Django Compressor Documentation Release 2.1.1

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Compresses linked and inline JavaScript or CSS into a single cached file.

CHAPTER 1

Why another static file combiner for Django?

Short version: None of them did exactly what I needed.

Long version:

- JS/CSS belong in the templates Every static combiner for Django I've seen makes you configure your static files in your settings.py. While that works, it doesn't make sense. Static files are for display. And it's not even an option if your settings are in completely different repositories and use different deploy processes from the templates that depend on them.
- **Flexibility** Django Compressor doesn't care if different pages use different combinations of statics. It doesn't care if you use inline scripts or styles. It doesn't get in the way.
- Automatic regeneration and cache-foreverable generated output Statics are never stale and browsers can be told to cache the output forever.

Full test suite I has one.

CHAPTER 2

Contents

2.1 Quickstart

2.1.1 Installation

• Install Django Compressor with your favorite Python package manager:

pip install django_compressor

• Add 'compressor' to your INSTALLED_APPS setting:

```
INSTALLED_APPS = (
    # other apps
    "compressor",
)
```

• See the list of Settings to modify Django Compressor's default behaviour and make adjustments for your website.

• In case you use Django's staticfiles contrib app you have to add Django Compressor's file finder to the STATICFILES_FINDERS setting, like this:

```
STATICFILES_FINDERS = (
    'django.contrib.staticfiles.finders.FileSystemFinder',
    'django.contrib.staticfiles.finders.AppDirectoriesFinder',
    # other finders..
    'compressor.finders.CompressorFinder',
)
```

• Define *COMPRESS_ROOT* in settings if you don't have already STATIC_ROOT or if you want it in a different folder.

2.1.2 Optional Dependencies

• BeautifulSoup

For the *parser* compressor.parser.BeautifulSoupParser and compressor.parser. LxmlParser:

pip install beautifulsoup4

• lxml

For the *parser* compressor.parser.LxmlParser, also requires libxml2:

STATIC_DEPS=true pip install lxml

• html5lib

For the parser compressor.parser.Html5LibParser:

```
pip install html5lib
```

• Slim It

For the *Slim It filter* compressor.filters.jsmin.SlimItFilter:

pip install slimit

'csscompressor'_

For the csscompressor filter compressor.filters.cssmin.CSSCompressorFilter:

```
pip install csscompressor
```

2.2 Usage

```
{% load compress %}
{% compress <js/css> [<file/inline> [block_name]] %}
<html of inline or linked JS/CSS>
{% endcompress %}
```

2.2.1 Examples

```
{* load compress %}
{* compress css %}
<link rel="stylesheet" href="/static/css/one.css" type="text/css" charset="utf-8">
<style type="text/css">p { border:5px solid green; }</style>
<link rel="stylesheet" href="/static/css/two.css" type="text/css" charset="utf-8">
{* endcompress %}
```

Which would be rendered something like:

or:

```
{% load compress %}
{% compress js %}
<script src="/static/js/one.js" type="text/javascript" charset="utf-8"></script>
<script type="text/javascript" charset="utf-8">obj.value = "value";</script>
{% endcompress %}
```

Which would be rendered something like:

Note: Remember that django-compressor will try to group outputs by media.

Linked files must be accessible via COMPRESS_URL.

If the *COMPRESS_ENABLED* setting is False (defaults to the opposite of DEBUG) the compress template tag does nothing and simply returns exactly what it was given.

Note: If you've configured any *precompilers* setting *COMPRESS_ENABLED* to False won't affect the processing of those files. Only the *CSS* and *JavaScript* filters will be disabled.

If both DEBUG and *COMPRESS_ENABLED* are set to True, incompressible files (off-site or non existent) will throw an exception. If DEBUG is False these files will be silently stripped.

Warning: For production sites it is **strongly recommended** to use a real cache backend such as memcached to speed up the checks of compressed files. Make sure you set your Django cache backend appropriately (also see *COMPRESS_CACHE_BACKEND* and Django's caching documentation).

The compress template tag supports a second argument specifying the output mode and defaults to saving the result in a file. Alternatively you can pass 'inline' to the template tag to return the content directly to the rendered page, e.g.:

```
{% load compress %}
{% compress js inline %}
<script src="/static/js/one.js" type="text/javascript" charset="utf-8"></script>
<script type="text/javascript" charset="utf-8">obj.value = "value";</script>
{% endcompress %}
```

would be rendered something like:

```
<script type="text/javascript" charset="utf-8">
obj = {};
obj.value = "value";
</script>
```

The compress template tag also supports a third argument for naming the output of that particular compress tag. This is then added to the context so you can access it in the *post_compress signal <signals>*.

2.2.2 Offline Compression

Django Compressor has the ability to run the compression "offline", i.e. outside of the request/response loop – independent from user requests. If offline compression is enabled, no new files are generated during a request and the $\{\$ \text{ compress } \$\}$ tag simply inserts links to the files in the offline cache (see *Behind the Scenes* for details). This results in better performance and enables certain deployment scenarios (see *Common Deployment Scenarios*).

To use offline compression, enable the *django.conf.settings.COMPRESS_OFFLINE* setting and then run the compress management command to compress your assets and update the offline cache.

The command parses all templates that can be found with the template loader (as specified in the TEM-PLATE_LOADERS setting) and looks for {% compress %} blocks. It then will use the context as defined in *django.conf.settings.COMPRESS_OFFLINE_CONTEXT* to render its content. So if you use any variables inside the {% compress %} blocks, make sure to list all values you require in COMPRESS_OFFLINE_CONTEXT. It's similar to a template context and should be used if a variable is used in the blocks, e.g.:

```
{% load compress %}
{% compress js %}
<script type="text/javascript">
    alert("{{ greeting }}");
</script>
{% endcompress %}
```

Since this template requires a variable (greeting) you need to specify this in your settings before using the compress management command:

```
COMPRESS_OFFLINE_CONTEXT = {
    'greeting': 'Hello there!',
}
```

The result of running the compress management command will be cached in a file called manifest.json using the *configured storage* to be able to be transferred from your development computer to the server easily.

2.2.3 Signals

compressor.signals.post_compress(sender, type, mode, context)

Django Compressor includes a post_compress signal that enables you to listen for changes to your compressed CSS/JS. This is useful, for example, if you need the exact filenames for use in an HTML5 manifest file. The signal sends the following arguments:

sender Either compressor.css.CssCompressor or compressor.js.JsCompressor.

