

---

# **Django CKEditor Documentation**

*Release 5.3.1*

**The Django-CKEditor Team**

**Nov 17, 2017**



---

## Contents

---

<b>1</b>	<b>Installation</b>	<b>5</b>
1.1	Required	5
1.2	Required for using widget with file upload	5
<b>2</b>	<b>Optional - customizing CKEditor editor</b>	<b>7</b>
2.1	Optional for file upload	8
<b>3</b>	<b>Usage</b>	<b>9</b>
3.1	Field	9
3.2	Widget	9
3.3	Outside of django admin	10
3.4	Management Commands	10
3.5	Using S3	10
3.6	If you want to use allowedContent	10
<b>4</b>	<b>Plugins:</b>	<b>13</b>
<b>5</b>	<b>Restricting file upload</b>	<b>15</b>
<b>6</b>	<b>Demo / Test application</b>	<b>17</b>
<b>7</b>	<b>Running selenium test</b>	<b>19</b>
<b>8</b>	<b>Running code quality tests</b>	<b>21</b>
<b>9</b>	<b>Troubleshooting</b>	<b>23</b>
<b>10</b>	<b>Example ckeditor configuration</b>	<b>25</b>
<b>11</b>	<b>AUTHORS</b>	<b>27</b>
11.1	Created By	27
11.2	Contributors	27
<b>12</b>	<b>Changelog</b>	<b>29</b>
12.1	5.3.1	29
12.2	5.3.0	29
12.3	5.2.2	30
12.4	5.2.1	30

12.5	5.2.0	30
12.6	5.1.1	30
12.7	5.1.0	30
12.8	5.0.3	30
12.9	5.0.2	31
12.10	5.0.1	31
12.11	5.0.0 (4.5.3)	31
12.12	4.5.1	31
12.13	4.5.0	31
12.14	4.4.8	32
12.15	4.4.7	32
12.16	4.4.6	32
12.17	4.4.5	32
12.18	4.4.4	32
12.19	4.4.0	33
12.20	4.2.8	33
12.21	4.2.7	33
12.22	4.2.5 / 4.2.6	33
12.23	4.2.4	33
12.24	4.2.3	33
12.25	4.2.2	34
12.26	4.2.1	34
12.27	4.0.2	34
12.28	3.6.2.1	34
12.29	3.6.2	34
12.30	0.9	34
12.31	0.8	34
12.32	0.7	35
12.33	0.6	35
12.34	0.5	35
12.35	0.4	35
12.36	0.3	35
12.37	0.2	35
12.38	0.1	35

**NOTICE: django-ckeditor 5 has backwards incompatible code moves against 4.5.1.**

File upload support has been moved to ckeditor\_uploader. The urls are in ckeditor\_uploader.urls, while for the file uploading widget you have to use RichTextUploadingField instead of RichTextField.

**Django admin CKEditor integration.** Provides a RichTextField, RichTextUploadingField, CKEditorWidget and CKEditorUploadingWidget utilizing CKEditor with image uploading and browsing support included.

This version also includes:

1. support to django-storages (works with S3)
2. updated ckeditor to version 4.7
3. included all ckeditor language and plugin files to made everyone happy! ( only the plugins maintained by the ckeditor develops team )

**Contents**

- *Django CKEditor*
  - *Installation*
    - \* *Required*
    - \* *Required for using widget with file upload*
  - *Optional - customizing CKEditor editor*
    - \* *Optional for file upload*
  - *Usage*
    - \* *Field*
    - \* *Widget*
    - \* *Outside of django admin*
    - \* *Management Commands*
    - \* *Using S3*
    - \* *If you want to use allowedContent*
  - *Plugins:*
  - *Restricting file upload*
  - *Demo / Test application*
  - *Running selenium test*
  - *Running code quality tests*
  - *Troubleshooting*
  - *Example ckeditor configuration*
- *AUTHORS*
  - *Created By*
  - *Contributors*
- *Changelog*

