
django-taggit Documentation

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Contents

1	Getting Started	3
2	Tags in forms	5
2.1	commit=False	5
3	Using tags in the admin	7
3.1	Including tags in <code>ModelAdmin.list_display</code>	7
4	The API	9
4.1	Filtering	10
5	Customizing taggit	11
5.1	Using a Custom Tag or Through Model	11
5.2	Using a custom tag string parser	14
6	Contributing to taggit	15
6.1	Reach out before you start	15
6.2	Fork repo and install your fork	16
6.3	Running tests	16
6.4	Opening the django shell	16
6.5	Creating new migrations	16
6.6	Follow style conventions (PEP8, isort)	16
6.7	Update documentation	16
6.8	Send pull request	17
7	External Applications	19
8	Changelog	21
8.1	0.22.2 (2017-12-27)	21
8.2	0.22.1 (2017-04-22)	21
8.3	0.22.0 (2017-01-29)	22
8.4	0.21.6 (2017-01-25)	22
8.5	0.21.5 (2017-01-21)	22
8.6	0.21.4 (2017-01-10)	22
8.7	0.21.3 (2016-10-07)	22
8.8	0.21.2 (2016-08-31)	22
8.9	0.21.1 (2016-08-25)	22

8.10	0.21.0 (2016-08-22)	23
8.11	0.20.2 (2016-07-11)	23
8.12	0.20.1 (2016-06-23)	23
8.13	0.20.0 (2016-06-19)	23
8.14	0.19.1 (2016-05-25)	23
8.15	0.19.0 (2016-05-23)	24
8.16	0.18.3 (2016-05-12)	24
8.17	0.18.2 (2016-05-08)	24
8.18	0.18.1 (2016-03-30)	24
8.19	0.18.0 (2016-01-18)	24
8.20	0.17.6 (2015-12-09)	24
8.21	0.17.5 (2015-11-27)	24
8.22	0.17.4 (2015-11-25)	25
8.23	0.17.3 (2015-10-26)	25
8.24	0.17.2 (2015-10-25)	25
8.25	0.17.1 (2015-09-10)	25
8.26	0.17.0 (2015-08-14)	25
8.27	0.16.4 (2015-08-13)	25
8.28	0.16.3 (2015-08-08)	25
8.29	0.16.2 (2015-07-13)	26
8.30	0.16.1 (2015-07-09)	26
8.31	0.16.0 (2015-07-04)	26
8.32	0.15.0 (2015-06-23)	26
8.33	0.14.0 (2015-04-26)	26
8.34	0.13.0 (2015-04-02)	26
8.35	0.12.3 (2015-03-03)	26
8.36	0.12.2 (2014-21-09)	27
8.37	0.12.1 (2014-10-08)	27
8.38	0.12.0 (2014-20-04)	27
8.39	0.11.2 (2013-13-12)	27
8.40	0.11.1 (2013-25-11)	27
8.41	0.11.0 (2013-25-11)	27
8.42	0.10.0 (2013-17-08)	27
8.43	0.9.2 (2011-01-17)	28
8.44	0.9.0 (2010-09-22)	28
8.45	0.8.0 (2010-06-22)	28

9 Indices and tables

29

`django-taggit` is a reusable Django application designed to making adding tagging to your project easy and fun. `django-taggit` works with Django 1.8+ and Python 2.7 / 3.4+.

CHAPTER 1

Getting Started

To get started using `django-taggit` simply install it with `pip`:

```
$ pip install django-taggit
```

Add `"taggit"` to your project's `INSTALLED_APPS` setting.

Run `./manage.py migrate`.

And then to any model you want tagging on do the following:

```
from django.db import models

from taggit.managers import TaggableManager

class Food(models.Model):
    # ... fields here

    tags = TaggableManager()
```

Note: If you want `django-taggit` to be **CASE INSENSITIVE** when looking up existing tags, you'll have to set to `True` the `TAGGIT_CASE_INSENSITIVE` setting (by default `False`):

```
TAGGIT_CASE_INSENSITIVE = True
```

Tags in forms

The `TaggableManager` will show up automatically as a field in a `ModelForm` or in the admin. Tags input via the form field are parsed as follows:

- If the input doesn't contain any commas or double quotes, it is simply treated as a space-delimited list of tag names.
- If the input does contain either of these characters:
 - Groups of characters which appear between double quotes take precedence as multi-word tags (so double quoted tag names may contain commas). An unclosed double quote will be ignored.
 - Otherwise, if there are any unquoted commas in the input, it will be treated as comma-delimited. If not, it will be treated as space-delimited.

