### 1) Config

Stores → Configuration → GREENRIVERS → Webp



General → Enabled - module activation

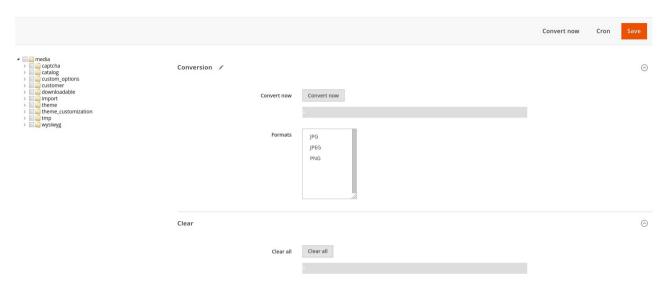
Settings  $\rightarrow$  Algorithm - choose one from three conversion methods (Webp, Cwebp, Vips)

Settings  $\rightarrow$  Quality - quality of converted image

Conversion → 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 (due to caching images sometimes requires to save product again for convert all images)

#### 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.

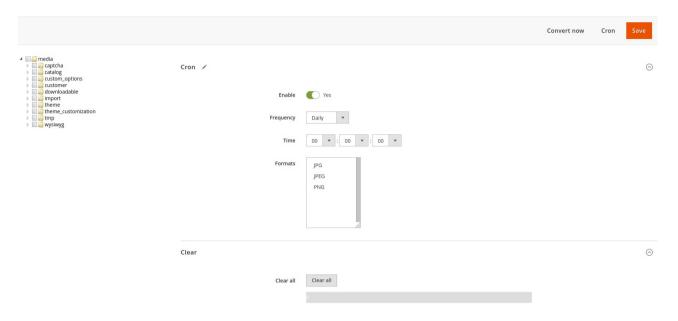
Clear tab – click on **Clear all** button to remove all webp images. After finish You should see modal popup with clear summary.

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) Conversion time

Average time for conversion take 50 000 images / hour.

Please note that it depends on images size.

#### 2) 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/greenrivers.jpg

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

## 3) Commands

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

```
greenrivers
greenrivers:webp:clear
greenrivers: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.

## 4) 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