djangocms-cascade Documentation

Release 0.6.2

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Project's home

Check for the latest release of this project on Github.

Please report bugs or ask questions using the Issue Tracker.

In **DjangoCMS-Cascade** version 0.4.0, the code base has been hugely refactored. If you where using version 0.3.2 upgrade carefully, since the API changed. Please contact me directly in case you need help to migrate your projects.

Project's goals

- 1. Create a modular system, which allows programmers to add simple widget code, without having to implement an extra Django-CMS plugins for each of them.
- 2. Make available a meaningful subset of widgets as available for the most common CSS frameworks, such as Twitter Bootstrap and Grid System 960. With this special **DjangoCMS Plugin**, in many configurations, **DjangoCMS** can be operated using one single template, containing one generic placeholder.
- 3. Extend this DjangoCMS plugin, to be used with other CSS frameworks such as Foundation 5, Unsemantic and others.

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Contents:

3.1 For the Impatient

This HowTo gives you a quick instruction on how to get a demo of **djangocms-cascade** up and running. It also is a good starting point to ask questions or report bugs, since its backend is used as a fully functional reference implementation, used by the unit tests of project.

3.1.1 Create a Python Virtual Environment

To keep environments separate, first create a virtualenv.

```
#!/bin/sh
sudo pip install --upgrade virtualenv
virtualenv --distribute --no-site-packages myvirtualenv
source myvirtualenv/bin/activate
(myvirtualenv)$
```

3.1.2 Clone the latest stable releases

Create a temporary file, for instance named requirements.txt, containing these entries:

```
Django==1.6.11
Django-Select2==4.2.2
Pillow==2.7.0
South==1.0.2
Unidecode==0.04.17
argparse==1.3.0
django-classy-tags==0.6.1
django-cms==3.0.10
django-filer==0.9.9
django-mptt==0.6.1
django-polymorphic==0.6.1
django-sekizai == 0.8.1
djangocms-admin-style==0.2.5
-e git+https://github.com/jrief/djangocms-bootstrap3.git#egg=djangocms-bootstrap3
-e git+https://github.com/jrief/djangocms-cascade.git#egg=djangocms-cascade
djangocms-text-ckeditor==2.4.3
-e git+https://github.com/SmileyChris/easy-thumbnails#egg=easy-thumbnails
html5lib==0.999
jsonfield==1.0.2
```

```
six==1.9.0
wsgiref==0.1.2
```

and install them into your environment:

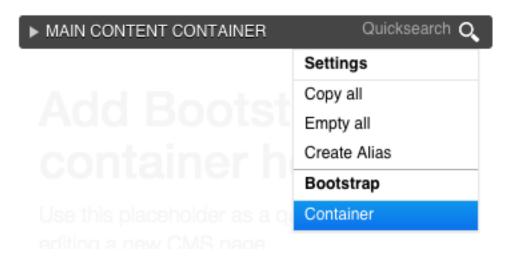
```
pip install -r requirements.txt
```

this will take a few minutes. After the installation finished, change into the folder containing the demo application, install missing CSS and JavaScript files, initialize the database and create a superuser:

```
cd $VIRTUAL_ENV/src/djangocms-cascade
bower install --require
cd examples
cd examples
./manage.py syncdb --migrate --settings=bs3demo.settings
./manage.py runserver --settings=bs3demo.settings
```

Point a browser onto http://localhost:8000/ and log in as the super user. Here you should be able to add your first page. Do this by changing into into **Structure** mode on the top of the page. Now a large dark bar named MAIN CONTENT CONTAINER appears. This bar symbolizes a **djangoCMS** Placeholder.

Locate the menu handle on the right of the bar. From its context menu select **Container** located in the section **Bootstrap**:



This brings you into the editor mode for a Bootstrap container. To this container you may add one or more Bootstrap **Rows**. Inside these rows you may organize the layout using some Bootstrap **Columns**.

Please proceed with the detailled explanation on how to use the Bootstrap's grid system within djangocms-cascade.

3.2 Introduction

DjangoCMS-Cascade is a collection of plugins for Django-CMS >3.0 to add various HTML elements from CSS frameworks, such as Twitter Bootstrap or the Grid System 960 to the Django templatetag placeholder. This Django App makes it very easy to add other CSS frameworks, or to extend an existing collection with additional elements.

DjangoCMS-Cascade allows web editors to layout their pages, without having to create different Django templates for each layout modification. In most cases, one template with one single placeholder is enough. The editor then can subdivide that placeholder into rows and columns, and add additional DOM elements such as buttons, rulers, or even the Bootstrap Carousel. Some basic understanding on how the DOM works is required though.

Twitter Bootstrap is a well documented CSS framework which gives web designers lots of possibilities to add a consistent structure to their pages. This collection of Django-CMS plugins offers a subset of these predefined elements to web designers.

Grid System 960 is a wildly used CSS framework, which offers a fixed-sized grid system made out of 12 or alternatively 16 columns.

3.2.1 Extensibility

This module requires one database table with one column to store all data in a JSON object. All **DjangoCMS-Cascade** plugins share this same model, therefore they can be easily extended, because new data structures are added to that JSON object without requiring a database migration.

Another three database tables are required for additional optional features.

3.3 Installation

Install the latest stable release

```
$ pip install djangocms-cascade
```

or the current development release from github

```
$ pip install -e git+https://github.com/jrief/djangocms-cascade.git#egg=djangocms-cascade
```

3.3.1 Dependencies

- Django >=1.6
- DjangoCMS >=3.0.8

3.3.2 Create a database schema

if you use Django-1.7 or higher

```
./manage.py migrate cmsplugin_cascade
```

if you use Django-1.6

```
./manage.py syncdb --migrate
```

3.3.3 Install Bootstrap

Since the Bootstrap CSS and JavaScript files are part of their own repository, they are not shipped within this package. Furthermore, as they are not part of the PyPI network, they have to be installed through another package manager, namely bower.

```
cd djangocms-cascade
bower install --require
```

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Alternatively copy the installed bower_components into a directory of your project or to any other meaningful location, but ensure that the directory bower_components can be found by your StaticFileFinder. In doubt, add that directory to your STATICFILES DIRS:

```
STATICFILES_DIRS = (
    os.path.abspath(os.path.join(MY_PROJECT_DIR, 'bower_components')),
)
```

3.3.4 Configuration

Add 'cmsplugin_cascade' to the list of INSTALLED_APPS in the project's settings.py file. Optionally add 'cmsplugin_cascade.extra_fields' and/or 'cmsplugin_cascade.sharable' to the list of INSTALLED_APPS. Make sure that these entries are located before the entry cms.

Configure the CMS plugin

Activate the plugins

By default, no **djangocms-cascade** plugins is activated. Activate them in the project's settings.py with the directive CMSPLUGIN_CASCADE_PLUGINS.

To activate all available Bootstrap plugins, use:

```
CMSPLUGIN_CASCADE_PLUGINS = ('cmsplugin_cascade.bootstrap3',)
```

If for some reason, only a subset of the available Bootstrap plugins shall be activated, name each of them. If for example only the grid system shall be used, but no other Bootstrap plugins, then configure:

```
CMSPLUGIN_CASCADE_PLUGINS = ('cmsplugin_cascade.bootstrap3.container',)
```

A useful generic plugin is the Link-plugin. It replaces the djangocms-link-plugin, normally used together with the CMS.

```
CMSPLUGIN_CASCADE_PLUGINS += ('cmsplugin_cascade.link',)
```

Restrict plugins to a particular placeholder

This setting is optional, but strongly recommended. It exclusively restricts the plugin BootstrapContainerPlugin to the placeholder Page Content (see below)

```
CMS_PLACEHOLDER_CONF = {
    'Page Content': {
        'plugins': ['BootstrapContainerPlugin'],
     },
}
```

If this setting is omitted, then one can add any plugin to the named placeholder, which normally is undesired, because it can break the page's grid.

Define the leaf plugins

Leaf plugins are those, which contain real data, say text or images. Hence the default setting is to allow the **TextPlugin** and the **FilerImagePlugin** as leafs. This can be overridden using the configuration directive

```
CMSPLUGIN_CASCADE_ALIEN_PLUGINS = ('TextPlugin', 'FilerImagePlugin', 'OtherLeafPlugin',
```

Bootstrap 3 with AngularJS

Some Bootstrap3 plugins can be rendered using templates which are suitable for the very popular Angular UI Bootstrap framework. This can be done during runtime; when editing the plugin a select box appears which allows to chose an alternative template for rendering.