Examples:

Tag input string	Resulting tags	Notes
apple ball cat	["apple", "ball", "cat"]	No commas, so space delimited
apple, ball cat	["apple", "ball cat"]	Comma present, so comma delimited
"apple, ball" cat dog	["apple, ball", "cat", "dog"]	All commas are quoted, so space delimited
"apple, ball", cat dog	["apple, ball", "cat dog"]	Contains an unquoted comma, so comma delimited
apple "ball cat" dog	["apple", "ball cat", "dog"]	No commas, so space delimited
"apple" "ball dog	["apple", "ball", "dog"]	Unclosed double quote is ignored

2.1 `commit=False`

If, when saving a form, you use the `commit=False` option you'll need to call `save_m2m()` on the form after you save the object, just as you would for a form with normal many to many fields on it:

```
if request.method == "POST":
    form = MyFormClass(request.POST)
    if form.is_valid():
        obj = form.save(commit=False)
        obj.user = request.user
        obj.save()
        # Without this next line the tags won't be saved.
        form.save_m2m()
```

Using tags in the admin

By default if you have a *TaggableManager* on your model it will show up in the admin, just as it will in any other form.

If you are specifying `ModelAdmin.fieldsets`, include the name of the *TaggableManager* as a field:

```
fieldsets = (
    (None, {'fields': ('tags')}),
)
```

3.1 Including tags in `ModelAdmin.list_display`

One important thing to note is that you *cannot* include a *TaggableManager* in `ModelAdmin.list_display`. If you do you'll see an exception that looks like:

```
AttributeError: '_TaggableManager' object has no attribute 'name'
```

This is for the same reason that you cannot include a `ManyToManyField`: it would result in an unreasonable number of queries being executed.

If you want to show tags in `ModelAdmin.list_display`, you can add a custom display method to the `ModelAdmin`, using `prefetch_related` to minimize queries:

```
class MyModelAdmin(admin.ModelAdmin):
    list_display = ['tag_list']

    def get_queryset(self, request):
        return super(MyModelAdmin, self).get_queryset(request).prefetch_related('tags
↪')

    def tag_list(self, obj):
        return u", ".join(o.name for o in obj.tags.all())
```

For details, see the [Django documentation](#).

After you've got your `TaggableManager` added to your model you can start playing around with the API.

```
class TaggableManager ([verbose_name="Tags", help_text="A comma-separated list of tags.",  
                        through=None, blank=False])
```

Parameters

- **verbose_name** – The verbose_name for this field.
- **help_text** – The help_text to be used in forms (including the admin).
- **through** – The through model, see *Customizing taggit* for more information.
- **blank** – Controls whether this field is required.

add (*tags)

This adds tags to an object. The tags can be either `Tag` instances, or strings:

```
>>> apple.tags.all()  
[]  
>>> apple.tags.add("red", "green", "fruit")
```

remove (*tags)

Removes a tag from an object. No exception is raised if the object doesn't have that tag.

clear ()

Removes all tags from an object.

set (*tags, clear=False)

If `clear = True` removes all the current tags and then adds the specified tags to the object. Otherwise sets the object's tags to those specified, removing only the missing tags and adding only the new tags.

similar_objects ()

Returns a list (not a lazy `QuerySet`) of other objects tagged similarly to this one, ordered with most similar first. Each object in the list is decorated with a `similar_tags` attribute, the number of tags it shares with this object.