Changed in version 1.2.

The sender is now one of the supported Compressor classes for easier limitation to only one of them, previously it was a string named 'django-compressor'.

type Either "js" or "css".

mode Either "file" or "inline".

context The context dictionary used to render the output of the compress template tag.

If mode is "file" the dictionary named compressed in the context will contain a "url" key that maps to the relative URL for the compressed asset.

If type is "css", the dictionary named compressed in the context will additionally contain a "media" key with a value of None if no media attribute is specified on the link/style tag and equal to that attribute if one is specified.

Additionally, context['compressed']['name'] will be the third positional argument to the template tag, if provided.

Note: When compressing CSS, the post_compress signal will be called once for every different media attribute on the tags within the {% compress %} tag in question.

2.2.4 CSS Notes

All relative url() bits specified in linked CSS files are automatically converted to absolute URLs while being processed. Any local absolute URLs (those starting with a '/') are left alone.

Stylesheets that are @import'd are not compressed into the main file. They are left alone.

If the media attribute is set on <style> and <link> elements, a separate compressed file is created and linked for each media value you specified. This allows the media attribute to remain on the generated link element, instead of wrapping your CSS with @media blocks (which can break your own @media queries or @font-face declarations). It also allows browsers to avoid downloading CSS for irrelevant media types.

2.2.5 Recommendations

- Use only relative or full domain absolute URLs in your CSS files.
- Avoid @import! Simply list all your CSS files in the HTML, they'll be combined anyway.

2.3 Common Deployment Scenarios

This document presents the most typical scenarios in which Django Compressor can be configured, and should help you decide which method you may want to use for your stack.

2.3.1 In-Request Compression

This is the default method of compression. Where-in Django Compressor will go through the steps outlined in *Behind the Scenes*. You will find in-request compression beneficial if:

- Using a single server setup, where the application and static files are on the same machine.
- Prefer a simple configuration. By default, there is no configuration required.

2.3.2 Caveats

- If deploying to a multi-server setup and using *COMPRESS_PRECOMPILERS*, each binary is required to be installed on each application server.
- Application servers may not have permissions to write to your static directories. For example, if deploying to a CDN (e.g. Amazon S3)

2.3.3 Offline Compression

This method decouples the compression outside of the request (see *Behind the Scenes*) and can prove beneficial in the speed, and in many scenarios, the maintainability of your deployment. You will find offline compression beneficial if:

- Using a multi-server setup. A common scenario for this may be multiple application servers and a single static file server (CDN included). With offline compression, you typically run manage.py compress on a single utility server, meaning you only maintain *COMPRESS_PRECOMPILERS* binaries in one location.
- You store compressed files on a CDN.
- You want the best possible performance.

2.3.4 Caveats

- If your templates have complex logic in how template inheritance is done (e.g. {% extends context_variable %}), then this becomes a problem, as offline compression will not have the context, unless you set it in *COMPRESS_OFFLINE_CONTEXT*
- Due to the way the manifest file is used, while deploying across a multi-server setup, your application may use old templates with a new manifest, possibly rendering your pages incoherent. The current suggested solution for this is to change the *COMPRESS_OFFLINE_MANIFEST* path for each new version of your code. This will ensure that the old code uses old compressed output, and the new one appropriately as well.

Every setup is unique, and your scenario may differ slightly. Choose what is the most sane to maintain for your situation.

2.4 Settings

Django Compressor has a number of settings that control its behavior. They've been given sensible defaults.

2.4.1 Base settings

django.conf.settings.COMPRESS_ENABLED

Default the opposite of DEBUG

Boolean that decides if compression will happen. To test compression when DEBUG is True COMPRESS_ENABLED must also be set to True.

When COMPRESS_ENABLED is False the input will be rendered without any compression except for code with a mimetype matching one listed in the *COMPRESS_PRECOMPILERS* setting. These matching files are still passed to the precompiler before rendering.

An example for some javascript and coffeescript.

With COMPRESS_ENABLED set to False this would give you something like this:

django.conf.settings.COMPRESS_URL

Default STATIC_URL

Controls the URL that linked files will be read from and compressed files will be written to.

django.conf.settings.COMPRESS_ROOT

Default STATIC_ROOT

Controls the absolute file path that linked static will be read from and compressed static will be written to when using the default *COMPRESS_STORAGE* compressor.storage.CompressorFileStorage.

django.conf.settings.COMPRESS_OUTPUT_DIR

Default 'CACHE'

Controls the directory inside COMPRESS_ROOT that compressed files will be written to.

2.4.2 Backend settings

django.conf.settings.COMPRESS_CSS_FILTERS

Default ['compressor.filters.css_default.CssAbsoluteFilter']

A list of filters that will be applied to CSS.

Possible options are (including their settings):

• compressor.filters.css_default.CssAbsoluteFilter

A filter that normalizes the URLs used in url () CSS statements.

django.conf.settings.COMPRESS_CSS_HASHING_METHOD

The method to use when calculating the suffix to append to URLs in your processed CSS files. Either None, 'mtime' (default) or 'content'. Use the None if you want to completely disable that feature, and the 'content' in case you're using multiple servers to serve your content.

• compressor.filters.datauri.CssDataUriFilter

A filter for embedding media as data: URIs in the CSS.

django.conf.settings.**COMPRESS_DATA_URI_MAX_SIZE** Only files that are smaller than this in bytes value will be embedded.

• compressor.filters.yui.YUICSSFilter

A filter that passes the CSS content to the YUI compressor.

django.conf.settings.COMPRESS_YUI_BINARY
The YUI compressor filesystem path. Make sure to also prepend this setting with java -jar if you
use that kind of distribution.

- django.conf.settings.**COMPRESS_YUI_CSS_ARGUMENTS** The arguments passed to the compressor.
- compressor.filters.yuglify.YUglifyCSSFilter

A filter that passes the CSS content to the yUglify compressor.

django.conf.settings.COMPRESS_YUGLIFY_BINARY
 The yUglify compressor filesystem path.

- django.conf.settings.**COMPRESS_YUGLIFY_CSS_ARGUMENTS** The arguments passed to the compressor. Defaults to -terminal.
- compressor.filters.cssmin.CSSCompressorFilter

A filter that uses Yury Selivanov's Python port of the YUI CSS compression algorithm csscompressor.

