Mezzanine Documentation

Release 4.3.1

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Python Module Index

Welcome to the Mezzanine project. To learn more about Mezzanine please read the *Overview* which contains a feature list, installation guide and other general information. To get an idea of the types of sites possible with Mezzanine, have a look at the gallery of sites powered by Mezzanine.

Note: A working knowledge of Django is required to work with Mezzanine and the documentation assumes as much. If you're new to Django, you'll need to work through the Django tutorial before being able to understand the concepts used throughout the Mezzanine documentation. *A mantra for working with Mezzanine: Mezzanine Is Just Django* - Ken Bolton, Mezzanine core team member.

Front-end developers might be interested in Mezzanine's ability for content authors to edit content directly within a page while viewing it on the website. You can read about this and how to implement this feature within templates under *In-line Editing*.

Back-end developers can get a better technical overview of how content is managed and how to customize Mezzanine in general by reading about Mezzanine's *Content Architecture* which describes the main components and how to extend them with your own custom content types, or by reading about *Model Customization* for implementing more low-level customizations as required. There is also a section on the *Admin Customization* provided by Mezzanine, as well as a *Model Graph* depicting the relationships between all the models.

System administrators can find out about some of the production requirements and operations in the *Deployment* and *Caching Strategy* sections.

Further reading includes *Frequently Asked Questions*, *Utilities*, a section on *Public User Accounts*, support for *Multi-Lingual Sites*, information about Mezzanine's *Search Engine*, and a section on Mezzanine's *Configuration* which outlines the various settings for configuring Mezzanine. Lastly, you can learn about *Importing External Blogs* into Mezzanine, *Twitter Integration*, or just browse the auto-generated docs for each of Mezzanine's *Packages*.

CHAPTER 1

Table Of Contents

build failing Created by Stephen McDonald

1.1 Overview

Mezzanine is a powerful, consistent, and flexible content management platform. Built using the Django framework, Mezzanine provides a simple yet highly extensible architecture that encourages diving in and hacking on the code. Mezzanine is BSD licensed and supported by a diverse and active community.

In some ways, Mezzanine resembles tools such as Wordpress, providing an intuitive interface for managing pages, blog posts, form data, store products, and other types of content. But Mezzanine is also different. Unlike many other platforms that make extensive use of modules or reusable applications, Mezzanine provides most of its functionality by default. This approach yields a more integrated and efficient platform.

Visit the Mezzanine project page to see some of the great sites people have built using Mezzanine.

1.1.1 Features

In addition to the usual features provided by Django such as MVC architecture, ORM, templating, caching and an automatic admin interface, Mezzanine provides the following:

- · Hierarchical page navigation
- · Save as draft and preview on site
- Scheduled publishing
- Drag-and-drop page ordering
- WYSIWYG editing
- In-line page editing
- Drag-and-drop HTML5 forms builder with CSV export

- SEO friendly URLs and meta data
- Ecommerce / Shopping cart module (Cartridge)
- Configurable dashboard widgets
- Blog engine
- Tagging
- Free Themes, and a Premium Themes Marketplace
- User accounts and profiles with email verification
- Translated to over 35 languages
- Sharing via Facebook or Twitter
- Multi-lingual sites
- Custom templates per page or blog post
- Twitter Bootstrap integration
- API for custom content types
- Search engine and API
- Seamless integration with third-party Django apps
- · One step migration from other blogging engines
- Automated production provisioning and deployments
- Disqus integration, or built-in threaded comments
- Gravatar integration
- Google Analytics integration
- Twitter feed integration
- bit.ly integration
- Akismet spam filtering
- Built-in test suite
- JVM compatible (via Jython)

The Mezzanine admin dashboard:

MEZZANINE		English	V Stephen C	hange password View site Log out
Content Pages	Dashboard			
Blog posts	Quick Blog		Recent Comments	Recent Actions
Comments	Title:		Steve	My Actions
Media Library	Content:		Ditwise Lue Operations in Redis - 13 minutes ago	Bitwise Lus Operations In Redis Biog post admin
Site Sites Redirects			Steve Tasting Briefes Lus Operations in Reds - 13 minutes ago	User
Settings		Save Draft	Steve Toasting Bitwise Lue Operations in Reds - 13	
Users	Content		minutes ago	
Users	Pages	+ Add E Change	0	
	Blog posts	+ Add		
Groups	Comments	≡ Change		
	Media Library			
	Site			
	Sites	+ Add E Change	0	
	Redirects	+ Add		
	Settings	+ Add	0	
	Users			
	Users	+ Add	B	
	Groups	+ Add E Change	0	

1.1.2 Support

To **report a security issue**, please send an email privately to core-team@mezzaninecms.com. This gives us a chance to fix the issue and create an official release prior to the issue being made public.

For **all other Mezzanine support**, the primary channel is the mezzanine-users mailing list. Questions, comments, issues, feature requests, and all other related discussions should take place here.

If you're **certain** you've come across a bug, then please use the GitHub issue tracker, however it's crucial that enough information is provided to reproduce the bug, ideally with a small code sample repo we can simply fork, run, and see the issue with. Other useful information includes things such as the Python stack trace generated by error pages, as well as other aspects of the development environment used, such as operating system, database, and Python version. If **you're not sure you've found a reproducible bug**, then please try the mailing list first.

Finally, feel free to drop by the #mezzanine IRC channel on Freenode, for a chat! Lastly, communications in all Mezzanine spaces are expected to conform to the Django Code of Conduct.

1.1.3 Contributing

Mezzanine is an open source project managed using both the Git and Mercurial version control systems. These repositories are hosted on both GitHub and Bitbucket respectively, so contributing is as easy as forking the project on either of these sites and committing back your enhancements.

1.1.4 Donating

If you would like to make a donation to continue development of Mezzanine, you can do so via the Mezzanine Project website.

1.1.5 Quotes

- "I'm enjoying working with Mezzanine, it's good work" Van Lindberg, Python Software Foundation chairman
- "Mezzanine looks like it may be Django's killer app" Antonio Rodriguez, ex CTO of Hewlett Packard, founder of Tabblo
- "Mezzanine looks pretty interesting, tempting to get me off Wordpress" Jesse Noller, Python core contributor, Python Software Foundation board member
- "I think I'm your newest fan. Love these frameworks" Emile Petrone, integrations engineer at Urban Airship
- "Mezzanine is amazing" Audrey Roy, founder of PyLadies and Django Packages
- "Mezzanine convinced me to switch from the Ruby world over to Python" Michael Delaney, developer
- "Like Linux and Python, Mezzanine just feels right" Phil Hughes, Linux For Dummies author, The Linux Journal columnist
- "Impressed with Mezzanine so far" Brad Montgomery, founder of Work For Pie
- "From the moment I installed Mezzanine, I have been delighted, both with the initial experience and the community involved in its development" - John Campbell, founder of Head3 Interactive
- "You need to check out the open source project Mezzanine. In one word: Elegant" Nick Hagianis, developer

1.1.6 Installation

The easiest method is to install directly from pypi using pip by running the command below, which will also install the required dependencies mentioned above:

```
$ pip install mezzanine
```

If you prefer, you can download Mezzanine and install it directly from source:

```
$ python setup.py install
```

Once installed, the command mezzanine-project can be used to create a new Mezzanine project in similar fashion to django-admin.py:

```
$ mezzanine-project project_name
$ cd project_name
$ python manage.py createdb --noinput
$ python manage.py runserver
```

Note: The createdb command is a shortcut for using Django's migrate command, which will also install some demo content, such as a contact form, image gallery, and more. If you'd like to omit this step, use the --nodata option with createdb.

You should then be able to browse to http://127.0.0.1:8000/admin/ and log in using the default account (username: admin, password: default). If you'd like to specify a different username and password during set up, simply exclude the --noinput option included above when running createdb.

For information on how to add Mezzanine to an existing Django project, see the FAQ section of the documentation.

Mezzanine makes use of as few libraries as possible (apart from a standard Django environment), with the following dependencies, which unless noted as optional, should be installed automatically following the above instructions:

• Python 2.7 to 3.6

- Django 1.8 to 1.10
- · django-contrib-comments for built-in threaded comments
- Pillow for image resizing (Python Imaging Library fork)
- grappelli-safe admin skin (Grappelli fork)
- filebrowser-safe for managing file uploads (FileBrowser fork)
- bleach and BeautifulSoup for sanitizing markup in content
- pytz and tzlocal for timezone support
- · chardet for supporting arbitrary encoding in file uploads
- django-modeltranslation for multi-lingual content (optional)
- django-compressor for merging JS/CSS assets (optional)
- requests and requests_oauthlib for interacting with external APIs
- pyflakes and pep8 for running the test suite (optional)

Note that various systems may contain specialized instructions for installing Pillow.

1.1.7 Themes

A handful of attractive Free Themes are available thanks to @abhinavsohani, while there is also a marketplace for buying and selling Premium Themes thanks to @joshcartme.

1.1.8 Browser Support

Mezzanine's admin interface works with all modern browsers. Internet Explorer 7 and earlier are generally unsupported.

1.1.9 Third-Party Plug-Ins

The following plug-ins have been developed outside of Mezzanine. If you have developed a plug-in to integrate with Mezzanine and would like to list it here, send an email to the mezzanine-users mailing list, or better yet, fork the project and create a pull request with your plug-in added to the list below. We also ask that you add it to the Mezzanine Grid on djangopackages.com.

- Cartridge ecommerce for Mezzanine.
- Drum A Hacker News / Reddit clone powered by Mezzanine.
- mezzanine-html5boilerplate Integrates the html5boilerplate project into Mezzanine.
- mezzanine-mdown Adds Markdown support to Mezzanine's rich text editor.
- mezzanine-openshift Setup for running Mezzanine on Redhat's OpenShift cloud platform.
- mezzanine-stackato Setup for running Mezzanine on ActiveState's Stackato cloud platform.
- · mezzanine-blocks A Mezzanine flavored fork of django-flatblocks.
- mezzanine-widgets Widget system for Mezzanine.
- mezzanine-themes A collection of Django/Mezzanine templates.
- mezzanine-twittertopic Manage multiple Twitter topic feeds from the Mezzanine admin interface.

- mezzanine-captcha Adds CAPTCHA field types to Mezzanine's forms builder app.
- mezzanine-bookmarks A multi-user bookmark app for Mezzanine.
- mezzanine-events Events plugin for Mezzanine, with geocoding via Google Maps, iCalendar files, webcal URLs and directions via Google Calendar/Maps.
- mezzanine-polls Polls application for Mezzanine.
- mezzanine-pagedown Adds the Pagedown WYSIWYG editor to Mezzanine.
- mezzanine-careers Job posting application for Mezzanine.
- mezzanine-recipes Recipes plugin with built-in REST API.
- mezzanine-slides Responsive banner slides app for Mezzanine.
- mezzyblocks Another app for adding blocks/modules to Mezzanine.
- mezzanine-flexipage Allows designers to manage content areas in templates.
- mezzanine-instagram A simple Instagram app for Mezzanine.
- mezzanine-wiki Wiki app for Mezzanine.
- · mezzanine-calendar Calendar pages in Mezzanine
- mezzanine-facebook Simple Facebook integration for Mezzanine.
- mezzanine-instagram-gallery Create Mezzanine galleries using Instagram images.
- mezzanine-cli Command-line interface for Mezzanine.
- mezzanine-categorylink Integrates Mezzanine's Link pages with its blog categories.
- mezzanine-podcast A simple podcast streamer and manager for Mezzanine.
- mezzanine-linkcollection Collect links. Feature them. Share them over RSS.
- · cash-generator Generate GnuCash invoices with Mezzanine.
- mezzanine-foundation Zurb Foundation theme for Mezzanine.
- mezzanine-file-collections Simple file collection page type for Mezzanine.
- · mezzanine-wymeditor WYMeditor adapted as the rich text editor for Mezzanine.
- mezzanine-meze Adds support for reStructuredText, Pygments and more, to Mezzanine's rich text editing.
- mezzanine-pageimages Add background and banner images per page in Mezzanine.
- mezzanine-protected-pages Restrict access to pages by group membership.
- mezzanine-page-auth A Mezzanine module for add group-level permission to pages.
- django-widgy Widget-oriented content editing. Includes an adapter for Mezzanine and a powerful form builder.
- mezzanine-admin-backup Export your Mezzanine database and assets directly from the admin.
- mezzanine-mailchimp Integrate Mezzanine forms with a MailChimp subscription list.
- mezzanine-grappelli Integrates latest upstream grappelli/filebrowser with Mezzanine.
- mezzanine-workout Store and display FIT data in Mezzanine.
- · mezzanine-agenda Event functionality for your Mezzanine sites.
- mezzanine-dpaste Integrate dpaste, a Django pastebin, into your Mezzanine site.
- mezzanine-linkdump Create, display and track links in Mezzanine.

- mezzanine-people Categorize and list people in Mezzanine.
- mezzanine-webf Fabfile for deploying Mezzanine to Webfaction.
- · mezzanineopenshift Another setup for Redhat's OpenShift cloud platform.
- mezzanine-bsbanners Add Twitter Bootstrap Carousels and Jumbotrons to Mezzanine.
- mezzanine-business-theme Starter business theme for Mezzanine.
- open-helpdesk A helpdesk app built with Mezzanine.
- mezzanine-invites Allow site registration via alphanumeric invite codes.
- ansible-mezzanine Full pipeline (dev, staging, production) deployment of Mezzanine using Ansible.
- mezzanine-modal-announcements Popup announcements for Mezzanine websites via Bootstrap modals.
- mezzanine-buffer Buffer integration for Mezzanine.
- · mezzanine-slideshows Allows placement of Mezzanine galleries within other Mezzanine pages as slideshows.
- mezzanine-onepage Design helper for single-page Mezzanine sites.
- mezzanine-api RESTful web API for Mezzanine.
- mezzanine-smartling Integrates Mezzanine content with Smartling Translations.
- mezzanine-shortcodes Wordpress shortcodes for Mezzanine.

1.1.10 Sites Using Mezzanine

Got a site built with Mezzanine? You can add it to the gallery on the Mezzanine project page by adding it to the list below - just fork the project and create a pull request. Please omit the trailing slash in the URL, as we manually add that ourselves to feature certain sites.

- Citrus Agency
- Mezzanine Project
- Nick Hagianis
- Thomas Johnson
- Central Mosque Wembley
- Ovarian Cancer Research Foundation
- The Source Procurement
- Imageinary
- Brad Montgomery
- Jashua Cloutier
- Alpha & Omega Contractors
- Equity Advance
- Head3 Interactive
- PyLadies
- Ripe Maternity
- Cotton On
- List G Barristers

- Tri-Cities Flower Farm
- daon.ru
- autoindeks.ru
- immiau.ru
- ARA Consultants
- Boîte à Z'images
- The Melbourne Cup
- Diablo News
- Goldman Travel
- IJC Digital
- Coopers
- Joe Julian
- Sheer Ethic
- Salt Lake Magazine
- Boca Raton Magazine
- Photog.me
- Elephant Juice Soup
- National Positions
- Like Humans Do
- Connecting Countries
- tindie.com
- Environmental World Products
- Ross A. Laird
- Etienne B. Roesch
- Recruiterbox
- Mod Productions
- Appsembler
- Pink Twig
- Parfume Planet
- Trading 4 Us
- Chris Fleisch
- Theneum
- My Story Chest
- Philip Sahli
- Raymond Chandler
- Nashsb

- AciBASE
- Matthe Wahn
- Bit of Pixels
- European Crystallographic Meeting
- Dreamperium
- UT Dallas
- Go Yama
- Yeti LLC
- Li Xiong
- Pageworthy
- Prince Jets
- 30 sites in 30 days
- St Barnabas' Theological College
- Helios 3D
- Life is Good
- Building 92
- Pie Monster
- Cotton On Asia
- Ivan Diao
- Super Top Secret
- Jaybird Sport
- Manai Glitter
- Sri Emas International School
- Boom Perun
- Tactical Bags
- apps.de
- Sunfluence
- ggzpreventie.nl
- dakuaiba.com
- Wdiaz
- Hunted Hive
- mjollnir.org
- The Beancat Network
- Raquel Marón
- EatLove
- Hospitality Quotient

- The Andrew Story
- Charles Koll Jewelry
- Creuna (com/dk/fi/no/se)
- Coronado School of the Arts
- SiteComb
- Dashing Collective
- Puraforce Remedies
- Google's VetNet
- 1800RESPECT
- Evenhouse Consulting
- Humboldt Community Christian School
- Atlanta's Living Legacy
- Shipgistix
- Yuberactive
- Medical Myth Busters
- 4player Network
- Top500 Supercomputers
- Die Betroffenen
- uvena.de
- ezless.com
- Dominican Python
- Stackful.io
- Adrenaline
- ACE EdVenture Programme
- Butchershop Creative
- Sam Kingston
- Ludwig von Mises Institute
- Incendio
- Alexander Lillevik
- Walk In Tromsø
- Mandrivia Linux
- Crown Preschool
- Coronado Pathways Charter School
- Raindrop Marketing
- Web4py
- The Peculiar Store

