
Easy-select2 Documentation

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Contents:

Installation

1. install this package as usual, using `python setup.py install`, `pip install django-easy-select2` or download sources and install to your python path.
2. add `easy_select2` to `INSTALLED_APPS` in your `settings.py`
3. Use `python manage.py collectstatic` or manually copy `easy_select2`'s static directory to your project's static directory (if you serve your static with `nginx`, for example).
4. Modify your `admin.py`.
5. Check out admin in browser.

Quickstart

In your `admin.py`:

```
from django.contrib import admin
from easy_select2 import select2_modelform
from polls.models import Poll
```

```
PollForm = select2_modelform(Poll, attrs={'width': '250px'})
```

```
class PollAdmin(admin.ModelAdmin):
    form = PollForm
```

That's all. All your choice widgets are select2 widgets 250px wide.

Configuration

`django-easy-select2` bundles jQuery and Select2 static files. You can use them, or specify your own files to include in widget.

To use bundled static, just install an application.

To use your custom static files, you can specify next settings in your `settings.py`:

- `SELECT2_JS` - path to `select2.js` file. Specify path without static directory, because full URL will be interpolated using `static` function from `staticfiles` application. Default: `easy_select2/vendor/select2/select2.min.js`
- `SELECT2_CSS` - path to `select2.css` file. Default: `easy_select2/vendor/select2/select2.min.css`
- `SELECT2_USE_BUNDLED_JQUERY` - default is `True`. Set to `False` if you already have included custom jQuery.

Usage

There are `Select2` and `Select2Multiple` widget classes for choice fields and `Select2TextInput` for non-choice fields which can provide a list of pre-set choices, or can accept arbitrary input.

You can use `Select2` and `Select2Multiple` on any form field, as usual django widget:

```
class Form(forms.Form):
    field = forms.ModelChoiceField(queryset=qs, widget=Select2())
```

or:

```
class Form(forms.Form):
    field = forms.ModelChoiceField(queryset=qs, widget=Select2Multiple(
        select2attrs={'width': 'auto'}
    ))
```

`Select2` and `Select2Multiple` is simple classes build with `Select2Mixin`:

```
class Select2Multiple(Select2Mixin, forms.SelectMultiple):
    pass

class Select2(Select2Mixin, forms.Select):
    pass
```

`Select2Mixin` is a simple widget mixin with predefined `Media` class and custom render method, which applies `$.fn.select2()` method on html input.

To use `Select2TextInput` do NOT set a choices attribute on the model field, but DO supply a `data` attribute to `select2attrs` that contains a list of dictionaries each having at least an `id` and `text` terms like so:

```
form.fields['myfield'].widget = Select2TextInput(
    select2attrs={
        'data': [ {'id': 'your data', 'text': 'your data'}, ... ],
    },
)
```

`Select2TextInput` will be rendered as combo-box widget that can accept arbitrary input, but also has some default choices for user.

Warning: Since version 1.2.9 `select2attrs` should be of type `dict` or `AssertionError` will be raised.

If you want to use it with all form fields automatically, without specifying each field, you can create your `ModelForm` class with `Meta` class constructed by custom `Meta` factory:

```
from easy_select2 import select2_modelform_meta
```

```
class SomeModelForm(forms.ModelForm):
    Meta = select2_modelform_meta(SomeModel)
```

`select2_modelform_meta()` is a simple factory, that produces a `Meta` class with `model` attribute set to specified model and `widgets` attribute set to dictionary, containing all selectable fields on model. Every selectable field will be converted from standard widget to `Select2` or `Select2Multiple` widget.

If you are lazy, you can use `ModelForm` factory to build ready-to-use `ModelForm` for model with `select2_modelform()`:

```
from easy_select2 import select2_modelform
```

```
MyModelForm = select2_modelform(MyModel)
```

is the same like:

```
class MyModelForm(forms.ModelForm):
    Meta = select2_modelform_meta(models.SomeModelForm)
```

You can also specify your base form class instead of default `forms.ModelForm`:

```
from easy_select2 import select2_modelform
```

```
MyModelForm = select2_modelform(MyModel, form_class=forms.ModelForm)
```

`MyModelForm` is an instance of `ModelForm` with `model` attribute set to `MyModel`, and appropriate `Meta` class.

There is also an `apply_select2()` function that dynamically creates new widget class mixed with `Select2Mixin`.

Usage, for example:

```
class SomeModelForm(admin.ModelAdmin):
    class Meta:
        widgets = {
            'field': apply_select2(forms.Select),
        }
```

So, `apply_select2(forms.Select)` will return new class, named `Select2Select`, mixed with `Select2Mixin`.

5.1 Widgets

class `easy_select2.widgets.Select2` (*select2attrs=None, *args, **kwargs*)
 Implement single-valued select widget with Select2.

class `easy_select2.widgets.Select2Mixin` (*select2attrs=None, *args, **kwargs*)
 This mixin provides a mechanism to construct custom widget class, that will be rendered using Select2 input.
 Generally should be mixed with widgets that render select input.

get_options ()
 Return dictionary of options to be used by Select2.

render (**args, **kwargs*)
 Extend base class's *render* method by appending javascript inline text to html output.

render_js_code (*id_, *args, **kwargs*)
 Render html container for Select2 widget with options.

render_select2_options_code (*options, id_*)
 Render options for select2.

class `easy_select2.widgets.Select2Multiple` (*select2attrs=None, *args, **kwargs*)
 Implement multiple select widget with Select2.

class `easy_select2.widgets.Select2TextInput` (*select2attrs=None, *args, **kwargs*)
 A Select2-enabled combo box for non-choice fields which can provide a list of pre-set choices, or can accept arbitrary input.