• compressor.filters.cssmin.rCSSMinFilter

A filter that uses the cssmin implementation rCSSmin to compress CSS (installed by default).

• compressor.filters.cleancss.CleanCSSFilter

A filter that passes the CSS content to the clean-css tool.

- django.conf.settings.**COMPRESS_CLEAN_CSS_BINARY** The clean-css binary filesystem path.
- django.conf.settings.**COMPRESS_CLEAN_CSS_ARGUMENTS** The arguments passed to clean-css.
- compressor.filters.template.TemplateFilter

A filter that renders the CSS content with Django templating system.

django.conf.settings.**COMPRESS_TEMPLATE_FILTER_CONTEXT** The context to render your css files with.

django.conf.settings.COMPRESS_JS_FILTERS

Default ['compressor.filters.jsmin.JSMinFilter']

A list of filters that will be applied to javascript.

Possible options are:

• compressor.filters.jsmin.JSMinFilter

A filter that uses the jsmin implementation rJSmin to compress JavaScript code (installed by default).

• compressor.filters.jsmin.SlimItFilter

A filter that uses the jsmin implementation Slim It to compress JavaScript code.

• compressor.filters.closure.ClosureCompilerFilter

A filter that uses Google Closure compiler.

django.conf.settings.COMPRESS_CLOSURE_COMPILER_BINARY

The Closure compiler filesystem path. Make sure to also prepend this setting with java -jar if you use that kind of distribution.

- django.conf.settings.COMPRESS_CLOSURE_COMPILER_ARGUMENTS The arguments passed to the compiler.
- compressor.filters.yui.YUIJSFilter

A filter that passes the JavaScript code to the YUI compressor.

```
django.conf.settings.COMPRESS_YUI_BINARY
The YUI compressor filesystem path.
```

django.conf.settings.**COMPRESS_YUI_JS_ARGUMENTS** The arguments passed to the compressor.

• compressor.filters.yuglify.YUglifyJSFilter

A filter that passes the JavaScript code to the yUglify compressor.

- django.conf.settings.**COMPRESS_YUGLIFY_BINARY** The yUglify compressor filesystem path.
- django.conf.settings.**COMPRESS_YUGLIFY_JS_ARGUMENTS** The arguments passed to the compressor.
- compressor.filters.template.TemplateFilter

A filter that renders the JavaScript code with Django templating system.

django.conf.settings.**COMPRESS_TEMPLATE_FILTER_CONTEXT** The context to render your JavaScript code with.

django.conf.settings.COMPRESS_PRECOMPILERS

Default ()

An iterable of two-tuples whose first item is the mimetype of the files or hunks you want to compile with the command or filter specified as the second item:

- 1. **mimetype** The mimetype of the file or inline code that should be compiled.
- 2. command_or_filter The command to call on each of the files. Modern Python string formatting will be provided for the two placeholders {infile} and {outfile} whose existence in the command string also triggers the actual creation of those temporary files. If not given in the command string, Django Compressor will use stdin and stdout respectively instead.

Alternatively, you may provide the fully qualified class name of a filter you wish to use as a precompiler.

Example:

```
COMPRESS_PRECOMPILERS = (
   ('text/coffeescript', 'coffee --compile --stdio'),
   ('text/less', 'lessc {infile} {outfile}'),
   ('text/x-sass', 'sass {infile} {outfile}'),
   ('text/x-scss', 'sass --scss {infile} {outfile}'),
   ('text/stylus', 'stylus < {infile} > {outfile}'),
   ('text/foobar', 'path.to.MyPrecompilerFilter'),
```

Note: Depending on the implementation, some precompilers might not support outputting to something else than stdout, so you'll need to omit the {outfile} parameter when working with those. For instance, if you are using the Ruby version of lessc, you'll need to set up the precompiler like this:

('text/less', 'lessc {infile}'),

With that setting (and CoffeeScript installed), you could add the following code to your templates:

```
{% load compress %}
{% compress js %}
```

(continues on next page)

(continued from previous page)

This would give you something like this:

The same works for less, too:

Which would be rendered something like:

django.conf.settings.COMPRESS_STORAGE

Default 'compressor.storage.CompressorFileStorage'

The dotted path to a Django Storage backend to be used to save the compressed files.

Django Compressor ships with one additional storage backend:

'compressor.storage.GzipCompressorFileStorage'

A subclass of the default storage backend, which will additionally create \star .gz files of each of the compressed files.

django.conf.settings.COMPRESS_PARSER

Default 'compressor.parser.AutoSelectParser'

The backend to use when parsing the JavaScript or Stylesheet files. The AutoSelectParser picks the lxml based parser when available, and falls back to HtmlParser if lxml is not available.

LxmlParser is the fastest available parser, but HtmlParser is not much slower. AutoSelectParser adds a slight overhead, but in most cases it won't be necessary to change the default parser.

The other two included parsers are considerably slower and should only be used if absolutely necessary.

Warning: In some cases the compressor.parser.HtmlParser parser isn't able to parse invalid HTML in JavaScript or CSS content. As a workaround you should use one of the more forgiving parsers, e.g. the BeautifulSoupParser.

The backends included in Django Compressor:

- compressor.parser.AutoSelectParser
- compressor.parser.LxmlParser
- compressor.parser.HtmlParser
- compressor.parser.BeautifulSoupParser
- compressor.parser.Html5LibParser

See Optional Dependencies for more info about the packages you need for each parser.

2.4.3 Caching settings

django.conf.settings.COMPRESS_CACHE_BACKEND

Default CACHES ["default"] or CACHE_BACKEND

The backend to use for caching, in case you want to use a different cache backend for Django Compressor.

If you have set the CACHES setting (new in Django 1.3), COMPRESS_CACHE_BACKEND defaults to "default", which is the alias for the default cache backend. You can set it to a different alias that you have configured in your CACHES setting.

