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# **django-dummy-thumbnails Documentation**

***Release 0.2.4***

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Dummy thumbnails for *most popular* Django thumbnail generators.

There are times when you have a database of a Django site and you need to quickly start it up to fix/develop, but then you realise that images are missing and you need to have images, because either your layout is broken or, in the worst case, entire site is broken (500). This library has been written for developers in order to avoid above mentioned problems in the shortest way possible, with least efforts possible.





# CHAPTER 1

---

## Prerequisites

---

- Django 1.8, 1.9, 1.10, 1.11, 2.0, 2.1, 2.2
- Python 2.7, 3.5, 3.6, 3.7

Although `django-dummy-thumbnails` is not being tested against older versions of Django, tests do pass with Django versions 1.5, 1.6 and 1.7.



## CHAPTER 2

---

### Installation

---

- (1) Install in your virtual environment

Latest stable version from PyPI:

```
pip install django-dummy-thumbnails
```

or latest stable version from GitHub:

```
pip install https://github.com/barseghyanartur/django-dummy-thumbnails/archive/  
↪stable.tar.gz
```

or latest stable version from BitBucket:

```
pip install https://bitbucket.org/barseghyanartur/django-dummy-thumbnails/get/  
↪stable.tar.gz
```

- (2) Add `dummy_thumbnails` to your `INSTALLED_APPS` in the global `settings.py`.

```
INSTALLED_APPS = (  
    # ...  
    'dummy_thumbnails',  
    # ...  
)
```

- (3) Collect the statics:

```
./manage.py collectstatic --noinput
```

- (4) Specify a custom path to your images directory in settings:

```
DUMMY_THUMBNAILS_IMAGES_PATH = '/home/path/to/images/'
```

This should be a directory inside your media directory of your Django project. Otherwise Django would raise a `SuspiciousOperation` exception. In order not to duplicate tons of files for each project, you are advised to create symlinks to the images directory in the media directory of your Django project.

```
ln -s /home/path/to/images /home/repos/your-django-project/media
```

If you prefer to use included [public domain images](#), run the following management command:

```
./manage.py dummy_thumbnails_symlink_dummy_images
```

And specify the following path in settings:

```
DUMMY_THUMBNAILS_IMAGES_PATH = os.path.join(MEDIA_ROOT, 'mixed')
```

Common usage examples.

### 3.1 Replace broken images with dummy ones

That's what it's all about - replacing the broken images with dummy ones.

---

**Note:** You should **never** use this in production. All the changes mentioned above and below are supposed to be applied to **development** settings only.

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#### 3.1.1 Supported thumbnailers

Most popular image thumbnailers for Django ([django-imagekit](#), [sorl-thumbnail](#) and [easy-thumbnails](#)) are supported. If you can't find your favourite thumbnailer, open an issue or consider making a pull request.

##### 3.1.1.1 django-imagekit

Integration with [django-imagekit](#).

Modify your settings in the following way:

- (1) Add `imagekit`, `dummy_thumbnails` and `dummy_thumbnails.contrib.thumbnailers.django_imagekit.generatorlibrary` to the `INSTALLED_APPS`:

```
INSTALLED_APPS = [  
    # ...  
    'imagekit',  
    'dummy_thumbnails',  
    'dummy_thumbnails.contrib.thumbnailers.django_imagekit.generatorlibrary',  
]
```

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```
# ...  
]
```

- (2) Collect the statics:

```
./manage.py collectstatic --noinput
```

- (3) Specify a custom path to your images directory in settings:

```
DUMMY_THUMBNAILS_IMAGES_PATH = os.path.join(MEDIA_ROOT, 'mixed')
```

- (4) If you are using the included public domain images, don't forget to create a symlink:

```
./manage.py dummy_thumbnails_symlink_dummy_images
```

- (5) Now the following would work:

```
{% load imagekit %}  
  
{% thumbnail '640x480' 'None1' %}  
{% thumbnail '480x640' 'None2' %}  
{% thumbnail '200x200' 'None3' %}
```

### 3.1.1.2 sorl-thumbnail

Integration with [sorl-thumbnail](#).

Modify your settings in the following way:

- (1) Add `sorl.thumbnail` and `dummy_thumbnails` to the `INSTALLED_APPS`:

```
INSTALLED_APPS = [  
    # ...  
    'sorl.thumbnail',  
    'dummy_thumbnails',  
    # ...  
]
```

- (2) Set the dummy thumbnail engine as `THUMBNAIL_ENGINE`:

```
THUMBNAIL_ENGINE = 'dummy_thumbnails.contrib.thumbnailers.sorl_thumbnail.engines.  
↳dummy_engine.DummyThumbnailsEngine'
```

- (3) Collect the statics:

```
./manage.py collectstatic --noinput
```

- (4) Specify a custom path to your images directory in settings:

```
DUMMY_THUMBNAILS_IMAGES_PATH = os.path.join(MEDIA_ROOT, 'mixed')
```

- (5) If you are using the included public domain images, don't forget create a symlink:

```
./manage.py dummy_thumbnails_symlink_dummy_images
```

- (6) Now the following would work:

```
{% load thumbnail %}

{% thumbnail 'None1' "640x480" crop="center" as im %}
  
{% endthumbnail %}

{% thumbnail 'None2' "480x640" crop="center" as im %}
  
{% endthumbnail %}

{% thumbnail 'None3' "200x200" crop="center" as im %}
  
{% endthumbnail %}
```

### 3.1.1.3 easy-thumbnails

Integration with [easy-thumbnails](#).

Modify your settings in the following way:

- (1) Add `easy_thumbnails` and `dummy_thumbnails` to the `INSTALLED_APPS`:

```
INSTALLED_APPS = [
    # ...
    'easy_thumbnails',
    'dummy_thumbnails',
    # ...
]
```

- (2) Add dummy thumbnail generator to `THUMBNAIL_SOURCE_GENERATORS`:

```
THUMBNAIL_SOURCE_GENERATORS = (
    'dummy_thumbnails.contrib.thumbnailers.easy_thumbnails.source_generators.'
    '↔dummy_thumbnail',
)
```

- (3) Collect the statics:

```
./manage.py collectstatic --noinput
```

- (4) Specify a custom path to your images directory in settings:

```
DUMMY_THUMBNAILS_IMAGES_PATH = os.path.join(MEDIA_ROOT, 'mixed')
```

- (5) If you are using the included public domain images, don't forget to create a symlink:

```
./manage.py dummy_thumbnails_symlink_dummy_images
```

- (6) Now the following would work:

```
{% load thumbnail %}




```





---

### Dealing with broken or invalid dummy images

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Of course, it's always better to have a good working set of dummy images. However, it might happen that for some reason one of your dummy images is broken.

The recommended approach is to use a management command `dummy_thumbnails_verify_dummy_images`, which has been written in order to verify the dummy images and identify possible problems. It also lets you remove broken/invalid dummy images.

To remove broken/invalid dummy images with confirmation, type:

```
./manage.py dummy_thumbnails_verify_dummy_images
```

To remove broken/invalid dummy images without confirmation, type:

```
./manage.py dummy_thumbnails_verify_dummy_images --noinput
```

To just list broken/invalid dummy images without removal, type:

```
./manage.py dummy_thumbnails_verify_dummy_images --list
```

Another way to avoid failures is to set the value of `DUMMY_THUMBNAILS_VERIFY_IMAGES` to `True` in your project settings. Beware, that this slows down the start up time of your Django project, although does not slow down further rendering of the images.



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## Importing images from feed

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Imports images from feeds, that support enclosures.

### 5.1 Installation

Add `dummy_thumbnails.contrib.image_importers.feed` to your `INSTALLED_APPS` in the global `settings.py`.