- GrinDin
- 4Gume
- Skydivo
- Noshly
- Kabu Creative
- KisanHub
- Your Song Your Story
- Kegbot
- Fiz
- Willborn
- Copilot Co
- Amblitec
- Gold's Gym Utah
- Appsin Blog to Native app
- Take Me East
- Code Raising
- ZigZag Bags
- VerifIP
- Clic TV
- JE Rivas
- Heather Gregory Nutrition
- Coronado Island Realty
- Loans to Homes
- Gensler Group
- SaniCo
- Grupo Invista
- Brooklyn Navy Yard
- MEZZaTHEME
- Nektra Advanced Computing
- Bootstrap ASAP
- California Center for Jobs
- Sam Kingston
- Code Juggle DJ
- Food News
- Australian Discworld Conventions
- Distilled

- OpenMRP
- Arkade Snowboarding
- Linktective The Link Checker
- Zetalab
- Make-Up Artists & Hair Stylists Guild
- Anywhereism
- Assistive Listening Device Locator
- Frank & Connie Spitzer
- Coronado Unified School District
- Coronado Inn
- Coronado Schools Foundation
- Light and Life Christian School
- The Morabito Group
- Law Offices of Nancy Gardner
- Soden & Steinberger APLC
- Stalwart Communications
- Ubuntu Consultants
- Wine a Bit Coronado
- Mercury Mastering
- Flowgrammable
- Shibe Mart
- Carlos Isaac Balderas
- Enrico Tröger
- Perugini
- YouPatch
- Batista Peniel
- Perceptyx
- Guddina Coffee
- Atami Escape Resort
- Philip Southwell
- Justine & Katie's Bowtique
- The Grantwell LLC
- PyCon Asia-Pacific
- Nerdot
- Coworking.do
- Arlette Pichardo

- Sani Dental Group
- Biocap 06
- Python Baja California
- The Art Rebellion
- Engineered Arts
- Paul Whipp Consulting
- Lipman Art
- MODCo Group
- Terminal Labs
- Resource Management Companies
- DollFires
- Quantifind
- ZHackers
- Open ERP Arabia
- DataKind
- New Zealand Institute of Economic Research
- CodingHouse
- Triple J Products
- Aaron E. Balderas
- DVD.nl
- Constantia Fabrics
- Potrillo al Pie
- Skyfalk Web Studio
- Firefox OS Partners
- You Name It
- Atlas of Human Infectious Diseases
- The Entrepreneurial School
- Wednesday Martin
- Avaris to Avanim
- Cognitions Coaching and Consulting
- Foundation Engineering Group
- Hivelocity
- Zooply
- Oceana Technologies
- TerraHub
- djangoproject.jp

- Joshua Ginsberg
- Savant Digital
- weBounty
- Oxfam America
- Artivest
- Dark Matter Sheep
- Mission Healthcare
- Two Forty Fives
- Rodeo Austin
- Krisers
- Intentional Creation
- BytesArea
- Debra Solomon
- Pampanga Food Company
- Aman Sinaya
- Deschamps osteo
- Deschamps kine
- Creactu
- scrunch
- App Dynamics
- Homespun Music Instruction
- Fusionbox
- The Street University
- Glebe
- CeoDental Seminars
- Pay By Super
- Noffs
- Spokade
- Brisbane Prosthodontics
- Carbonised
- Derry Donnell
- Dr Kenneth Cutbush
- American Institute for Foreign Study
- Camp America
- Code Source
- The Federation of Egalitarian Communities

- Caffeinated Lifestyle
- The National: New Australian Art

1.2 Content Architecture

Content in Mezzanine primarily revolves around the models found in two packages, *mezzanine.core* and *mezzanine.pages*. Many of these models are abstract, and very small in scope, and are then combined together as the building blocks that form the models you'll actually be exposed to, such as *mezzanine.core.models*. *Displayable* and *mezzanine.pages.models.Page*, which are the two main models you will inherit from when building your own models for content types.

Before we look at *Displayable* and *Page*, here's a quick list of all the abstract models used to build them:

- *mezzanine.core.models.SiteRelated* Contains a related django.contrib.sites. models.Site field.
- mezzanine.core.models.Slugged Implements a title and URL (slug).
- mezzanine.core.models.MetaData Provides SEO meta data, such as title, description and keywords.
- mezzanine.core.models.TimeStamped Provides created and updated timestamps.
- *mezzanine.core.models.Displayable* Combines all the models above, then implements publishing features, such as status and dates.
- *mezzanine.core.models.Ownable* Contains a related user field, suitable for content owned by specific authors.
- mezzanine.core.models.RichText Provides a WYSIWYG editable field.
- *mezzanine.core.models.Orderable* Used to implement drag/drop ordering of content, whether out of the box as Django admin inlines, or custom such as Mezzanine's page tree.

And for completeness, here are the primary content types provided out of the box to end users, that make use of *Displayable* and *Page*:

- *mezzanine.blog.models.BlogPost* Blog posts that subclass *Displayable* as they're not part of the site's navigation.
- *mezzanine.pages.models.RichTextPage* **Default** *Page* **subclass**, **providing** a **WYSIWYG editable** field.
- mezzanine.pages.models.Link Page subclass for links pointing to other URLs.
- *mezzanine.forms.models.Form Page* subclass for building forms.
- mezzanine.galleries.models.Gallery Page subclass for building image gallery pages.

These certainly serve as examples for implementing your own types of content.

1.2.1 Displayable VS Page

Displayable itself is also an abstract model, that at its simplest, is used to represent content that contains a URL (also known as a slug). It also provides the core features of content such as:

- Meta data such as a title, description and keywords.
- Auto-generated slug from the title.
- Draft/published status with the ability to preview drafts.

- Pre-dated publishing.
- Searchable by Mezzanine's Search Engine.

Subclassing *Displayable* best suits low-level content that doesn't form part of the site's navigation - such as blog posts, or events in a calendar. Unlike *Page*, there's nothing particularly special about the *Displayable* model - it simply provides a common set of features useful to content.

In contrast, the concrete *Page* model forms the primary API for building a Mezzanine site. It extends *Displayable*, and implements a hierarchical navigation tree. The rest of this section of the documentation will focus on the *Page* model, and the way it is used to build all the types of content a site will have available.

1.2.2 The Page Model

The foundation of a Mezzanine site is the model *mezzanine.pages.models.Page*. Each *Page* instance is stored in a hierarchical tree to form the site's navigation, and an interface for managing the structure of the navigation tree is provided in the admin via *mezzanine.pages.admin.PageAdmin*. All types of content inherit from the *Page* model and Mezzanine provides a default content type via the *mezzanine.pages.models*. *RichTextPage* model which simply contains a WYSIWYG editable field for managing HTML content.

1.2.3 Creating Custom Content Types

In order to handle different types of pages that require more structured content than provided by the *RichTextPage* model, you can simply create your own models that inherit from *Page*. For example if we wanted to have pages that were authors with books:

```
from django.db import models
from mezzanine.pages.models import Page
# The members of Page will be inherited by the Author model, such
# as title, slug, etc. For authors we can use the title field to
# store the author's name. For our model definition, we just add
# any extra fields that aren't part of the Page model, in this
# case, date of birth.
class Author(Page):
    dob = models.DateField("Date of birth")
class Book(models.Model):
    author = models.ForeignKey("Author")
    cover = models.ImageField(upload_to="authors")
```

Next you'll need to register your model with Django's admin to make it available as a content type. If your content type only exposes some new fields that you'd like to make editable in the admin, you can simply register your model using the *mezzanine.pages.admin.PageAdmin* class:

```
from django.contrib import admin
from mezzanine.pages.admin import PageAdmin
from .models import Author
admin.site.register(Author, PageAdmin)
```

Any regular model fields on your content type will be available when adding or changing an instance of it in the admin. This is similar to Django's behaviour when registering models in the admin without using an admin class, or when using an admin class without fieldsets defined. In these cases all the fields on the model are available in the admin. If however you need to customize your admin class, you can inherit from *PageAdmin* and implement your own admin class. The only difference is that you'll need to take a copy of PageAdmin.fieldsets and modify it if you want to implement your own fieldsets, otherwise you'll lose the fields that the *Page* model implements:

```
from copy import deepcopy
from django.contrib import admin
from mezzanine.pages.admin import PageAdmin
from .models import Author, Book
author_extra_fieldsets = ((None, {"fields": ("dob",)}),)
class BookInline(admin.TabularInline):
    model = Book
class AuthorAdmin(PageAdmin):
    inlines = (BookInline,)
    fieldsets = deepcopy(PageAdmin.fieldsets) + author_extra_fieldsets
admin.site.register(Author, AuthorAdmin)
```

When registering content type models with *PageAdmin* or subclasses of it, the admin class won't be listed in the admin index page, instead being made available as a type of *Page* when creating new pages from the navigation tree.

Note: When creating custom content types, you must inherit directly from the *Page* model. Further levels of subclassing are currently not supported. Therefore you cannot subclass the *RichTextPage* or any other custom content types you create yourself. Should you need to implement a WYSIWYG editable field in the way the *RichTextPage* model does, you can simply subclass both *Page* and *RichText*, the latter being imported from *mezzanine*. *core.models*.

1.2.4 Displaying Custom Content Types

When creating models that inherit from the *Page* model, multi-table inheritance is used under the hood. This means that when dealing with the page object, an attribute is created from the subclass model's name. So given a *Page* instance using the previous example, accessing the Author instance would be as follows:

```
>>> Author.objects.create(title="Dr Seuss")
<Author: Dr Seuss>
>>> page = Page.objects.get(title="Dr Seuss")
>>> page.author
<Author: Dr Seuss>
```

And in a template:

```
<hl>{{ page.author.title }}</hl>
{{ page.author.dob }}
{% for book in page.author.book_set.all %}
<img src="{{ MEDIA_URL }}{{ book.cover }}">
{% endfor %}
```

The *Page* model also contains the method *Page.get_content_model()* for retrieving the custom instance without knowing its type:

```
>>> page.get_content_model()
<Author: Dr Seuss>
```

1.2.5 Page Templates

The view function *mezzanine.pages.views.page()* handles returning a *Page* instance to a template. By default the template pages/page.html is used, but if a custom template exists it will be used instead. The check for a custom template will first check for a template with the same name as the *Page* instance's slug, and if not then a template with a name derived from the subclass model's name is checked for. So given the above example the templates pages/dr-seuss.html and pages/author.html would be checked for respectively.

The view function further looks through the parent hierarchy of the *Page*. If a *Page* instance with slug authors/ dr-seuss is a child of the *Page* with slug authors, the templates pages/authors/dr-seuss.html, pages/authors/dr-seuss/author.html, pages/authors/author.html, pages/author.html, and pages/page.html would be checked for respectively. This lets you specify a template for all children of a *Page* and a different template for the *Page* itself. For example, if an additional author were added as a child page of authors/dr-seuss with the slug authors/dr-seuss/theo-lesieg, the template pages/authors/ dr-seuss/author.html would be among those checked.

1.2.6 Page Processors

So far we've covered how to create and display custom types of pages, but what if we want to extend them further with more advanced features? For example adding a form to the page and handling when a user submits the form. This type of logic would typically go into a view function, but since every *Page* instance is handled via the view function *mezzanine.pages.views.page()* we can't create our own views for pages. Mezzanine solves this problem using *Page Processors*.

Page Processors are simply functions that can be associated to any custom Page models and are then called inside the mezzanine.pages.views.page() view when viewing the associated Page instance. A Page Processor will always be passed two arguments - the request and the Page instance, and can either return a dictionary that will be added to the template context, or it can return any of Django's HttpResponse classes which will override the mezzanine.pages.views.page() view entirely.

To associate a Page Processor to a custom *Page* model you must create the function for it in a module called page_processors.py inside one of your INSTALLED_APPS and decorate it using the decorator *mezzanine*. *pages.page_processors.processor_for()*.

Continuing on from our author example, suppose we want to add an enquiry form to each author page. Our page_processors.py module in the author app would be as follows:

```
from django import forms
from django.http import HttpResponseRedirect
from mezzanine.pages.page_processors import processor_for
from .models import Author
class AuthorForm(forms.Form):
    name = forms.CharField()
    email = forms.EmailField()
@processor_for(Author)
def author_form(request, page):
    form = AuthorForm()
    if request.method == "POST":
        form = AuthorForm(request.POST)
        if form.is_valid():
            # Form processing goes here.
            redirect = request.path + "?submitted=true"
            return HttpResponseRedirect(redirect)
    return {"form": form}
```

The processor_for () decorator can also be given a slug argument rather than a Page subclass. In this case the Page Processor will be run when the exact slug matches the page being viewed.

1.2.7 Page Permissions

The navigation tree in the admin where pages are managed will take into account any permissions defined using Django's permission system. For example if a logged in user doesn't have permission to add new instances of the Author model from our previous example, it won't be listed in the types of pages that user can add when viewing the navigation tree in the admin.

In conjunction with Django's permission system, the *Page* model also implements the methods *can_add()*, *can_change()*, *can_delete()*, and *can_move()*. These methods provide a way for custom page types to implement their own permissions by being overridden on subclasses of the *Page* model.

With the exception of *can_move()*, each of these methods takes a single argument which is the current request object, and return a Boolean. This provides the ability to define custom permission methods with access to the current user as well.

Note: The *can_add()* permission in the context of an existing page has a different meaning than in the context of an overall model as is the case with Django's permission system. In the case of a page instance, *can_add()* refers to the ability to add child pages.

The *can_move()* method has a slightly different interface, as it needs an additional argument, which is the new parent should the move be completed, and an additional output, which is a message to be displayed when the move is denied. The message helps justify reverting the page to its position prior to the move, and is displayed using Django messages framework. Instead of a Boolean return value, *can_move()* raises a *PageMoveException* when the move is denied, with an optional argument representing the message to be displayed. In any case, *can_move()* does not return any values.

Note: The *can_move()* permission can only constrain moving existing pages, and is not observed when creating a new page. If you want to enforce the same rules when creating pages, you need to implement them explicitly through other means, such as the save method of the model or the save_model method of the model's admin.

For example, if our Author content type should only contain one child page at most, can only be deleted when added as a child page (unless you're a superuser), and cannot be moved to a top-level position, the following permission methods could be implemented:

```
from mezzanine.pages.models import Page, PageMoveException

class Author(Page):
    dob = models.DateField("Date of birth")

    def can_add(self, request):
        return self.children.count() == 0

    def can_delete(self, request):
        return request.user.is_superuser or self.parent is not None

    def can_move(self, request, new_parent):
        if new_parent is None:
            msg = 'An author page cannot be a top-level page'
            raise PageMoveException(msg)
```

1.2.8 Page Menus

We've looked closely at the aspects of individual pages, now let's look at displaying all of the pages as a hierarchical menu. A typical site may contain several different page menus, for example a menu that shows primary pages on the header of the site, with secondary pages as drop-down lists. Another type of menu would be a full or partial tree in a side-bar on the site. The footer may display a menu with primary and secondary pages grouped together as vertical lists.

Mezzanine provides the page_menu() template tag for rendering the above types of page menus, or any other type you can think of. The page_menu() template tag is responsible for rendering a single branch of the page tree at a time, and accepts two optional arguments (you'll usually need to supply at least one of them) in either order. The arguments are the name of a menu template to use for a single branch within the page tree, and the parent menu item for the branch that will be rendered.

The page menu template will be provided with a variable page_branch, which contains a list of pages for the current branch. We can then call the page_menu() template tag for each page in the branch, using the page as the parent argument to render its children. When calling the page_menu() template tag from within a menu template, we don't need to supply the template name again, as it can be inferred. Note that by omitting the page argument for the page_menu() template tag, the first branch rendered will be all of the primary pages, that is, all of the pages without a parent.

Here's a simple menu example using two template files, that renders the entire page tree using unordered list HTML tags:

The first file starts off the menu without specifying a parent page so that primary pages are first rendered, and only passes in the menu template to use. The second file is the actual menu template that includes itself recursively for each branch in the menu. We could even specify a different menu template in the call to page_menu() in our menu template, if we wanted to use a different layout for child pages.

Filtering Menus

Each *Page* instance has a field in_menus which specifies which menus the page should appear in. In the admin interface, the in_menus field is a list of checkboxes for each of the menu templates. The menu choices for the in_menus field are defined by the *PAGE_MENU_TEMPLATES* setting, which is a sequence of menu templates. Each item in the sequence is a three item sequence, containing a unique ID for the template, a label for the template, and the template path. For example in your settings.py module:

```
PAGE_MENU_TEMPLATES = (
    (1, "Top navigation bar", "pages/menus/dropdown.html"),
    (2, "Left-hand tree", "pages/menus/tree.html"),
```

```
(3, "Footer", "pages/menus/footer.html"),
```

Which of these entries is selected for new pages (all are selected by default) is controlled by the $PAGE_MENU_TEMPLATES_DEFAULT$ setting. For example, PAGE_MENU_TEMPLATES_DEFAULT = (1, 3) will cause the admin section to pre-select the "Top navigation bar" and the "Footer" when using the example above.