If the model is using generic tagging (the default), this method searches tagged objects from all classes. If you are querying on a model with its own tagging through table, only other instances of the same model will be returned.

names ()

Convenience method, returning a `ValuesListQuerySet` (basically just an iterable) containing the name of each tag as a string:

```
>>> apple.tags.names()
[u'green and juicy', u'red']
```

slugs ()

Convenience method, returning a `ValuesListQuerySet` (basically just an iterable) containing the slug of each tag as a string:

```
>>> apple.tags.slugs()
[u'green-and-juicy', u'red']
```

Hint: You can subclass `_TaggableManager` (note the underscore) to add methods or functionality. `TaggableManager` takes an optional manager keyword argument for your custom class, like this:

```
class Food(models.Model):
    # ... fields here
    tags = TaggableManager(manager=_CustomTaggableManager)
```

4.1 Filtering

To find all of a model with a specific tags you can filter, using the normal Django ORM API. For example if you had a `Food` model, whose `TaggableManager` was named `tags`, you could find all the delicious fruit like so:

```
>>> Food.objects.filter(tags__name__in=["delicious"])
[<Food: apple>, <Food: pear>, <Food: plum>]
```

If you're filtering on multiple tags, it's very common to get duplicate results, because of the way relational databases work. Often you'll want to make use of the `distinct ()` method on `QuerySets`:

```
>>> Food.objects.filter(tags__name__in=["delicious", "red"])
[<Food: apple>, <Food: apple>]
>>> Food.objects.filter(tags__name__in=["delicious", "red"]).distinct()
[<Food: apple>]
```

You can also filter by the slug on tags. If you're using a custom `Tag` model you can use this API to filter on any fields it has.

5.1 Using a Custom Tag or Through Model

By default `django-taggit` uses a “through model” with a `GenericForeignKey` on it, that has another `ForeignKey` to an included `Tag` model. However, there are some cases where this isn’t desirable, for example if you want the speed and referential guarantees of a real `ForeignKey`, if you have a model with a non-integer primary key, or if you want to store additional data about a tag, such as whether it is official. In these cases `django-taggit` makes it easy to substitute your own through model, or `Tag` model.

To change the behavior there are a number of classes you can subclass to obtain different behavior:

Class name	Behavior
<code>TaggedItemBase</code>	Allows custom <code>ForeignKeys</code> to models.
<code>GenericTaggedItemBase</code>	Allows custom <code>Tag</code> models. Tagged models use an integer primary key.
<code>GenericUUIDTaggedItemBase</code>	Allows custom <code>Tag</code> models. Tagged models use a <code>UUID</code> primary key.
<code>CommonGenericTaggedItemBase</code>	Allows custom <code>Tag</code> models and <code>GenericForeignKeys</code> to models.
<code>ItemBase</code>	Allows custom <code>Tag</code> models and <code>ForeignKeys</code> to models.

5.1.1 Custom ForeignKeys

Your intermediary model must be a subclass of `taggit.models.TaggedItemBase` with a foreign key to your content model named `content_object`. Pass this intermediary model as the `through` argument to `TaggableManager`:

```
from django.db import models

from taggit.managers import TaggableManager
from taggit.models import TaggedItemBase

class TaggedFood(TaggedItemBase):
    content_object = models.ForeignKey('Food')
```

```
class Food(models.Model):
    # ... fields here

    tags = TaggableManager(through=TaggedFood)
```

Once this is done, the API works the same as for GFK-tagged models.

5.1.2 Custom GenericForeignKeys

The default `GenericForeignKey` used by `django-taggit` assume your tagged object use an integer primary key. For non-integer primary key, your intermediary model must be a subclass of `taggit.models.CommonGenericTaggedItemBase` with a field named `"object_id"` of the type of your primary key.

For example, if your primary key is a string:

```
from django.db import models

from taggit.managers import TaggableManager
from taggit.models import CommonGenericTaggedItemBase, TaggedItemBase

class GenericStringTaggedItem(CommonGenericTaggedItemBase, TaggedItemBase):
    object_id = models.CharField(max_length=50, verbose_name=_('Object id'), db_
↳index=True)

class Food(models.Model):
    food_id = models.CharField(primary_key=True)
    # ... fields here

    tags = TaggableManager(through=GenericStringTaggedItem)
```

5.1.3 GenericUUIDTaggedItemBase

Note: `GenericUUIDTaggedItemBase` relies on Django `UUIDField` introduced with Django 1.8. Therefore `GenericUUIDTaggedItemBase` is only defined if you are using Django 1.8+.