3.3.5 Template Customization

Make sure that the style sheets are referenced correctly by the used templates. DjangoCMS requires Django-Sekizai to organize these includes, so a strong recommendation is to use that Django app.

The templates used for a DjangoCMS project shall include a header, footer and the menu bar, but should leave out an empty working area. When using HTML5, wrap this area into an <article> or <section> element. This placeholder shall be named using a meaningless identifier, for instance "Page Content" or similar:

```
<section>{% placeholder "Page Content" %}</section>
```

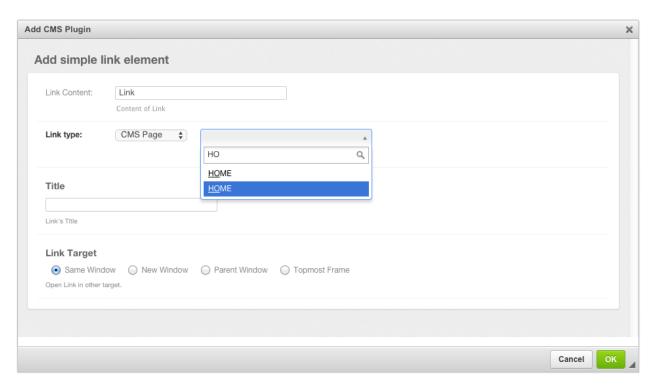
From now on, the page layout can be adopted inside this placeholder, without having to fiddle with template coding anymore.

3.4 Link Plugin

djangocms-cascade ships with its own Link plugin. This is because other plugins from **djangocms-cascade**, such as ButtonPlugin, ImagePlugin or PicturePlugin require the functionality to set links to internal- and external URLs. The de-facto plugin for links, djangocms-link can't be used as a base class for these plugins, therefore an alternative implementation has been created. And as all other Cascade plugins, the LinkPlugin also keeps its data in a JSON field.

Before using this plugin, assure that 'cmsplugin_cascade.link' is member of the list or tuple CMSPLUGIN_CASCADE_PLUGINS in the project's settings.py.

3.4. Link Plugin 9



The behavior of this Plugin is what you expect from a Link editor. The field **Link Content** is the text displayed between the opening and closing <a> tag. If used in combination with djangocms-text-ckeditor the field automatically is filled out

By changing the **Link type**, the user can choose between three types of Links:

- Internal Links pointing to another page inside the CMS.
- External Links pointing to a valid Internet URL.
- Links pointing to a valid e-mail address.

The optional field **Title** can be used to add a title="some value" attribute to the <a href ...> element.

With **Link Target**, the user can specify, whether the linked content shall open in the current window or if the browser shall open a new window.

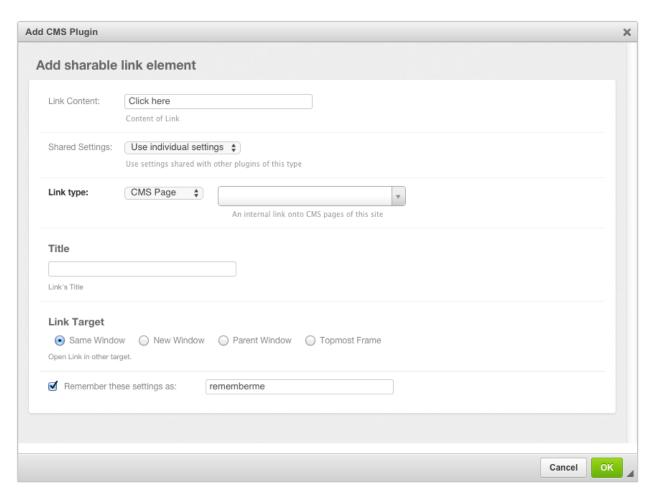
3.4.1 Link Plugin with sharable fields

If your web-site contains many links pointing onto external URLs, you might want to refer to them by a symbolic name, rather than having to reenter the URL repeatedly. With **djangocms-cascade** this can be achieved easily by declaring some of the plugin's fields as "sharable".

Assure that INSTALLED_APPS contain 'cmsplugin_cascade.sharable', then redefine the TextLinkPlugin to have sharable fields in settings.py:

```
CMSPLUGIN_CASCADE_WITH_SHARABLES = {
    ...
    'TextLinkPlugin': ('link',), # and optionally other fields
    ...
}
```

This will change the Link Plugin's editor slightly. Note the extra field added to the bottom of the form.



Now the URL for this ink entity is stored in a central entity. This feature is useful, if for instance the URL of an external web page may change in the future. Then the administrator can change that link in the administration area once, rather than having to go through all the pages and check if that link was used.

To retain the Link settings, click onto the checkbox *Remember these settings as:* ... and give it a name of your choice. The next time your create a Shared Link element, you may select a previously named settings from the select field *Shared Settings*. Since these settings can be shared among other plugins, these input fields are disabled and can't be changed anymore.

Changing shared settings

The settings of a shared plugin can be changed globally, for all plugins using them. To edit such a shared setting, in the Django Admin, go into the list view for **Home > Cmsplugin_cascade > Shared between Plugins** and choose the named shared settings.

Please note, that each plugin type can specify which fields shall be sharable between its plugins. In this example, only the Link itself is shared, but one could configure **djangocms-cascade** to also share the title and/or the link's target tags.

Then only these fields are editable in the detail view **Shared between Plugins**. The interface for other shared plugin may vary substantially, depending of their type definition.

3.4. Link Plugin

3.4.2 Extending the Link Plugin

While programming third party modules for Django, one might have to access a model instance through a URL and thus add the method get_absolute_url to that Django model. Since such a URL is neither a CMS page, nor a URL to an external web page, it would be convenient to access that model using a special Link type.

For example, this special Link plugin is used by **djangoSHOP** to allow direct linking from a CMS page to a shop's product.

```
# -*- coding: utf-8 -*-
      from django.utils.translation import ugettext_lazy as _
      from django.db.models import get_model
      from django.core.exceptions import ObjectDoesNotExist
      from django select2.fields import AutoModelSelect2Field
      from cms.plugin_pool import plugin_pool
      from cmsplugin_cascade.link.forms import TextLinkForm
      from cmsplugin_cascade.link.models import SimpleLinkElement
      from cmsplugin_cascade.link.plugin_base import TextLinkPluginBase
      from cmsplugin_cascade.utils import resolve_dependencies
10
       from shop.models.product import Product
11
12
13
      class ProductSearchField (AutoModelSelect2Field) :
14
               empty_value = []
15
               search_fields = ['product_code__startswith', 'translations__name__startswith']
16
               queryset = Product.objects.all()
17
18
               def security_check(self, request, *args, **kwargs):
19
                        user = request.user
20
                        if user and not user.is_anonymous() and user.is_staff:
21
                                 return True
22
                        return False
23
24
               def prepare_value(self, value):
25
                        if not value:
26
                                 return None
27
                        return super (ProductSearchField, self).prepare_value(value)
28
29
30
      class LinkForm(TextLinkForm):
31
               LINK_TYPE_CHOICES = (('cmspage', _("CMS Page")), ('product', _("Product")), ('exturl', _("Externational transformation of the content of the 
32
               product = ProductSearchField(required=False, label='',
33
                        help_text=_("An internal link onto a product from the shop"))
34
35
               def clean_product(self):
36
                        if self.cleaned_data.get('link_type') == 'product':
37
                                 self.cleaned_data['link_data'] = {
38
                                          'type': 'product',
39
                                          'model': 'shop.Product',
40
                                          'pk': self.cleaned_data['product'] and self.cleaned_data['product'].pk or None,
41
42
43
               def set_initial_product(self, initial):
44
                        try:
45
                                Model = get_model(*initial['link']['model'].split('.'))
46
                                 initial['product'] = Model.objects.get(pk=initial['link']['pk'])
47
                        except (KeyError, ObjectDoesNotExist):
                                pass
```

```
class LinkPlugin(TextLinkPluginBase):
    model = SimpleLinkElement
    fields = ('link_content', ('link_type', 'cms_page', 'product', 'ext_url', 'mail_to'), 'glossary'
    form = LinkForm

class Media:
    js = resolve_dependencies('shop/js/admin/linkplugin.js')

plugin_pool.register_plugin(LinkPlugin)
```

When using this implementation, remember to change CMSPLUGIN_CASCADE_PLUGINS in your project's settings.py to that alternative Link plugin.