The selections made for the in_menus field on each page don't actually filter a page from being included in the page_branch variable that contains the list of pages for the current branch. Instead it's used to set the value of page.in_menu for each page in the menu template, so it's up to your menu template to check the page's in_menu attribute explicitly, in order to exclude it:

Note that if a menu template is not defined in the *PAGE_MENU_TEMPLATES* setting, the branch pages supplied to it will always have the in_menu attribute set to True, so the only way this will be False is if the menu template has been added to *PAGE_MENU_TEMPLATES*, and then *not* selected for a page in the admin interface.

Menu Variables

)

The *page_menu()* template tag provides a handful of variables, both in the template context, and assigned to each page in the branch, for helping you to build advanced menus.

- page_branch a list of pages for the current branch
- on_home a boolean for whether the homepage is being viewed
- has_home a boolean for whether a page object exists for the homepage, which is used to check whether a hard-coded link to the homepage should be used in the page menu
- branch_level an integer for the current branch depth
- page_branch_in_menu a boolean for whether this branch should be in the menu (see "filtering menus" below)
- parent_page a reference to the parent page
- page.parent same as parent_page.
- page.in_menu a boolean for whether the branch page should be in the menu (see "filtering menus" below)
- page.has_children a boolean for whether the branch page has any child pages at all, disregarding the current menu
- page.has_children_in_menu a boolean for whether the branch page has any child pages that appear in the current menu

- page.num_children an integer for the number of child pages the branch page has in total, disregarding the current menu
- page.num_children_in_menu an integer for the number of child pages the branch page has, that also appear in the current menu
- page.is_current_child a boolean for whether the branch page is a child of the current page being viewed
- page.is_current_sibling a boolean for whether the branch page is a sibling (has the same parent) of the current page being viewed
- page.is_current_parent a boolean for whether the branch page is the direct parent of the current page being viewed.
- page.is_current_or_ascendant a boolean for whether the branch page is the current page being viewed, or an ascendant (parent, grand-parent, etc) of the current page being viewed
- page.is_primary a boolean for whether the branch page is a primary page (has no parent)
- page.html_id a unique string that can be used as the HTML ID attribute
- page.branch_level an integer for the branch page's depth

Here's a commonly requested example of custom menu logic. Suppose you have primary navigation across the top of the site showing only primary pages, representing sections of the site. You then want to have a tree menu in a sidebar, that displays all pages within the section of the site currently being viewed. To achieve this we recursively move through the page tree, only drilling down through child pages if page.is_current_or_ascendant is True, or if the page isn't a primary page. The key here is the page.is_current_or_ascendant check is only applied to the primary page, so all of its descendants end up being rendered. Finally, we also only display the link to each page if it isn't the primary page for the section:

1.2.9 Integrating Third-party Apps with Pages

Sometimes you might need to use regular Django applications within your site, that fall outside of Mezzanine's page structure. Of course this is fine since Mezzanine is just Django - you can simply add the app's urlpatterns to your project's urls.py module like a regular Django project.

A common requirement however is for pages in Mezzanine's navigation to point to the urlpatterns for these regular Django apps. Implementing this simply requires creating a page in the admin, with a URL matching a pattern used by the application. With that in place, the template rendered by the application's view will have a page variable in its context, that contains the current page object that was created with the same URL. This allows Mezzanine to mark the page instance as active in the navigation, and to generate breadcrumbs for the page instance as well.

An example of this setup is Mezzanine's blog application, which does not use *Page* content types, and is just a regular Django app.

1.3 Model Customization

So far under *Content Architecture* the concept of subclassing Mezzanine's models has been described. This section describes the hooks Mezzanine provides for directly modifying the behaviour of its models.

1.3.1 Field Injection

Mezzanine provides the setting *EXTRA_MODEL_FIELDS* which allows you to define a sequence of fields that will be injected into Mezzanine's (or any library's) models.

Note: Using the following approach comes with certain trade-offs described below in *Field Injection Caveats*. Be sure to fully understand these prior to using the *EXTRA_MODEL_FIELDS* setting.

Each item in the *EXTRA_MODEL_FIELDS* sequence is a four item sequence. The first two items are the dotted path to the model and its field name to be added, and the dotted path to the field class to use for the field. The third and fourth items are a sequence of positional args and a dictionary of keyword args, to use when creating the field instance.

For example suppose you want to inject a custom ImageField from a third party library into Mezzanine's *BlogPost* model, you would define the following in your project's settings module:

Each *BlogPost* instance will now have an image attribute, using the ImageField class defined in the fictitious somelib.fields module.

Another interesting example would be adding a field to all of Mezzanine's content types by injecting fields into the *Page* class. Continuing on from the previous example, suppose you wanted to add a regular Django IntegerField to all content types:

```
EXTRA_MODEL_FIELDS = (
    (
        "mezzanine.blog.models.BlogPost.image",
        "somelib.fields.ImageField",
        ("Image",),
        {"blank": True, "upload_to": "blog"},
    ),
    # Example of adding a field to *all* of Mezzanine's content types:
    (
```

```
"mezzanine.pages.models.Page.another_field",
   "IntegerField", # 'django.db.models.' is implied if path is omitted.
   ("Another name",),
   {"blank": True, "default": 1},
),
```

Note here that the full path for the field class isn't required since a regular Django field is used - the django.db. models. path is implied.

1.3.2 Field Injection Caveats

The above technique provides a great way of avoiding the performance penalties of SQL JOINS required by the traditional approach of subclassing models, however some extra consideration is required when used with the migrations management commands included in Django starting from version 1.7. In the first example above, Django's makemigrations command views the new image field on the *BlogPost* model of the *mezzanine.blog* app. As such, in order to create a migration for it, the migration must be created for the blog app itself and by default would end up in the migrations directory of the blog app, which completely goes against the notion of not modifying the blog app to add your own custom fields.

One approach to address this is to use Django's MIGRATION_MODULES setting and locate your own migration files somewhere in your project or app. However, if you define a custom directory to store migrations for an app with injected field (e.g: pages in the second example above), make sure to do the same for apps that define models that are subclasses of the one you are injecting fields into. Failing to do so will result in broken dependencies for migration files.

The configuration for the second example should containt at least something that looks like:

```
MIGRATION_MODULES = {
    "pages": "path.to.migration.storage.pages_migration",
    "forms": "path.to.migration.storage.forms_migration",
    "galleries": "path.to.migration.storage.galleries_migration",
}
```

To create the new migration files and apply the changes, simply run:

\$ python manage.py makemigrations \$ python manage.py migrate

Be warned that over time this approach will almost certainly require some manual intervention by way of editing migrations, or modifying the database manually to create the correct state. Ultimately there is a trade-off involved here.

1.3.3 Admin Fields

Whether using the above approach to inject fields into models, or taking the more traditional approach of subclassing models, most often you will also want to expose new fields to the admin interface. This can be achieved by simply unregistering the relevant admin class, subclassing it, and re-registering your new admin class for the associated model. Continuing on from the first example, the code below takes a copy of the fieldsets definition for the original *BlogPostAdmin*, and injects our custom field's name into the desired position.:

```
# In myapp/admin.py
```

```
from copy import deepcopy
from django.contrib import admin
from mezzanine.blog.admin import BlogPostAdmin
from mezzanine.blog.models import BlogPost
blog_fieldsets = deepcopy(BlogPostAdmin.fieldsets)
blog_fieldsets[0][1]["fields"].insert(-2, "image")
class MyBlogPostAdmin(BlogPostAdmin):
    fieldsets = blog_fieldsets
admin.site.unregister(BlogPost)
admin.site.register(BlogPost, MyBlogPostAdmin)
```

1.4 Admin Customization

Mezzanine uses the standard Django admin interface allowing you to add admin classes as you normally would with a Django project, but also provides the following enhancements to the admin interface that are configurable by the developer.

1.4.1 Navigation

When first logging into the standard Django admin interface a user is presented with the list of models that they have permission to modify data for. Mezzanine takes this feature and uses it to provide a navigation menu that persists across every section of the admin interface making the list of models always accessible.

Using the standard Django admin the grouping and ordering of these models aren't configurable, so Mezzanine provides the setting *ADMIN_MENU_ORDER* that can be used to control the grouping and ordering of models when listed in the admin area.

This setting is a sequence of pairs where each pair represents a group of models. The first item in each pair is the name to give the group and the second item is the sequence of app/model names to use for the group. The ordering of both the groups and their models is maintained when they are displayed in the admin area.

For example, to specify two groups Content and Site in your admin with the first group containing models from Mezzanine's *pages* and *blog* apps, and the second with the remaining models provided by Django, you would define the following in your projects's settings module:

```
ADMIN_MENU_ORDER = (
    ("Content", ("pages.Page", "blog.BlogPost", "blog.Comment",)),
    ("Site", ("auth.User", "auth.Group", "sites.Site", "redirects.Redirect")),
)
```

Any admin classes that aren't specifed are included using Django's normal approach of grouping models alphabetically by application name. You can also control this behavior by implementing a *has_module_permission()* method on your admin class, which should return True or False. When implemented, this method controls whether the admin class appears in the menu or not. Here's an advanced example that excludes the *BlogCategoryAdmin* class from the menu, unless it is explicitly defined in *ADMIN_MENU_ORDER*:

from django.contrib import admin

class BlogCategoryAdmin(admin.ModelAdmin):

```
Admin class for blog categories. Hides itself from the admin menu
unless explicitly specified.
"""
fieldsets = ((None, {"fields": ("title",)}),)
def has_module_permission(self, request):
    """
    Hide from the admin menu unless explicitly set in ``ADMIN_MENU_ORDER``.
    """
    for (name, items) in settings.ADMIN_MENU_ORDER:
        if "blog.BlogCategory" in items:
            return True
    return False
```

1.4.2 Custom Items

.....

It is possible to inject custom navigation items into the *ADMIN_MENU_ORDER* setting by specifying an item using a two item sequence, the first item containing the title and second containing the named urlpattern that resolves to the url to be used.

Continuing on from the previous example, Mezzanine includes a fork of the popular django-filebrowser application which contains a named urlpattern fb_browse and is given the title Media Library to create a custom navigation item:

```
ADMIN_MENU_ORDER = (
    ("Content", ("pages.Page", "blog.BlogPost", "blog.Comment",
         ("Media Library", "fb_browse"),)),
    ("Site", ("auth.User", "auth.Group", "sites.Site", "redirects.Redirect")),
)
```

You can also use this two-item sequence approach for regular app/model names if you'd like to give them a custom title.

1.4.3 Dashboard

When using the standard Django admin interface, the dashboard area shown when a user first logs in provides the list of available models and a list of the user's recent actions. Mezzanine makes this dashboard configurable by the developer by providing a system for specifying Django Inclusion Tags that will be displayed in the dashboard area.

The dashboard area is broken up into three columns, the first being wide and the second and third being narrow. Mezzanine then provides the setting $DASHBOARD_TAGS$ which is a sequence of three sequences - one for each the three columns. Each sequence contains the names of the inclusion tags in the format tag_lib.tag_name that will be rendered in each of the columns.

The list of models and recent actions normally found in the Django admin are available as inclusion tags via *mezzanine_tags.app_list()* and *mezzanine_tags.recent_actions()* respectively. For example, to configure the dashboard with a blog form above the model list in the first column, a list of recent comments in the second column and the recent actions list in the third column, you would define the following in your projects's settings module:

```
DASHBOARD_TAGS = (
    ("blog_tags.quick_blog", "mezzanine_tags.app_list"),
    ("comment_tags.recent_comments",),
    ("mezzanine_tags.recent_actions",),
)
```

Here we can see the *quick_blog()* inclusion tag provided by the *mezzanine.blog.templatetags.blog_tags* module and the *recent_comments()* inclusion tag provided by the *mezzanine.generic.templatetags.comment_tags()* module.

1.4.4 WYSIWYG Editor

By default, Mezzanine uses the TinyMCE editor to provide rich editing for all model fields of the type mezzanine. core.fields.RichTextField. The setting *RICHTEXT_WIDGET_CLASS* contains the import path to the widget class that will be used for editing each of these fields, which therefore provides the ability for implementing your own editor widget which could be a modified version of TinyMCE, a different editor or even no editor at all.

Note: If you'd only like to customize the TinyMCE options specified in its JavaScript setup, you can do so via the *TINYMCE_SETUP_JS* setting which lets you specify the URL to your own TinyMCE setup JavaScript file.

The default value for the *RICHTEXT_WIDGET_CLASS* setting is the string "mezzanine.core.forms. TinyMceWidget". The *TinyMceWidget* class referenced here provides the necessary media files and HTML for implementing the TinyMCE editor, and serves as a good reference point for implementing your own widget class which would then be specified via the *RICHTEXT_WIDGET_CLASS* setting.

In addition to *RICHTEXT_WIDGET_CLASS* you may need to customize the way your content is rendered at the template level. Post processing of the content can be achieved through the *RICHTEXT_FILTERS* setting, which is a sequence of string, each one containing the dotted path to a Python function, that will be used as a processing pipeline for the content. Think of them like Django's middleware or context processors.

Say, for example, you had a *RICHTEXT_WIDGET_CLASS* that allowed you to write your content in a popular wiki syntax such as markdown. You'd need a way to convert that wiki syntax into HTML right before the content was rendered:

```
# ... in myproj.filter
from django.utils.safestring import mark_safe
from markdown import markdown

def markdown_filter(content):
    """
    Converts markdown formatted content to html
    """
    return mark_safe(markdown(content))

# ... in myproj.settings
RICHTEXT_FILTERS = (
    "myproj.filter.markdown_filter",
)
```

With the above, you'd now see the converted HTML content rendered to the template, rather than the raw markdown formatting.

1.4.5 Media Library Integration

Mezzanine's Media Library (based on django-filebrowser) provides a jQuery UI dialog that can be used by custom widgets to allow users to select previously uploaded files.

When using a custom widget for the WYSIWYG editor via the *RICHTEXT_WIDGET_CLASS* setting, you can show the Media Library dialog from your custom widget, by doing the following:

1. Load the following media resources in your widget, perhaps using a Django Media inner class:

```
css filebrowser/css/smoothness/jquery-ui.min.css
```

js

mezzanine/js/%s' % settings.JQUERY_FILENAME filebrowser/js/jquery-ui-1.8.24.min.js filebrowser/js/filebrowser-popup.js

2. Call the JavaScript function browseMediaLibrary to show the dialog. The function is defined in filebrowser/js/filebrowser-popup.js, and takes the following two arguments:

Callback function The function that will be called after the dialog is closed. The function will be called with a single argument, which will be:

- null: if no selection was made (e.g. dialog is closed by hitting ESC), or
- the path of the selected file.

Type (optional) Type of files that are selectable in the dialog. Defaults to image.

1.4.6 Singleton Admin

The admin class mezzanine.utils.admin.SingletonAdmin is a utility that can be used to create an admin interface for managing the case where only a single instance of a model should exist. Some cases include a single page site, where only a few fixed blocks of text need to be maintained. Perhaps a stand-alone admin section is required for managing a site-wide alert. There's overlap here with Mezzanine's *Configuration* admin interface, but you may have a case that warrants its own admin section. Let's look at an example of a site-wide alert model, that should only ever have a single record in the database.

Here's a model with a text field for managing the alert:

```
from django.db import models
class SiteAlert(models.Model):
    message = models.TextField(blank=True)
    # Make the plural name singular, to correctly
    # label it in the admin interface.
    class Meta:
        verbose_name_plural = "Site Alert"
```

Here's our admin.py module in the same app:

```
from mezzanine.utils.admin import SingletonAdmin
from .models import SiteAlert
# Subclassing allows us to customize the admin class,
# but you could also register your model directly
```

```
# against SingletonAdmin below.
class SiteAlertAdmin(SingletonAdmin):
    pass
admin.site.register(SiteAlert, SiteAlertAdmin)
```

What we achieve by using SingletonAdmin above, is an admin interface that hides the usual listing interface that lists all records in the model's database table. When going to the "Site Alert" section of the admin, the user will be taken directly to the editing interface.

1.5 Multi-Lingual Sites

Mezzanine provides optional support for django-modeltranslation which enables content editors to provide multilingual content to support sites in multiple languages.

Note: Mezzanine only provides the integration of django-modeltranslation. For dedicated assistance, please check out the documentation for django-modeltranslation: documentation or its code.

1.5.1 Translation Fields in Mezzanine

In order to enable translation fields for Mezzanine content, you will need to install django-modeltranslation and activate the app in your settings.py. Once you have installed django-modeltranslation, you can enable support for it by setting the USE_MODELTRANSLATION setting to True in your project's settings.py module, and also defining at least two entries in the LANGUAGES setting.