- 5.3.1
- 5.3.0
- 5.2.2
- 5.2.1
- 5.2.0
- 5.1.1
- 5.1.0
- 5.0.3
- 5.0.2
- 5.0.1
- 5.0.0 (4.5.3)
- 4.5.1
- 4.5.0
- 4.4.8
- 4.4.7
- 4.4.6
- 4.4.5
- 4.4.4
- 4.4.0
- 4.2.8
- 4.2.7
- 4.2.5 / 4.2.6
- 4.2.4
- 4.2.3
- 4.2.2
- 4.2.1
- 4.0.2
- 3.6.2.1
- 3.6.2
- 0.0.9
- 0.0.8
- 0.0.7
- 0.0.6
- 0.0.5
- 0.0.4

- *0.0.3*
- *0.0.2*
- *0.0.1*





### 1.1 Required

1. Install or add `django-ckeditor` to your python path.

```
pip install django-ckeditor
```

2. Add `ckeditor` to your `INSTALLED_APPS` setting.
3. Run the `collectstatic` management command: `$ ./manage.py collectstatic`. This will copy static CKEditor required media resources into the directory given by the `STATIC_ROOT` setting. See [Django's documentation on managing static files](#) for more info.
4. CKEditor needs to know where its assets are located because it loads them lazily only when needed. The location is determined by looking at a script tag which includes a URL ending in `ckeditor.js`. This does not work all the time, for example when using `ManifestStaticFilesStorage`, any asset packaging pipeline or what-not. `django-ckeditor` is quite good at automatically detecting the correct place even then, but sometimes you have to `hardcode` `CKEDITOR_BASEPATH` somewhere. It is recommended to override the `admin/base_site.html` template with your own if you really need to do this, i.e.:

```
{% extends "admin/base_site.html" %}

{% block extrahead %}
<script>window.CKEDITOR_BASEPATH = '/static/ckeditor/ckeditor/';</script>
{{ block.super }}
{% endblock %}
```

Of course you should adapt this snippet to your needs when using CKEditor outside the admin app.

### 1.2 Required for using widget with file upload

1. Add `ckeditor_uploader` to your `INSTALLED_APPS` setting.

2. Add a `CKEDITOR_UPLOAD_PATH` setting to the project's `settings.py` file. This setting specifies a relative path to your CKEditor media upload directory. CKEditor uses Django's storage API. By default, Django uses the file system storage backend (it will use your `MEDIA_ROOT` and `MEDIA_URL`) and if you don't use a different backend you have to have write permissions for the `CKEDITOR_UPLOAD_PATH` path within `MEDIA_ROOT`, i.e.:

```
CKEDITOR_UPLOAD_PATH = "uploads/"
```

When using default file system storage, images will be uploaded to “uploads” folder in your `MEDIA_ROOT` and urls will be created against `MEDIA_URL` (`/media/uploads/image.jpg`).

If you want be able to have control for filename generation, you have to add into settings yours custom filename generator:

```
# utils.py

def get_filename(filename):
    return filename.upper()
```

```
# settings.py

CKEDITOR_FILENAME_GENERATOR = 'utils.get_filename'
```

CKEditor has been tested with django `FileSystemStorage` and `S3BotoStorage`. There are issues using `S3Storage` from `django-storages`.

3. For the default filesystem storage configuration, `MEDIA_ROOT` and `MEDIA_URL` must be set correctly for the media files to work (like those uploaded by the ckeditor widget).
4. Add CKEditor URL include to your project's `urls.py` file:

```
url(r'^ckeditor/', include('ckeditor_uploader.urls')),
```

5. Note that by adding those URLs you add views that can upload and browse through uploaded images. Since `django-ckeditor 4.4.6`, those views are decorated using `@staff_member_required`. If you want a different permission decorator (`login_required`, `user_passes_test` etc.) then add views defined in `ckeditor.urls` manually to your `urls.py`.
6. Set `CKEDITOR_IMAGE_BACKEND` to one of the supported backends to enable thumbnails in ckeditor gallery. By default no thumbnails are created and full size images are used as preview. Supported backends:
  - `pillow`: Uses Pillow