Now the select box for **Link type** will offer one additional option: "Product". When this is selected, the site administrator can choose between all of the shops products.

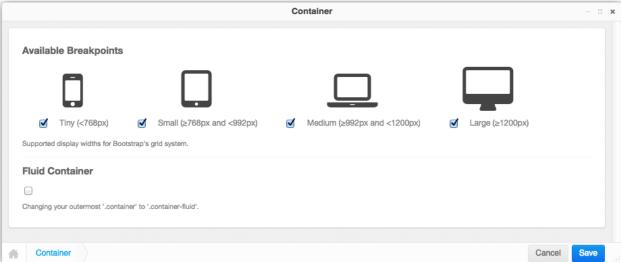
3.5 Bootstrap 3 Grid system

In order to take full advantage of **djangocms-cascade**, you should be familiar with the concepts of the Bootstrap Grid System, since all other Bootstrap components depend upon.

3.5.1 Bootstrap Container

A **Container** is the outermost component the Bootstrap framework knows of. Here the designer can specify the breakpoints of a web page. By default, Bootstrap offers 4 breakpoints: "large", "medium", "small" and "tiny". These determine for which kind of screen widths, the grid system may switch the layout.

The editor window for a Container element offers the possibility to deactivate certain breakpoints. While this might make sense under certain conditions, it is safe to always keep all four breakpoints active, since this gives the designer of the web page the maximum flexibility.



Small devices exclusively

If the web page shall be optimized just for small but not for large devices, then disable the breakpoints for **Large** and/or **Medium**. In the project's style-sheets, the maximum width of the container element then must be reduced to

that chosen breakpoint:

```
@media(min-width: 1200px) {
   .container {
    max-width: 970px;
   }
}
```

or, if you prefers the SASS syntax:

```
@media(min-width: $screen-lg) {
   .container {
    max-width: $container-desktop;
   }
}
```

Large devices exclusively

If the web page shall be optimized just for large but not for small devices, then disable the breakpoints for **Tiny** and/or **Small**.

Changing the style-sheets then is not required for this configuration setting.

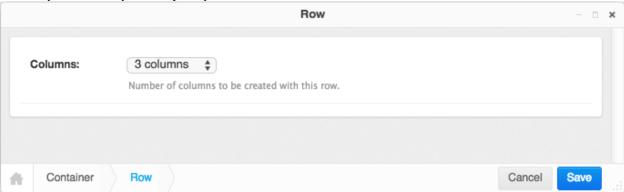
Fluid Container

A variant of the normal Bootstrap Container is the Fluid Container. It can be enabled by a checkbox in the editors window. Fluid Containers have no hards breakpoints, they adopt their width to whatever the browser pretends.

A fluid container makes it impossible to determine the maximum width of responsive images in advance. Hence, if responsive images shall be used, its use is discouraged. Please also see the note below.

3.5.2 Bootstrap Row

Each Bootstrap Container may contain one or more Bootstrap Rows. A row does not accept any configuration setting. However, while editing, one can specify the number of columns. When adding or changing a row, then this number of columns are added if its value exceeds the current number of columns. Reducing the number of columns does not delete any of them; they must explicitly be chosen from the context menu in structure view.



3.5.3 Horizontal Rule

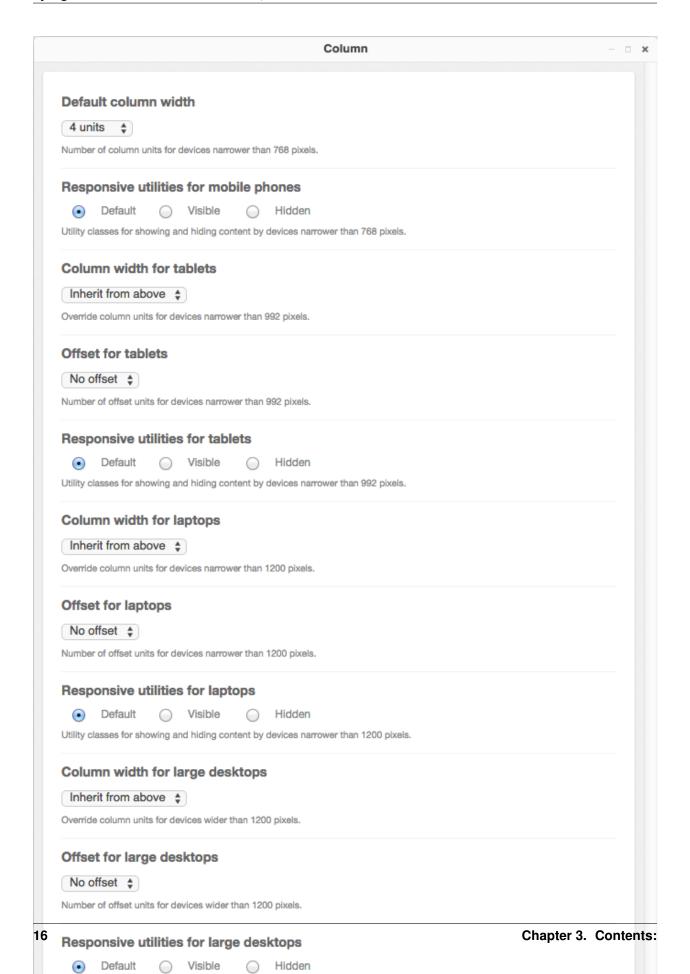
A horizontal rule is used to separate rows optically from each other.



3.5.4 Column

In the column editor, one can specify the width, the offset and the visibility of each column. These values can be set for each of the four breakpoints (*tiny*, *small*, *medium* and *large*), as specified by the Container plugin.

At the beginning this may feel rather complicate, but consider that **Bootstrap 3** is **mobile first**, therefore all column settings, *first* are applied to the narrow breakpoints, which *later* can be overridden for larger breakpoints at a later stage. This is the reason why this editor starts with the *column widths* and *column offsets* for tiny rather than for large displays.



Utility classes for showing and hiding content by devices wider than 1200 pixels.

Note: If the current column is member of a container which disables some of its breakpoints (*large*, *medium*, *small* or *tiny*), then that column editor shows up only with the input fields for the enabled breakpoints.

3.5.5 Complete DOM Structure

After having added a container with different rows and columns, you may add the leaf plugins. These hold the actual content, such as text and images.



By pressing the button **Publish changes**, the single blocks are regrouped and displayed using the Bootstrap's grid system.

3.5.6 Adding Plugins into a hard coded grid

Sometimes the given Django template already defines a Bootstrap container, or even a row inside a container component. Example:

```
<div class="container">
    {% placeholder "Row Content" %}
</div>
```

or

Here the Django templatetag {% placeholder "Row Content" %} requires a Row-rather than a Container-plugin; and the templatetag {% placeholder "Column Content" %} requires a Column-plugin. Hence we must tell **djangocms-cascade** which breakpoints shall be allowed and what the containers extensions shall be. This must be hard-coded inside your setting.py:

```
CMS_PLACEHOLDER_CONF = {
    # for a row-like placeholder configuration ...
    'Row Content': {
        'plugins': ['BootstrapRowPlugin'],
```

```
'parent_classes': {'BootstrapRowPlugin': []},
     'require_parent': False,
     'glossary': {
         'breakpoints': ['xs', 'sm', 'md', 'lg'],
         'container_max_widths': {'xs': 750, 'sm': 750, 'md': 970, 'lg': 1170},
         'fluid': False,
         'media_queries': {
             'xs': ['(max-width: 768px)'],
              'sm': ['(min-width: 768px)', '(max-width: 992px)'],
'md': ['(min-width: 992px)', '(max-width: 1200px)'],
              'lg': ['(min-width: 1200px)'],
         },
    }
},
# or, for a column-like placeholder configuration ...
'Colummn Content': {
    'plugins': ['BootstrapColumnPlugin'],
     'parent_classes': {'BootstrapColumnPlugin': []},
     'require_parent': False,
     'glossary': {
         'breakpoints': ['xs', 'sm', 'md', 'lg'],
         'container_max_widths': {'xs': 750, 'sm': 750, 'md': 970, 'lg': 1170},
         'fluid': False,
         'media_queries': {
             'xs': ['(max-width: 768px)'],
             'sm': ['(min-width: 768px)', '(max-width: 992px)'],
'md': ['(min-width: 992px)', '(max-width: 1200px)'],
              'lg': ['(min-width: 1200px)'],
         },
    }
},
```