A common use case of a non-integer primary key, is UUID primary key. `django-taggit` provides a base class `GenericUUIDTaggedItemBase` ready to use with models using an UUID primary key:

```
from django.db import models
from django.utils.translation import ugettext_lazy as _

from taggit.managers import TaggableManager
from taggit.models import GenericUUIDTaggedItemBase, TaggedItemBase

class UUIDTaggedItem(GenericUUIDTaggedItemBase, TaggedItemBase):
    # If you only inherit GenericUUIDTaggedItemBase, you need to define
    # a tag field. e.g.
    # tag = models.ForeignKey(Tag, related_name="uuid_tagged_items", on_delete=models.
↳CASCADE)

    class Meta:
        verbose_name = _("Tag")
```



```

        verbose_name_plural = _("Tags")

class Food(models.Model):
    id = models.UUIDField(primary_key=True, default=uuid.uuid4, editable=False)
    # ... fields here

    tags = TaggableManager(through=UUIDTaggedItem)

```

5.1.4 Custom tag

When providing a custom Tag model it should be a ForeignKey to your tag model named "tag":

```

from django.db import models
from django.utils.translation import ugettext_lazy as _

from taggit.managers import TaggableManager
from taggit.models import TagBase, GenericTaggedItemBase

class MyCustomTag(TagBase):
    # ... fields here

    class Meta:
        verbose_name = _("Tag")
        verbose_name_plural = _("Tags")

    # ... methods (if any) here

class TaggedWhatever(GenericTaggedItemBase):
    # TaggedWhatever can also extend TaggedItemBase or a combination of
    # both TaggedItemBase and GenericTaggedItemBase. GenericTaggedItemBase
    # allows using the same tag for different kinds of objects, in this
    # example Food and Drink.

    # Here is where you provide your custom Tag class.
    tag = models.ForeignKey(MyCustomTag,
                           related_name="%s_%s_items")

class Food(models.Model):
    # ... fields here

    tags = TaggableManager(through=TaggedWhatever)

class Drink(models.Model):
    # ... fields here

    tags = TaggableManager(through=TaggedWhatever)

```

class TagBase

slugify (*tag*, *i=None*)

By default taggit uses `django.template.defaultfilters.slugify()` to calculate a slug

for a given tag. However, if you want to implement your own logic you can override this method, which receives the `tag` (a string), and `i`, which is either `None` or an integer, which signifies how many times the slug for this tag has been attempted to be calculated, it is `None` on the first time, and the counting begins at 1 thereafter.

5.2 Using a custom tag string parser

By default `django-taggit` uses `taggit.utils._parse_tags()` which accepts a string which may contain one or more tags and returns a list of tag names. This parser is quite intelligent and can handle a number of edge cases; however, you may wish to provide your own parser for various reasons (e.g. you can do some preprocessing on the tags so that they are converted to lowercase, reject certain tags, disallow certain characters, split only on commas rather than commas and whitespace, etc.). To provide your own parser, write a function that takes a tag string and returns a list of tag names. For example, a simple function to split on comma and convert to lowercase:

```
def comma_splitter(tag_string):  
    return [t.strip().lower() for t in tag_string.split(',') if t.strip()]
```

You need to tell `taggit` to use this function instead of the default by adding a new setting, `TAGGIT_TAGS_FROM_STRING` and providing it with the dotted path to your function. Likewise, you can provide a function to convert a list of tags to a string representation and use the setting `TAGGIT_STRING_FROM_TAGS` to override the default value (which is `taggit.utils._edit_string_for_tags()`):

```
def comma_joiner(tags):  
    return ', '.join(t.name for t in tags)
```

If the functions above were defined in a module, `appname.utils`, then your project `settings.py` file should contain the following:

```
TAGGIT_TAGS_FROM_STRING = 'appname.utils.comma_splitter'  
TAGGIT_STRING_FROM_TAGS = 'appname.utils.comma_joiner'
```

Contributing to taggit

Thank you for taking the time to contribute to django-taggit.

Follow these guidelines to speed up the process.

