django-embed-video Documentation

Release 0.6.dev

Juda Kaleta

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CONTENTS

Django app for easy embeding YouTube and Vimeo videos and music from SoundCloud.

Repository is located on GitHub: https://github.com/yetty/django-embed-video

CHAPTER

ONE

INSTALLATION & SETUP

1.1 Installation

Use pip to install package:

```
pip install django-embed-video
```

If you want latest version, you may use Git. It is fresh, but unstable.

```
pip install git+https://github.com/yetty/django-embed-video.git
```

1.2 Setup

Add `embed_video` to `INSTALLED_APPS` in your Django settings.

```
INSTALLED_APPS = (
    ...

    'embed_video',
)
```

CHAPTER

TWO

EXAMPLES

2.1 Template examples

First you have to load the *embed_video_tags* template tags in your template:

```
{% load embed_video_tags %}
```

Simple embeding of video:

```
{% video item.video as my_video %}
    {{ my_video|embed:'small' }}
{% endvideo %}
```

Default sizes are `tiny` (420x315), `small` (480x360), `medium` (640x480), `large` (960x720) and `huge` (1280x960). You can set your own size:

```
{{ my_video|embed:'800x600' }}
```

Usage of variables:

```
{% video item.video as my_video %}
    URL: {{ my_video.url }}
    Thumbnail: {{ my_video.thumbnail }}
    Backend: {{ my_video.backend }}
{% endvideo %}
```

There is a simplier way, if you don't need work with parameters as `my_video.url` or `my_video.thumbnail` and you want to use just `embed` tag.

```
{{ 'http://www.youtube.com/watch?v=guXyvo2FfLs'|embed:'large' }}
```

Note: We recommend to use sorl-thumbnail to change thumbnail size.

2.2 Model examples

Using the EmbedVideoField provides you validation of URLs.

```
from django.db import models
from embed_video.fields import EmbedVideoField
```

```
class Item(models.Model):
    video = EmbedVideoField()  # same like models.URLField()
```

2.3 Admin examples

Todo

Admin mixins are on TODO list. Be patient or send *pull request* :).

2.4 Custom backends

If you have specific needs and default backends don't suits you, you can write your custom backend.

`my_project/my_app/backends.py`:

```
from embed_video.backends import VideoBackend

class CustomBackend(VideoBackend):
    re_detect = re.compile(r'http://myvideo\.com/[0-9]+')
    re_code = re.compile(r'http://myvideo\.com/(?P<code>[0-9]+)')

    pattern_url = 'http://play.myvideo.com/c/%s/'
    pattern_thumbnail_url = 'http://thumb.myvideo.com/c/%s/'
```

You can also overwrite `VideoBackend` methods, if using regular expressions isn't good enough for you.

`my_project/my_project/settings.py`:

```
EMBED_VIDEO_BACKENDS = (
    'embed_video.backends.YoutubeBackend',
    'embed_video.backends.VimeoBackend',
    'embed_video.backends.SoundCloudBackend',
    'my_app.backends.CustomBackend',
)
```

2.5 Low level API examples

You can get instance of `VideoBackend` in your python code thanks to `detect_backend()`:

```
from embed_video.backends import detect_backend

my_video = detect_backend('http://www.youtube.com/watch?v=H4tAOexHdR4')
```

CHAPTER

THREE

EXAMPLE PROJECT

For easy start with using django-embed-video, you can take a look at example project. It is located in example_project directory in root of repositary.

3.1 How to run it?

1. Install Django:

   ```
   pip install Django
   ```

2. Create database (you can create admin account):

   ```
   python manage.py syncdb
   ```

3. Run testing server:

   ```
   python manage.py runserver
   ```

4. Take a look at http://localhost:8000

CHAPTER

FOUR

DEVELOPMENT

4.1 Contributing

I will be really pleased if you will provide patch to this Django app. Feel free in changing source code, but please keep PEP8 rules and Zen.

It is a good habit to cover your patches with *tests*.

Our repository is placed on this URL: https://github.com/yetty/django-embed-video

4.2 Testing

4.2.1 Requirements

You need `nose`, `mock` and `south` libraries to run tests.

```
pip install nose
pip install mock
pip install south
```

4.2.2 Running tests

Run tests with this command:

```
nosetests
```

Be sure to run it before each commit and fix broken tests.

Run tests with coverage:

```
nosetests --with-coverage --cover-package=embed_video
```

4.3 Changelog

4.3.1 Release 0.5 (Sep. 03, 2013)

- Added Vimeo thumbnails support

- Added caching of results
- Added example project
- Fixed template tag embed
- Fixed raising UnknownIdException in YouTube detecting.

4.3.2 Release 0.4 (Aug. 22, 2013)

- Documentation was rewrited and moved to http://django-embed-video.rtfd.org/ .
- Custom backends (http://django-embed-video.rtfd.org/en/latest/examples.html#custom-backends).
- Improved YouTube and Vimeo regex.
- Support for Python 3.
- Renamed `base` to `backends`.