Please refer to the DjangoCMS documentation for details about these settings with the exception of the dictionary glossary. This latter setting is special to **djangocms-cascade**: It gives the placeholder the ability to behave like a plugin for the Cascade app. Remember, each **djangocms-cascade** plugin stores all of its settings inside a Python dictionary which is serialized into a single database field. By having a placeholder behaving like a plugin, here this so named *glossary* is emulated using an additional entry inside the setting CMS_PLACEHOLDER_CONF, and it should:

- include all the settings a child plugin would expect from a real container plugin
- reflect how hard coded container was defined (e.g. whether it is fluid or not)

3.5.7 Nested Columns and Rows

One of the great features of Bootstrap is the ability to nest Rows inside Columns. These nested Rows then can contain Columns of 2nd level order. A quick example:

rendered, it would look like:

	Level 1: col-md-9		
Level 1: .col-md-3	Level 2: .col-md-6	Level 2: .col-md-6	

If a responsive image shall be placed inside a column, we must estimate the width of this image, so that when rendered, it fits exactly into that column. We want easy-thumbnails to resize our images to the columns width and not having the browser to up- or down-scale them.

Therefore **djangocms-cascade** keeps track of all the breakpoints and the chosen column widths. For simplicity, this example only uses the breakpoint "medium". The default Boostrap settings for this width is 992 pixels. Doing simple math, the outer left column widths gives 3 / 12 * 992 = 248 pixels. Hence, adding a responsive image to that column means, that **easy-thumnails** automatically resizes it to a width of 248 pixels.

To calculate the width of the nested columns, first evaluate the width of the outer right column, which is 9 / 12 * 992 = 744 pixels. Then this width is subdivided again, using the width of the nested columns, which is 6 / 12 * 744 = 372 pixels.

These calculations are always performed recursively for all nested column and for all available breakpoints.

Warning: As the name implies, a container marked as *fluid*, does not specify a fixed width. Hence it is impossible to calculate the width of an image marked as responsive inside such a container. Therefore, the use of fluid containers is discouraged.

3.6 HTML5 <picture> and the new elements

Bootstrap's responsive grid system, helps developers to adapt their site layout to a wide range of devices, from smartphones to large displays. This works fine as long as the content can adopt to the different widths. Adding the CSS class img-responsive to an tag, resizes that image to fit into the surrounding column. However, since images are delivered by the server in one specific size, they either are too small and must be upscaled, resulting in an grainy image, or are too big, resulting in a waste of bandwidth and slowing down the user experience, when surfing over slow networks.

3.6.1 Adaptive resizing the images

An obvious idea would be to let the server decide, which image resolution fits best to the browsing device. This however is bad practice. Images typically are served upon a GET-request pointing onto a specific URL. GET-requests shall be idempotent and thus are predestined to be cached by proxies on the way to the client. Therefore it is a very bad idea to let the client transmit its screen width via a cookie, and deliver different images depending on this value.

Since the sever side approach doesn't work, it is the browsers responsibility to select the appropriate image size. An ideal adaptive image strategy should do the following:

- Images should fit the screen, regardless of their size. An adaptive strategy needs to resize the image, so that it can resize into the current column width.
- Downloading images shall minimize the required bandwidth. Large images are enjoying greater popularity with
 the advent of Retina displays, but those devices normally are connected to the Internet using DSL rather than
 mobiles, which run on 3G.
- Not all images look good when squeezed onto a small display, particularly images with a lot of detail. When displaying an image on a mobile device, you might want to crop only the interesting part of it.

As these criteria can't be fulfilled using the well known element, **djangocms-cascade** offers two responsive variants recently added to the HTML5 standard:

One is the tag, but with the additional attributes sizes and srcset. This element can be used as a direct replacement for .

The other is a new element named <picture>. Use this element, if the image's shape or details shall adopt their shape and/or details to the displaying media device. The correct terminology for this kind of behavior is art direction.



But in the majority of use cases, the **Bootstrap Image Plugin** will work for you. Use the **Bootstrap Picture Plugin** only in those few cases, where in addition to the image width, you also want to change the aspect ratio and/or zoom factor, depending on the display's sizes.

Using these new elements, the browser always fetches the image which best fits the current layout. Additionally, if the browser runs on a high resolution (Retina) display, an image with double resolution is downloaded. This results in much sharper images.

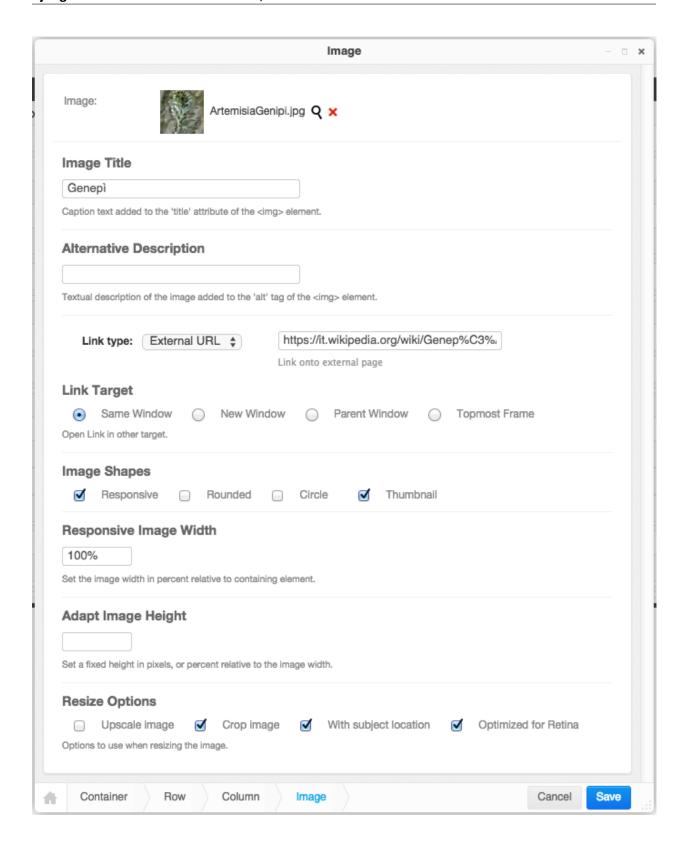
Browser support

Since Chrome 38, the element fully supports srcset and sizes. It also supports the <picture> element right out of the box. Here is a list of native browser support for the picture and the image element with attribute srcset.

For legacy browsers, there is a JavaScript library named picturefill.js, which emulates the built in behavior of these new features. But even without that library, **djangocms-cascade** renders these HTML elements in a way to fall back on a sensible default image.

3.6.2 Image Plugin Reference

In edit mode, double clicking on an image, opens the **Image Plugin** editor. This editor offers the following fields in order to adapt an image to the current layout.



Image

Clicking on the magnifying glass opens a pop-up window from django-filer where you can choose the appropriate image.

Image Title

This optional field shall be used to set the <imq title="some text" .../> tag inside this HTML element.

Alternative Description

This field shall be used to set the alt tag inside the <picture> or element. While the editor does require this field to be filled, it is strongly recommended to add some basic information about that picture.

Link type

Using this select box, one can choose to add an internal, or external link to the image. Please check the appropriate section for details.

Image Shapes

These checkboxes control the four CSS classes from the Bootstrap3 framework: img-responsive, img-rounded, img-circle and img-thumbnail. While rendering HTML, they will be added to the element.

Here the option *Responsive* has a special meaning. The problem with responsive images is, that their size depends on the media width of the device displaying the image. Therefore we can not use the well known element with a fixed width=".." and height="..". Instead, when rendering responsive images, the additional attributes srcset and sizes are added to the element. The attribute srcset contains the URLs, of up to four differently scaled images. The width of these images is determined by the maximum width of the wrapping container <div>, normally a Bootstrap column.

