
Django Perseus Documentation

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Builds a static version of your Django website.

Why would I need this?

Let's say your webhost can only serve static files, then this package can statically generate your Django website and you can upload the result to your webhost.

Downsides

On a static website some restrictions apply:

- No conditions in template. `{% if %}` `{% else %}` blocks will not be very effective.
- No user input. No forms or dynamic pages.

Credits

This project is based on the Django Medusa app which allows to render a Django website statically Thanks Mike Tigas for your work :)

- [Django Medusa on Github](#)

4.1 Installation

- Install Django Perseus:

```
pip install django-perseus
```

- Add 'django_perseus' to your INSTALLED_APPS setting:

```
INSTALLED_APPS = (  
    # ...  
    "django_perseus",  
)
```

4.2 Usage

Django Perseus consists of few modules working together to successfully render a static html site.

- **Template tags** They overwrite Django's builtin url and static tags to rewrite them statically.
- **Renderer** Selects views and renders them as static pages.
- **Importer** Imports a selection of static and media files to the output directory of the renderer.

4.2.1 Renderer

Django Perseus will look for renderers.py file in your Django apps.

You can subclass the `BaseRenderer` to create a custom renderer, or use the `DefaultRenderer` to render your Django website with the default behaviour.

```
from django_perseus.renderers.default import DefaultRenderer
```

```
class AppRenderer(DefaultRenderer):
```

```
    def paths(self):  
        return [  
            reverse('index'),  
            reverse('privacy'),  
            reverse('app:index'),
```

```
reverse('app:settings'),
reverse('app:detail', kwargs={'pk': 1}),
reverse('app:archive', kwargs={'year': 2014, 'week': 52}),
]
```

```
renderers = [AppRenderer, ]
```

The output of the example will be: .. code-block:: python

```
output_dir/index.html output_dir/privacy.html output_dir/app.html output_dir/app/settings.html out-
put_dir/app/detail/1.html output_dir/app/archive/2014/52.html
```

4.2.2 Importer

You can subclass `BaseImporter` to import files from specific locations in your Django app to a target directory

Your static website will need a selection of media and static files.

The `BaseImporter` accepts the following class attributes:

- `target_dir` (Django setting) the target directory where the files will be copied to.
- `source_dir` (Django setting) the source directory where the files will be copied from.
- `sub_dirs` (List) subdirectories or files to be imported.

Example media files importer:

```
class MediaImporter(BaseImporter):

    target_dir = 'PERSEUS_SOURCE_DIR'
    source_dir = 'MEDIA_ROOT'
    sub_dirs = [
        '*',
    ]
```

Example static files importer:

```
class StaticImporter(BaseImporter):

    target_dir = 'PERSEUS_SOURCE_DIR'
    source_dir = 'STATIC_ROOT'
    sub_dirs = [
        'css',
        'img',
        'js/build',
        'robots.txt',
    ]
```

Register the importer subclass in your perseus settings file:

```
PERSEUS_IMPORTERS = [
    'yourproject.app.importers.MediaImporter',
    'yourproject.app.importers.StaticImporter',
]
```

4.2.3 Template tags

The tags rewrite paths when the `render` management command is run with a settings file containing the setting: `RENDER_STATIC = True`

Load the tags in your templates as:

```
{% load django_perseus_tags %}
```

4.2.4 Management command

The `render` management command will run all renderers found in your Django apps and run the file importers.

```
./manage.py render --settings=yourproject.conf.perseus_settings.py
```

To also output the result in a zip archive, run as:

```
./manage.py render --archive --settings=yourproject.conf.perseus_settings.py
```

```
./manage.py render --archive --filename filename.zip --settings=yourproject.conf.perseus_settings.py
```

4.2.5 Settings

- **RENDER_STATIC** A boolean whether the url and static tags will be rewritten to static paths.
- **PERSEUS_SOURCE_DIR** renderer output folder
- **PERSEUS_BUILD_DIR** output dir if render management command runs with `--archive` option
- **PERSEUS_IMPORTERS** A list where Importers are to be found.

```
PERSEUS_IMPORTERS = [  
    'yourproject.app.importers.MediaImporter',  
    'yourproject.app.importers.StaticImporter',  
]
```

Indices and tables

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