---

## Optional - customizing CKEditor editor

---

1. Add a CKEDITOR\_CONFIGS setting to the project's `settings.py` file. This specifies sets of CKEditor settings that are passed to CKEditor (see CKEditor's [Setting Configurations](#)), i.e.:

```
CKEDITOR_CONFIGS = {
    'awesome_ckeditor': {
        'toolbar': 'Basic',
    },
}
```

The name of the settings can be referenced when instantiating a `RichTextField`:

```
content = RichTextField(config_name='awesome_ckeditor')
```

The name of the settings can be referenced when instantiating a `CKEditorWidget`:

```
widget = CKEditorWidget(config_name='awesome_ckeditor')
```

By specifying a set named `default` you'll be applying its settings to all `RichTextField` and `CKEditorWidget` objects for which `config_name` has not been explicitly defined

```
CKEDITOR_CONFIGS = {
    'default': {
        'toolbar': 'full',
        'height': 300,
        'width': 300,
    },
}
```

It is possible to create a custom toolbar

```
CKEDITOR_CONFIGS = {
    'default': {
        'toolbar': 'Custom',
        'toolbar_Custom': [
            'Bold', 'Italic', 'Underline',

```

```
        ['NumberedList', 'BulletedList', '-', 'Outdent', 'Indent', '-',
↪ 'JustifyLeft', 'JustifyCenter', 'JustifyRight', 'JustifyBlock'],
        ['Link', 'Unlink'],
        ['RemoveFormat', 'Source']
    ]
}
}
```

If you want or need plugins which are not part of django-ckeditor's plugin set you may specify assets and plugins as follows:

```
text = RichTextField(
    config_name='forum-post',

    # CKEDITOR.config.extraPlugins:
    extra_plugins=['someplugin'],

    # CKEDITOR.plugins.addExternal(...)
    external_plugin_resources=[(
        'someplugin',
        '/static/.../path-to-someplugin/',
        'plugin.js',
    )],
)
```

## 2.1 Optional for file upload

1. All uploaded files are slugified by default. To disable this feature, set `CKEDITOR_UPLOAD_SLUGIFY_FILENAME` to `False`.
2. Set the `CKEDITOR_RESTRICT_BY_USER` setting to `True` in the project's `settings.py` file (default `False`). This restricts access to uploaded images to the uploading user (e.g. each user only sees and uploads their own images). Upload paths are prefixed by the string returned by `get_username`. If `CKEDITOR_RESTRICT_BY_USER` is set to a string, the named property is used instead. Superusers can still see all images. **NOTE:** This restriction is only enforced within the CKEditor media browser.
3. Set the `CKEDITOR_BROWSE_SHOW_DIRS` setting to `True` to show directories on the “Browse Server” page. This enables image grouping by directory they are stored in, sorted by date.
4. Set the `CKEDITOR_RESTRICT_BY_DATE` setting to `True` to bucket uploaded files by year/month/day.

### 3.1 Field

The quickest way to add rich text editing capabilities to your models is to use the included `RichTextField` model field type. A CKEditor widget is rendered as the form field but in all other regards the field behaves as the standard Django `TextField`. For example:

```
from django.db import models
from ckeditor.fields import RichTextField

class Post(models.Model):
    content = RichTextField()
```

For file upload support use `RichTextUploadingField` from `ckeditor_uploader.fields`.

### 3.2 Widget

Alternatively you can use the included `CKEditorWidget` as the widget for a formfield. For example:

```
from django import forms
from django.contrib import admin
from ckeditor.widgets import CKEditorWidget

from post.models import Post

class PostAdminForm(forms.ModelForm):
    content = forms.CharField(widget=CKEditorWidget())
    class Meta:
        model = Post

class PostAdmin(admin.ModelAdmin):
    form = PostAdminForm
```

```
admin.site.register(Post, PostAdmin)
```

For file upload support use `CKEditorUploadingWidget` from `ckeditor_uploader.widgets`.