If you have not set CACHES and are using the old CACHE_BACKEND setting, COMPRESS_CACHE_BACKEND defaults to the CACHE_BACKEND setting.

django.conf.settings.COMPRESS_REBUILD_TIMEOUT

Default 2592000 (30 days in seconds)

The period of time after which the compressed files are rebuilt even if no file changes are detected.

django.conf.settings.COMPRESS_MINT_DELAY

Default 30 (seconds)

The upper bound on how long any compression should take to run. Prevents dog piling, should be a lot smaller than *COMPRESS_REBUILD_TIMEOUT*.

django.conf.settings.COMPRESS_MTIME_DELAY

Default 10

The amount of time (in seconds) to cache the modification timestamp of a file. Should be smaller than *COMPRESS_REBUILD_TIMEOUT* and *COMPRESS_MINT_DELAY*.

django.conf.settings.COMPRESS_CACHEABLE_PRECOMPILERS

Default ()

An iterable of precompiler mimetypes as defined in *COMPRESS_PRECOMPILERS* for which the compiler output can be cached based solely on the contents of the input file. This lets Django Compressor avoid recompiling unchanged files. Caching is appropriate for compilers such as CoffeeScript where files are compiled one-to-one, but not for compilers such as SASS that have an import mechanism for including one file from another. If caching is enabled for such a compiler, Django Compressor will not know to recompile files when a file they import is modified.

django.conf.settings.COMPRESS_DEBUG_TOGGLE

Default None

The name of the GET variable that toggles the debug mode and prevents Django Compressor from performing the actual compression. Only useful for debugging.

Warning: Don't use this option in production! An easy convention is to only set it depending on the DEBUG setting: if DEBUG:

```
COMPRESS_DEBUG_TOGGLE = 'whatever'
```

Note: This only works for pages that are rendered using the RequestContext and the django.core. context_processors.request context processor.

django.conf.settings.COMPRESS_CACHE_KEY_FUNCTION

Default 'compressor.cache.simple_cachekey'

The function to use when generating the cache key. The function must take one argument which is the partial key based on the source's hex digest. It must return the full key as a string.

2.4.4 Offline settings

django.conf.settings.COMPRESS_OFFLINE

Default False

Boolean that decides if compression should be done outside of the request/response loop. See *Offline Compression* for details.

django.conf.settings.COMPRESS_OFFLINE_TIMEOUT

Default 31536000 (1 year in seconds)

The period of time with which the compress management command stores the pre-compressed the contents of {% compress %} template tags in the cache.

django.conf.settings.COMPRESS_OFFLINE_CONTEXT

Default { 'STATIC_URL': settings.STATIC_URL}

The context to be used by the compress management command when rendering the contents of {% compress %} template tags and saving the result in the offline cache.

If available, the STATIC_URL setting is also added to the context.

Note: It is also possible to perform offline compression for multiple contexts by providing a list or tuple of dictionaries, or by providing a dotted string pointing to a generator function.

This makes it easier to generate contexts dynamically for situations where a user might be able to select a different theme in their user profile, or be served different stylesheets based on other criteria.

An example of multiple offline contexts by providing a list or tuple:

```
# project/settings.py:
COMPRESS_OFFLINE_CONTEXT = [
    {'THEME': 'plain', 'STATIC_URL': STATIC_URL},
    {'THEME': 'fancy', 'STATIC_URL': STATIC_URL},
    # ...
```

An example of multiple offline contexts generated dynamically:

```
# project/settings.py:
COMPRESS_OFFLINE_CONTEXT = 'project.module.offline_context'
# project/module.py:
from django.conf import settings
def offline_context():
    from project.models import Company
    for theme in set(Company.objects.values_list('theme', flat=True)):
        yield {'THEME': theme, 'STATIC_URL': settings.STATIC_URL}
```

django.conf.settings.COMPRESS_OFFLINE_MANIFEST

Default manifest.json

The name of the file to be used for saving the names of the files compressed offline.

2.5 Remote Storages

In some cases it's useful to use a CDN for serving static files such as those generated by Django Compressor. Due to the way Django Compressor processes files, it requires the files to be processed (in the {% compress %} block) to be available in a local file system cache.

Django Compressor provides hooks to automatically have compressed files pushed to a remote storage backend. Simply set the storage backend that saves the result to a remote service (see *COMPRESS_STORAGE*).

2.5.1 django-storages

So assuming your CDN is Amazon S3, you can use the boto storage backend from the 3rd party app django-storages. Some required settings are:

Next, you need to specify the new CDN base URL and update the URLs to the files in your templates which you want to compress:

COMPRESS_URL = "http://compressor-test.s3.amazonaws.com/"

Note: For staticfiles just set STATIC_URL = COMPRESS_URL

The storage backend to save the compressed files needs to be changed, too:

COMPRESS_STORAGE = 'storages.backends.s3boto.S3BotoStorage'

2.5.2 Using staticfiles

If you are using Django's staticfiles contrib app, you'll need to use a temporary filesystem cache for Django Compressor to know which files to compress. Since staticfiles provides a management command to collect static files from various locations which uses a storage backend, this is where both apps can be integrated.

- 1. Make sure the *COMPRESS_ROOT* and STATIC_ROOT settings are equal since both apps need to look at the same directories when doing their job.
- 2. You need to create a subclass of the remote storage backend you want to use; below is an example of the boto S3 storage backend from django-storages:

```
from django.core.files.storage import get_storage_class
from storages.backends.s3boto import S3BotoStorage
class CachedS3BotoStorage(S3BotoStorage):
    """
    S3 storage backend that saves the files locally, too.
    """
    def __init__(self, *args, **kwargs):
        super(CachedS3BotoStorage, self).__init__(*args, **kwargs)
        self.local_storage = get_storage_class(
            "compressor.storage.CompressorFileStorage")()
    def save(self, name, content):
        self.local_storage._save(name, content)
        super(CachedS3BotoStorage, self).save(name, self.local_storage.__
        super(CachedS3BotoStorage, self).save(name, self.local_storage.__
        super(CachedS3BotoStorage, self).save(name, self.local_storage.__
        super(CachedS3BotoStorage, self).save(name, self.local_storage.__
        super(name))
        return name
```

- 3. Set your *COMPRESS_STORAGE* and STATICFILES_STORAGE settings to the dotted path of your custom cached storage backend, e.g. 'mysite.storage.CachedS3BotoStorage'.
- 4. To have Django correctly render the URLs to your static files, set the STATIC_URL setting to the same value as *COMPRESS_URL* (e.g. "http://compressor-test.s3.amazonaws.com/").