```
INSTALLED_APPS = (  
    # ...  
    'dummy_thumbnails.contrib.image_importers.feed',  
    # ...  
)
```

### 5.2 Usage

To import 50 dummy images from Flickr [commercialphotos](#) feed, type:

```
./manage.py dummy_thumbnails_import_from_feed
```

You can provide a custom feed URL and the number of dummy images to import. To import 100 images from Flickr [nationalgeographic](#) group, type:

```
./manage.py dummy_thumbnails_import_from_feed \  
    "https://api.flickr.com/services/feeds/groups_pool.gne?id=36256495@N00" \  
    --limit=100
```

## 5.3 Configuration

As you have seen, syntax allows to read images from any feed (that supports enclosures). In your project, you might want to make it easy for developers, so that they don't have to type the feed URL. Therefore a setting `DUMMY_THUMBNAILS_FEED_DEFAULT_FEED_URL` has been introduced. It defaults to the URL of the [commercialphotos](#) group of the Flickr.

```
DUMMY_THUMBNAILS_FEED_DEFAULT_FEED_URL = "https://api.flickr.com/" \
                                           "services/feeds/groups_pool.gne" \
                                           "?id=36256495@N00"
```

## 6.1 Run demo locally

In order to be able to quickly evaluate the *django-dummy-thumbnails*, a demo app (with a quick installer) has been created (works on Ubuntu/Debian, may work on other Linux systems as well, although not guaranteed). Follow the instructions below to have the demo running within a minute.

Grab the latest `dummy_thumbnails_demo_installer.sh`:

```
wget -O - https://raw.githubusercontent.com/barseghyanartur/django-dummy-thumbnails/stable/  
→examples/dummy_thumbnails_demo_installer.sh | bash
```

Open your browser and test the app.

- URL: <http://127.0.0.1:8001/>

If quick installer doesn't work for you, see the manual steps on running the [example project](#).



## CHAPTER 7

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### Testing

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Simply type:

```
./runtests.py
```

or use tox:

```
tox
```

or use tox to check specific env:

```
tox -e py37
```

or run Django tests:

```
./manage.py test dummy_thumbnails --settings=settings.testing
```





## CHAPTER 8

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### License

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GPL-2.0-only OR LGPL-2.1-or-later



## CHAPTER 9

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### Support

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For any issues contact me at the e-mail given in the *Author* section.



## CHAPTER 10

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Author

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## 11.1 Release history and notes

Sequence based identifiers are used for versioning (schema follows below):

```
major.minor[.revision]
```

- It's always safe to upgrade within the same minor version (for example, from 0.3 to 0.3.4).
- Minor version changes might be backwards incompatible. Read the release notes carefully before upgrading (for example, when upgrading from 0.3.4 to 0.4).
- All backwards incompatible changes are mentioned in this document.

### 11.1.1 0.2.4

2019-06-04

- Tested against Python 3.6.
- Tested against Django 2.1 and 2.2.
- Dropped Python 3.4 support.

### 11.1.2 0.2.3

2017-01-08

- Example project upgraded to work with Django 2.0.
- Year change in copyright and licenses.

### 11.1.3 0.2.2

2017-04-13

- Tested against Django 1.11 release.

### 11.1.4 0.2.1

2017-02-21

- Tested against Python 3.6 and Django 1.11.



### 11.1.5 0.2

2017-01-30

- Added a feature to import dummy images from feed.

### 11.1.6 0.1.10

2017-01-26

- Added a `--list` option to the management command `dummy_thumbnails_verify_dummy_images`.

### 11.1.7 0.1.9

2017-01-26

- Minor fixes.

### 11.1.8 0.1.8

2017-01-25

- Minor fixes.

### 11.1.9 0.1.7

2017-01-25

- Minor fixes. Skip sub directories when listing files in `base.get_random_image`.
- Make it possible to detect and remove broken dummy images.

### 11.1.10 0.1.6

2016-12-23

- Minor fixes in tests against Django 1.8.
- Minor code cleanup.

### 11.1.11 0.1.5

2016-12-19

- Minor fixes in tests.

### 11.1.12 0.1.4

2016-12-17

- Minor fixes in tests.

### 11.1.13 0.1.3

2016-12-16

- Minor fixes/improvements.
- Added `django-imagekit` support.

### 11.1.14 0.1.2

2016-12-15

- Minor fixes in docs and tests.
- Installable demo script added.

### 11.1.15 0.1.1

2016-12-15

- Include forgotten images (fix in manifest) in the PyPI release.

### 11.1.16 0.1

2016-12-14

- Initial release.

## 11.2 dummy\_thumbnails package

### 11.2.1 Subpackages

#### 11.2.1.1 dummy\_thumbnails.contrib package

##### 11.2.1.1.1 Subpackages

##### 11.2.1.1.1.1 dummy\_thumbnails.contrib.image\_importers package

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##### 11.2.1.1.1.10 Module contents

##### 11.2.1.1.1.11 Module contents

##### 11.2.1.1.1.12 Submodules

##### 11.2.1.1.1.13 dummy\_thumbnails.contrib.image\_importers.feed.apps module

Apps.

