

WEBP

Magento module for images conversion to webp format



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I Requirements

- x PHP \geq 7.1
- x Cwebp \geq 0.5.2
- x libvips \geq 8.4.5
- x Magento \geq 2.3
- x Memory limit \geq 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 reqjcupitt/vips
```

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] 
Quality  75

Conversion

Convert images on product save  Yes

General → Enabled - module activation

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

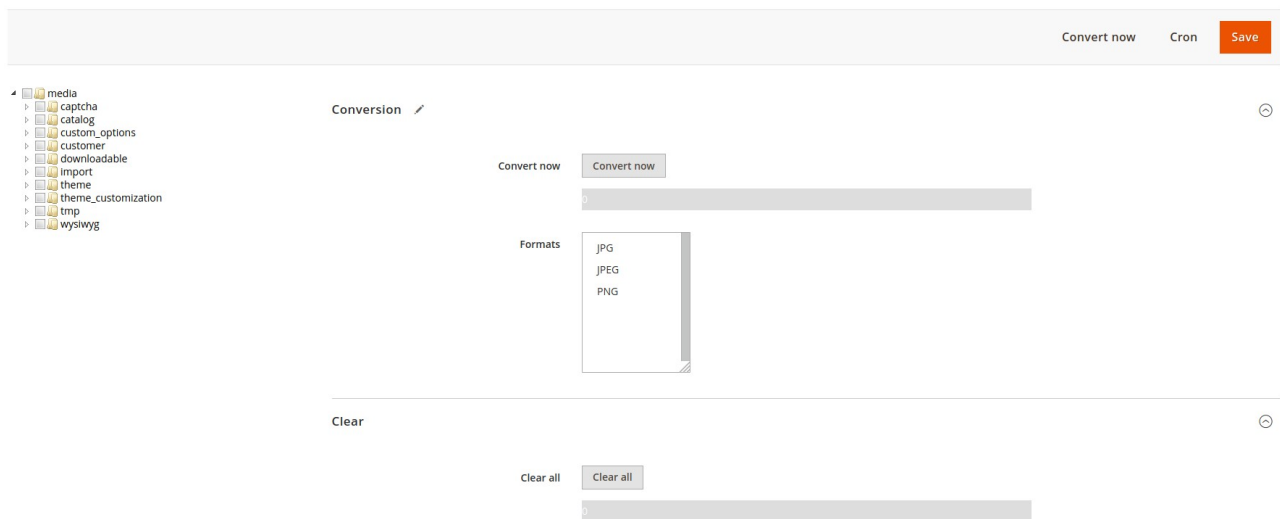
Settings → Quality - quality of converted image

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



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 buttons for 'Convert now', 'Cron', and 'Save'. On the left, a tree view shows the 'media' folder expanded, with sub-folders like 'captcha', 'catalog', 'custom_options', 'customer', 'downloadable', 'import', 'theme', 'theme_customization', 'tmp', and 'wysiwyg'. The main area is titled 'Cron' and contains the following settings:

- Enable:** A toggle switch is turned on, labeled 'Yes'.
- Frequency:** A dropdown menu is set to 'Daily'.
- Time:** Three dropdown menus are set to '00', '00', and '00' respectively, representing hours, minutes, and seconds.
- Formats:** A list box contains 'JPG', 'JPEG', and 'PNG'.

Below the settings, there is a 'Clear' section with a 'Clear all' button and a grey bar below it.

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           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>