### 3.3 Outside of django admin

When you are rendering a form outside the admin panel, you'll have to make sure all form media is present for the editor to work. One way to achieve this is like this:

```
<form>
  {{ myform.media }}
  {{ myform.as_p }}
  <input type="submit"/>
</form>
```

or you can load the media manually as it is done in the demo app:

```
{% load static %}
<script type="text/javascript" src="{% static "ckeditor/ckeditor-init.js" %}"></
↪script>
<script type="text/javascript" src="{% static "ckeditor/ckeditor/ckeditor.js" %}"></
↪script>
```

### 3.4 Management Commands

Included is a management command to create thumbnails for images already contained in `CKEDITOR_UPLOAD_PATH`. This is useful to create thumbnails when using `django-ckeditor` with existing images. Issue the command as follows:

```
$ ./manage.py generateckeditorthumbnails
```

**NOTE:** If you're using custom views remember to include `ckeditor.js` in your form's media either through `{{ form.media }}` or through a `<script>` tag. Admin will do this for you automatically. See [Django's Form Media docs](#) for more info.

### 3.5 Using S3

See <https://django-storages.readthedocs.org/en/latest/>

**NOTE:** `django-ckeditor` will not work with S3 through `django-storages` without this line in `settings.py`:

```
AWS_QUERYSTRING_AUTH = False
```

### 3.6 If you want to use allowedContent

To get `allowedContent` to work, disable `stylesheetparser` plugin. So include this in your `settings.py`:

```
CKEDITOR_CONFIGS = {
    "default": {
        "removePlugins": "stylesheetparser",
    }
}
```





## CHAPTER 4

---

### Plugins:

---

django-ckeditor includes the following ckeditor plugins, but not all are enabled by default:

```
allyhelp, about, adobeair, ajax, autoembed, autogrow, autolink, bbcode, clipboard, ↵  
↵codesnippet,  
codesnippetgeshi, colordialog, devtools, dialog, div, divarea, docprops, embed, ↵  
↵embedbase,  
embedsemantic, filetools, find, flash, forms, iframe, iframedialog, image, image2, ↵  
↵language,  
lineutils, link, liststyle, magicline, mathjax, menubutton, notification, ↵  
↵notificationaggregator,  
pagebreak, pastefromword, placeholder, preview, scayt, sharedspace, showblocks, ↵  
↵smiley,  
sourcedialog, specialchar, stylesheetparser, table, tableresize, tabletools, ↵  
↵templates, uicolor,  
uploadimage, uploadwidget, widget, wsc, xml
```

The image/file upload feature is done by the *uploadimage* plugin.



---

### Restricting file upload

---

1. To restrict upload functionality to image files only, add `CKEDITOR_ALLOW_NONIMAGE_FILES = False` in your `settings.py` file. Currently non-image files are allowed by default.
2. By default the upload and browse URLs use `staff_member_required` decorator - `ckeditor_uploader/urls.py` - if you want other decorators just insert two urls found in that `urls.py` and don't include it.



## CHAPTER 6

---

### Demo / Test application

---

If you clone the repository you will be able to run the `ckeditor_demo` application.

1. `pip install -r ckeditor_demo_requirements.txt`
2. Run `python manage.py migrate`
3. Create a superuser if you want to test the widget in the admin panel
4. Start the development server.

There is a `forms.Form` on the main page (`/`) and a model in `admin` that uses the widget for a model field. Database is set to `sqlite3` and `STATIC/MEDIA_ROOT` to folders in temporary directory.



## CHAPTER 7

---

### Running selenium test

---

You can run the test with `python manage.py test ckeditor_demo` (for repo checkout only) or with `tox` which is configured to run with Python 2.7 and 3.4.





## CHAPTER 8

---

### Running code quality tests

---

Create a new virtualenv, install `tox` and run `tox -e py27-lint` to `Flake8` (pep8 and other quality checks) tests or `tox -e py27-isort` to `isort` (import order check) tests



## CHAPTER 9

---

### Troubleshooting

---

If your browser has problems displaying uploaded images in the image upload window you may need to change Django settings:

```
X_FRAME_OPTIONS = 'SAMEORIGIN'
```

More on <https://docs.djangoproject.com/en/1.11/ref/clickjacking/#setting-x-frame-options-for-all-responses>



