
django-webp-converter Documentation

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Contents

1	Introduction	1
2	Contents	3
2.1	Installation	3
2.2	Usage	4
2.3	Settings	4
2.4	Changelog	5

CHAPTER 1

Introduction

django-webp-converter is a Django app which straightforwardly converts static images to WebP images, falling back to the original static image for unsupported browsers.

WebP lossless images are 26% smaller in size compared to PNGs. WebP lossy images are 25-34% smaller in size compared to JPEG images at equivalent SSIM index (<https://developers.google.com/speed/webp/?hl=en>). By using WebP images, you can increase page load speeds with no noticeable change in image quality.

2.1 Installation

2.1.1 Prerequisites

Note: django-webp-converter requires that Pillow and its appropriate libraries are installed. Please see <https://pillow.readthedocs.org/> for instructions on installing Pillow and its dependencies.

2.1.2 Installation

Install `django-webp-converter` with `pip`:

```
$ pip install django-webp-converter
```

Add `webp_converter` to your `INSTALLED_APPS` in `settings.py`:

```
INSTALLED_APPS = (
    ...,
    'webp_converter',
)
```

Add the `webp_support` context processor to your list of context processors:

```
'context_processors': [
    ...,
    'webp_converter.context_processors.webp_support',
]
```

Run `./manage.py migrate` to add the required tables to the database.

You will also need to configure django to serve locally stored files by configuring the `MEDIA_URL` and `MEDIA_ROOT` settings in your project's `settings.py` file.

For example:

```
MEDIA_URL = '/media/'

MEDIA_ROOT = os.path.join(BASE_DIR, 'media')
```

You'll probably also want to ensure that these files will be [served during development](#).

2.2 Usage

2.2.1 Showing WebP images

Load the `webp_converter` template tag in your template:

```
{% load webp_converter %}
```

Replace usage of the `static` tag with the `static_webp` tag. For example:

```

```

The user will be shown a WebP version of the image if their browser supports it (currently Chrome & Opera). Otherwise, they will be shown the original static file.

You can also specify the quality of the WebP image. For example:

```

```

2.2.2 Clearing the cache

Clear the cache and delete the WebP images folder by running the `manage.py` command:

```
./manage.py clear_webp_cache
```

By default this will display a confirmation prompt. If you would like to clear the cache without receiving any prompts, you can run:

```
./manage.py clear_webp_cache --no-input
```

2.3 Settings

2.3.1 WEBP_DIRECTORY

Default: `WEBP`

The name of the directory where WebP images are stored.

2.3.2 WEBP_CACHE_PREFIX

Default: `webp_converter`

The key prefix prepended to all cache keys.

2.4 Changelog

2.4.1 0.2.1 (2019-12-07)

- Remove duplicate deletion of WebP folder in the *clear_webp_cache* command.

2.4.2 0.2.0 (2019-12-04)

- Switch to MIT license
- Fix bug where duplicate WebPImage models could be created due to the non-uniqueness of nullable fields (<https://github.com/tmiller02/django-webp-converter/issues/1>).
- Change the default behaviour of the 'clear_webp_cache' command to prompt for user confirmation before deleting the WebP image folder.
- Restructure project to split the webp_converter app out of the sample project
- Regenerate sample project using Django 3.0.