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# **django-webp-converter Documentation**

***Release 0.2.1***

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# CHAPTER 1

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## Introduction

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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

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**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.

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### 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](#).

This project also makes use of [Django's cache framework](#) to avoid making repeated requests to the database. You should ensure that you have set up caching via the `CACHES` setting to achieve optimal performance.

## 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 0.3.0 (2020-04-21)

- Use the `default_storage.save` and `default_storage.delete` methods when saving and deleting images.
- Add check for whether a WebP image already exists before attempting to save the WebP image again following a cache miss.

### 2.4.2 0.2.1 (2019-12-07)

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

### 2.4.3 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.