For new projects, manage.py createdb will take care of creating extra columns in the database for each language. For current or older projects, you can catch up by running manage.py sync_translation_fields and then manage.py update_translation_fields.

Note: A django-modeltranslation setting that can help managing the transition for content *partially* in several languages is MODELTRANSLATION_FALLBACK_LANGUAGES. This setting allows you to avoid having empty content when the translation is not provided for a specific language. Please consult django-modeltranslation's documentation for more detail.

1.5.2 Translation Fields for Custom Applications

For models that don't inherit from Mezzanine's models, again please consult django-modeltranslation's documentation. To start with, you'll need to provide a translation.py module, containing classes describing which of your model fields you wish to translate, as well as registering your models using the modeltranslation. translator.translator.register method.

For models that extends Mezzanine capabilities, there are two rules:

Firstly, the app in which your model is defined must be listed *after* the app it is extending from in your INSTALLED_APPS setting. For example, *mezzanine.forms* extends models from *mezzanine.pages* and should appear after it.

Note: If your app defines both models that need to be translated and static content or templates that override default ones from Mezzanine, you'll need to split your app to distinguish between presentation and content. This is due to conflicting ideas with translated model inheritance, and template or static file overriding, in regard to the order of INSTALLED_APPS`

Secondly, for an external app, create a translation.py module at the root of your app. The content of this file might benefit from mezzanine.core.translation depending on what you are extending from. For example, to improve the model from *Content Architecture* and provide translatable fields:

```
from django.db import models
from mezzanine.pages.models import Page
class Author(Page):
    dob = models.DateField("Date of birth")
    trivia = models.TextField("Trivia")
class Book(models.Model):
    author = models.ForeignKey("Author")
    cover = models.ImageFiled(upload_to="authors")
    title = models.CharField("Title", max_length=200)
```

A corresponding translation.py module in this app would look like:

```
from modeltranslation.translator import translator, TranslationOptions
from .models import Author, Book

class TranslatedAuthor(TranslationOptions):
    fields = ('trivia',)

class TranslatedBook(TranslationOptions):
    fields = ('title',)

translator.register(Author, TranslatedAuthor)
translator.register(Book, TranslatedBook)
```

In this case, please note mezzanine.pages.translation.TranslatedPage is not referenced in any way. This is due to the fact that *mezzanine.pages.models.Page* is not abstract, and thus has its own table in the database. The fields have already been registered for translation and django-modeltranslation will happily handle it for you.

If you want to extend an abstract model, such as *mezzanine.core.models.Slugged* or *mezzanine.core.models.Displayable*, you will need to subclass their translation registration. An example of this is the *mezzanine.blog* app in its translation.py module:

(continued from previous page)

```
translator.register(BlogPost, TranslatedBlogPost)
translator.register(BlogCategory, TranslatedBlogCategory)
```

You don't add translatable fields in your model beside those already defined inside Mezzanine's models. You need to extend from mezzanine.core.translation classes, so django-modeltranslation is aware of the abstract fields it will have to manage.

After that, you can manage.py createdb for a new project or manage.py sync_translation_fields and then manage.py update_translation_fields for an existing one.

1.5.3 Translation Fields and Migrations

Mezzanine is shipped with its own migration files but these do not take translation fields into account. These fields are created by every project's LANGUAGES setting and thus can't be provided by default. If you want to both manage migrations for your project and enable translation fields, there are two possibilities.

Either you disable translation fields while managing your migrations as usual and then catch up by adding the missing fields if any:

```
# edit settings.py to set USE_MODELTRANSLATION = False
$ python manage.py makemigrations
$ python manage.py migrate
# edit settings.py to set USE_MODELTRANSLATION back to True
$ python manage.py sync_translation_fields
```

This way, your migration files will never contains references to your specific LANGUAGES setting.

Or you create migration files including all the translation fields for your project. This way you won't need to rely on the manage.py sync_translation_fields command anymore. You will need to define a custom MIGRATION_MODULES and then run:

\$ python manage.py makemigrations

Have a look at *Field Injection Caveats* for a better introduction to MIGRATION_MODULES`

1.5.4 Translation for Injected Fields

If you added fields in Mezzanine's models through *EXTRA_MODEL_FIELDS* and want to add translations, you will need to create a custom app that will hold the necessary translation.py module. Adding a translation field to all of Mezzanine's content type would look like:

```
EXTRA_MODEL_FIELDS = (
    (
        "mezzanine.pages.models.Page.quote",
        "TextField",
        ("Page's Quote",),
        {"blank": True},
    ),
}
```

The app containing the corresponding translation.py module should be defined *after mezzanine.pages* in INSTALLED_APPS but *before* any app that contains models that subclass *mezzanine.pages.models.Page* (such as *mezzanine.forms*, *mezzanine.galleries* or cartridge.shop). The translation.py file itself would be:

```
from modeltranslation.translator import translator
from mezzanine.pages.translation import TranslatedPage
from mezzanine.pages.models import Page
class TranslatedInjectedPage(TranslatedPage):
    fields = ('quote',),
translator.unregister(Page)
translator.register(Page, TranslatedInjectedPage)
```

1.5.5 Redistributable Applications for Mezzanine

If you want to provide translation support for your Mezzanine app, make sure it works with both *USE_MODELTRANSLATION* set to True or False. Mezzanine enforces the value to False if django-modeltranslation is not installed.

The USE_MODELTRANSLATION setting can therefore be used to check against, when extra steps are required (such as saving an instance of a model in every language). In the case of a project with USE_MODELTRANSLATION set to False, the translation.py module will just be ignored.

The USE_MODELTRANSLATION setting is also available in the template's settings variable. Have a look at the includes/language_selector.html template in mezzanine.core for a working example.

1.6 Utilities

The following section documents general utilities available with Mezzanine. While these aren't a core part of Mezzanine itself, they're widely used across many areas of Mezzanine, and can be very useful in conjunction with your own custom content and features.

Firstly covered are the utilities found in the *mezzanine.generic* app, such as *Keywords*, *Threaded Comments*, and *Ratings*. Each of these form a common pattern:

- A model is provided containing generic relationships using Django's django.contrib.contenttypes app
- A custom model field is provided for defining relationships to the *mezzanine.generic* model, which can then be applied to any of your own models
- The custom field injects extra fields onto your model, with de-normalized data populated on save
- Template tags are provided for displaying the related data, forms for posting them, and views for handling form posts where applicable

For a complete implementation reference, take a look at the built-in blog app *mezzanine.blog* which makes use of all these.

Lastly, some of the *General Template Tags* found within *mezzanine.core.templatetags. mezzanine_tags* are covered.

1.6.1 Keywords

Keywords provided by the *mezzanine.generic* app are pervasive throughout Mezzanine. They're assigned to both the *Page* model and the *Displayable* model from which it's derived. Given that these models form the foundation of most content within Mezzanine, more often than not you're dealing with models that are already using keywords.

Suppose we have a regular Django model though, such as our Book example from the previous example in *Content Architecture*:

```
from django.db import models
from mezzanine.generic.fields import KeywordsField
class Book(models.Model):
    author = models.ForeignKey("Author")
    cover = models.ImageField(upload_to="authors")
    keywords = KeywordsField()
```

When editing Book instances in the admin, we'll now be able to choose keywords from the pool of keywords used throughout the site, and also assign new keywords if needed. We can then easily query for books given any keywords:

Book.objects.filter(keywords_keyword_title_in=["eggs", "ham"])

Given a Book instance in a template, we can also display the book's keywords using the keywords_for() template tag, which will inject a list of keywords into the template, using the as var_name variable name argument supplied to it:

You'll see here each Keyword instance has a slug field - we use it in a fictitious urlpattern called books_for_keyword, which could then retrieve books for a given keyword by slug:

Book.objects.filter(keywords_keyword_slug=slug)

Any model with a *KeywordsField* field assigned to it will have a FIELD_NAME_string field assigned to it, where FIELD_NAME is the name given to the *KeywordsField* attribute on your model, which would be Book. keywords_string in the above example. Each time keywords change, the keywords_string field is populated with a comma separated string list of each of the keywords. This can be used in conjunction with Mezzanine's *Search Engine* - behavior that is provided by default for the *Page* and *Displayable* models.

1.6.2 Threaded Comments

Threaded comments provided by the *mezzanine.generic* app are an extension of Django's django_comments app. Mezzanine's threaded comments fundamentally extend Django's comments to allow for threaded conversations, where comments can be made in reply to other comments.

Again as with our Book example, suppose we wanted to add threaded conversations to our book pages in templates, we first define comments on the Book model:

```
from django.db import models
from mezzanine.generic.fields import CommentsField
class Book(models.Model):
```

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```
author = models.ForeignKey("Author")
cover = models.ImageField(upload_to="authors")
comments = CommentsField()
```

Then given a Book instance named book in a template:

The comments_for template tag is a Django inclusion tag, that includes the template generic/includes/ comments.html, which recursively includes the template generic/includes/comment.html to build up the threaded conversation. To customize the look and feel of the threaded conversation, simply override these templates in your project.

As you can see in the template example we have a Book.comments_count field injected onto our Book model. This works the same way as described above for the *KeywordsField*, where the name is derived from the name given to the *CommentsField* attribute on the model, and updated each time the number of comments change.

You can also require that users must be logged in to comment. This is controlled by setting the *COM-MENTS_ACCOUNT_REQUIRED* setting to True. In this case, the comment form will still be displayed, but on submitting a comment, the user will be redirected to the login/signup page, where after logging in, their comment will be posted without having to re-submit it. See the *Public User Accounts* section for full details on configuring public user accounts in Mezzanine.

1.6.3 Ratings

The ratings provided by the *mezzanine.generic* app allow people to give a rating for any model that has ratings set up. Suppose we wanted to allow people to rate our books from 1 to 10, first we define what the rating range is via the *RATINGS_RANGE* setting:

RATINGS_RANGE = range(1, 11)

And then add ratings to our Book model:

```
from django.db import models
from mezzanine.generic.fields import RatingField
class Book(models.Model):
    author = models.ForeignKey("Author")
    cover = models.ImageField(upload_to="authors")
    rating = RatingField()
```

And then in our book template:

```
{% load rating_tags %}
{% rating_for book %}
```

The rating_for() template tag is another inclusion tag, which uses the template generic/includes/ rating.html. It simply displays the current average rating, and a form with radio buttons for rating. You may wish to customize this and use visual icons, like stars, for the ratings.

Like the other custom fields in *mezzanine.generic*, the *RatingField* will inject fields derived from its attribute name onto the model which it's assigned to, which are updated when a new rating is made. Given our Book example, the *RatingField* would inject:

- Book.rating_average average rating
- Book.rating_sum total sum of all ratings
- Book.rating_count total count of all ratings

Like threaded comments, ratings can be limited to authenticated users by setting the *RAT-INGS_ACCOUNT_REQUIRED* setting to True.

1.6.4 General Template Tags

Following are some template tags defined in *mezzanine.core.templatetags.mezzanine_tags* - they're general purpose and can be used across a variety of scenarios.

fields_for()

The *fields_for()* template tag is a simple tag that takes a form object as its single argument, and renders the fields for the form. It uses the template core/templates/includes/form_fields.html, which can then be overridden to customize the look and feel of all forms throughout a Mezzanine site:

```
{% load mezzanine_tags %}
<form method="POST">
    {% fields_for some_form_object %}
    <input type="submit">
</form>
```

errors_for()

The *errors_for()* template tag is an inclusion tag that takes a form object and renders any error messages with the template core/templates/includes/form_errors.html. It plays well with *fields_for()*:

```
{% load mezzanine_tags %}
{% errors_for some_form_object %}
<form method="POST">
        {% fields_for some_form_object %}
        <input type="submit">
</form>
```

sort_by()

The *sort_by()* template tag is a general sorting utility. It's a filter tag similar to Django's dictsort filter tag, but instead of only accepting sequences of dicts and a key name, it also accepts sequences of objects and an attribute name, making it much more general purpose.

Here's an example with the *keywords_for()* tag described above, which assigns an item_count() attribute to each keyword returned to the template:

```
{% load mezzanine_tags keywords_tags %}
{% keywords_for book as keywords %}
{% for keyword in keywords|sort_by:"item_count" %}
... etc ...
{% endfor %}
```

thumbnail()

The *thumbnail()* template tag provides on-the-fly image resizing. It takes the relative path to the image file to resize, and mandatory width and height arguments.

When the *thumbnail()* template tag is called for a given set of arguments the first time, the thumbnail is generated and its relative path is returned. Subsequent calls with the same arguments will return the same thumbnail path, without resizing it again, so resizes only occur when first requested.

Given our book example's Book.cover field, suppose we wanted to render cover thumbnails with a 100 pixel width, and proportional height:

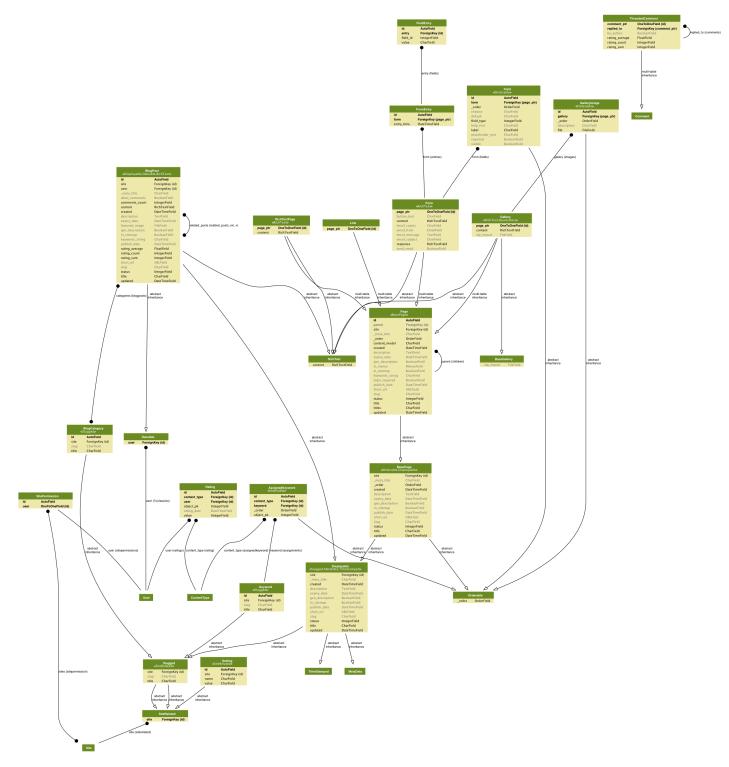
```
{% load mezzanine_tags %}
<imq src="{{ MEDIA_URL }}{% thumbnail book.cover 100 0 %}">
```

The *thumbnail()* template tag also accepts several other optional arguments for controlling the generated thumbnail:

- upscale A boolean controlling whether the thumbnail should grow beyond its original size when resizing (defaults to True)
- quality A value from 0 to 100 controlling the JPG quality (defaults to 95)
- left and top Values from 0 to 1 controlling where the image will be cropped (each defaults to 0.5, namely the center)
- padding A boolean controlling whether the thumbnail will be padded rather than cropped (defaults to False)
- padding_color RGB string controlling the background color when padding is True (defaults to "#fff")

1.7 Model Graph

The below diagram depicts the fields and relationships for all the models in Mezzanine. Click it to view a full version.



1.8 In-line Editing

Mezzanine comes with the ability for content authors to edit content directly within a page while viewing it on the website, rather than having to log into the admin area. Content authors can simply log into the admin area as usual, but by selecting *Site* on the login screen the author will then be redirected back to the website where a small *Edit* icon will be found next to each piece of editable content, such as a page's title or a blog post's body. Clicking on the Edit icon will allow the author to update the individual piece of content without leaving the page.

In-line editing can be disabled by setting INLINE_EDITING_ENABLED to False.

1.8.1 Template Configuration

Making content in-line editable is as simple as wrapping model fields with a template tag in your templates. The default templates installed with Mezzanine all have their content configured to be in-line editable. When developing your own templates from scratch though, you'll need to perform this step yourself.

The first step is to ensure the *editable_loader()* template tag is called right before the closing </body> tag in each template. The recommended way to do this is to include includes/footer_scripts in your top-most base template:

```
{% load mezzanine_tags %}
<html>
<head>
        <title>My Website</title>
</head>
<body>
        <!-- Content goes here -->
        {% include "includes/footer_scripts.html" %}
</body>
</html>
```

If your site does not use jQuery, you'll need to include it conditionally in your template's *<head>* if the user is a staff member. If you're using a different JS library, you can use *jQuery.noConflict()* to avoid it overwriting the \$ symbol.

