

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.

```
composer req reqjcupitt/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/bootstrap.php:


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

III Usage

1) Config


Stores → Configuration → GREENRIVERS → Webp

General


Enabled  Yes

Settings

Algorithm [store view] ▼

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

2) Conversion

Content → Conversion → Convert now

The screenshot shows the 'Conversion' configuration page 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 media categories: media, captcha, catalog, custom_options, customer, downloadable, import, theme, theme_customization, tmp, and wysiwyg. The main area is titled 'Conversion' and contains two sections. The 'Convert now' section has a 'Convert now' button and a progress bar. The 'Formats' section has a dropdown menu with 'JPG', 'JPEG', and 'PNG' options. Below these sections, there is a 'Clear' section with a 'Clear all' button and another progress bar. The page also includes a 'Clear' button and a 'Clear all' button at the bottom.

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.

```
greenrivers
greenrivers:webp:clear          Remove all webp images
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>