In the end it might look like this:

```
STATIC_ROOT = '/path/to/staticfiles'
COMPRESS_ROOT = STATIC_ROOT
STATICFILES_STORAGE = 'mysite.storage.CachedS3BotoStorage'
COMPRESS_STORAGE = STATICFILES_STORAGE
STATIC_URL = 'https://compressor-test.s3.amazonaws.com/'
COMPRESS_URL = STATIC_URL
```

2.6 Behind the Scenes

This document assumes you already have an up and running instance of Django Compressor, and that you understand how to use it in your templates. The goal is to explain what the main template tag, {% compress %}, does behind the scenes, to help you debug performance problems for instance.

2.6.1 Offline compression

If offline compression is activated, the {% compress %} tag will try to retrieve the compressed version for its nodelist from the offline manifest cache. It doesn't parse, doesn't check the modified times of the files, doesn't even know which files are concerned actually, since it doesn't look inside the nodelist of the template block enclosed by the compress template tag. The offline cache manifest is just a json file, stored on disk inside the directory that holds the compress files. The format of the manifest is simply a key-value dictionary, with the hash of the nodelist being the key, and the HTML containing the element code for the combined file or piece of code being the value. The compress management command generates the offline manifest as well as the combined files referenced in the manifest.

If offline compression is enabled and the nodelist hash can not be found inside the manifest, {% compress %} will raise an OfflineGenerationError.

If offline compression is disabled, the following happens:

2.6.2 First step: parsing and file list

A compressor instance is created, which in turns instantiates the HTML parser. The parser is used to determine a file or code hunk list. Each file mtime is checked, first in cache and then on disk/storage, and this is used to determine an unique cache key.

2.6.3 Second step: Checking the "main" cache

Compressor checks if it can get some info about the combined file/hunks corresponding to its instance, using the cache key obtained in the previous step. The cache content here will actually be the HTML containing the final element code, just like in the offline step before.

Everything stops here if the cache entry exists.

2.6.4 Third step: Generating the combined file if needed

The file is generated if necessary. All precompilers are called and all filters are executed, and a hash is determined from the contents. This in turns helps determine the file name, which is only saved if it didn't exist already. Then the HTML output is returned (and also saved in the cache). And that's it!

2.7 Jinja2 Support

Django Compressor comes with support for Jinja2 via an extension.

2.7.1 In-Request Compression

In order to use Django Compressor's Jinja2 extension we would need to pass compressor.contrib. jinja2ext.CompressorExtension into environment:

```
import jinja2
from compressor.contrib.jinja2ext import CompressorExtension
env = jinja2.Environment(extensions=[CompressorExtension])
```

From now on, you can use same code you'd normally use within Django templates:

```
from django.conf import settings
template = env.from_string('\n'.join([
    '{% compress css %}',
    '<link rel="stylesheet" href="{{ STATIC_URL }}css/one.css" type="text/css" charset="utf-8">',
    '{% endcompress %}',
]))
template.render({'STATIC_URL': settings.STATIC_URL})
```

2.7.2 Offline Compression

Usage

First, you will need to configure COMPRESS_JINJA2_GET_ENVIRONMENT so that Compressor can retrieve the Jinja2 environment for rendering. This can be a lambda or function that returns a Jinja2 environment.

Then, run the following compress command along with an --engine parameter. The parameter can be either jinja2 or django (default). For example, ./manage.py compress --engine jinja2.

Using both Django and Jinja2 templates

There may be a chance that the Jinja2 parser is used to parse Django templates if you have a mixture of Django and Jinja2 templates in the same location(s). This should not be a problem since the Jinja2 parser will likely raise a template syntax error, causing Compressor to skip the errorneous template safely. (Vice versa for Django parser).

A typical usage could be :

- ./manage.py compress for processing Django templates first, skipping Jinja2 templates.
- ./manage.py compress --engine jinja2 for processing Jinja2 templates, skipping Django templates.

However, it is still recommended that you do not mix Django and Jinja2 templates in the same project.

Limitations

- Does not support {% import %} and similar blocks within {% compress %} blocks.
- Does not support { {super() } }.
- All other filters, globals and language constructs such as {% if %}, {% with %} and {% for %} are tested and should run fine.

Jinja2 templates location

IMPORTANT: For Compressor to discover the templates for offline compression, there must be a template loader that implements the get_template_sources method, and is in the TEMPLATE_LOADERS setting.

If you're using Jinja2, you're likely to have a Jinja2 template loader in the TEMPLATE_LOADERS setting, otherwise Django won't know how to load Jinja2 templates.

By default, if you don't override the TEMPLATE_LOADERS setting, it will include the app directories loader that searches for templates under the templates directory in each app. If the app directories loader is in use and your Jinja2 templates are in the <app>/templates directories, Compressor will be able to find the Jinja2 templates.

However, if you have Jinja2 templates in other location(s), you could include the filesystem loader (django. template.loaders.filesystem.Loader) in the TEMPLATE_LOADERS setting and specify the custom location in the TEMPLATE_DIRS setting.

Using your custom loader

You should configure TEMPLATE_LOADERS as such:

```
TEMPLATE_LOADERS = (
    'your_app.Loader',
    ... other loaders (optional) ...
)
```

You could implement the *get_template_sources* method in your loader or make use of the Django's builtin loaders to report the Jinja2 template location(s).

2.8 django-sekizai Support

Django Compressor comes with support for django-sekizai via an extension. django-sekizai provides the ability to include template code, from within any block, to a parent block. It is primarily used to include js/css from included templates to the master template.

It requires django-sekizai to be installed. Refer to the django-sekizai docs for how to use render_block

2.8.1 Usage

```
{% load sekizai_tags %}
{% render_block "<js/css>" postprocessor "compressor.contrib.sekizai.compress" %}
```

2.9 Facebook React Support

Assuming you have *npm* available, you can install *babel* via *npm install -g babel* and integrate React with Django Compressor by following the react-tools installation instructions and adding an appropriate COMPRESS_PRECOMPILERS setting:

```
COMPRESS_PRECOMPILERS = (
   ('text/jsx', 'cat {infile} | babel > {outfile}'),
}
```

If the above approach is not suitable for you, compiling React's jsx files can be done by creating a custom precompressor.