Table of Contents:

- *Contributing to taggit*
 - *Reach out before you start*
 - *Fork repo and install your fork*
 - *Running tests*
 - *Opening the django shell*
 - *Creating new migrations*
 - *Follow style conventions (PEP8, isort)*
 - *Update documentation*
 - *Send pull request*

6.1 Reach out before you start

Before opening a new issue, try the following steps:

- look if somebody else has already started working on the same issue by looking in the [github issues](#) and [pull requests](#)
- look also in the [django-taggit mailinglist](#)
- announce your intentions by opening a new issue
- present yourself on the mailing list

6.2 Fork repo and install your fork

Once you have forked this repository to your own github account or organization, install your own fork in your development environment:

```
git clone git@github.com:<your_fork>/django-taggit.git
cd django-taggit
python setup.py develop
```

6.3 Running tests

```
make test
```

6.4 Opening the django shell

```
./manage.py shell
```

6.5 Creating new migrations

```
./manage.py makemigrations
```

6.6 Follow style conventions (PEP8, isort)

Check that your changes are not breaking the style conventions with:

```
flake8 taggit
python setup.py isort
```

For more information, please see:

- [PEP8: Style Guide for Python Code](#)
- [isort: a python utility / library to sort imports](#)

6.7 Update documentation

If you introduce new features or change existing documented behavior, please remember to update the documentation!

The documentation is located in the `/docs` directory of the repository.

To do work on the docs, proceed with the following steps:

```
cd docs/
pip install sphinx
# update the text files with your favorite text editor
make html
```

6.8 Send pull request

Now is time to push your changes to github and open a [pull request](#)!

External Applications

In addition to the features included in `django-taggit` directly, there are a number of external applications which provide additional features that may be of interest.

Note: Despite their mention here, the following applications are in no way official, nor have they in any way been reviewed or tested.

If you have an application that you'd like to see listed here, simply fork [django-taggit on github](#), add it to this list, and send a pull request.

- `django-taggit-helpers`: Makes it easier to work with admin pages of models associated with `taggit` tags by adding helper classes: `TaggitCounter`, `TaggitListFilter`, `TaggitStackedInline`, `TaggitTabularInline`.
- `django-taggit-labels`: Provides a clickable label widget for the Django admin for user friendly selection from managed tag sets.
- `django-taggit-serializer`: Adds functionality for using `taggit` with `django-rest-framework`.
- `django-taggit-suggest`: Provides support for defining keyword and regular expression rules for suggesting new tags for content. This used to be available at `taggit.contrib.suggest`.
- `django-taggit-templatetags`: Provides several templatetags, including one for tag clouds, to expose various `taggit` APIs directly to templates.

8.1 0.22.2 (2017-12-27)

- Added support for Django 2.0
- <https://github.com/alex/django-taggit/pull/509>
- **Backwards incompatible:** Dropped support for EOL Python 3.3
- <https://github.com/alex/django-taggit/pull/512>

8.2 0.22.1 (2017-04-22)

- Update spanish translation
- <https://github.com/alex/django-taggit/pull/473>
- Add testing for Django 1.11 and Python 3.6
- <https://github.com/alex/django-taggit/pull/475>
- introduce isort and flake8 in the CI
- <https://github.com/alex/django-taggit/pull/476>
- [docs] Fixed links to external apps
- <https://github.com/alex/django-taggit/pull/481>
- Improved auto-slug in TagBase to support UUID pk
- <https://github.com/alex/django-taggit/pull/482>
- [docs] Added contribution guidelines
- <https://github.com/alex/django-taggit/pull/480>

8.3 0.22.0 (2017-01-29)

- **Backwards incompatible:** Drop support for Django 1.7
- <https://github.com/alex/django-taggit/pull/465>

8.4 0.21.6 (2017-01-25)

- Fix case-insensitive tag creation when setting to a mix of new and existing tags are used
- <https://github.com/alex/django-taggit/pull/464>

8.5 0.21.5 (2017-01-21)

- Check for case-insensitive duplicates when creating new tags
- <https://github.com/alex/django-taggit/pull/461>

8.6 0.21.4 (2017-01-10)

- Support `__gt__` and `__lt__` ordering on Tags
- <https://github.com/alex/django-taggit/pull/456>

8.7 0.21.3 (2016-10-07)

- Fix list view
- <https://github.com/alex/django-taggit/pull/444>

8.8 0.21.2 (2016-08-31)

- Update Python version classifiers in setup.py
- <https://github.com/alex/django-taggit/pull/438>
- Add Greek translation
- <https://github.com/alex/django-taggit/pull/439>