Responsive Image Width

This field is only available for *responsive* images. If set to 100% (the default), the image will spawn the whole column width. By setting this to a smaller value, one may group more than one image side by side into one column.

Fixed Image Width

This field is only available for *non-responsive* images. Here an image size must be specified in pixels. The image then will be rendered with a fixed width, independently of the current screen width. Images rendered with a fixed width do not neither contain the attributes screet nor sizes.

Adapt Image Height

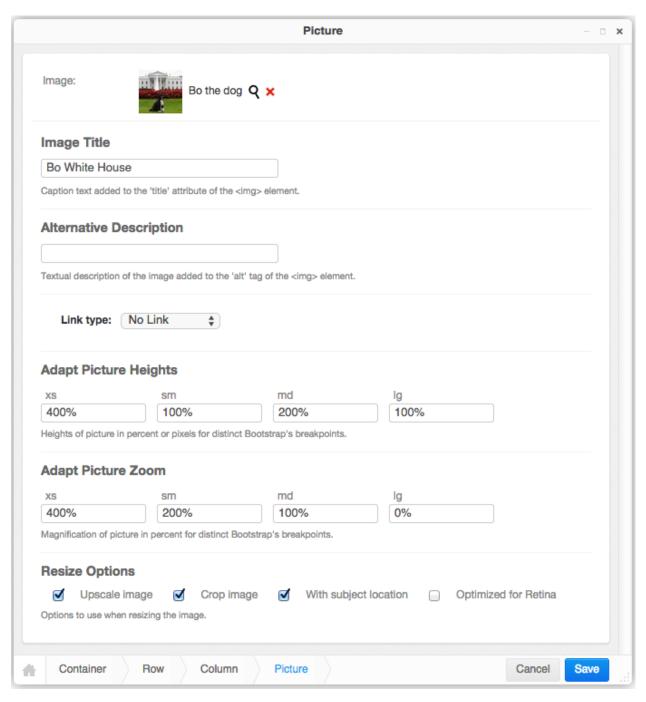
Leaving this empty (the default), keeps the natural aspect ratio of an image. By setting this to a percentage value, the image's height is resized to its current used width, hence setting this to 100% reshapes the image into a square. Note that this normally requires to *crop* the image, see *Resize Options* below. Setting this value in pixels, set the image to a fixed height.

Resize Options

- **Upscale image**: If the original image is smaller than the desired drawing area, then the image is upscaled. This in general leads to blurry images and should be avoided.
- **Crop image**: If the aspect ratio of the image and the desired drawing area do not correlate, than the image is cropped to fit, rather than leaving white space arround it.
- With subject location: When cropping, use the red circle to locate the most important part of the image. This is a feature of Django's Filer.
- **Optimized for Retina**: Currently only available for images marked as *responsive*, this option adds an images variant suitable for Retina displays.

3.6.3 Picture Plugin Reference

A picture is another wording for image. It offers some rarely required options when working with images using art direction. By double-clicking onto a picture, its editor pops up.



The field **Image**, **Image Title**, **Alternative Description**, **Link type** and **Resize Options** behave exactly the same as for the **Image Plugin**.

Beware that *Pictures* always are considered as responsive, and they always spawn to the whole width of the wrapping element, using the CSS style width: 100%. They make the most sense for large images extending over a large area. Therefore it is not possible to specify a width for a picture.

Adapt Picture Heights

Depending on the current screen's width, one may set different heights for an image. This is useful in order to adopt the aspect ratio of an image, when switching from desktops to mobile devices. Normally, one should use a fixed height

in pixels here, but when specifying the heights in percent, these heights are considered relative to the current image height.

Adapt Picture Zoom

Depending on the current screen's width, one may set different zoom levels for an image. This is useful for keeping the level of detail constant, at the cost of cropping more of the image's margins.

3.7 Template tag for the Bootstrap3 Navbar

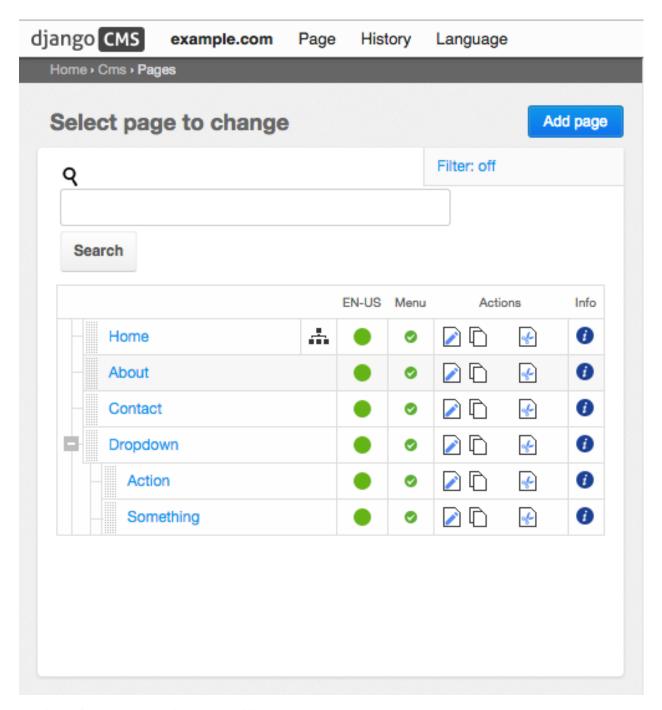
Warning: This template tag is now deprecated. It's functionality has been split off into a new project that can be found here: Django CMS Bootstrap 3.

Although it's not derived from the CascadeElement class, this Django app is shipped with a template tag to render the main menu inside a Bootstrap Navbar. This tag is named main_menu and shall be used instead of show_menu, as shipped with the DjangoCMS menu app.

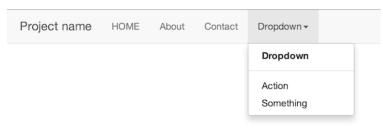
Render a Navbar according to the Bootstrap3 guide:

```
{% load bootstrap3_tags %}
<div class="navbar navbar-default navbar-fixed-top" role="navigation">
 <div class="container">
   <div class="navbar-header">
     <button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-collapse"</pre>
       <span class="sr-only">Toggle navigation</span>
       <span class="icon-bar"></span>
       <span class="icon-bar"></span>
       <span class="icon-bar"></span>
     </button>
     <a class="navbar-brand" href="/">Project name</a>
   </div>
   <div class="collapse navbar-collapse">
     {% main_menu %}
   </div>
  </div>
</div>
```

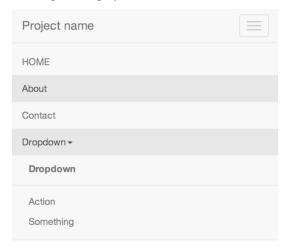
Assume, the page hierarchy in DjangoCMS is set up like this:



then in the front-end, the navigation bar will be rendered as



on computer displays, and as



on mobile devices.

Note: Bootstrap3 does not support "hover", since this event can't be handled by touch screens. Therefore the client has to click on the menu item, rather than moving the mouse cursor over it. In order to make CMS pages with children selectable, those menu items are duplicated. For instance, clicking on **Dropdown** in the Navbar, just opens the pulldown menu. Here the menu item for the page named "Dropdown" is rendered again. Clicking on this item, finally loads that page from the CMS.

Note: Bootstrap3 does not support nested menus, because they wouldn't be usable on mobile devices. Therefore the template tag main_menu renders only one level of children, no matter how deep the page hierarchy is in DjangoCMS.

3.8 Panel element

Bootstrap is shipped with CSS helpers to facilitate the creation of Panels. In **djangocms-cascade** these panels can be added to any placholder. In the context menu of a placeholder, select **Panel** below the section **Bootstrap** and chose the style. The panel heading and footer are optional. As body, the panel element accepts other plugins, normally this is a Text plugin.

3.9 Secondary menu

Warning: This plugin is experimental. It may disappear or be replaced. Use it at your own risk!

Often there is a need to add secondary menus at arbitrary locations. The **Secondary menu** plugin can be used in any placeholder to display links onto child pages of a CMS page. Currently only pages marked as **Soft Root** with a defined **Page Id** are allowed as parent of such a secondary menu.