2.9.1 Requirements

- PyReact>=0.5.2 for compiling jsx files
- PyExecJS>=1.1.0 required by PyReact (automatically installed when using pip)
- · A Javascript runtime : options include PyV8, Node.js, PhantomJS among others

The full list of supported javascript engines can be found here: https://github.com/doloopwhile/PyExecJS

2.9.2 Installation

1. Place the following code in a Python file (e.g. third_party/react_compressor.py). Also make sure that third_party/__init__.py exists so the directory is recognized as a Python package.

```
from compressor.filters import FilterBase
from react import jsx

class ReactFilter(FilterBase):
    def __init__(self, content, *args, **kwargs):
        self.content = content
        kwargs.pop('filter_type')
        super(ReactFilter, self).__init__(content, *args, **kwargs)
    def input(self, **kwargs):
        return jsx.transform_string(self.content)
```

2. In your Django settings, add the following line:

```
COMPRESS_PRECOMPILERS = (
    ('text/jsx', 'third_party.react_compressor.ReactFilter'),
```

Where third_party.react_compressor.ReactFilter is the full name of your ReactFilter class.

2.9.3 Troubleshooting

If you get "file not found" errors, open your Python command line and make sure you are able to import your ReactFilter class:

_import__('third_party.react_compressor.ReactFilter')

2.10 Contributing

Like every open-source project, Django Compressor is always looking for motivated individuals to contribute to it's source code. However, to ensure the highest code quality and keep the repository nice and tidy, everybody has to follow a few rules (nothing major, I promise :))

2.10.1 Community

People interested in developing for the Django Compressor should:

- 1. Head over to #django-compressor on the freenode IRC network for help and to discuss the development.
- 2. Open an issue on GitHub explaining your ideas.

2.10.2 In a nutshell

Here's what the contribution process looks like, in a bullet-points fashion, and only for the stuff we host on github:

1. Django Compressor is hosted on github, at https://github.com/django-compressor/django-compressor

- 2. The best method to contribute back is to create a github account, then fork the project. You can use this fork as if it was your own project, and should push your changes to it.
- 3. When you feel your code is good enough for inclusion, "send us a pull request", by using the nice github web interface.

2.10.3 Contributing Code

Getting the source code

If you're interested in developing a new feature for Compressor, it is recommended that you first discuss it on IRC not to do any work that will not get merged in anyway.

- Code will be reviewed and tested by at least one core developer, preferably by several. Other community members are welcome to give feedback.
- Code *must* be tested. Your pull request should include unit-tests (that cover the piece of code you're submitting, obviously)
- Documentation should reflect your changes if relevant. There is nothing worse than invalid documentation.
- Usually, if unit tests are written, pass, and your change is relevant, then it'll be merged.

Since it's hosted on github, Django Compressor uses git as a version control system.

The github help is very well written and will get you started on using git and github in a jiffy. It is an invaluable resource for newbies and old timers alike.

Syntax and conventions

We try to conform to PEP8 as much as possible. A few highlights:

- Indentation should be exactly 4 spaces. Not 2, not 6, not 8. 4. Also, tabs are evil.
- We try (loosely) to keep the line length at 79 characters. Generally the rule is "it should look good in a terminalbase editor" (eg vim), but we try not be [Godwin's law] about it.

Process

This is how you fix a bug or add a feature:

- 1. Fork us on github.
- 2. Checkout your fork.
- 3. Hack hack, test test test, commit commit, test again.
- 4. Push to your fork.
- 5. Open a pull request.

Tests

Having a wide and comprehensive library of unit-tests and integration tests is of exceeding importance. Contributing tests is widely regarded as a very prestigious contribution (you're making everybody's future work much easier by doing so). Good karma for you. Cookie points. Maybe even a beer if we meet in person :)

Generally tests should be:

- Unitary (as much as possible). I.E. should test as much as possible only one function/method/class. That's the very definition of unit tests.
- Integration tests are interesting too obviously, but require more time to maintain since they have a higher probability of breaking.
- Short running. No hard numbers here, but if your one test doubles the time it takes for everybody to run them, it's probably an indication that you're doing it wrong.

In a similar way to code, pull requests will be reviewed before pulling (obviously), and we encourage discussion via code review (everybody learns something this way) or IRC discussions.

Running the tests

To run the tests simply fork django_compressor, make the changes and open a pull request. The Travis bot will automatically run the tests of your branch/fork (see the pull request announcment for more info) and add a comment about the test results to the pull requests. Alternatively you can also login at Travis and enable your fork to run there, too. See the Travis documentation to read about how to do that.

Alternatively, create a virtualenv and activate it, then install the requirements in the virtualenv:

```
$ virtualenv compressor_test
$ source compressor_test/bin/activate
(compressor_test) $ make testenv
```

Then run make test to run the tests. Please note that this only tests django_compressor in the Python version you've created the virtualenv with not all the versions that are required to be supported.

2.10.4 Contributing Documentation

Perhaps considered "boring" by hard-core coders, documentation is sometimes even more important than code! This is what brings fresh blood to a project, and serves as a reference for old timers. On top of this, documentation is the one area where less technical people can help most - you just need to write a semi-decent English. People need to understand you.

Documentation should be:

- We use Sphinx/restructuredText. So obviously this is the format you should use :) File extensions should be .txt.
- Written in English. We can discuss how it would bring more people to the project to have a Klingon translation or anything, but that's a problem we will ask ourselves when we already have a good documentation in English.
- Accessible. You should assume the reader to be moderately familiar with Python and Django, but not anything else. Link to documentation of libraries you use, for example, even if they are "obvious" to you. A brief description of what it does is also welcome.

Pulling of documentation is pretty fast and painless. Usually somebody goes over your text and merges it, since there are no "breaks" and that github parses rst files automagically it's really convenient to work with.

Also, contributing to the documentation will earn you great respect from the core developers. You get good karma just like a test contributor, but you get double cookie points. Seriously. You rock.

Note: This very document is based on the contributing docs of the django CMS project. Many thanks for allowing us to steal it!

