

# 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

```
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
```

## 4) Memory limit

Increase memory limit to minimum 8 GB.

To achieve this add in app/bootstrap.php:

```
php ini_set('memory_limit', '8192M');
```

## III Usage

### 1) Config

Stores → Configuration → GREENRIVERS → Webp

#### General

Enabled  Yes

#### Settings

Algorithm  
[store view]

Webp

Quality

75

#### Conversion

Convert images on product save  Yes

General → Enabled - module activation

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

Settings → 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

## 2) Conversion

Content → Conversion → Convert now

The screenshot shows the 'Conversion' tool interface in Magento 2. At the top right, there are three buttons: 'Convert now', 'Cron', and 'Save'. On the left side, there is a tree view of file system nodes including 'media', 'captcha', 'catalog', 'custom\_options', 'customer', 'downloadable', 'import', 'theme', 'theme\_customization', 'tmp', and 'wysiwyg'. The main area is titled 'Conversion' and contains a 'Convert now' button, a progress bar, and a 'Formats' dropdown menu with options for 'JPG', 'JPEG', and 'PNG'. Below this, there is a 'Clear' section with a 'Clear all' button and another progress bar.

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

The screenshot shows the 'Cron' configuration page in a Magento admin interface. At the top right, there are three buttons: 'Convert now', 'Cron', and 'Save'. On the left side, there is a tree view of media categories under the 'media' root, including 'captcha', 'catalog', 'custom\_options', 'customer', 'downloadable', 'import', 'theme', 'theme\_customization', 'tmp', and 'wysiwyg'. The main area is titled 'Cron' and contains several settings: 'Enable' is set to 'Yes' with a toggle switch; 'Frequency' is set to 'Daily' in a dropdown menu; 'Time' is set to '00 : 00 : 00' in three dropdown menus; and 'Formats' is a list box containing 'JPG', 'JPEG', and 'PNG'. Below these settings, there is a 'Clear' section with a 'Clear all' button and a corresponding text input field.

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.

```
unexpected
unexpected:webp:clear          Remove all webp images
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.

#### **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>