Note: This plugins reqires the template tag main_menu_below_id which is shipped with djangocms-bootstrap3

3.10 Segmentation of the DOM

The **SegmentationPlugin** allows to personalize the DOM structure, depending on various parameters supplied with the Django request object. Some use cases are:

- Depending on the user, show a different portion of the DOM, if he is a certain user or not logged in at all.
- Show different parts of the DOM, depending on the browsers estimated geolocation. Useful to render different content depending on the visitors country.
- Show different parts of the DOM, depending on the supplied marketing channel.
- Show different parts of the DOM, depending on the content in the session objects from previous visits of the users.
- Segment visitors into different groups used for A/B-testing.

3.10.1 Configuration

The **SegmentationPlugin** must be activated separately on top of other **djangocms-cascade** plugins. In settings.py, add to

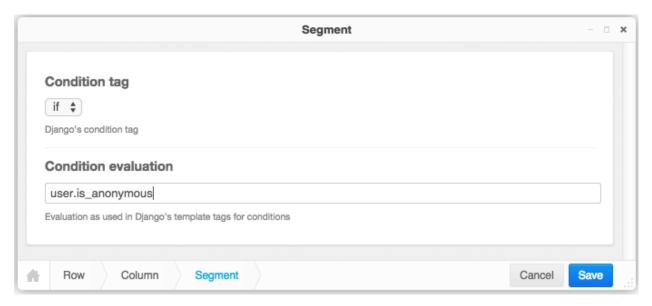
```
INSTALLED_APPS = (
    ...
    'cmsplugin_cascade',
    'cmsplugin_cascade.segmentation',
    ...
)
```

Then, depending on what kind of data shall be emulated, add a list of two-tuples to the configuration settings CMSPLUGIN_CASCADE_SEGMENTATION_MIXINS. The first entry of each two-tuple specifies the mixin class added the the proxy model for the SegmentationPlugin. The second entry specifies the mixin class added the the model admin class for the SegmentationPlugin.

```
# this entry is optional:
CMSPLUGIN_CASCADE_SEGMENTATION_MIXINS = (
    ('cmsplugin_cascade.segmentation.mixins.EmulateUserModelMixin', 'cmsplugin_cascade.segmentation.mixins.emulateUserModelMixin', 'cmsplugin_cascade.segmentation.gegmentation.gegmentation.gegmentation.gegmentation.gegmentation.gegmentation.gegmentation.gegmentation.gegme
```

3.10.2 Usage

When editing **djangoCMS** plugins in **Structure** mode, below the section **Generic** a new plugin type appears, named **Segment**.



This plugin now behaves as an if block, which is rendered only, if the specified condition evaluates to true. The syntax used to specify the condition, is the same as used in the Django template language. Therefore it is possible to evaluate against more than one condition and combine them with and, or and not as described in boolean operators in the Django docs

Immediately below a segmentation block using the condition tag if, it is possible to use the tags elif or else. This kind of conditional blocks is well known to Python programmers.

Note, that when rendering pages in djangoCMS, a RequestContext- rather than a Context-object is used. This RequestContext is populated by the user object if 'django.contrib.auth.context_processors.auth' is added to your settings.py TEMPLATE_CONTEXT_PROCESSORS. This therefore is a prerequisite when the Segmentation plugin evaluates conditions such as user.username == "john".

3.10.3 Emulating Users

As of version 0.5.0, in **djangocms-cascade** a staff user or administrator can emulate the currently logged in user. If this plugin is activated, in the CMS toolbar a new menu tag appears named "Segmentation". Here a staff user can select another user. All evaluation conditions then evaluate against this selected user, instead of the currently logged in user.

It is quite simple to add other overriding emulations. Have a look at the class cmsplugin_cascade.segmentation.mixins.EmulateUserMixin. This class then has to be added to your configuration settings CMSPLUGIN_CASCADE_SEGMENTATION_MIXINS. It then overrides the evaluation conditions and the toolbar menu.

3.11 Working with sharable fields

Sometime you'd want to remember sizes, links or any other options for rendering a plugin instance across the project. In order to not have to do this job for each managed entity, you can remember these settings using a name of your choice, controllable in a special section of the administration backend.

Now, whenever someone adds a new instance using this plugin, a select box with these remembered settings appears. He then can choose from one of the remembered settings, which frees him to reenter all the values.

3.11.1 Configure a Cascade Plugins to optionally share some fields

Configuring a plugin to share specific fields with other plugins of the same type is very easy. In the projects settings.py, assure that 'cmsplugin_cascade.sharable' is part of your INSTALLED_APPS.

Then add a dictionary of Cascade plugins, with a list of fields which shall be sharable. For example, with this settings, the image plugin can be configured to share its sizes and rendering options among each other.

```
CMSPLUGIN_CASCADE_WITH_SHARABLES = {
    'BootstrapImagePlugin': ('image-shapes', 'image-width-responsive', 'image-width-fixed', 'image-he'
}
```

3.11.2 Control some named settings

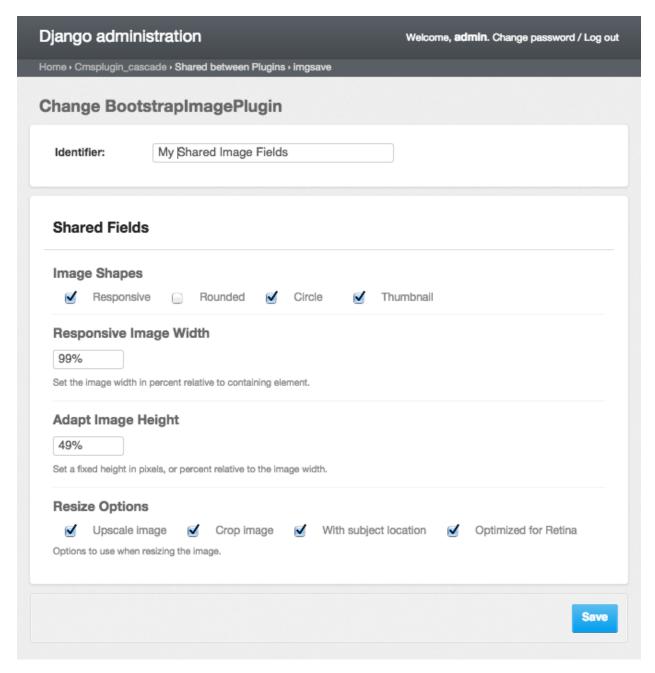
Whenever a plugin is configured to allow to share fields, at the bottom of the plugin editor a special field appears:			
Remember these settings as:			

By activating the checkbox, adding an arbitrary name next to it and saving the plugin, an entity of sharable fields is saved in the database. Now, whenever someone starts to edit a plugin of this type, a select box appears on the top of the editor:

Shared Settings:	Use individual settings \$]
	Use settings shared with other p	lugins of this type

By choosing a previously named shared settings, the configured fields are disabled for input and replaced by their shared field's counterparts.

In order to edit these shared fields in the administration backend, one must access **Home > Cmsplugin_cascade > Shared between Plugins**. By choosing a named shared setting, one can enter into the shared field's editor. This editor auto adopts to the fields declared as shared, hence will change from entity to entity. For the above example, it may look like this:



In this editor one can change these shared settings globally, for all plugin instances where this named shared settings have been applied to.

3.12 Customize CSS classes and inline styles

Plugins shipped with **djangocms-cascade** offer a basic set of CSS classes as declared by the chosen CSS framework. These offered classes normally do not fulfill the requirements for real world sites.

While **djangocms-cascade** is easily extendible, it would be overkill to re-implement the available plugins, just to add an extra field for a customized CSS class or an extra inline style. For that purpose, one can add a set of potential CSS classes and potential CSS inline styles for Cascade plugins, enabled for this feature. Moreover, this feature can be adopted individually on a per-site base.

3.12.1 Configure a Cascade plugins to accept extra fields

Configuring a plugin to allow an HTML id tag, an extra CSS classes or some inline styles is very easy. In the projects settings.py, assure that 'cmsplugin_cascade.extra_fields' is part of your INSTALLED_APPS.