```
class dummy_thumbnails.contrib.image_importers.feed.apps.Config(app_name,  
                                                             app_module)
```

```
    Bases: django.apps.config.AppConfig
```

```
    Config.
```

```
    label = 'dummy_thumbnails_contrib_image_importers_feed'
```

```
    name = 'dummy_thumbnails.contrib.image_importers.feed'
```

#### 11.2.1.1.1.14 dummy\_thumbnails.contrib.image\_importers.feed.conf module

Conf module.

- `get_setting`: Get app setting.

`dummy_thumbnails.contrib.image_importers.feed.conf.get_setting(setting, override=None)`

Get setting.

Get a setting from `dummy_thumbnails.conf` module, falling back to the default.

If `override` is not `None`, it will be used instead of the setting.

##### Parameters

- **setting** – String with setting name
- **override** – Value to use when no setting is available. Defaults to `None`.

**Returns** Setting value.

#### 11.2.1.1.1.15 dummy\_thumbnails.contrib.image\_importers.feed.defaults module

Defaults module.

- `DEFAULT_FEED_URL`: URL of the default feed.

#### 11.2.1.1.1.16 dummy\_thumbnails.contrib.image\_importers.feed.reader module

`dummy_thumbnails.contrib.image_importers.feed.reader.obtain_image(image_source="", save_to="", media_url="", force_update=False, expiration_interval=None, debug=False)`

Get an image from absolute url and saves it locally.

Check whether image already exists in local directory and only if not - try to download it and save it. Validate validity of the image (rely on PIL Image class validation).

##### Parameters

- **image\_source** (*str*) –
- **save\_to** (*str*) –
- **media\_url** (*str*) –
- **force\_update** (*bool*) –
- **expiration\_interval** (*int*) – Expiration interval in seconds.
- **debug** (*bool*) –

**Return list** (`relative_url_of_the_image`, `original_image_width`, `original_image_height`)

#### 11.2.1.1.1.17 `dummy_thumbnails.contrib.image_importers.feed.settings` module

Settings module.

- `DEFAULT_FEED_URL`: URL of the default feed.

#### 11.2.1.1.1.18 Module contents

Feed image importer for `django-dummy-thumbnails`. Imports photos from feeds, that support enclosures.

- `default_app_config`: Default Django app config.



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11.2.1.1.2 Module contents

11.2.1.2 `dummy_thumbnails.management` package

11.2.1.2.1 Subpackages

11.2.1.2.1.1 `dummy_thumbnails.management.commands` package

11.2.1.2.1.2 Submodules

11.2.1.2.1.2.1 `dummy_thumbnails` package

11.2.1.2.1.3 `dummy_thumbnails.management.commands.dummy_thumbnails_symlink_dummy_images` module

- Command: Management command. Prepare the dirs and create symlinks for testing purposes.