To use this, do NOT set a *choices* attribute on the model field, but DO supply a *data* attribute to *select2attrs* that contains a list of dictionaries each having at least an *id* and *text* terms like so:

```
form.fields['myfield'].widget = Select2TextInput (
    select2attrs={
        'data': [ {'id': 'your data', 'text': 'your data'}, ... ],
    },
)
```

class `easy_select2.widgets.Select2TextMixin` (*select2attrs=None, *args, **kwargs*)
 This mixin provides a mechanism to construct custom widget class, that will be rendered using Select2.

It will work as `Select2Mixin` if there is no *data* attribute in *select2attrs*. If *data* attribute is passed, Select2 will be configured to use pre-set list of choices.

Generally should be mixed with widgets, that renders as text input.

5.2 Utils

`easy_select2.utils.apply_select2(widget_cls)`

Dynamically create new widget class mixed with Select2Mixin.

Args: `widget_cls`: class of source widget.

Usage, for example:

```
class SomeModelForm(admin.ModelAdmin):
    class Meta:
        widgets = {
            'field': apply_select2(forms.Select),
        }
```

So, `apply_select2(forms.Select)` will return new class, named `Select2Select`.

`easy_select2.utils.select2_meta_factory(model, meta_fields=None, widgets=None, attrs=None)`

Return *Meta* class with Select2-enabled widgets for fields with choices (e.g. `ForeignKey`, `CharField`, etc) for use with `ModelForm`.

Attrs argument is select2 widget attributes (width, for example) and must be of type *dict*.

`easy_select2.utils.select2_modelform(model, attrs=None, form_class=<class 'django.forms.models.ModelForm'>)`

Return `ModelForm` class for model with select2 widgets.

Arguments: *attrs*: select2 widget attributes (width, for example) of type *dict*. *form_class*: modelform base class, `forms.ModelForm` by default.

```
SomeModelForm = select2_modelform(models.SomeModelBanner)
```

is the same like:

```
class SomeModelForm(forms.ModelForm):
    Meta = select2_modelform_meta(models.SomeModelForm)
```

`easy_select2.utils.select2_modelform_meta(model, meta_fields=None, widgets=None, attrs=None)`

Return *Meta* class with Select2-enabled widgets for fields with choices (e.g. `ForeignKey`, `CharField`, etc) for use with `ModelForm`.

Attrs argument is select2 widget attributes (width, for example) and must be of type *dict*.

Sampleproject

Sample project useful for testing django applications and other utility needs.

6.1 Installation

1. `git clone https://github.com/asyncee/django-easy-select2.git`
2. `cd django-easy-select2/sampleproject`
3. `./bootstrap.sh` - creates virtualenv and installs django (from requirements.txt)
4. `source env/bin/activate`
5. `./manage.py syncdb --migrate`

6.2 Configuration

Project ships with sane defaults (settings are pretty verbose):

- sqlite3 database
- filebased cache in /tmp
- cached sessions
- console email backend
- non-cached template loaders
- `css/js/img` default static dirs
- default `templates` directory
- nice default loggers

6.3 Usage

After you bootstrapped a project, you can fill it with some data and play with Note model admin.

Changelog

7.1 Version 1.2

7.1.1 1.2.10

- fixed issue#14 - README.rst is not included in MANIFEST.in

7.1.2 1.2.9

- fixed issue#12 “Inline relations: “Add another <Model>” breaks dropdown boxes”

Warning: Version 1.2.9 introduced backward incompatible change: `select2attrs` argument of `Select2Mixin.__init__` must be of type dict

7.1.3 1.2.8

- fixed incorrect instructions in `help_text` of ManyToMany fields #2, thanks to *bashu*.

7.1.4 1.2.7

- `setup.py` fixes (issue #11), thanks to *JensTimmerman*.

7.1.5 1.2.6

- Extended `select2_modelform` function with `form_class` argument to specify form base class explicitly (issue #10).

7.1.6 1.2.5

- Fixed issue #9 “`apply_select2` not imported in `__init__`” thanks to *ocZio* for bug report.

7.1.7 1.2.4

- Fixed issue #6 “Select will not update selection after adding a new option”, thanks to *ismaelbej* for bug report.

7.1.8 1.2.3

- Python 3.3 support, thanks to *dzerrenner*

7.1.9 1.2.2

- Rendering `select2attrs` as unicode or json based on type

Now, if `select2attrs` is instance of `basestring` (`str` or `unicode`), it will be casted to `unicode`, else it will be turned to `json` string.

7.1.10 1.2.1

- Extended package-level imports with `Select2TextInput`

7.1.11 1.2.0

- added `Select2TextInput`, thanks to *mkoistinen*

7.2 Version 1.1

7.2.1 1.1.1

- issue#1 fix (django-admin-sortable compatibility), thanks to *@mkoistinen*

Introduction

This is django application that brings select2 widget to select inputs in admin.

8.1 How it looks

Select one of existing values with single-valued choice field (`ForeignKeyField`, for example): Easily select 1 or more “categories” for your project, you can also add a new one in the normal, Django-Admin manner by using the green + button with multiple-valued choice field (`ManyToManyField`): Don’t see the “mood” you want? No problem, just type in a new one. It will be there as a choice for the next time too (text input). Continue to *Installation*.

Indices and tables

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