4.3.3 Release 0.3 (Aug. 20, 2013)

- Security fix: faked urls are treated as invalid. See this page for more details.
- Fixes:
  - allow of empty video field.
  - requirements in setup.py
- Added simplier way to embed video in one-line template tag:

  ```
  {{ 'http://www.youtube.com/watch?v=guXyvo2FfLs'|embed:'large' }}
  ```

- `backend` variable in `video` template tag.

  Usage:

  ```
  {% video item.video as my_video %}
      Backend: {{ my_video.backend }}
  {% endvideo %}
  ```

4.3.4 Release 0.2 (June 25, 2013)

- Support of SoundCloud

4.3.5 Release 0.1 (June 1, 2013)

- Initial release

4.4 TODOs list

- provide AdminEmbedVideoMixin

Todo

Admin mixins are on TODO list. Be patient or send *pull request* :).

(The *original entry* is located in /var/build/user_builds/django-embed-video/checkouts/v0.5/docs/examples.rst, line 79.)

CHAPTER

FIVE

WEBSITES USING DJANGO-EMBED-VIDEO

- Tchorici.cz (sources)

Are you using django-embed-video? Send pull request!

CHAPTER

SIX

API

6.1 API reference

6.1.1 Backends

class `embed_video.backends.`**`SoundCloudBackend`**(*url*)

Backend for SoundCloud URLs.

class `embed_video.backends.`**`VideoBackend`**(*url*)

Base backend, good to inherit.

`get_code`()

Returns searched code from URL by `re_code`.

`get_thumbnail_url`()

Returns thumbnail URL folded from `pattern_thumbnail_url` and parsed code.

`get_url`()

Returns URL folded from `pattern_url` and parsed code.

`init`(*url*)

Load all data (`get_code()`, `get_url()` etc.)

classmethod `is_valid`(*klass*, *url*)

Class method to control if passed url is valid for current backend. By default it is done by `re_detect` regex.

`pattern_thumbnail_url` = **None**

Pattern in which the code is inserted to get thumbnail url.

Example: `http://static.myvideo.com/thumbs/%s`

`pattern_url` = **None**

Pattern in which the code is inserted.

Example: `http://myvideo.com?code=%s`

`re_code` = **None**

Compiled regex (`re.compile()`) to search code in URL.

Example: `re.compile(r'myvideo\.com/\?code=(?P<code>\w+)')`

`re_detect` = **None**

Compilede regec (`re.compile()`) to detect, if input URL is valid for current backend.

Example: `re.compile(r'^http://myvideo\.com/.*')`

class `embed_video.backends.`**`VimeoBackend`**(*url*)
Backend for Vimeo URLs.

class `embed_video.backends.`**`YoutubeBackend`**(*url*)
Backend for YouTube URLs.

`embed_video.backends.`**`detect_backend`**(*url*)
Detect the right backend for given URL.

6.1.2 Fields

class `embed_video.fields.`**`EmbedVideoField`**(*verbose_name=None*, *name=None*, ***kwargs*)
Model field for embeded video. Descendant of `django.db.models.URLField`.

class `embed_video.fields.`**`EmbedVideoFormField`**(*max_length=None*, *min_length=None*, **args*, ***kwargs*)
Form field for embeded video. Descendant of `django.forms.URLField`

6.1.3 Settings

EMBED_VIDEO_BACKENDS

List of backends to use.

Default:

```
EMBED_VIDEO_BACKENDS = (
    'embed_video.backends.YoutubeBackend',
    'embed_video.backends.VimeoBackend',
    'embed_video.backends.SoundCloudBackend',
)
```

EMBED_VIDEO_CACHE

Allows to cache backends data in cache

Default: `True`

EMBED_VIDEO_CACHE_TIMEOUT

To set how long backends data stay in the cache.

Default: `3600`

6.1.4 Template tags

You have to load template tag library first.

```
{% load embed_video_tags %}
```

class `embed_video.templatetags.embed_video_tags.`**`VideoNode`**(*parser*, *token*)
Template tag `video`. It gives access to all `VideoBackend` variables.

Usage:

```
{% video URL as VAR %}
    ...
{% endvideo %}
```

Example:

```
{% video item.video as my_video %}
    URL: {{ my_video.url }}
    Thumbnail: {{ my_video.thumbnail }}
    Backend: {{ my_video.backend }}
{% endvideo %}
```

`embed_video.templatetags.embed_video_tags.`**`embed`**(*backend*, *size='small'*)

Shortcut for `VideoNode()` tag.

Usage:

```
{{ URL|embed:SIZE }}
```

Example:

```
{{ 'http://www.youtube.com/watch?v=guXyvo2FfLs'|embed:'large' }}
```

Predefined sizes:

size	width	height
tiny	420	315
small	480	360
medium	640	480
large	960	720
huge	1280	960

You can also use custom size - in format `WIDTHxHEIGHT` (eg. `500x400`).

6.1.5 Utils

`embed_video.utils.`**`import_by_path`**(*dotted_path*, *error_prefix=''*)

Import a dotted module path and return the attribute/class designated by the last name in the path. Raise ImproperlyConfigured if something goes wrong.

> **Warning:** Deprecated since version Django: 1.6 Function `django.utils.module_loading.import_by_path()` has been added in Django 1.6.

CHAPTER

SEVEN

INDICES AND TABLES

- *genindex*
- *modindex*
- *search*

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