```
{% if user.is_staff %}
    <script src="{{ STATIC_URL }}mezzanine/js/jquery-1.8.3.min.js">
        jQuery.noConflict();
        </script>
    {% endif %}
```

The second step is to wrap each instance of a model field with the <code>editable()</code> and <code>endeditable</code> template tags, with the field specified as the <code>editable()</code> tag's argument. The content between the two tags is what will visibly be hinted to the content author as being editable. It's possible to not provide any content between the two tags, in which case the value for the model field specified for the <code>editable()</code> tag will simply be used. The model field must always be specified in the format <code>instance_name.field_name</code> where <code>instance_name</code> is the name of a model instance in the template context. For example, suppose we had a page variable in our template with <code>title</code> and <code>content</code> fields:

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```
<!--
   No content is specified between the editable tags here, so the
   page.title field is simply displayed inside the <h1> tags.
   -->
   <h1>
       {% editable page.title %}{% endeditable %}
   </h1>
   <!--
   Here we are manipulating how the editable content will be regularly
   displayed on the page using Django's truncatewords_html filter as
   well as some in-line markup.
   -->
   <div>
       {% editable page.content %}
       {{ page.content|truncatewords_html:50 }}
       {% endeditable %}
   </div>
   {% editable_loader %}
</body>
</html>
```

The *editable()* template tag also allows multiple fields for a model instance to be given as arguments to a single *editable()* tag. The result of this is still a single Edit icon, but when clicked will display each of the fields specified for editing, grouped together in a single form. Continuing on from the previous example, if we wanted to group together the title and content fields:

```
{% load mezzanine_tags %}
<html>
<head>
   <title>{{ page.title }}</title>
</head>
<body>
   <!--
   A single Edit icon will be displayed indicating the entire area
   around the h1 and div tags is editable. Clicking it reveals a form
   for editing both fields at once.
   -->
   {% editable page.title page.content %}
   <h1>
       {{ page.title }}
   </h1>
   <div>
       {{ page.content|truncatewords_html:50 }}
       </div>
   {% endeditable %}
   {% editable_loader %}
</body>
</html>
```

The only caveat to consider with grouping together fields in a single *editable()* tag is that they must all belong to the same model instance.

1.9 Caching Strategy

Mezzanine takes great care to appropriately minimize database queries. This strategy enables Mezzanine to perform well without a caching configuration. However, caching is also well-supported in the event that you wish to implement customized caching for your Mezzanine site. Mezzanine is preconfigured to cache aggressively when deployed to a production site with a cache backend installed.

Note: By using Mezzanine's bundled deployment tools, Mezzanine's caching will be properly configured and in use for your production site. Consult the *Deployment* section for more information. If you would like to have a cache backend configured but to use a different caching strategy, simply remove the cache middleware described in the next section.

1.9.1 Cache Middleware

Mezzanine's caching system employs a hybrid approach which draws from several popular caching techniques and combines them into one overall implementation. Mezzanine provides its own implementation of Django's page-level cache middleware, and behaves in a similar way.

Pages are fetched from cache by *mezzanine.core.middleware.FetchFromCacheMiddleware*, which should appear at the end of the MIDDLEWARE_CLASSES setting and therefore be activated at the end of the request phase. If a cache miss occurs, the request is marked as requiring a cache update, which is handled by *mezzanine.core.middleware.UpdateCacheMiddleware*, which in turn should appear at the start of MIDDLEWARE_CLASSES and therefore be activated at the end of the response phase.

Mezzanine's cache middleware differs from its Django counterpart in a few subtle yet significant ways:

- Setting CACHE_ANONYMOUS_ONLY to False will have no effect, so authenticated users will never use the cache system.
- Cache keys include the ID for the current Django Site object.
- Cache keys do not take Vary headers into account, so all unauthenticated visitors will receive the same page content per URL.

1.9.2 Two-Phased Rendering

One approach to caching Django sites is to use template fragment caching, which defines the areas of templates to be cached. Another approach is two-phased rendering, which is the opposite. Using this method, all content is cached by default. We then define the sections of a template that should not be cached. These sections might be anything that makes use of the current request object, including session-specific data.

Accordingly, Mezzanine provides the start and end template tags nevercache() and endnevercache. Content wrapped in these tags will not be cached. With two-phased rendering, the page is cached without any of the template code inside nevercache() and endnevercache executed for the first phase. The second phase then occurs after the page is retrieved from cache (or not), and any template code inside nevercache() and endnevercache is then executed.

Mezzanine's two-phased rendering is based on Cody Soyland's django-phased and Adrian Holovaty's blog post which originally described the technique.

Note: The template code inside nevercache () and endnevercache will only have access to template tags and variables provided by a normal request context, with the exception of any variables passed to the template from a view function. Variables added via context processors such as the current request and via Mezzanine's settings will be available. Template tag libraries should be loaded inside these areas of content so as to make use of their template tags.

1.9.3 Mint Cache

The final step in Mezzanine's caching strategy involves a technique known as mint caching, in which the expiry value for any cache entry is stored in cache along with the cache entry itself. The real expiry value used is the given expiry plus the value defined by Mezzanine's *CACHE_SET_DELAY_SECONDS* setting. Each time a cache entry is requested, the original expiry time is checked, and, if the expiry time has passed, the stale cache entry is placed back into the cache along with a new expiry time using the value of *CACHE_SET_DELAY_SECONDS*. In this case, no cache entry is returned, which has the effect of essentially faking a cache miss, so that the caller can know to regenerate the cache entry. This approach ensures that cache misses never actually occur and that (almost) only one client will ever perform regeneration of a cache entry.

Mezzanine's mint cache is based on this snippet created by Disqus.

1.10 Multi-Tenancy

Mezzanine makes use of Django's sites app to support multiple sites in a single project. This functionality is always "turned on" in Mezzanine: a single Site record always exists, and is referenced when retrieving site related data, which most content in Mezzanine falls under.

Where Mezzanine diverges from Django is how the Site record is retrieved. Typically a running instance of a Django project is bound to a single site defined by the SITE_ID setting, so while a project may contain support for multiple sites, a separate running instance of the project is required per site.

Mezzanine uses a pipeline of checks to determine which site to reference when accessing content. The most important of these is the one where the host name of the current request is compared to the domain name specified for each Site record. With this in place, true multi-tenancy is achieved, and multiple sites can be hosted within a single running instance of the project.

Here's the list of checks in the pipeline, in order:

- The session variable site_id. This allows a project to include features where a user's session is explicitly associated with a site. Mezzanine uses this in its admin to allow admin users to switch between sites to manage, while accessing the admin on a single domain.
- The domain matching the host of the current request, as described above.
- The environment variable MEZZANINE_SITE_ID. This allows developers to specify the site for contexts outside of a HTTP request, such as management commands. Mezzanine includes a custom manage.py which will check for (and remove) a --site=ID argument.
- Finally, Mezzanine will fall back to the SITE_ID setting if none of the above checks can occur.

1.10.1 Per-site Themes

Consider a project for an organization or business with several related domains that are to be managed by the same people, or for which sharing of resources is a big benefit. These related domains can share the same Django process, which can offer easier management and reduced resource needs in the server environment.

The domains involved could have a direct subsidiary relationship, as with example.com and several subdomains, or they may be completely separate domains, as with example.com, example2.com, example3.com. Either way, the domains are different hosts to which themes may be independently associated using the *HOST_THEMES* setting:

In either *HOST_THEMES* example above, there are three themes. Let's continue with the second case, for example.com, example2.com, and example3.com, for which there are three theme apps constructed: example_theme, example2_theme, and example3_theme. The following treatment illustrates a kind of theme inheritance across the domains, with example_theme serving as the "base" theme. Suppose example_theme contains a dedicated page content type (see *Creating Custom Content Types*), we'll call it the HomePage, which is given a model definition in example_theme/models.py, along with any other theme-related custom content definitions.

Here is the layout for example_theme, the "base" theme in this arrangement:

```
/example_theme
   admin.py
   models.py <--- has a HomePage type, subclassing Page
   ...
   /static
      /css
      /img
      /js
   /templates
      /base.html <--- used by this and the other two themes
      /pages
      /index.html <--- for the HomePage content type
   /templatetags
      some_tags.py <--- for code supporting HomePage functionality</pre>
```

The second and third themes, example2_theme and example3_theme, could be just as expansive, or they could be much simplified, as shown by this layout for example2_theme (example3_theme could be identical):

```
/example2_theme
   /templates
   /pages
   /index.html <-- for the HomePage content type</pre>
```

Each theme would be listed under the INSTALLED_APPS setting, with the "base" theme, example_theme, listed first.

The project's main urls.py would need the following line active, so that "/" is the target URL Mezzanine finds for home page rendering (via the HomePage content type):

url("^\$", "mezzanine.pages.views.page", {"slug": "/"}, name="home"),

Mezzanine will look for a page instance at '/' for each theme. HomePage instances would be created via the admin system for each site, and given the URL of '/' under the "Meta data" URL field. (Log in to /admin, pick each site, in turn, creating a HomePage instance, and editing the "Meta data" URL of each).

Although these aren't the only commands involved, they are useful during the development process:

```
* ``python manage.py startapp theme`` - start a theme; add/edit files
next; add to INSTALLED_APPS before restart
* ``python manage.py syncdb --migrate`` - after changes to themes;
could require writing migrations
* ``python manage.py collectstatic`` - gather static resources from the
themes on occasion
```

Finally, under /admin, these sites will share some resources, such as the media library, while there is separation of content stored in the database (independent HomePage instances, independant blog posts, an independent page hierarchy, etc.). Furthermore, the content types added to, say example_theme, e.g. HomePage, are shared and available in the different sites. Such nuances of sharing must be considered when employing this approach.

1.10.2 Upgrading from TemplateForHostMiddleware

Mezzanine implements host-specific templates using a template loader since version 4.3. Prior to that, the TemplateForHostMiddleware was used. If you are upgrading from a version lower than 4.3 and getting warnings in the terminal about TemplateForHostMiddleware, edit your settings.py to switch to the new loader-based approach:

- Remove TemplateForHostMiddleware from your MIDDLEWARE or MIDDLEWARE_CLASSES setting.
- **Remove** "APP_DIRS": True from your TEMPLATES setting.
- Add mezzanine.template.loaders.host_themes.Loader to the list of template loaders.

Your TEMPLATES setting should look like this (notice the "loaders" key):

```
TEMPLATES = [
{
    "BACKEND": "django.template.backends.django.DjangoTemplates",
    "DIRS": [...],
    "OPTIONS": {
        "context_processors": [...],
        "builtins": [...],
        "loaders": [
            "mezzanine.template.loaders.host_themes.Loader",
            "django.template.loaders.filesystem.Loader",
            "django.template.loaders.app_directories.Loader",
            ]
        },
      },
    }
```

1.11 Deployment

Deployment of a Mezzanine site to production is mostly identical to deploying a regular Django site. For serving static content, Mezzanine makes full use of Django's staticfiles app. For more information, see the Django docs for deployment and staticfiles.

1.11.1 Fabric

Each Mezzanine project comes bundled with utilities for deploying production Mezzanine sites, using Fabric. The provided fabfile.py contains composable commands that can be used to set up all the system-level requirements on a new Debian based system, manage each of the project-level virtual environments for initial and continuous deployments, and much more.

Server Stack

The deployed stack consists of the following components:

- NGINX public facing web server
- gunicorn internal HTTP application server
- PostgreSQL database server
- · memcached in-memory caching server
- · supervisord process control and monitor
- · virtualenv isolated Python environments for each project
- git or mercurial version control systems (optional)

Note: None of the items listed above are required for deploying Mezzanine, they're simply the components that have been chosen for use in the bundled fabfile.py. Alternatives such as Apache and MySQL will work fine, but you'll need to take care of setting these up and deploying yourself. Consult the Django documentation for more information on using different web and database servers.

Configuration

Configurable variables are implemented in the project's local_settings.py module. Here's an example, that leverages some existing setting names:

```
FABRIC = {
   "DEPLOY_TOOL": "rsync", # Deploy with "git", "hg", or "rsync"
   "SSH_USER": "server_user", # VPS SSH username
   "HOSTS": ["123.123.123.123"], # The IP address of your VPS
   "DOMAINS": ["example.com"], # The domain(s) used by your site
   "REQUIREMENTS_PATH": "requirements.txt", # Project's pip requirements
   "LOCALE": "en_US.UTF-8", # Should end with ".UTF-8"
   "DB_PASS": "", # Live database password
   "ADMIN_PASS": "", # Live admin user password
   "SECRET_KEY": SECRET_KEY,
   "NEVERCACHE_KEY": NEVERCACHE_KEY,
}
```

Commands

Here's the list of commands provided in a Mezzanine project's fabfile.py. Consult the Fabric documentation for more information on working with these:

- fab all Installs everything required on a new system and deploy.
- fab apt Installs one or more system packages via apt.

- fab backup Backs up the project database.
- fab create Creates the environment needed to host the project.
- fab deploy Deploy latest version of the project.
- fab install Installs the base system and Python requirements for the entire server.
- fab manage Runs a Django management command.
- fab pip Installs one or more Python packages within the virtual environment.
- fab psql Runs SQL against the project's database.
- fab python Runs Python code in the project's virtual environment, with Django loaded.
- fab remove Blow away the current project.
- fab restart Restart gunicorn worker processes for the project.
- fab restore Restores the project database from a previous backup.
- fab rollback Reverts project state to the last deploy.
- fab run Runs a shell comand on the remote server.
- fab secure Minimal security steps for brand new servers.
- fab sudo Runs a command as sudo on the remote server.

1.11.2 Tutorial

CASE 1: Deploying to a brand new server

- 1. Get your server. Anything that grants you root access works. VPSes like those from Digital Ocean work great and are cheap.
- 2. Fill the FABRIC settings in local_settings.py as shown in the *Configuration* section above. For SSH_USER provide any username you want (not root), and the fabfile will create it for you.
- 3. Run fab secure. You simply need to know the root password to your VPS. The new user will be created and you can SSH with that from now on (if needed). For security reasons, root login via SSH is disabled by this task.
- 4. Run fab all. It will take a while to install the required environment, but after that, your Mezzanine site will be live.

Notice that not even once you had to manually SSH into your VPS. *Note: some server providers (like Digital Ocean) require you to login as root once to change the default password. It should be the only time you are required to SSH into the server.*

CASE 2: Deploying to an existing server

If you already have a server, and you already have created a non-root user with sudo privileges:

- 1. Fill the FABRIC settings in local_settings.py as shown in the *Configuration* section above. For SSH_USER provide the user with sudo privileges.
- 2. Run fab install to install system-wide requirements.
- 3. Run fab deploy to deploy your project.

Deploying more than one site to the server

After you have completed your first deployment, for all subsequent deployments in the same server (either new sites or updates to your existing sites) you only need to run fab deploy.

Fixing bugs pushed by accident to the server

- 1. Run fab rollback. This will roll back your project files, database, and static files to how they were in the last (working) deployment.
- 2. Work on the fixes in your development machine.
- 3. Run fab deploy to push your fixes to production.

1.12 Frequently Asked Questions

These are some of the most frequently asked questions on the Mezzanine mailing list.

- What do I need to know to use Mezzanine?
- Why aren't my JavaScript and CSS files showing up?
- Why does the WYSIWYG editor strip out my custom HTML?
- Why isn't the homepage a Page object I can edit via the admin?
- Why is Mezzanine a Django project, and not a Django app?
- Where are all the templates I can modify?
- How do I create/install a theme?
- Why does Mezzanine contain its own [FEATURE] instead of using [PACKAGE]?
- How can I add Mezzanine to an existing Django project?
- Why are Grappelli and Filebrowser forked?
- What is this Pillow dependency?
- Why doesn't Mezzanine have [FEATURE]?
- Can I use Cartridge without Mezzanine?
- I don't know how to code, how can I contribute?

1.12.1 What do I need to know to use Mezzanine?

First and foremost, Mezzanine is based on the Django framework. All aspects of working with Mezzanine will benefit from a good understanding of how Django works. Many questions that are asked within the Mezzanine community can easily be answered by reading the Django documentation.

Setting up a development environment, and deploying a Mezzanine site, is the same process as doing so with a regular Django site. Areas such as version control, installing Python packages, and setting up a web server such as Apache or NGINX, will all be touched upon.

Modifying the look and feel of a Mezzanine powered site requires at least an understanding of HTML, CSS and Django's templating system.

Extending Mezzanine by *Creating Custom Content Types* or using additional Django apps, will require some knowledge of programming with Python, as well as a good understanding of Django's components, such as models, views, urlpatterns and the admin.

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1.12.2 Why aren't my JavaScript and CSS files showing up?

Mezzanine makes exclusive use of Django's staticfiles app, for managing static files such as JavaScript, CSS, and images.

When the DEBUG setting is set to True, as it would be during development, the URL defined by the setting STATIC_URL (usually /static/), will host any files found in the static directory of any application listed in the INSTALLED_APPS setting.