Then add a list of Cascade plugins, which shall be extendible. It is a good idea to enable at least these plugins for extendibility:

```
CMSPLUGIN_CASCADE_WITH_EXTRAFIELDS = (
    'BootstrapButtonPlugin',
    'BootstrapRowPlugin',
    'SimpleWrapperPlugin',
    'HorizontalRulePlugin',
)
```

If at least one plugin has been added to this settings variable, the Django administration backend offers an additional view:

Home > Cmsplugin_cascade > Custom CSS classes and styles > Add Custom CSS classes styles

Here the site administrator can specify, which extra CSS classes, ID tags and extra inline styles may be used by a concrete plugin.

3.12.2 Configure the kind of extra inline styles a Cascade plugin may accept

By default, **djangocms-cascade** specifies a sensible set of CSS styles, which can be added to the Cascade plugins, if enabled. This set however might not be enough for your installation and therefore can be extended by the settings variable CMSPLUGIN_CASCADE_EXTRA_INLINE_STYLES containing an OrderedDict. The key element is an arbitrary name. The value element is a 2-tuple whose first element is a list of CSS inline styles. The second element of this tuple specifies the widget to be used to render the input fields.

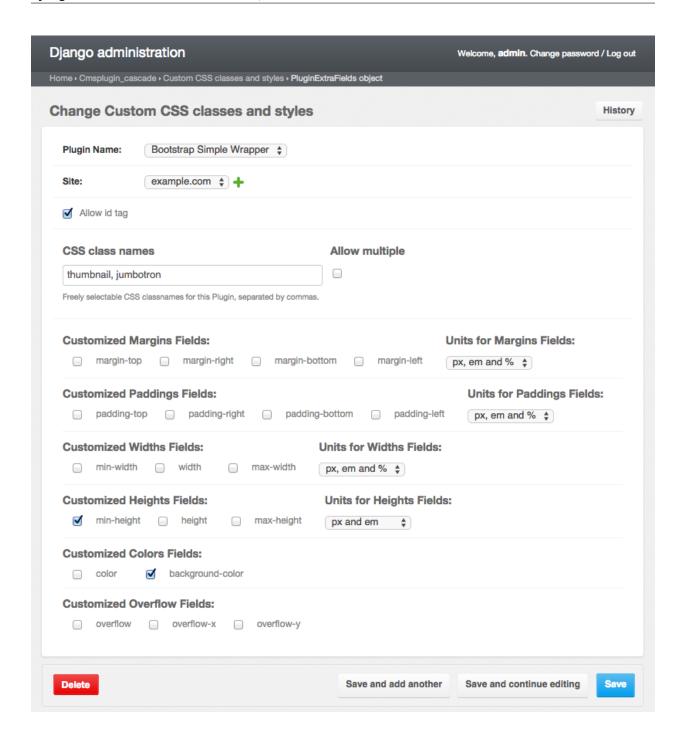
Please check the default in cmsplugin_cascade/settings.py on how to set this list of extra inline styles.

3.12.3 Enable extra fields

To enable this feature, in the administration backend navigate to

Home > Cmsplugin_cascade > Custom CSS classes and styles and click onto the button named Add Custom CSS classes styles.

From the field named "Plugin Name", for instance select **Bootstrap Simple Wrapper**. Then, from the field named "Site", select the current site.



Allow ID

With "Allow id tag" enabled, an extra field will appear on the named plugin editor. There a user can add any arbitrary name which will be rendered as id="any_name" for the corresponding plugin instance.

CSS classes

In the field named "CSS class names", the administrator may specify arbitrary CSS classes separated by commas. One of these CSS classes then can be added to the corresponding Cascade plugin. If more than one CSS class shall be

addable concurrently, activate the checkbox named "Allow multiple".

CSS inline styles

The administrator may activate all kinds of CSS inline styles by clicking on the named checkbox. For settings describing distances, additionally specify the allowed units to be used.

Now, if a user opens the corresponding plugin inside the **Structure View**, he will see an extra select field to choose the CSS class and some input fields to enter say, extra margins, heights or whatever has been activated.

Use it rarely, use it wise

Adding too many styling fields to a plugin can mess up any web project. Therefore be advised to use this feature rarely and wise. If many people have write access to plugins, set extra permissions on this table, in order to not mess things up. For instance, it rarely makes sense to activate min-width, width and max-width.

3.13 Extending Cascade

All Cascade plugins are derived from the same base class CascadeModelBase, which stores all its model fields inside a dictionary, serialized as JSON string in the database. This makes it much easier to extend the Cascade ecosystem, since no database migration is required when adding a new, or extending plugins from this project.

The database model CascadeModelBase stores all the plugin settings in a single JSON field named glossary. This in practice behaves like a Django context, but in order to avoid confusion with the latter, it has been named "glossary".

3.13.1 Simple Example

This plugin is very simple and just renders static content which has been declared in the template.

```
from cms.plugin_pool import plugin_pool
from cmsplugin_cascade.plugin_base import CascadePluginBase

class StylishPlugin(CascadePluginBase):
    name = 'Stylish Element'
    render_template = 'myapp/cascade/stylish-element.html'

plugin_pool.register_plugin(StylishPlugin)
```

If the editor form pops up for this plugin, a dumb message appears: "There are no further settings for this plugin". This is because no editable fields have been added to that plugin yet.

3.13.2 Customize Stored Data

In order to make the plugin remember its settings and other optional data, the programmer must add a list of special form fields to its plugin. These fields then are used to auto-generate the editor for this DjangoCMS plugin.

Each of those form fields handle a special field value, or in some cases, a list of field values. They all require a widget, which is used when rendering the editors form.

Lets add a simple selector to choose between a red and a green color. Do this by adding a PartialFormField to a member list named glossary_fields.

In the plugin's editor, the form now pops up with a single select box, where the user can choose between a *red* and a *green* element.

A PartialFormField accepts five arguments:

- The name of the field. It must be unique in the given list of glossary_fields.
- The widget. This can be a built-in Django widget or any valid widget derived from it.
- The label used to describe the field. If omitted, the name of the partial form field is used.
- An optional initial value to be used with Radio- or Select fields.
- An optional help_text to describe the field's purpose.

3.13.3 Widgets for a Partial Form Field

For single text fields or select boxes, Django's built-in widgets, such as widgets.TextInput or widgets.RadioSelect can be used. Sometimes these simple widgets are not enough, therefore some special input widgets have been prepared to be used with **DjangoCMS-Cascade**. They are all part of the module cmsplugin_cascade.widgets.

MultipleTextInputWidget Use this widget to group a list of text input fields together. This for instance is used, to encapsulate all inline styles into one JSON object.

NumberInputWidget The same as Django's TextInput-widget, but doing field validation. This checks if the entered input data is a valid number.

MultipleInlineStylesWidget The same as the MultipleTextInputWidget, but doing field validation. This checks if the entered input data ends with px or em.

3.13.4 Overriding the Form

For the plugin editor, **djangocms-cascade** automatically creates a form for each PartialFormField in the list of glossary_fields. Sometimes however, you might need more control over the fields displayed in the editor, versus the fields stored inside the glossary.

Similar to the Django's admin. ModelAdmin, this can be achieved by overriding the plugins form element. Such a customized form can add as many fields as required, while the controlled glossary contains a compact summary.

To override the plugins form, add a member form to your plugin. This member variable shall refer to a customized form derived from forms.models.ModelForm. For further details about how to use this feature, refer to the supplied implementations.

3.13.5 Overriding the Model

Since all **djangocms-cascade** plugins store their data in a JSON-serializable field, there rarely is a need to add another database field to the common models CascadeElement and/or SharableCascadeElement and thus no need for database migrations.

However, quite often there is a need to add or override the methods for these models. Therefore each Cascade plugin creates its own proxy model on the fly. These models are derived from CascadeElement and/or SharableCascadeElement and named like the plugin class, with the suffix Model. By default, their behavior is the same as for their parent model classes.

To extend this behavior, the author of a plugin may declare a tuple of mixin classes, which are injected during the creation of the proxy model. Example:

```
class MySpecialPropertyMixin(object):
    def processed_value(self):
       value = self.glossary.get('field_name')
        # process value
        return value
class MySpecialPlugin(LinkPluginBase):
   module = 'My Module'
   name = 'My special Plugin'
   model_mixins = (MySpecialPropertyMixin,)
   render_template = 'my_module/my_special_plugin.html'
   glossary_fields = (
        PartialFormField('field_name',
           widgets.TextInput(),
       ),
        # other partial form fields
    )
```

The proxy model created for this plugin class, now contains the extra method content (), which for instance may be accessed during template rendering.

templates/my_module/my_special_plugin.html:

```
<div>{{ instance.processed_value }}</div>
```

Needless to say, that you can't add any extra database fields to the class named MySpecialPropertyMixin, since the corresponding model class is marked as proxy.