```
class dummy_thumbnails.management.commands.dummy_thumbnails_symlink_dummy_images.Command(st  
st  
no  
fo  
  
    Bases: django.core.management.base.BaseCommand  
    Prepare dirs and symlinks.  
    handle (*args, **options)  
        Handle.  
    help = 'Prepare dirs and make symlinks to dummy images'
```

### 11.2.1.2.1.4 dummy\_thumbnails.management.commands.dummy\_thumbnails\_verify\_dummy\_images module

#### 11.2.1.2.1.5 Module contents

#### 11.2.1.2.2 Module contents

### 11.2.1.3 dummy\_thumbnails.tests package

#### 11.2.1.3.1 Submodules

#### 11.2.1.3.2 dummy\_thumbnails.tests.base module

Base tests module.

- `log_info`: Method decorator, logs info about the method (name, return value).
- `LOG_INFO`: Flag.
- `app_setup`: Setup the app.
- `skip`: Method decorator. If used, tests is skipped.
- `is_app_setup_completed`: Check if app setup has been completed.
- `mark_app_setup_as_completed`: Mark the app setup as completed.

```
dummy_thumbnails.tests.base.log_info (func)  
    Log some useful info.
```

```
dummy_thumbnails.tests.base.skip (func)  
    Simply skip the test.
```

```
dummy_thumbnails.tests.base.is_app_setup_completed()  
    Check if app setup is completed.
```

```
dummy_thumbnails.tests.base.mark_app_setup_as_completed()  
    Mark app setup as completed.
```

#### 11.2.1.3.3 dummy\_thumbnails.tests.helpers module

Base tests module.



- `setup_app`: Setup the app, collect the static, mark app setup as completed.

`dummy_thumbnails.tests.helpers.setup_app(collectstatic=False)`  
Set up it next.

#### 11.2.1.3.4 `dummy_thumbnails.tests.test_core` module

#### 11.2.1.3.5 Module contents

### 11.2.2 Submodules

#### 11.2.3 `dummy_thumbnails.apps` module

Apps.

```
class dummy_thumbnails.apps.Config(app_name, app_module)
    Bases: django.apps.config AppConfig
    Config.
    label = 'dummy_thumbnails'
    name = 'dummy_thumbnails'
```

#### 11.2.4 `dummy_thumbnails.base` module

#### 11.2.5 `dummy_thumbnails.conf` module

Conf module.

- `get_setting`: Get app setting.

`dummy_thumbnails.conf.get_setting(setting, override=None)`  
Get setting.

Get a setting from `dummy_thumbnails.conf` module, falling back to the default.

If `override` is not `None`, it will be used instead of the setting.

##### Parameters

- **setting** – String with setting name
- **override** – Value to use when no setting is available. Defaults to `None`.

**Returns** Setting value.

#### 11.2.6 `dummy_thumbnails.defaults` module

Defaults module.

- `IMAGES_PATH`: Path to random images.
- `VERIFY_IMAGES`: If set to `True`, images are verified.

### 11.2.7 dummy\_thumbnails.helpers module

Helpers module.

- `prepare_dirs_and_symlinks`: Prepare dirs and symlinks.

`dummy_thumbnails.helpers.prepare_dirs_and_symlinks` (*create\_dirs=False*)

Prepare dirs and symlinks.

**Parameters** `create_dirs` (*bool*) – If set to True, dirs are created.

### 11.2.8 dummy\_thumbnails.settings module

Settings module.

- `IMAGES_PATH`: Path to random images.
- `VERIFY_IMAGES`: If set to True, images are verified.

### 11.2.9 Module contents

Dummy thumbnails for most popular Django thumbnail generators.

- `default_app_config`: Default Django app config.

## CHAPTER 12

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