When DEBUG is set to False, as it would be for your deployed production site, you must run the collectstatic command on your live site, which will copy all of the files from the static directory in each application, to the location defined by the STATIC_ROOT setting. You then need to configure an alias in your web server's config (Apache, NGINX, etc) that maps the URL defined by STATIC_URL to serve files from this directory.

Long story short, Django doesn't serve static content when deployed in production, leaving this up to the public facing web server, which is absolutely the best tool for this job. Consult Django's staticfiles guide for more information.

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1.12.3 Why does the WYSIWYG editor strip out my custom HTML?

By default, Mezzanine strips out potentially dangerous HTML from fields controlled by the WYSIWYG editor, such as tags and attributes that could be used to inject JavaScript into a page. If this didn't occur, a clever staff member could potentially add JavaScript to a page, that when viewed by an administrator (a staff member with superuser status), would cause the administrator's browser to post an update via the admin, that updates the staff member's user account and assigns them superuser status.

The above scenario is a fairly obscure one, so it's possible to customise the level of filtering that occurs. Three levels of filtering are implemented by default, that can be controlled in the settings section of the admin. These are High (the default), Low (which allows extra tags such as those required for embedding videos), and None (no filtering occurs). This is implemented via the *RICHTEXT_FILTER_LEVEL* setting.

If your situation is one where your staff members are completely trusted, and custom HTML within WYSIWYG fields is required, then you can modify the filter level accordingly. Further customisation is possible via the *RICHTEXT_ALLOWED_TAGS*, *RICHTEXT_ALLOWED_ATTRIBUTES* and *RICHTEXT_ALLOWED_STYLES* settings, which can have extra allowed values appended to using the append argument in Mezzanine's settings API. See the *Registering Settings* section for more information.

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1.12.4 Why isn't the homepage a Page object I can edit via the admin?

In our experience, the homepage of a beautiful, content driven website, is quite different from other pages of the site, that all fall under sets of repeatable page types. The homepage also differs greatly from site to site. Given this, Mezzanine doesn't presume how your homepage will be structured and managed. It's up to you to implement how it works per site.

By default, the homepage provided with Mezzanine is a static template, namely mezzanine/core/templates/ index.html (or templates/index.html if stored directly in your project). You can change the urlpattern for the homepage in your project's urls.py module. Be certain to take a look at the urls.py module, as it contains several examples of different types of homepages. In urls.py you'll find examples of pointing the homepage to a *Page* object in the page tree, or pointing the homepage to the blog post listing page, which is useful for sites that are primarily blogs.

Of course with Django's models, admin classes, and template tags, the sky is the limit and you're free to set up the homepage to be managed in any way you like.

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1.12.5 Why is Mezzanine a Django project, and not a Django app?

Mezzanine comes with many features that are related to content driven websites, yet are quite distinct from each other. For example user-built forms and blog posts are both common requirements for a website, yet aren't particularly related to each other. So Mezzanine as a whole is a collection of different Django apps, all packaged together to work seamlessly.

Mezzanine provides its own project template, with settings.py and urls.py modules that configure all of Mezzanine's apps, which you can (and should) modify per project.

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1.12.6 Where are all the templates I can modify?

Each of the templates Mezzanine provides can be found in the templates directory of each Django app that Mezzanine is comprised of. Take the time to explore the structure of these, starting with the base template mezzanine/ core/templates/base.html (or templates/base.html if stored directly in your project) which is the foundation for the entire site, going more granular as needed.

Once you're familiar with the templates you'd like to modify, copy them into your project's templates directory and modify them there. You can also use the collecttemplates command to copy templates over automatically. Run python manage.py collecttemplates --help for more info. Be mindful that this means the copied templates will always be used, rather than the ones stored within Mezzanine itself, which is something to keep in mind if you upgrade to a newer version of Mezzanine.

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1.12.7 How do I create/install a theme?

Prior to version 1.0, Mezzanine had a set of features for creating and installing themes. These mostly were in place to address handling static files, since at that time Mezzanine was not integrated with Django's staticfiles app. Mezzanine 1.0 makes full use of staticfiles, and so the theming features were removed since they became redundant.

From that point on, a theme in Mezzanine can be implemented entirely as a standard Django app. Simply create a Django app with templates and static directories, copy the relevant HTML, CSS and JavaScript files into it from Mezzanine that you wish to modify, and then add the theme app's name to your project's INSTALLED_APPS setting. Be sure to add the theme to the top of the INSTALLED_APPS list, so that its templates are found before Mezzanine's versions of the templates.

Have you created a cool theme that you'd like to share with the community? Package your theme up and put it on PyPI and let us know via the mailing list- that way people can automatically install it along with their Mezzanine project.

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1.12.8 Why does Mezzanine contain its own [FEATURE] instead of using [PACK-AGE]?

To be honest you could implement most of Mezzanine's features by gluing together dozens of smaller, stand-alone, open source Django apps. Several larger Django site-building frameworks take this approach, and it's a noble one. The downside to this is that a significant portion of time on your project will be spent maintaining the glue between these apps, as their development evolves independently from each other, as well as from your project itself. At best you'll be able to work with the apps' developers to ease this evolution, at worst you'll be stuck hacking work-arounds for incompatibilities between the apps.

One of the core goals of Mezzanine is to avoid this situation, by providing all of the features commonly required by content driven sites, with just the right level of extensibility to customize your Mezzanine powered site as required. By taking this approach, the team behind Mezzanine is in complete control over its components, and can ensure they work together seamlessly.

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1.12.9 How can I add Mezzanine to an existing Django project?

Mezzanine is a Django project made up of multiple Django apps, and is geared towards being used as the basis for new Django projects, however adding Mezzanine to an existing Django project should be as simple as adding the necessary settings and urlpatterns.

Mezzanine contains a project_template directory, which it uses to create new projects. In here you'll find the necessary settings.py and urls.py modules, containing the project-level setup for Mezzanine. Of particular note are the following settings:

- INSTALLED_APPS
- TEMPLATE_CONTEXT_PROCESSORS
- MIDDLEWARE_CLASSES
- PACKAGE_NAME_GRAPPELLI and PACKAGE_NAME_FILEBROWSER (for django-grappelli and django-filebrowser integration)
- The call to mezzanine.utils.conf.set_dynamic_settings at the very end of the settings.py module.

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1.12.10 Why are Grappelli and Filebrowser forked?

Grappelli and Filebrowser are fantastic Django apps, and Mezzanine's admin interface would be much poorer without them. When Mezzanine was first created, both of these apps had packaging issues that went unaddressed for quite some time. Development of Mezzanine moved extremely quickly during its early days, and so the forks grappelli_safe and filebrowser_safe were created to allow Mezzanine to be packaged up and installed in a single step.

Over time the packaging issues were resolved, but Grappelli and Filebrowser took paths that weren't desired in Mezzanine. They're only used in Mezzanine for skinning the admin, and providing a generic media library. Extra features that have been added to Grappelli and Filebrowser along the way, haven't been necessary for Mezzanine.

Over time, small changes have also been made to the grappelli_safe and filebrowser_safe forks, in order to integrate them more closely with Mezzanine. So to this day, the forks are still used as dependencies. They're stable, and have relatively low activity.

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1.12.11 What is this Pillow dependency?

Mezzanine makes use of Python Imaging Library (PIL) for generating thumbnails. Having PIL as a dependency that gets automatically installed with Mezzanine has caused issues for some people, due to certain issues with PIL's own packaging setup.

Pillow is simply a packaging wrapper around PIL that addresses these issues, and ensures PIL is automatically installed correctly when installing Mezzanine. Pillow is only used when PIL is not already installed.

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1.12.12 Why doesn't Mezzanine have [FEATURE]?

The best answer to this might be found by searching the mailing list, where many features that aren't currently in Mezzanine have been thoroughly discussed.

Sometimes the conclusion is that certain features aren't within the scope of what Mezzanine aims to be. Sometimes they're great ideas, yet no one has had the time to implement them yet. In the case of the latter, the quickest way to get your feature added is to get working on it yourself.

Communication via the mailing list is key though. Features have been developed and rejected before, simply because they were relatively large in size, and developed in a silo without any feedback from the community. Unfortunately these types of contributions are difficult to accept, since they have the greatest resource requirements in understanding everything involved, without any previous communication.

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1.12.13 Can I use Cartridge without Mezzanine?

No. Cartridge (an ecommerce app) heavily leverages Mezzanine, and in fact it is implemented as an advanced example of a Mezzanine content type, where each shop category is a page in Mezzanine's navigation tree. This allows for a very flexible shop structure, where hierarchical categories can be set up to create your shop.

You could very well use Cartridge and Mezzanine to build a pure Cartridge site, without using any of Mezzanine's features that aren't relevant to Cartridge. However more often than not, you'll find that general content pages and forms, will be required to some extent anyway.

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1.12.14 I don't know how to code, how can I contribute?

You're in luck! Programming is by far the most abundant skill contributed to Mezzanine, and subsequently the least needed. There are many ways to contribute without writing any code:

- Answering questions on the mailing list
- Triaging issues on GitHub
- Improving the documentation
- Promoting Mezzanine via blogs, Twitter, etc.

If you don't have time for any of these things, and still want to contribute back to Mezzanine, donations are always welcome and can be made via Flattr or PayPal on the Mezzanine homepage. Donations help to support the continued development of Mezzanine, and go towards paying for infrastructure, such as hosting for the demo site.

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1.13 Public User Accounts

Mezzanine provides the ability for public users to create their own accounts for logging into your Mezzanine powered site. Features that can be restricted to logged-in users include the ability to post comments, make purchases (using Cartridge), view restricted pages, and anything else you'd like to implement. You can also define what a user's profile consists of, allowing users to create their own profile page for their account.

The accounts functionality is provided by the app *mezzanine.accounts*. Adding it to your INSTALLED_APPS setting will enable signup, login, account updating, and password retrieval features for the public site.

1.13.1 Profiles

Profiles are implemented via the *ACCOUNTS_PROFILE_MODEL* setting. With *mezzanine.accounts* installed, you can create a profile model in one of your apps, with each of the profile fields defined, as well as a related field to Django's user model. For example suppose we wanted to capture bios and dates of birth for each user:

```
# In myapp/models.py
from django.db import models
class MyProfile(models.Model):
    user = models.OneToOneField("auth.User")
    date_of_birth = models.DateField(null=True)
    bio = models.TextField()
# In settings.py
INSTALLED_APPS = (
    "myapp",
    "mezzanine.accounts",
    # Many more
)
ACCOUNTS_PROFILE_MODEL = "myapp.MyProfile"
```

The bio and date of birth fields will be available in the signup and update profile forms, as well as in the user's public profile page.

Note: Profile pages are automatically made available when a profile model is configured.

1.13.2 Restricting Account Fields

By default, Mezzanine will expose all relevant user and profile fields available in the signup and update profile forms, and the user's profile page. However you may want to store extra fields in user profiles, but not expose these fields to the user. You may also want to have no profile model at all, and strip the signup and update profile forms down to only the minimum required fields on the user model, such as username and password.

Mezzanine defines the setting *ACCOUNTS_PROFILE_FORM_EXCLUDE_FIELDS* which allows you to define a sequence of field names, for both the user and profile models, that won't be exposed to the user in any way. Suppose we define a DateTimeField on the profile model called signup_date which we don't want exposed. We also might not bother asking the user for their first and last name, which are fields defined by Django's user model. In our settings.py module we would define:

```
ACCOUNTS_PROFILE_FORM_EXCLUDE_FIELDS = (
    "first_name",
    "last_name",
    "signup_date",
)
```

If you don't want to expose the username field to the user, Mezzanine provides the setting *AC-COUNTS_NO_USERNAME*, which when set to True, will expose the email field as the sole login for the user.

1.13.3 Account Verification

By default, with *mezzanine.accounts* installed, any public visitor to the site can sign up for an account and will be logged in after signup. However you may wish to validate that new accounts are only created by real people with real email addresses. To enable this, Mezzanine provides the setting *ACCOUNTS_VERIFICATION_REQUIRED*, which when set to True, will send new user an email with a verification link that they must click on, in order to activate their account.

1.13.4 Account Approval

You may also wish to manually activate newly created public accounts. To enable this, Mezzanine provides the setting *ACCOUNTS_APPROVAL_REQUIRED*, which when set to True, will set newly created accounts as inactive, requiring a staff member to activate each account in the admin interface. A list of email addresses can be configured in the admin settings interface, which will then be notified by email each time a new account is created and requires activation. Users are then sent a notification when their accounts are activated by a staff member.

1.14 Search Engine

Mezzanine provides a built-in search engine that allows site visitors to search across different types of content. It includes several tools that enable developers to adjust the scope of the site search. It also includes a Search API to programmatically interact with the search engine, customize the way the search engine accesses different types of content, and perform search queries that are broken down and used to query models for results.

1.14.1 Search Form

Developers can easily customize the scope of the searches via the {% search_form %} template tag. A default list of searchable models can be specified in the *SEARCH_MODEL_CHOICES* setting. Only models that subclass *mezzanine.core.models.Displayable* should be used. In addition, the actual HTML form can be customized in the includes/search_form.html template.

Note: In SEARCH_MODEL_CHOICES and {% search_form %}, all model names must be strings in the format app_label.model_name. These models can be part of Mezzanine's core, or part of third party applications. However, all these model must subclass *Page* or *Displayable*.

Using {% search_form "all" %} will render a search form with a dropdown menu, letting the user choose on what type of content the search will be performed. The dropdown will be populated with all of the models found in *SEARCH_MODEL_CHOICES* (default: pages and blog posts, with products added if Cartridge is installed).

By passing a sequence of space-separated models to the tag, only those models will be made available as choices to the user. For example, to offer search for only the *Page* and Product models (provided Cartridge is installed), you can use: {% search_form "pages.Page shop.Product" %}.

If you don't want to provide users with a dropdown menu, you can limit the search scope to a single model, by passing the model name as a parameter. For example, to create a blog-only search form, you can use {% search_form "blog.BlogPost" %}.

If no parameter is passed to {% search_form %}, no drop-down will be provided, and the search will be performed on all models defined in the *SEARCH_MODEL_CHOICES* setting.

Finally, by setting *SEARCH_MODEL_CHOICES* to None, the search form will not contain a drop-down, but in this case all models that subclass *Displayable* will be automatically searched.

1.14.2 Search API

The main search API is provided by *mezzanine.core.managers.SearchableManager*. This is a Django model manager that provides a custom *SearchableManager.search()* method. Adding search functionality to any model is as simple as using the *SearchableManager* as a manager for your model.

Note: By following the previous example outlined in *Creating Custom Content Types* no extra work is required to have your custom content included in search queries, as the default search functionality in Mezzanine (defined in *mezzanine.core.views.search()*) automatically covers any models that inherit from *mezzanine.pages.models.Page* or *mezzanine.core.models.Displayable*.

In its most simple form, the *SearchableManager.search()* method takes a single string argument containing a search query and returns a Django queryset representing the results. For example, to search for all pages using the term **plans prices projects**:

```
from mezzanine.pages.models import Page
```

results = Page.objects.search("plans prices projects")

It's also possible to explicitly control which fields will be used for the search. For example to search Page.title and Page.content only:

```
from mezzanine.pages.models import Page
query = "plans prices projects"
search_fields = ("title", "content")
results = Page.objects.search(query, search_fields=search_fields)
```

If search_fields is not provided in the call to search, the fields used will be the default fields specified for the model. These are specified by providing a search_fields attribute on any model that uses the SearchableManager. For example, if we wanted to add search capabilities to our GalleryImage model from the previous example in Creating Custom Content Types:

```
from django.db import models
from mezzanine.pages.models import Page
from mezzanine.core.managers import SearchableManager
class Gallery(Page):
    pass
# Added the title and description fields here for the search example.
```

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```
class GalleryImage(models.Model):
    gallery = models.ForeignKey("Gallery")
    title = models.CharField("Title", max_length=100)
    description = models.CharField("Description", max_length=1000)
    image = models.ImageField(upload_to="galleries")
    objects = SearchableManager()
    search_fields = ("title", "description")
```

Note: If search_fields are not specified using any of the approaches above, then all CharField and TextField fields defined on the model are used. This isn't the case for *Page* subclasses though, since the *Page* model defines a search_fields attribute which your subclass will also contain, so you'll need to explicitly define search_fields yourself.

1.14.3 Ordering Results

By default, results are ordered by the number of matches found within the fields searched and their age.

It is possible to control the relative weight of a match found within one field over a match found in another field. Given the first example of searching *Page* instances, you might decide that a match within the title field is worth 5 times as much as a match in the description field. These relative weights can be defined in the same fashion as outlined above for defining the fields to be used in a search by using a slightly different format for the search_fields argument:

```
from mezzanine.pages.models import Page
query = "plans prices projects"
search_fields = {"title": 5, "content": 1}
results = Page.objects.search(query, search_fields=search_fields)
```

As shown, a dictionary or mapping sequence can be used to associate weights to fields in any of the cases described above where search_fields can be defined.

It is also possible to control the weight given to a match by its age by customizing the *SEARCH_AGE_SCALE_FACTOR* setting. Setting this to a high number gives more weight to the age, ranking newer matches higher with less regard to their original weight. Setting it to zero disables weighing matches by their age entirely.

1.14.4 Searching Heterogeneous Models

So far we've looked at how to search across a single model, but what if we want to search across different types of models at once? This is possible through the use of abstract models. *SearchableManager* is designed so that if it is accessed directly through an abstract model, it will search across every model that subclasses the abstract model. This makes it possible to group together different types of models for the purpose of combined search. Continuing on from our *GalleryImage* example, suppose we also have a Document model containing files uploaded and that we wanted a combined search across these models which could both be conceptually defined as assets. We would then go ahead and create an abstract model called Asset for the sake of grouping these together for search:

```
class Asset(models.Model):
    title = models.CharField("Title", max_length=100)
    description = models.CharField("Title", max_length=1000)
```

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```
objects = SearchableManager()
search_fields = ("title", "description")

class Meta:
    abstract = True

class GalleryImage(Asset):
    gallery = models.ForeignKey("Gallery")
    image = models.ImageField(upload_to="galleries")

class Document(Asset):
    image = models.FileField(upload_to="documents")
```

By accessing *SearchableManager* directly via the Asset abstract model we can search across the GalleryImage and Document models at once:

```
>>> Asset.objects.search("My")
[<GalleryImage: My Image 1>, <Document: My Doc>, <GalleryImage: My Image 2>]
```

Note: It was mentioned earlier that the *SearchableManager.search()* method returns a Django queryset meaning that you can then chain together further queryset methods onto the result. However when searching across heterogeneous models via an abstract model, this is not the case and the result is a list of model instances.