---

## Example ckeditor configuration

---

```

CKEDITOR_CONFIGS = {
  'default': {
    'skin': 'moono',
    # 'skin': 'office2013',
    'toolbar_Basic': [
      ['Source', '-', 'Bold', 'Italic']
    ],
    'toolbar_YourCustomToolbarConfig': [
      {'name': 'document', 'items': ['Source', '-', 'Save', 'NewPage', 'Preview
↪', 'Print', '-', 'Templates']},
      {'name': 'clipboard', 'items': ['Cut', 'Copy', 'Paste', 'PasteText',
↪ 'PasteFromWord', '-', 'Undo', 'Redo']},
      {'name': 'editing', 'items': ['Find', 'Replace', '-', 'SelectAll']},
      {'name': 'forms',
        'items': ['Form', 'Checkbox', 'Radio', 'TextField', 'Textarea', 'Select',
↪ 'Button', 'ImageButton',
          'HiddenField']},
      '/',
      {'name': 'basicstyles',
        'items': ['Bold', 'Italic', 'Underline', 'Strike', 'Subscript',
↪ 'Superscript', '-', 'RemoveFormat']},
      {'name': 'paragraph',
        'items': ['NumberedList', 'BulletedList', '-', 'Outdent', 'Indent', '-',
↪ 'Blockquote', 'CreateDiv', '-',
          'JustifyLeft', 'JustifyCenter', 'JustifyRight', 'JustifyBlock',
↪ '-', 'BidiLtr', 'BidiRtl',
          'Language']},
      {'name': 'links', 'items': ['Link', 'Unlink', 'Anchor']},
      {'name': 'insert',
        'items': ['Image', 'Flash', 'Table', 'HorizontalRule', 'Smiley',
↪ 'SpecialChar', 'PageBreak', 'Iframe']},
      '/',
      {'name': 'styles', 'items': ['Styles', 'Format', 'Font', 'FontSize']},
      {'name': 'colors', 'items': ['TextColor', 'BGColor']},
      {'name': 'tools', 'items': ['Maximize', 'ShowBlocks']},

```

```
{'name': 'about', 'items': ['About']},
  '/', # put this to force next toolbar on new line
  {'name': 'yourcustomtools', 'items': [
    # put the name of your editor.ui.addButton here
    'Preview',
    'Maximize',

    ]},
  ],
  'toolbar': 'YourCustomToolbarConfig', # put selected toolbar config here
  # 'toolbarGroups': [{ 'name': 'document', 'groups': [ 'mode', 'document',
↔ 'doctools' ] }],
  # 'height': 291,
  # 'width': '100%',
  # 'filebrowserWindowHeight': 725,
  # 'filebrowserWindowWidth': 940,
  # 'toolbarCanCollapse': True,
  # 'mathJaxLib': '//cdn.mathjax.org/mathjax/2.2-latest/MathJax.js?config=TeX-
↔AMS_HTML',
  'tabSpaces': 4,
  'extraPlugins': ','.join([
    'uploadimage', # the upload image feature
    # your extra plugins here
    'div',
    'autolink',
    'autoembed',
    'embedsemantic',
    'autogrow',
    # 'devtools',
    'widget',
    'lineutils',
    'clipboard',
    'dialog',
    'dialogui',
    'elementspath'

  ]),
}
}
```

### 11.1 Created By

1. shaunsephton

### 11.2 Contributors

1. riklaunim
2. 3point2
3. buchuki
4. chr15m
5. hedleyroos
6. jeffh
7. lihan
8. loop0
9. mwcz
10. tomwys
11. snbuback
12. And others <https://github.com/django-ckeditor/django-ckeditor/graphs/contributors>