2.11 Changelog

2.11.1 v2.1 (2016-08-09)

Full Changelog

- Add Django 1.10 compatibility
- Add support for inheritance using a variable in offline compression
- · Fix recursion error with offline compression when extending templates with the same name
- Fix UnicodeDecodeError when using CompilerFilter and caching
- Fix CssAbsoluteFilter changing double quotes to single quotes, breaking SVG

2.11.2 v2.0 (2016-01-07)

Full Changelog

- Add Django 1.9 compatibility
- Remove official support for Django 1.4 and 1.7
- Add official support for Python 3.5
- Remove official support for Python 2.6
- Remove support for coffin and jingo
- Fix Jinja2 compatibility for Django 1.8+
- Stop bundling vendored versions of rcssmin and rjsmin, make them proper dependencies
- · Remove support for CSSTidy
- Remove support for beautifulsoup 3.
- Replace cssmin by csscompressor (cssmin is still available for backwards-compatibility but points to rcssmin)

2.11.3 v1.6 (2015-11-19)

Full Changelog

- Upgrade ressmin and rjsmin
- Apply CssAbsoluteFilter to precompiled css even when compression is disabled
- Add optional caching to CompilerFilter to avoid re-compiling unchanged files
- Fix various deprecation warnings on Django 1.7 / 1.8
- Fix TemplateFilter
- Fix double-rendering bug with sekizai extension
- · Fix debug mode using destination directory instead of staticfiles finders first
- · Removed some silent exception catching in compress command

2.11.4 v1.5 (2015-03-27)

Full Changelog

- Fix compress command and run automated tests for Django 1.8
- Fix Django 1.8 warnings
- Handle TypeError from import_module
- Fix reading UTF-8 files which have BOM
- Fix incompatibility with Windows (shell_quote is not supported)
- Run automated tests on Django 1.7
- Ignore non-existent {{ block.super }} in offline compression instead of raising AttributeError
- Support for clean-css
- Fix link markup
- Add support for COMPRESS_CSS_HASHING_METHOD = None
- Remove compatibility with old 'staticfiles' app
- In compress command, use get_template() instead of opening template files manually, fixing compatibility issues with custom template loaders
- Fix FilterBase so that does not override self.type for subclasses if filter_type is not specified at init
- · Remove unnecessary filename and existence checks in CssAbsoluteFilter

2.11.5 v1.4 (2014-06-20)

- Added Python 3 compatibility.
- Added compatibility with Django 1.6.x and dropped support for Django 1.3.X.
- Fixed compatibility with html5lib 1.0.
- Added offline compression for Jinja2 with Jingo and Coffin integration.
- Improved support for template inheritance in offline compression.
- Made offline compression avoid compressing the same block multiple times.
- Added a testenv target in the Makefile to make it easier to set up the test environment.
- Allowed data-uri filter to handle external/protocol-relative references.
- Made CssCompressor class easier to extend.
- Added support for explicitly stating the block being ended.
- Added rcssmin and updated rjsmin.
- Removed implicit requirement on BeautifulSoup.
- Made GzipCompressorFileStorage set access and modified times to the same time as the corresponding base file.
- Defaulted to using django's simplejson, if present.
- Fixed CompilerFilter to always output Unicode strings.
- Fixed windows line endings in offline compression.

2.11.6 v1.3 (2013-03-18)

- Backward incompatible changes
 - Dropped support for Python 2.5. Removed any and walk compatibility functions in compressor. utils.
 - Removed compatibility with some old django setttings:
 - * COMPRESS_ROOT no longer uses MEDIA_ROOT if STATIC_ROOT is not defined. It expects STATIC_ROOT to be defined instead.
 - * COMPRESS_URL no longer uses MEDIA_URL if STATIC_URL is not defined. It expects STATIC_URL to be defined instead.
 - * COMPRESS_CACHE_BACKEND no longer uses CACHE_BACKEND and simply defaults to default.
- Added precompiler class support. This enables you to write custom precompilers with Python logic in them instead of just relying on executables.
- Made CssAbsoluteFilter smarter: it now handles URLs with hash fragments or querystring correctly. In addition, it now leaves alone fragment-only URLs.
- Removed a fsync() call in CompilerFilter to improve performance. We already called self. infile.flush() so that call was not necessary.
- Added an extension to provide django-sekizai support. See django-sekizai Support for more information.
- Fixed a DeprecationWarning regarding the use of django.utils.hashcompat
- Updated bundled rjsmin.py to fix some JavaScript compression errors.

2.11.7 v1.2

- Added compatibility with Django 1.4 and dropped support for Django 1.2.X.
- Added contributing docs. Be sure to check them out and start contributing!
- · Moved CI to Travis: http://travis-ci.org/django-compressor/django-compressor
- Introduced a new compressed context dictionary that is passed to the templates that are responsible for rendering the compressed snippets.

This is a **backwards-incompatible change** if you've overridden any of the included templates:

- compressor/css_file.html
- compressor/css_inline.html
- compressor/js_file.html
- compressor/js_inline.html

The variables passed to those templates have been namespaced in a dictionary, so it's easy to fix your own templates.

For example, the old compressor/js_file.html:

<script type="text/javascript" src="{{ url }}"></script>

The new compressor/js_file.html:

<script type="text/javascript" src="{{ compressed.url }}"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script</script></script></sc

- Removed old templates named compressor/css.html and compressor/js.html that were originally left for backwards compatibility. If you've overridden them, just rename them to compressor/css_file. html or compressor/js_file.html and make sure you've accounted for the backwards incompatible change of the template context mentioned above.
- Reverted an unfortunate change to the YUI filter that prepended 'java -jar' to the binary name, which doesn't alway work, e.g. if the YUI compressor is shipped as a script like /usr/bin/yui-compressor.
- Changed the sender parameter of the *post_compress()* signal to be either compressor.css. CssCompressor or compressor.js.JsCompressor for easier customization.
- Correctly handle offline compressing files that are found in {% if %} template blocks.
- Renamed the second option for the COMPRESS_CSS_HASHING_METHOD setting from 'hash' to 'content' to better describe what it does. The old name is also supported, as well as the default being 'mtime'.
- Fixed CssAbsoluteFilter, src attributes in includes now get transformed.
- Added a new hook to allow developers to completely bypass offline compression in CompressorNode subclasses: is_offline_compression_enabled.
- Dropped versiontools from required dependencies again.

2.11.8 v1.1.2

• Fixed an installation issue related to versiontools.