Also of importance is the SEARCH_MODEL_CHOICES setting mentioned above. When searching across heterogeneous models via an abstract model, the models searched will only be used if they are defined within the SEARCH_MODEL_CHOICES setting, either explicitly, or implicitly by a model's parent existing in SEARCH_MODEL_CHOICES.

1.14.5 Query Behaviour

When a call to *SearchableManager.search()* is performed, the query entered is processed through several steps until it is translated into a Django queryset. By default the query is broken up into keywords, so the query **plans prices projects** would return results that contain any of the words **plans** or **prices** or **projects**.

The query can contain several special operators which allow for this behaviour to be controlled further. Quotes around exact phrases will ensure that the phrase is searched for specifically, for example the query **"plans prices" projects** will return results matching the exact phrase **plans prices** or the word **projects**, in contrast to the previous example.

You can also prefix both words and phrases with + or - symbols. The + symbol will ensure the word or phrase is contained in all results, and the - symbol will ensure that no results will be returned containing the word or phrase. For example the query +"plans prices" -projects would return results that must contain the phrase plans prices and must not contain the word projects.

Once the query has been parsed into words and phrases to be included or excluded, a second step is performed where the query is stripped of common words know as **stop words**. These are common words such as **and**, **the** or **like** that are generally not meaningful and cause irrelevant results to be returned. The list of stop words is stored in the setting *STOP_WORDS* as described in the *Configuration* section.

1.15 Configuration

Mezzanine provides a central system for defining settings within your project and applications that can then be edited by admin users. The package *mezzanine.conf* contains the models for storing editable settings in the database as well as the functions for registering and loading these settings throughout your project.

1.15.1 Registering Settings

Settings are defined by creating a module named defaults.py inside one or more of the applications defined in your project's INSTALLED_APPS setting. Inside your defaults.py module you then call the function *mezzanine*. *conf.register_setting()* for each setting you want to define which takes several keyword arguments:

- name: The name of the setting.
- label: The verbose name of the setting for the admin.
- description: The description of the setting.
- editable: If True, the setting will be editable via the admin.
- default: The default value of the setting.
- choices: A list of choices the user can select from when the setting is editable.
- append: If registering an existing setting, the default value given will be appended to the current.
- translatable: If django-modeltranslation is activated, this setting will store and display values on a per-language basis.

Note: For settings registered with editable as True, currently only strings, integers/floats and boolean values are supported for the default value.

For example suppose we had a authors application and we wanted to create a setting that controls the number of books displayed per author page, we would define the following in authors.defaults:

```
from mezzanine.conf import register_setting
register_setting(
    name="AUTHORS_BOOKS_PER_PAGE",
    label="Authors books per page",
    description="The number of books to show per author page.",
    editable=True,
    default=10,
)
```

Note: If you are using Django 1.7 or greater and your app is included in your INSTALLED_APPS as an AppConfig (eg authors.apps.MyCrazyConfig), Mezzanine won't import your defaults.py automatically. Instead you must import it manually in your AppConfig's ready() method.

1.15.2 Reading Settings

Mezzanine provides a settings object via mezzanine.conf.settings() in a similar way to Django's django. conf.settings(). This settings object contains each of the settings registered above using their names as attributes. Continuing on from our previous example, suppose we have a view for photos:

```
from django.shortcuts import render
from mezzanine.conf import settings
from .models import Book

def books_view(request):
    books = Book.objects.all()[:settings.AUTHORS_BOOKS_PER_PAGE]
    return render(request, "books.html", {"books": books})
```

When defining editable settings, care should be taken when considering where in your project the setting will be used. For example if a setting is used in a urlpattern or the creation of a model class it would only be read when your site is first loaded, and therefore having it change at a later point by an admin user would not have any effect without reloading your entire project. In the snippet above, since the settings is being read within a view, the value of the setting being accessed is loaded each time the view is run. This ensures that if the value of the setting has been changed by an admin user it will be reflected on the website.

Note: It's also important to realize that with any settings flagged as editable, defining a value for these in your project's settings.py will only serve to provide their default values. Once editable settings are modified via the admin, their values stored in the database will always be used.

1.15.3 Django Settings

Mezzanine's settings object integrates with Django's settings object in a couple of ways.

Firstly it's possible to override the default value for any setting defined using *mezzanine.conf*. *register_setting()* by adding its name and value as a regular setting to your project's settings module. This is especially useful when any of your project's INSTALLED_APPS (including Mezzanine itself) register settings that aren't editable and you want to override these settings without modifying the application that registered them.

Secondly it's possible to access any of the settings defined by Django or your project's settings module via Mezzanine's settings object in the same way you would use Django's settings object. This allows for a single access point for all settings regardless of how they are defined.

1.15.4 Default Settings

Mezzanine defines the following settings:

ACCOUNTS_APPROVAL_EMAILS

A comma separated list of email addresses that will receive an email notification each time a new account is created that requires approval.

Default: ' '

ACCOUNTS_APPROVAL_REQUIRED

If True, when users create an account, they will not be enabled by default and a staff member will need to activate their account in the admin interface.

Default: False

ACCOUNTS_MIN_PASSWORD_LENGTH

Minimum length for passwords Default: 6

ACCOUNTS_NO_USERNAME

If True, the username field will be excluded from sign up and account update forms.

Default: False

ACCOUNTS_PROFILE_FORM_CLASS

Dotted package path and class name of profile form to use for users signing up and updating their profile, when mezzanine.accounts is installed.

Default: 'mezzanine.accounts.forms.ProfileForm'

ACCOUNTS_PROFILE_FORM_EXCLUDE_FIELDS

List of fields to exclude from the profile form. Default: ()

ACCOUNTS_PROFILE_MODEL

String in the form *app_label.model_name* for the model used for account profiles. Default: None

ACCOUNTS_PROFILE_VIEWS_ENABLED

If True, users will have their own public profile pages.

Default: False

ACCOUNTS_VERIFICATION_REQUIRED

If True, when users create an account, they will be sent an email with a verification link, which they must click to enable their account.

Default: False

ADD_PAGE_ORDER

A sequence of Page subclasses in the format app_label.model_name, that controls the ordering of items in the select drop-down for adding new pages within the admin page tree interface.

Default: ('pages.RichTextPage',)

ADMIN_MENU_COLLAPSED

Controls whether or not the left-hand admin menu is collapsed by default.

Default: False

ADMIN_MENU_ORDER

Controls the ordering and grouping of the admin menu.

ADMIN_REMOVAL

A sequence of Python dotted paths to models (eg: ['mezzanine.blog.models.BlogPost',]) that should be removed from the admin.

Default: ()

ADMIN_THUMB_SIZE

Size of thumbnail previews for image fields in the admin interface.

Default: '24x24'

AKISMET_API_KEY

Key for http://akismet.com spam filtering service. Used for filtering comments and forms.

Default: ' '

BITLY_ACCESS_TOKEN

Access token for http://bit.ly URL shortening service. Default: ' '

BLOG_POST_PER_PAGE

Number of blog posts shown on a blog listing page.

Default: 5

BLOG_RSS_LIMIT

Number of most recent blog posts shown in the RSS feed. Set to None to display all blog posts in the RSS feed. Default: 20

BLOG_SLUG

Slug of the page object for the blog.

Default: 'blog'

BLOG_URLS_DATE_FORMAT

A string containing the value year, month, or day, which controls the granularity of the date portion in the URL for each blog post. Eg: year will define URLs in the format /blog/yyyy/slug/, while day will define URLs with the format /blog/yyyy/mm/dd/slug/. An empty string means the URLs will only use the slug, and not contain any portion of the date at all.

Default: ' '

BLOG_USE_FEATURED_IMAGE

Enable featured images in blog posts

Default: False

CACHE_SET_DELAY_SECONDS

Mezzanine's caching uses a technique know as mint caching. This is where the requested expiry for a cache entry is stored with the cache entry in cache, and the real expiry used has the CACHE_SET_DELAY added to it. Then on a cache get, the store expiry is checked, and if it has passed, the cache entry is set again, and no entry is returned. This tries to ensure that cache misses never occur, and if many clients were to get a cache miss at once, only one would actually need to re-generated the cache entry.

Default: 30

COMMENTS_ACCOUNT_REQUIRED

If True, users must log in to comment.

Default: False

COMMENTS_DEFAULT_APPROVED

If True, built-in comments are approved by default.

Default: True

COMMENTS_DISQUS_API_PUBLIC_KEY

Public key for http://disqus.com developer API Default: ''

COMMENTS_DISQUS_API_SECRET_KEY

Secret key for http://disqus.com developer API Default: ''

COMMENTS_DISQUS_SHORTNAME

Shortname for the http://disqus.com comments service. Default: ''

COMMENTS_NOTIFICATION_EMAILS

A comma separated list of email addresses that will receive an email notification each time a new comment is posted on the site.

Default: ' '

COMMENTS_NUM_LATEST

Number of latest comments shown in the admin dashboard.

Default: 5

COMMENTS_REMOVED_VISIBLE

If True, comments that have removed checked will still be displayed, but replaced with a removed message.

Default: True

COMMENTS_UNAPPROVED_VISIBLE

If True, comments that have is_public unchecked will still be displayed, but replaced with a waiting to be approved message.

Default: True

COMMENTS_USE_RATINGS

If True, comments can be rated. Default: True

COMMENT_FILTER

Dotted path to the function to call on a comment's value before it is rendered to the template.

Default: None

COMMENT_FORM_CLASS

The form class to use for adding new comments.

Default: 'mezzanine.generic.forms.ThreadedCommentForm'

DASHBOARD_TAGS

A three item sequence, each containing a sequence of template tags used to render the admin dashboard.

Default: (('blog_tags.quick_blog', 'mezzanine_tags.app_list'), ('comment_tags. recent_comments',), ('mezzanine_tags.recent_actions',))

EMAIL_FAIL_SILENTLY

If True, failures to send email will happen silently, otherwise an exception is raised. Defaults to settings.DEBUG. Default: False

EXTRA_MODEL_FIELDS

A sequence of fields that will be injected into Mezzanine's (or any library's) models. Each item in the sequence is a four item sequence. The first two items are the dotted path to the model and its field name to be added, and the dotted path to the field class to use for the field. The third and fourth items are a sequence of positional args and a dictionary of keyword args, to use when creating the field instance. When specifying the field class, the path django.models.db. can be omitted for regular Django model fields.

Default: ()

FORMS_CSV_DELIMITER

Char to use as a field delimiter when exporting form responses as CSV.

Default: ', '

FORMS_EXTRA_FIELDS

Extra field types for the forms app. Should contain a sequence of three-item sequences, each containing the ID, dotted import path for the field class, and field name, for each custom field type. The ID is simply a numeric constant for the field, but cannot be a value already used, so choose a high number such as 100 or greater to avoid conflicts.

Default: ()

FORMS_EXTRA_WIDGETS

Extra field widgets for the forms app. Should contain a sequence of two-item sequences, each containing an existing ID for a form field, and a dotted import path for the widget class.

Default: ()

FORMS_FIELD_MAX_LENGTH

Max length allowed for field values in the forms app. Default: 2000

FORMS_UPLOAD_ROOT

Absolute path for storing file uploads for the forms app. Default: ''

FORMS_USE_HTML5

If True, website forms will use HTML5 features.

Default: False

GOOGLE_ANALYTICS_ID

Google Analytics ID (http://www.google.com/analytics/)

Default: ' '

HOST_THEMES

A sequence mapping host names to themes, allowing different templates to be served per HTTP host. Each item in the sequence is a two item sequence, containing a host such as othersite.example.com, and the name of an importable Python package for the theme. If the host is matched for a request, the templates directory inside the theme package will be first searched when loading templates.

Default: ()

INLINE_EDITING_ENABLED

If True, front-end inline editing will be enabled.

Default: True

JQUERY_FILENAME

Name of the jQuery file found in mezzanine/core/static/mezzanine/js/

Default: 'jquery-1.8.3.min.js'

JQUERY_UI_FILENAME

Name of the jQuery UI file found in mezzanine/core/static/mezzanine/js/

Default: 'jquery-ui-1.8.24.min.js'

MAX_PAGING_LINKS

Max number of paging links to display when paginating.

Default: 10

MEDIA_LIBRARY_PER_SITE

If True, each site will use its own directory within the filebrowser media library.

Default: False

NEVERCACHE_KEY

Unique random string like SECRET_KEY, but used for two-phased cache responses. Like SECRET_KEY, should be automatically generated by the mezzanine-project command.

Default: ' '

OWNABLE_MODELS_ALL_EDITABLE

Models that subclass Ownable and use the OwnableAdmin have their admin change-list records filtered down to records owned by the current user. This setting contains a sequence of models in the format app_label. object_name, that when subclassing Ownable, will still show all records in the admin change-list interface, regardless of the current user.

Default: ()

PAGES_PUBLISHED_INCLUDE_LOGIN_REQUIRED

If True, pages with login_required checked will still be listed in menus and search results, for unauthenticated users. Regardless of this setting, when an unauthenticated user accesses a page with login_required checked, they'll be redirected to the login page.

Default: False

PAGE_MENU_TEMPLATES

A sequence of templates used by the page_menu template tag. Each item in the sequence is a three item sequence, containing a unique ID for the template, a label for the template, and the template path. These templates are then available for selection when editing which menus a page should appear in. Note that if a menu template is used that doesn't appear in this setting, all pages will appear in it.

Default: ((1, 'Top navigation bar', 'pages/menus/dropdown.html'), (2, 'Left-hand tree', 'pages/menus/tree.html'), (3, 'Footer', 'pages/menus/footer.html'))

PAGE_MENU_TEMPLATES_DEFAULT

A sequence of IDs from the PAGE_MENU_TEMPLATES setting that defines the default menu templates selected when creating new pages. By default all menu templates are selected. Set this setting to an empty sequence to have no templates selected by default.

Default: None

RATINGS_ACCOUNT_REQUIRED

If True, users must log in to rate content such as blog posts and comments.

Default: False

RATINGS_RANGE

A sequence of integers that are valid ratings.