### 12.1 5.3.1

1. Actually include the code which sets `CKEDITOR_BASEPATH`.
2. CKEditor 4.7.3

### 12.2 5.3.0

1. CKEditor 4.7
2. Fix storage problems by setting `CKEDITOR_BASEPATH` (hopefully for real this time)
3. Documentation updates
4. Added a `CKEDITOR_RESTRICT_BY_DATE` setting to add uploaded files into folders containing the current date.
5. Added a `CKEDITOR_FILEICONS` setting that allows overriding the icons used by Gallerific.
6. Added a `CKEDITOR_FILENAME_GENERATOR` setting which allows specifying a callable which mangles the filename of uploaded files.
7. Added `THUMBNAIL_SIZE` and `IMAGE_QUALITY` settings for the Pillow image backend.
8. Actually include static assets for `ckeditor_uploader` in the pip-installable package.
9. Removed `CKEDITOR_JQUERY_URL` and the jQuery dependency. The CKEditor activation now uses plain JavaScript. Dependencies are `JSON.parse` and `document.querySelectorAll` which are supported in practically all used browsers these days.
10. Fixed a bug where the CKEditor language was not set individually for each request.

## 12.3 5.2.2

1. Django 1.11 support
2. Drop South migrations
3. Fix storage problems by setting CKEDITOR\_BASEPATH

## 12.4 5.2.1

1. Fix CKEditor package static path

## 12.5 5.2.0

1. Django 1.10 updates
2. Development dependencies bump
3. CKEditor 4.6.1
4. Paste image support
5. Fix for ManifestStaticFilesStorage

## 12.6 5.1.1

1. Re-add missing additional CkEditor plugins

## 12.7 5.1.0

1. Updated CkEditor to 4.5.10
2. Django 1.10 compatibility changes
3. Documentation updates

## 12.8 5.0.3

1. Fix file/directory browsing and searching
2. Editor width style fixes
3. Added CKEDITOR\_BROWSE\_SHOW\_DIRS
4. Added CKEDITOR\_ALLOW\_NONIMAGE\_FILES
5. Python 2.6 compatibility fix

## 12.9 5.0.2

1. Added template missing in the package

## 12.10 5.0.1

1. Update Readme with backward-incompatible changes

## 12.11 5.0.0 (4.5.3)

1. Moved file upload code to new Django application - ckeditor\_uploader. *RichTextField* doesn't use file upload which have been moved to *RichTextUploadingField*.

File upload support have been moved to ckeditor\_uploader. The urls are in ckeditor\_uploader.urls while for file uploading widget you have to use RichTextUploadingField from ckeditor\_uploader.fields instead of RichTextField from from ckeditor.fields.

1. Updated ckeditor to 4.5.3 (from <https://github.com/ckeditor/ckeditor-dev/tree/4.5.3>)
2. Added new plugins from ckeditor maintainers: adobeair, ajax, autoembed, autogrow, autolink, bbcode, codesnippet, codesnippetgeshi, devtools, divarea, docprops, embed, embedbase, embedsemantic, filetools, iframedialog, image2, language, lineutils, mathjax, menubutton, notification, notificationaggregator, placeholder, sharedspace, sourcedialog, stylesheetparser, tableresize, uicolor, uploadimage, uploadwidget, widget, xml
3. Add `zip_safe=False` on setup config, to force does not create ".egg" file
4. Add python Wheel package configuration
5. Add setup.py functions to easy release ".egg" package and Wheel package, and tag version on git ( `python setup.py publish` and `python setup.py tag` )
6. Improved Tox configuration to code coverage check, code quality check (flake8), imports order check (isort) and test with django master branch
7. Add code quality configurations
8. Add EditorConfig configuration file
9. Refactored code to be in compliance with PEP8

## 12.12 4.5.1

1. Fixed unbound variable in non-image file upload

## 12.13 4.5.0

1. Updated ckeditor to 4.5.1
2. Reverted `django.contrib.staticfiles.templatetags.staticfiles.static` usage causing problems with some storages
3. Allow non-image files to be upload (the upload widget expects images so the user experience isn't best at the moment)

4. Few refactors and fixes to selenium tests

## 12.14 4.4.8

1. Python 3 compatibility fixes
2. Get static files paths in a proper way
3. Fix Django 1.7 deprecation warning
4. More examples in readme

## 12.15 4.4.7

1. Allow only POST requests on upload view.
2. Exclude hidden files from image browser
3. Prevent caching of image browser view
4. Use lazy JSON encoder to support i18n in CKEditor settings.
5. Misc documentation updates
6. Check for jQuery presence correctly
7. Update to CKEditor 4.4.6

## 12.16 4.4.6

1. Make upload/browse views be `staff_member_required` by default (can be overridden)
2. Fix ckeditor initialisation code breaking with other jQuery versions.
3. Support grappelli inline form widgets.
4. Remove odd left margin from widget template.
5. Allow running selenium tests with chromium.