3.13.6 Plugin Attribute Reference

CascadePluginBase is derived from CMSPluginBase, so all CMSPluginBase attributes can also be overridden by plugins derived from CascadePluginBase. Please refer to their documentation for details.

Additionally BootstrapPluginBase allows the following attributes:

name This name is shown in the pull down menu in structure view. There is not default value.

tag_type A HTML element into which this plugin is wrapped. Generic templates can render their content into any "tag_type. Specialized rendering templates usually have a hard coded tag type, then this attribute can be omitted.

require_parent Default: True. This differs from CMSPluginBase.

Is it required that this plugin is a child of another plugin? Otherwise the plugin can be added to any placeholder.

parent_classes Default: None.

A list of Plugin Class Names. If this is set, the plugin may only be added to plugins listed here.

allow_children Default: True. This differs from CMSPluginBase.

Can this plugin have child plugins? Or can other plugins be placed inside this plugin?

child_classes Default: A list of plugins, which are allowed as children of this plugin. This differs from CMSPluginBase, where this attribute is None.

Do not override this attribute. **DjangoCMS-Cascade** automatically generates a list of allowed children plugins, by evaluating the list parent_classes from the other plugins in the pool.

Plugins, which are part of the plugin pool, but which do not specify their parents using the list parent_classes, may be added as children to the current plugin by adding them to the attribute generic_child_classes.

generic_child_classes Default: None.

A list of plugins which shall be added as children to a plugin, but which themselves do not declare this plugin in their parent_classes.

glossary_fields Default: None

A list of PartialFormField's. See the documentation above for details.

default_css_class Default: None.

A CSS class which is always added to the wrapping DOM element.

default_inline_styles Default: None.

A dictionary of inline styles, which is always added to the wrapping DOM element.

get_identifier This is a classmethod, which can be added to a plugin to give it a meaningful name.

Its signature is:

```
@classmethod
def get_identifier(cls, obj):
    return 'A plugin name'
```

This method shall be used to name the plugin in structured view.

form Override the form used by the plugin editor. This must be a class derived from forms.models.ModelForm.

model_mixins Tuple of mixin classes, with additional methods to be added the auto-generated proxy model for the given plugin class.

Check section "Overriding the Model" for a detailed explanation.

3.14 Release History

3.14.1 0.6.2

- In Segment: A condition raising a TemplateSyntaxError now renders that error inside a HTML comment. This is useful for debugging non working conditions.
- In Segment: An alternative AdminModel to UserAdmin, using a callable instead of a model field, now works.

• In Segment: It is possible to use segmentation_list_display = (list-of-fields) in an alternative AdminModel, to override the list view, when emulating a user.

3.14.2 0.6.1

- Added a panel plugin to support the Bootstrap Panel.
- Added experimental support for secondary menus.
- Renamed AccordionPlugin to BootstrapAccordionPlugin for consistency and to avoid future naming conflicts.

3.14.3 0.6.0

- Fixed #79: The column width is not reduced in width, if a smaller column precedes a column for a smaller displays.
- Fixed: Added extra space before left prefix in buttons.
- Enhanced: Access the link content through the glossary's link_content.
- New: Plugins now can be rendered using an alternative template, choosable through the plugin editor.
- Fixed in SegmentationPlugin: When overriding the context, this updated context was only used for the immediate child of segment. Now the overridden context is applied to all children and grandchildren.
- Changed in SegmentationPlugin: When searching for siblings, use a list index instead of get_children().get(position=...).
- Added unit tests for SegmentationPlugin.
- Added support for django-reversion.
- By using the setting CMSPLUGIN_CASCADE_LINKPLUGIN_CLASSES, one can replace the class LinkPluginBase by an alternative implementation.
- When using Extra Styles distances now can have negative values.
- In caption field of CarouselSlidePlugin it now is possible to set links onto arbitrary pages.

Possible backwards incompatibility: * For consistency with naming conventions on other plugins,

renamed cascade/plugins/link.html -> cascade/link/link-base.html. Check your templates!

- The setting CMSPLUGIN_CASCADE_SEGMENTATION_MIXINS now is a list of two-tuples, where the first declares the plugin's model mixin, while the second declares the model admin mixin.
- Removed from setting: CMSPLUGIN_CASCADE_BOOTSTRAP3_TEMPLATE_DIR. The rendering template now can be specified during runtime.
- Refactored and moved SimpleWrapperPlugin and HorizontalRulePlugin from cmsplugin_cascade/bootstrap3/ into cmsplugin_cascade/generic/. The glossary field element_tag has been renamed to tag_type.
- Refactored LinkPluginBase so that external implementations can create their own version, which then is used as base for TextLinkPlugin, ImagePlugin and PicturePlugin.
- Renamed: PanelGroupPlugin -> Accordion, PanelPlugin -> AccordionPanelPlugin, because the Bootstrap project renamed them back to their well known names.

3.14.4 0.5.0

- Added SegmentationPlugin. This allows to conditionally render parts of the DOM, depending on the status of various request object members, such as user.
- Setting CASCADE_LEAF_PLUGINS has been replaced by CMSPLUGIN_CASCADE_ALIEN_PLUGINS. This simplifies the programming of third party plugins, since the author of a plugin now only must set the member alien_child_classes = True.

3.14.5 0.4.5

- Fixed: If no breakpoints are set, don't delete widths and offsets from the glossary, as otherwise this information is lost.
- Fixed broken import for PageSelectFormField when not using django_select2.
- Admin form for PluginExtraFields now is created on the fly. This fixes a rare circular dependency issue, when accessing plugin_pool.get_all_plugins().

3.14.6 0.4.4

- Removed hard coded input fields for styling margins from **BootstrapButtonPlugin**, since it is possible to add them through the **Extra Fields** dialog box.
- [Column ordering](http://getbootstrap.com/css/#grid-column-ordering) using col-xx-push-n and col-xx-pull-n has been added.
- Fixed: Media file linkplugin. js was missing for BootstrapButtonPlugin.
- Hard coded configuration option EXTRA_INLINE_STYLES can now be overridden by the projects settings

3.14.7 0.4.3

- The templatetag bootstrap3_tags and the templates to build Boostrap3 styled menus, breadcrumbs and paginator, have been moved into their own repository at https://github.com/jrief/djangocms-bootstrap3.
- Column ordering using col-xx-push-n and col-xx-pull-n has been added.

3.14.8 0.4.2

- Fixed: Allow empty setting for CMSPLUGIN CASCADE PLUGINS
- Fixed: Use str(..) instead of b" in combination with from __future__ import unicode_literals

3.14.9 0.4.1

- Fixed: Exception when saving a ContainerPlugin with only one breakpoint.
- The required flag on a field for an inherited LinkPlugin is set to False for shared settings.
- Fixed: Client side code for disabling shared settings did not work.

3.14.10 0.4.0

- Renamed context from model CascadeElement to glossary '. The identifier ''context lead to too much confusion, since it is used all way long in other CMS plugins, where it has a complete different meaning.
- Renamed partial_fields in all plugins to glossary_fields, since that's the model field where they keep their information.
- Huge refactoring of the code base, allowing a lot of more features.

3.14.11 0.3.2

- Fixed: Missing unicode conversion for method get_identifier()
- Fixed: Exception handler for form validation used getattr incorrectly.

3.14.12 0.3.1

• Added compatibility layer for Python-3.3.

3.14.13 0.3.0

• Complete rewrite. Now offers elements for Bootstrap 3 and other CSS frameworks.

3.14.14 0.2.0

· Added carousel.

3.14.15 0.1.2

• Fixed: Added missign migration.

3.14.16 0.1.1

· Added unit tests.

3.14.17 0.1.0

• First published revision.

Thanks

This DjangoCMS plugin originally was derived from https://github.com/divio/djangocms-style, so the honor for the idea of this software goes to Divio and specially to Patrick Lauber, aka digi604.

However, since my use case is different, I removed all the existing code and replaced it against something more generic suitable to add a collection of highly configurable plugins.

CHAPTER 4

Indices and tables

- genindex
- modindex
- search