8.9 0.21.1 (2016-08-25)

- Document supported versions of Django; fix Travis to test these versions.
- <https://github.com/alex/django-taggit/pull/435>

8.10 0.21.0 (2016-08-22)

- Fix form tests on Django 1.10
- <https://github.com/alex/django-taggit/pull/433>
- Address list_display and fieldsets in admin docs
- <https://github.com/alex/django-taggit/pull/429>
- external_apps.txt improvements
- <https://github.com/alex/django-taggit/pull/428>
- Remove support for Django 1.4-1.6, again.
- <https://github.com/alex/django-taggit/pull/427>

8.11 0.20.2 (2016-07-11)

- Add extra_filters argument to the manager's most_common method
- <https://github.com/alex/django-taggit/pull/422>

8.12 0.20.1 (2016-06-23)

- Specify *app_label* for *Tag* and *TaggedItem*
- <https://github.com/alex/django-taggit/pull/420>

8.13 0.20.0 (2016-06-19)

- Fix UnboundLocalError in _TaggableManager.set(..)
- <https://github.com/alex/django-taggit/pull/418>
- Update doc links to reflect RTD domain changes
- <https://github.com/alex/django-taggit/pull/417>
- Improve Russian translations
- <https://github.com/alex/django-taggit/pull/416>

8.14 0.19.1 (2016-05-25)

- Add app config, add simplified Chinese translation file
- <https://github.com/alex/django-taggit/pull/410>

8.15 0.19.0 (2016-05-23)

- Implementation of m2m_changed signal sending
- <https://github.com/alex/django-taggit/pull/409>
- Code and tooling improvements
- <https://github.com/alex/django-taggit/pull/408>

8.16 0.18.3 (2016-05-12)

- Added Spanish and Turkish translations
- <https://github.com/alex/django-taggit/pull/402>

8.17 0.18.2 (2016-05-08)

- Add the min_count parameter to managers.most_common function
- <https://github.com/alex/django-taggit/pull/400>

8.18 0.18.1 (2016-03-30)

- Address deprecation warnings
- <https://github.com/alex/django-taggit/pull/385>

8.19 0.18.0 (2016-01-18)

- Add option to override default tag string parsing
- <https://github.com/alex/django-taggit/pull/232>
- Drop support for Python 2.6
- <https://github.com/alex/django-taggit/pull/373>

8.20 0.17.6 (2015-12-09)

- Silence Django 1.9 warning
- <https://github.com/alex/django-taggit/pull/366>

8.21 0.17.5 (2015-11-27)

- Django 1.9 compatibility fix
- <https://github.com/alex/django-taggit/pull/364>

8.22 0.17.4 (2015-11-25)

- Allows custom Through Model with GenericForeignKey
- <https://github.com/alex/django-taggit/pull/359>

8.23 0.17.3 (2015-10-26)

- Silence Django 1.9 warning about on_delete
- <https://github.com/alex/django-taggit/pull/338>

8.24 0.17.2 (2015-10-25)

- Django 1.9 beta compatibility
- <https://github.com/alex/django-taggit/pull/352>

8.25 0.17.1 (2015-09-10)

- Fix unknown column *object_id* issue with Django 1.6+
- <https://github.com/alex/django-taggit/pull/305>

8.26 0.17.0 (2015-08-14)

- Database index added on TaggedItem fields *content_type* & *object_id*
- <https://github.com/alex/django-taggit/pull/319>

8.27 0.16.4 (2015-08-13)

- Access default manager via class instead of instance
- <https://github.com/alex/django-taggit/pull/335>

8.28 0.16.3 (2015-08-08)

- Prevent IntegrityError with custom TagBase classes
- <https://github.com/alex/django-taggit/pull/334>

8.29 0.16.2 (2015-07-13)

- Fix an admin bug related to the *Manager* property *through_fields*
- <https://github.com/alex/django-taggit/pull/328>

8.30 0.16.1 (2015-07-09)

- Fix bug that assumed all primary keys are named 'id'
- <https://github.com/alex/django-taggit/pull/322>

8.31 0.16.0 (2015-07-04)

- Add option to allow case-insensitive tags
- <https://github.com/alex/django-taggit/pull/325>