2.11.9 v1.1.1

- Fixed a stupid ImportError bug introduced in 1.1.
- Fixed Jinja2 docs of since JINJA2_EXTENSIONS expects a class, not a module.
- Fixed a Windows bug with regard to file resolving with staticfiles finders.
- Stopped a potential memory leak when memoizing the rendered output.
- Fixed the integration between staticfiles (e.g. in Django <= 1.3.1) and compressor which prevents the collectstatic management command to work.

Warning: Make sure to remove the path method of your custom *remote storage* class!

2.11.10 v1.1

• Made offline compression completely independent from cache (by writing a manifest.json file).

You can now easily run the compress management command locally and transfer the *COMPRESS_ROOT* dir to your server.

- Updated installation instructions to properly mention all dependencies, even those internally used.
- Fixed a bug introduced in 1.0 which would prevent the proper deactivation of the compression in production.
- Added a Jinja2 contrib extension.

- Made sure the rel attribute of link tags can be mixed case.
- Avoid overwriting context variables needed for compressor to work.
- Stopped the compress management command to require model validation.
- Added missing imports and fixed a few **PEP 8** issues.

2.11.11 v1.0.1

• Fixed regression in compressor.utils.staticfiles compatibility module.

2.11.12 v1.0

- **BACKWARDS-INCOMPATIBLE** Stopped swallowing exceptions raised by rendering the template tag in production (DEBUG = False). This has the potential to breaking lots of apps but on the other hand will help find bugs.
- BACKWARDS-INCOMPATIBLE The default function to create the cache key stopped containing the server hostname. Instead the cache key now only has the form 'django_compressor.<KEY>'.

To revert to the previous way simply set the COMPRESS_CACHE_KEY_FUNCTION to 'compressor. cache.socket_cachekey'.

- BACKWARDS-INCOMPATIBLE Renamed ambigously named COMPRESS_DATA_URI_MAX_SIZE setting to COMPRESS_DATA_URI_MAX_SIZE. It's the maximum size the compressor.filters. datauri.DataUriFilter filter will embed files as data: URIs.
- Added COMPRESS_CSS_HASHING_METHOD setting with the options 'mtime' (default) and 'hash' for the CssAbsoluteFilter filter. The latter uses the content of the file to calculate the cache-busting hash.
- Added support for { { block.super } } to compress management command.
- Dropped Django 1.1.X support.
- Fixed compiler filters on Windows.
- Handle new-style cached template loaders in the compress management command.
- Documented included filters.
- Added Slim It filter.
- Added new CallbackOutputFilter to ease the implementation of Python-based callback filters that only need to pass the content to a callable.
- Make use of django-appconf for settings handling and versiontools for versions.
- Uses the current context when rendering the render templates.
- Added post_compress signal.

2.11.13 v0.9.2

• Fixed stdin handling of precompiler filter.

2.11.14 v0.9.1

- Fixed encoding related issue.
- Minor cleanups.

2.11.15 v0.9

- Fixed the precompiler support to also use the full file path instead of a temporarily created file.
- Enabled test coverage.
- Refactored caching and other utility code.
- Switched from SHA1 to MD5 for hash generation to lower the computational impact.

2.11.16 v0.8

- Replace naive jsmin.py with rJSmin (http://opensource.perlig.de/rjsmin/) and fixed a few problems with JavaScript comments.
- Fixed converting relative URLs in CSS files when running in debug mode.

Note: If you relied on the split_contents method of Compressor classes, please make sure a fourth item is returned in the iterable that denotes the base name of the file that is compressed.

2.11.17 v0.7.1

• Fixed import error when using the standalone django-staticfiles app.

2.11.18 v0.7

- Created new parser, HtmlParser, based on the stdlib HTMLParser module.
- Added a new default AutoSelectParser, which picks the LxmlParser if lxml is available and falls back to Html-Parser.
- Use unittest2 for testing goodness.
- Fixed YUI JavaScript filter argument handling.
- Updated bundled jsmin to use version by Dave St.Germain that was refactored for speed.

2.11.19 v0.6.4

• Fixed Closure filter argument handling.

2.11.20 v0.6.3

- Fixed options mangling in CompilerFilter initialization.
- Fixed tox configuration.
- Extended documentation and README.
- In the compress command ignore hidden files when looking for templates.
- Restructured utilities and added staticfiles compat layer.
- Restructered parsers and added a html5lib based parser.

2.11.21 v0.6.2

• Minor bugfixes that caused the compression not working reliably in development mode (e.g. updated files didn't trigger a new compression).

2.11.22 v0.6.1

- Fixed staticfiles support to also use its finder API to find files during development when the static files haven't been collected in STATIC_ROOT.
- Fixed regression with the COMPRESS setting, pre-compilation and staticfiles.

2.11.23 v0.6

Major improvements and a lot of bugfixes, some of which are:

- New precompilation support, which allows compilation of files and hunks with easily configurable compilers before calling the actual output filters. See the *COMPRESS_PRECOMPILERS* for more details.
- New staticfiles support. With the introduction of the staticfiles app to Django 1.3, compressor officially supports finding the files to compress using the app's finder API. Have a look at the documentation about *remote storages* in case you want to use those together with compressor.
- New compress management command which allows pre-running of what the compress template tag does. See the pre-compression docs for more information.
- Various performance improvements by better caching and mtime cheking.
- Deprecated COMPRESS_LESSC_BINARY setting because it's now superseded by the *COMPRESS_PRECOMPILERS* setting. Just make sure to use the correct mimetype when linking to less files or adding inline code and add the following to your settings:

```
COMPRESS_PRECOMPILERS = (
   ('text/less', 'lessc {infile} {outfile}'),
)
```

- Added cssmin filter (compressor.filters.CSSMinFilter) based on Zachary Voase's Python port of the YUI CSS compression algorithm.
- Reimplemented the dog-piling prevention.
- Make sure the CssAbsoluteFilter works for relative paths.
- Added inline render mode. See *usage* docs.

- Added mtime_cache management command to add and/or remove all mtimes from the cache.
- · Moved docs to Read The Docs: https://django-compressor.readthedocs.io/en/latest/
- Added optional compressor.storage.GzipCompressorFileStorage storage backend that gzips of the saved files automatically for easier deployment.
- Reimplemented a few filters on top of the new compressor.filters.base.CompilerFilter to be a bit more DRY.
- Added tox based test configuration, testing on Django 1.1-1.3 and Python 2.5-2.7.

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