# GREENRIVERS WEBP

Magento module for images conversion to webp format

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## **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.

## 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.

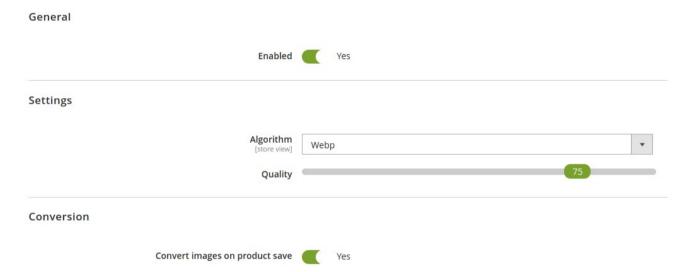
To achieve this add in app/boostrap.php:

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

#### **III Usage**

#### 1) Config

Stores → Configuration → GREENRIVERS → Webp



General → Enabled - module activation

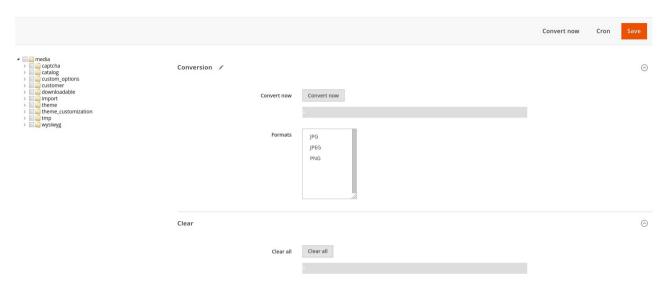
Settings  $\rightarrow$  Algorithm - choose one from three conversion methods (Webp, Cwebp, Vips)

Settings → 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.

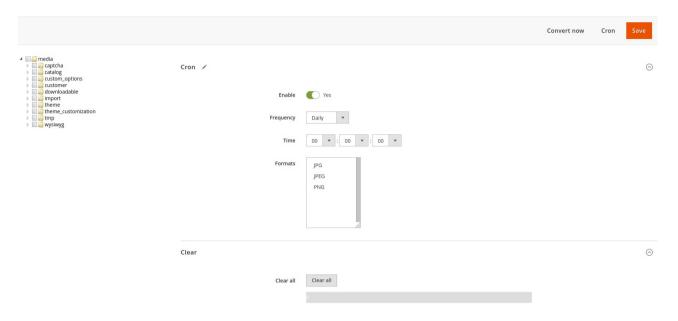
Clear tab – click on **Clear all** button to remove all webp images. After finish You should see modal popup with clear summary.

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) 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/green-rivers.jpg

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