8.32 0.15.0 (2015-06-23)

- Fix wrong slugs for non-latin chars
- Only works if optional GPL dependency (unidecode) is installed
- <https://github.com/alex/django-taggit/pull/315>
- <https://github.com/alex/django-taggit/pull/273>

8.33 0.14.0 (2015-04-26)

- Prevent extra JOIN when prefetching
- <https://github.com/alex/django-taggit/pull/275>
- Prevent `_meta` warnings with Django 1.8
- <https://github.com/alex/django-taggit/pull/299>

8.34 0.13.0 (2015-04-02)

- Django 1.8 support
- <https://github.com/alex/django-taggit/pull/297>

8.35 0.12.3 (2015-03-03)

- Specify that the internal type of the `TaggitManager` is a `ManyToManyField`

8.36 0.12.2 (2014-21-09)

- Fixed 1.7 migrations.

8.37 0.12.1 (2014-10-08)

- Final (hopefully) fixes for the upcoming Django 1.7 release.
- Added Japanese translation.

8.38 0.12.0 (2014-20-04)

- **Backwards incompatible:** Support for Django 1.7 migrations. South users have to set `SOUTH_MIGRATION_MODULES` to use `taggit.south_migrations` for taggit.
- **Backwards incompatible:** Django's new transaction handling is used on Django 1.6 and newer.
- **Backwards incompatible:** `Tag.save` got changed to opportunistically try to save the tag and if that fails fall back to selecting existing similar tags and retry – if that fails too an `IntegrityError` is raised by the database, your app will have to handle that.
- Added Italian and Esperanto translations.

8.39 0.11.2 (2013-13-12)

- Forbid multiple TaggableManagers via generic foreign keys.

8.40 0.11.1 (2013-25-11)

- Fixed support for Django 1.4 and 1.5.

8.41 0.11.0 (2013-25-11)

- Added support for `prefetch_related` on tags fields.
- Fixed support for Django 1.7.
- Made the tagging relations unserializable again.
- Allow more than one TaggableManager on models (assuming concrete FKs are used for the relations).

8.42 0.10.0 (2013-17-08)

- Support for Django 1.6 and 1.7.
- Python3 support
- **Backwards incompatible:** Dropped support for Django < 1.4.5.

- Tag names are unique now, use the provided South migrations to upgrade.

8.43 0.9.2 (2011-01-17)

- **Backwards incompatible:** Forms containing a *TaggableManager* by default now require tags, to change this provide `blank=True` to the *TaggableManager*.
- Now works with Django 1.3 (as of beta-1).

8.44 0.9.0 (2010-09-22)

- Added a Hebrew locale.
- Added an index on the `object_id` field of *TaggedItem*.
- When displaying tags always join them with commas, never spaces.
- The docs are now available [online](#).
- Custom Tag models are now allowed.
- **Backwards incompatible:** Filtering on tags is no longer `filter(tags__in=["foo"])`, it is written `filter(tags__name__in=["foo"])`.
- Added a German locale.
- Added a Dutch locale.
- Removed `taggit.contrib.suggest`, it now lives in an external application, see *External Applications* for more information.

8.45 0.8.0 (2010-06-22)

- Fixed querying for objects using `exclude(tags__in=tags)`.
- Marked strings as translatable.
 - Added a Russian translation.
- Created a [mailing list](#).
- Smarter tagstring parsing for form field; ported from Jonathan Buchanan's *django-tagging*. Now supports tags containing commas. See *Tags in forms* for details.
- Switched to using savepoints around the slug generation for tags. This ensures that it works fine on databases (such as Postgres) which dirty a transaction with an *IntegrityError*.
- Added Python 2.4 compatibility.
- Added Django 1.1 compatibility.

CHAPTER 9

Indices and tables

- [genindex](#)
- [modindex](#)
- [search](#)

A

add() (TaggableManager method), 9

C

clear() (TaggableManager method), 9

N

names() (TaggableManager method), 10

R

remove() (TaggableManager method), 9

S

set() (TaggableManager method), 9

similar_objects() (TaggableManager method), 9

slugify() (TagBase method), 13

slugs() (TaggableManager method), 10

T

TagBase (built-in class), 13

TaggableManager (built-in class), 9