## 12.17 4.4.5

1. Post merge package name fix in Readme

## 12.18 4.4.4

1. Update CKEditor to 4.4.4 full package - for all plugins and static files you may need
2. Fixes for inline editor
3. Editor initialisation uses jQuery. You need to specify `CKEDITOR_JQUERY_URL` for it to work. You can use:

```
CKEDITOR_JQUERY_URL = '//ajax.googleapis.com/ajax/libs/jquery/2.1.1/jquery.min.js'
```

## 12.19 4.4.0

1. Update CKEditor to 4.4.1
2. Django 1.7 compatibility fix

## 12.20 4.2.8

1. Update CKEditor to 4.3.3

## 12.21 4.2.7

1. Fix slugifying to empty filename if only bad characters given in filename. Use random string as fallback.
2. Don't use IMG tags for non image files in ckeditor file browser.
3. Remove non-existing image reference from CSS files that broke collectstatic.
4. Misc fixes

## 12.22 4.2.5 / 4.2.6

1. Fix static files installation - switch from distutils to setuptools

## 12.23 4.2.4

1. Added new demo application with selenium integration test
2. tox setup for Python 3.3 and 2.7 testing
3. Extracted image processing to backends. PIL/Pillow is optional now. Other backends can be added.
4. Fixed a bug with thumbnail generation

## 12.24 4.2.3

1. Python 3.3 compatibility
2. All uploaded files are slugified by default (New settings CKEDITOR\_SLUGIFY\_FILENAME)
3. Upload file when editing a link (<a href>) now works properly

## 12.25 4.2.2

1. Python 3.3 compatibility in widgets.py

## 12.26 4.2.1

1. Include CKEditor version 4.2.1.
2. Support Django 1.6

## 12.27 4.0.2

1. Include CKEditor version 4.0.2.

## 12.28 3.6.2.1

1. Remove unwanted static files from distribution.
2. Use Pillow instead of PIL since it builds on all systems.

## 12.29 3.6.2

1. Include CKEditor version 3.6.2.
2. Initial work on Django aligned theme.
3. Fix schema slash removal issue on media url generation. Thanks [mwcz](#)
4. Added compatibility for South. Thanks [3point2](#)
5. Prevented settings from leaking between widget instances. Thanks [3point2](#)
6. Fixed config\_name conflict when verbose\_name is used as first positional argument for a field. Thanks [3point2](#)
7. Refactored views to allow use of file walking with local paths. Thanks [3point2](#)
8. Added command to generate thumbnails. Thanks [3point2](#)
9. Migrated from using media to static file management.

## 12.30 0.0.9

1. Added ability to configure CKeditor through a CKEDITOR\_CONFIGS settings. Thanks [jeffh](#) for the input.

## 12.31 0.0.8

1. Removed buggy url include check.

## 12.32 0.0.7

1. Egg package corrected to exclude testing admin.py and models.py.

## 12.33 0.0.6

1. Enforce correct configuration.
2. Changed upload behavior to separate files into directories by upload date. Thanks [loop0](#) .
3. Added ability to limit user access to uploaded content (see the CKEDITOR\_RESTRICT\_BY\_USER setting). Thanks [chr15m](#) for the input.
4. Added initial set of much needed tests.
5. General cleanup, light refactor.

## 12.34 0.0.5

1. csrf\_exempt backwards compatability. Thanks [chr15m](#) .

## 12.35 0.0.4

1. Include resources, sorry about that.

## 12.36 0.0.3

1. More robust PIL import. Thanks [buchuki](#) .
2. Better CKEDITOR\_MEDIA\_PREFIX setting error.

## 12.37 0.0.2

1. Included README.rst in manifest.

## 12.38 0.0.1

1. Added CKEDITOR\_UPLOAD\_PREFIX setting. Thanks [chr15m](#) for the input.