Default: [1, 2, 3, 4, 5]

RICHTEXT_ALLOWED_ATTRIBUTES

List of HTML attributes that won't be stripped from RichTextField instances.

```
Default: ('abbr', 'accept', 'accept-charset', 'accesskey', 'action', 'align',
'alt', 'axis', 'border', 'cellpadding', 'cellspacing', 'char', 'charoff',
'charset', 'checked', 'cite', 'class', 'clear', 'cols', 'colspan', 'color',
'compact', 'coords', 'datetime', 'dir', 'disabled', 'enctype', 'for', 'frame',
'headers', 'height', 'href', 'hreflang', 'hspace', 'id', 'ismap', 'label',
'lang', 'longdesc', 'maxlength', 'media', 'method', 'multiple', 'name',
'nohref', 'noshade', 'nowrap', 'prompt', 'readonly', 'rel', 'rev', 'rows',
'rowspan', 'rules', 'scope', 'selected', 'shape', 'size', 'span', 'src',
'start', 'style', 'summary', 'tabindex', 'target', 'title', 'type', 'usemap',
'valign', 'value', 'vspace', 'width', 'xml:lang')
```

RICHTEXT_ALLOWED_STYLES

List of inline CSS styles that won't be stripped from RichTextField instances.

```
Default: ('border', 'display', 'float', 'list-style-type', 'margin',
'margin-bottom', 'margin-left', 'margin-right', 'margin-top', 'padding-left',
'text-align', 'text-decoration', 'vertical-align')
```

RICHTEXT_ALLOWED_TAGS

List of HTML tags that won't be stripped from RichTextField instances.

```
Default: ('a', 'abbr', 'acronym', 'address', 'area', 'article', 'aside', 'b',
'bdo', 'big', 'blockquote', 'br', 'button', 'caption', 'center', 'cite',
'code', 'col', 'colgroup', 'dd', 'del', 'dfn', 'dir', 'div', 'dl', 'dt', 'em',
'fieldset', 'figure', 'font', 'footer', 'form', 'h1', 'h2', 'h3', 'h4', 'h5',
'h6', 'header', 'hr', 'i', 'img', 'input', 'ins', 'kbd', 'label', 'legend',
'li', 'map', 'men', 'nav', 'ol', 'optgroup', 'option', 'p', 'pre', 'q', 's',
'samp', 'section', 'select', 'small', 'span', 'strike', 'strong', 'sub',
'sup', 'table', 'tbody', 'td', 'textarea', 'tfoot', 'th', 'thead', 'tr', 'tt',
'', 'ul', 'var', 'wbr')
```

RICHTEXT_FILTERS

List of dotted paths to functions, called in order, on a RichTextField value before it is rendered to the template.

Default: ('mezzanine.utils.html.thumbnails',)

RICHTEXT_FILTER_LEVEL

Do not change this setting unless you know what you're doing.

When content is saved in a Rich Text (WYSIWYG) field, unsafe HTML tags and attributes are stripped from the content to protect against staff members intentionally adding code that could be used to cause problems, such as changing their account to a super-user with full access to the system.

This setting allows you to change the level of filtering that occurs. Setting it to low will allow certain extra tags to be permitted, such as those required for embedding video. While these tags are not the main candidates for users adding malicious code, they are still considered dangerous and could potentially be mis-used by a particularly technical user, and so are filtered out when the filtering level is set to high.

Setting the filtering level to no filtering, will disable all filtering, and allow any code to be entered by staff members, including script tags.

Choices: High: 1, Low (allows video, iframe, Flash, etc): 2, No filtering: 3

Default: 1

RICHTEXT_WIDGET_CLASS

Dotted package path and class name of the widget to use for the RichTextField.

Default: 'mezzanine.core.forms.TinyMceWidget'

SEARCH_AGE_SCALE_FACTOR

The amount of emphasis to put on age when ranking search results. A higher number gives more emphasis to age, ranking newer results higher with less regard to their ordinary score. Setting this to zero disables weighing search results by age.

Default: 1.5

SEARCH_MODEL_CHOICES

Sequence of models that will be provided by default as choices in the search form. Each model should be in the format app_label.model_name. Only models that subclass mezzanine.core.models.Displayable should be used.

```
Default: ('pages.Page', 'blog.BlogPost')
```

SEARCH_PER_PAGE

Number of results shown in the search results page.

Default: 10

SITE_PREFIX

A URL prefix for mounting all of Mezzanine's urlpatterns under. When using this, you'll also need to manually apply it to your project's root urls.py module. The root urls.py module provided by Mezzanine's mezzanine-project command contains an example of this towards its end.

Default: ''

SITE_TAGLINE

A tag line that will appear at the top of all pages.

Default: 'An open source content management platform.'

SITE_TITLE

Title that will display at the top of the site, and be appended to the content of the HTML title tags on every page.

Default: 'Mezzanine'

SLUGIFY

Dotted Python path to the callable for converting strings into URL slugs. Defaults to mezzanine.utils.urls. slugify_unicode which allows for non-ascii URLs. Change to django.template.defaultfilters. slugify to use Django's slugify function, or something of your own if required.

Default: 'mezzanine.utils.urls.slugify_unicode'

SPAM_FILTERS

Sequence of dotted Python paths to callable functions used for checking posted content (such as forms or comments) is spam. Each function should accept three arguments: the request object, the form object, and the URL that was posted from. Defaults to mezzanine.utils.views.is_spam_akismet which will use the http://akismet.com spam filtering service when the AKISMET_API_KEY setting is configured.

Default: ('mezzanine.utils.views.is_spam_akismet',)

SSL_ENABLED

If True, users will be automatically redirected to HTTPS for the URLs specified by the SSL_FORCE_URL_PREFIXES setting.

Default: False

SSL_FORCED_PREFIXES_ONLY

If True, only URLs specified by the SSL_FORCE_URL_PREFIXES setting will be accessible over SSL, and all other URLs will be redirected back to HTTP if accessed over HTTPS.

Default: True

SSL_FORCE_HOST

Host name that the site should always be accessed via that matches the SSL certificate.

Default: ' '

SSL_FORCE_URL_PREFIXES

Sequence of URL prefixes that will be forced to run over SSL when SSL_ENABLED is True. i.e. ('/admin', '/example') would force all URLs beginning with /admin or /example to run over SSL.

Default: ('/admin', '/account')

STOP_WORDS

List of words which will be stripped from search queries.

('a', 'about', 'above', 'across', 'after', 'afterwards', Default: 'again', 'against', 'all', 'almost', 'alone', 'along', 'already', 'also', 'although', 'always', 'am', 'among', 'amongst', 'amoungst', 'amount', 'an', 'and', 'another', 'any', 'anyhow', 'anyone', 'anything', 'anyway', 'anywhere', 'are', 'around', 'as', 'at', 'back', 'be', 'became', 'because', 'become', 'becomes', 'becoming', 'been', 'before', 'beforehand', 'behind', 'being', 'below', 'beside', 'besides', 'between', 'beyond', 'bill', 'both', 'bottom', 'but', 'by', 'call', 'can', 'cannot', 'cant', 'co', 'con', 'could', 'couldnt', 'cry', 'de', 'describe', 'detail', 'do', 'done', 'down', 'due', 'during', 'each', 'eg', 'eight', 'either', 'eleven', 'else', 'elsewhere', 'empty', 'enough', 'etc', 'even', 'ever', 'every', 'everyone', 'everything', 'everywhere', 'except', 'few', 'fifteen', 'fifty', 'fill', 'find', 'fire', 'first', 'five', 'for', 'former', 'formerly', 'forty', 'found', 'four', 'from', 'front', 'full', 'further', 'get', 'give', 'go', 'had', 'has', 'hasnt', 'have', 'he', 'hence', 'her', 'here', 'hereafter', 'hereby', 'herein', 'hereupon', 'hers', 'herself', 'him', 'himself', 'his', 'how', 'however', 'hundred', 'ie', 'if', 'in', 'inc', 'indeed', 'interest', 'into', 'is', 'it', 'its', 'itself', 'keep', 'last', 'latter', 'latterly', 'least', 'less', 'ltd', 'made', 'many', 'may', 'me', 'meanwhile', 'might', 'mill', 'mine', 'more', 'moreover', 'most', 'mostly', 'move', 'much', 'must', 'my', 'myself', 'name', 'namely', 'neither', 'never', 'nevertheless', 'next', 'nine', 'no', 'nobody', 'none', 'noone', 'nor', 'not', 'nothing', 'now',
'nowhere', 'of', 'off', 'often', 'on', 'once', 'one', 'only', 'onto', 'or', 'other', 'others', 'otherwise', 'our', 'ours', 'ourselves', 'out', 'over', 'own', 'part', 'per', 'perhaps', 'please', 'put', 'rather', 're', 'same', 'see', 'seem', 'seemed', 'seeming', 'seems', 'serious', 'several', 'she',
'should', 'show', 'side', 'since', 'sincere', 'six', 'sixty', 'so', 'some', 'somehow', 'someone', 'something', 'sometime', 'sometimes', 'somewhere', 'still', 'such', 'system', 'take', 'ten', 'than', 'that', 'the', 'their', 'them', 'themselves', 'then', 'thence', 'there', 'thereafter', 'thereby', 'therefore', 'therein', 'thereupon', 'these', 'they', 'thickv', 'thin', 'third', 'this', 'those', 'though', 'three', 'through', 'throughout', 'thr', 'thus', 'to', 'together', 'too', 'top', 'toward', 'towards', 'twelve', 'twenty', 'two', 'un', 'under', 'until', 'up', 'upon', 'us', 'very', 'via', 'was', 'we', 'well', 'were', 'what', 'whatever', 'when', 'whence', 'whenever', 'where', 'whereafter', 'whereas', 'whereby', 'wherein', 'whereupon', 'wherever', 'whether', 'which', 'while', 'whither', 'who', 'whoever', 'whole', 'whom', 'whose', 'why', 'will', 'with', 'within', 'without', 'would', 'yet', 'you', 'yours', 'yourself', 'yourselves', 'the')

TAG_CLOUD_SIZES

Number of different sizes for tags when shown as a cloud.

Default: 4

TEMPLATE_ACCESSIBLE_SETTINGS

Sequence of setting names available within templates.

```
Default: ('ACCOUNTS_APPROVAL_REQUIRED', 'ACCOUNTS_VERIFICATION_REQUIRED',
'ADMIN_MENU_COLLAPSED', 'BITLY_ACCESS_TOKEN', 'BLOG_USE_FEATURED_IMAGE',
'COMMENTS_DISQUS_SHORTNAME', 'COMMENTS_NUM_LATEST', 'COMMENTS_DISQUS_API_PUBLIC_KEY',
'COMMENTS_DISQUS_API_SECRET_KEY', 'COMMENTS_USE_RATINGS', 'DEV_SERVER',
'FORMS_USE_HTML5', 'GRAPPELLI_INSTALLED', 'GOOGLE_ANALYTICS_ID',
'JQUERY_FILENAME', 'JQUERY_UI_FILENAME', 'LOGIN_URL', 'LOGOUT_URL',
'SITE_TITLE', 'SITE_TAGLINE', 'USE_L10N', 'USE_MODELTRANSLATION')
```

THUMBNAILS_DIR_NAME

Directory name to store thumbnails in, that will be created relative to the original image's directory.

Default: '.thumbnails'

TINYMCE_SETUP_JS

URL for the JavaScript file (relative to STATIC_URL) that handles configuring TinyMCE when the default RICHTEXT_WIDGET_CLASS is used.

Default: 'mezzanine/js/tinymce_setup.js'

TWITTER_ACCESS_TOKEN_KEY

Default: ' '

TWITTER_ACCESS_TOKEN_SECRET

Default: ' '

TWITTER_CONSUMER_KEY

Default: ' '

TWITTER_CONSUMER_SECRET

Default: ' '

TWITTER_DEFAULT_NUM_TWEETS

Number of tweets to display in the default Twitter feed. Default: 3

TWITTER_DEFAULT_QUERY

Twitter query to use for the default query type.

Note: Once you change this from the default, you'll need to configure each of the oAuth consumer/access key/secret settings. Please refer to http://dev.twitter.com for more information on creating an application and acquiring these settings.

Default: 'from:stephen_mcd mezzanine'

TWITTER_DEFAULT_QUERY_TYPE

Type of query that will be used to retrieve tweets for the default Twitter feed.

Choices: User: user, List: list, Search: search

Default: 'search'

UPLOAD_TO_HANDLERS

Dict mapping file field names in the format app_label.model_name.field_name to the Python dotted path to function names that will be used for the file field's upload_to argument.

Default: { }

USE_MODELTRANSLATION

If True, the django-modeltranslation application will be automatically added to the INSTALLED_APPS setting.

Default: False

1.16 Importing External Blogs

Mezzanine has the ability to import blog posts from other blogging platforms using a Django management command. These are the currently supported formats and their commands:

- WordPress: import_wordpress
- Blogger: import_blogger
- Tumblr: import_tumblr
- Posterous: import_posterous
- RSS: import_rss
- BlogML: import_blogml

Each command takes a Mezzanine username to assign the blog posts to as well as certain arguments specific to the blog platform. For example to import an existing Wordpress blog:

\$ python manage.py import_wordpress --mezzanine-user=username [options]

Use the --help argument to learn more about the arguments specific to each blog platform's command. For example you can see all options for Wordpress by running:

```
$ python manage.py import_wordpress --help
```

1.16.1 Considerations

There are some known issues with HTML formatting loss - specifically where a heading tag is followed by a paragraph tag or another block HTML element that is not typically enclosed with a tag is followed by a paragraph. This depends heavily on the originating platform and how it encodes the blog post's copy. The import processor gets this about 90% correct but you may need to do some quick clean up afterwards.

Generally speaking you shouldn't be able to import your data twice. There is a check in place to either create or update for both comments and posts as they are processed, so even if you run the importer multiple times you should only end up with data imported once. However if you have changed any data this will be overwritten.

1.16.2 Importing from Wordpress

Dependencies

• Mark Pilgrim's feedparser

The first step is to export your Wordpress data. Login to Wordpress and go to Tools -> Export. Here you can select your filters, otherwise only published posts will be exported. Once you have saved your export file make a note of the location you saved it to.

Note: It is faster to import directly from your filesystem if you can, especially if you have a large blog with lots of comments.

The next step is to run the import_wordpress command where the url argument contains the path or URL to your export file:

\$ python manage.py import_wordpress --mezzanine-user=.. --url=[path|URL]

1.16.3 Importing from Blogger

The Blogger import currently has one known limitation which is a maximum of 500 blogs or 500 comments per blog that can be imported. If you have more than this the import will still work but end up being truncated.

Dependencies

• Google's gdata Library

The first step is to obtain your Blogger ID. Login to Blogger and go to Settings. You'll see that the address in your browser end with BlogID=XXX where XXX is your Blogger ID. Make a note of this and while you're in settings, go to Site Feed then set Allow Blog Feeds to be Full - this will give you all your data when you run the import.

The next step is to run the import_blogger command where the blogger-id argument contains the Blogger ID you retrieved:

\$ python manage.py import_blogger --mezzanine-user=.. --blogger-id=XXX

1.16.4 Importing from Tumblr

Simply run the import_tumblr command where the tumblr-user argument contains your Tumblr username:

```
$ python manage.py import_blogger --mezzanine-user=.. --tumblr-user=username
```

1.16.5 Importing RSS

Dependencies

• Mark Pilgrim's feedparser

Simply run the import_rss command where the rss-url argument contains the URL for your RSS feed:

```
$ python manage.py import_rss --mezzanine-user=.. --rss-url=url
```

1.16.6 Importing from Posterous

Dependencies

• Kenneth Reitz's requests

Simply run import_posterous command with the right params. You need to get your API key from the Posterous API Reference:

\$ python manage.py import_posterous --mezzanine-user=.. --api-token=.. --posterousouser=your_posterous_login --posterous-pass=your_posterous_password

If you have more than one blog on your posterous account check out the -posterous-host option. Be aware that like the tumblr importer, this leaves your media assets on the Posterous servers. If you're worried about posterous being shut down you may want want to have a closer look at the API to actually export your media.

1.16.7 Importing BlogML

Dependencies

• Python-dateutil

Simply run the import_blogml command where the blogxmlfname argument contains local blogml file name:

\$ python manage.py import_blogml --blogxmlfname=filename

1.16.8 Importer API - Adding New Importers

The importer system has been designed to be extensible so that import commands can easily be added for other blogging platforms.

Each importer's management command is located in the mezzanine.blog.management.commands package, and should have its module named import_type where type represents the type of import the command is for. This module will then contain a class named Command which subclasses mezzanine.blog.management. base.BaseImporterCommand. The first step is to define any custom arguments the command will require using Python's argparse handling.

The main responsibility of the Command class is then to implement a *handle_import()* method which handles retrieving blog posts and comments from the particular blogging platform. The *handle_import()* method is passed a dictionary of options for the command. The *add_post()* and *add_comment()* methods should be called inside the *handle_import()* method, adding posts and comments respectively. The *add_post()* method returns a post to be used with the *add_comment()* method. For example:

```
from optparse import make_option
from django.core.management.base import CommandError
from mezzanine.blog.management.base import BaseImporterCommand
class Command(BaseImporterCommand):
    def add_arguments(self, parser):
        super(Command, self).add_arguments(parser)
        parser.add_argument(
            "-s", "--some-arg-name", dest="some_arg_var",
            help="Description of some-arg-name")
   def handle_import(self, options):
        # Perform the tasks that need to occur to retrieve blog posts.
        # We'll use an imaginary "posts" variable that contains a list of
        # post dicts with keys: title, author, pub_date, tags and content.
        # In this example we have access to the command line argument
        # "some-arg-name" via "options["some_arg_var"]".
        for retrieved_post in posts:
            added_post = self.add_post(**retrieved_post)
            # Another imaginary variable to demo the API.
            for retrieved_comment in comments:
                self.add_comment(post=added_post, **retrieved_comment)
```

1.17 Twitter Integration

The *mezzanine.twitter* application exposes the ability to consume, store, and display your own tweets on your site in an efficient manner, as well as the ability to send tweets when publishing new content to the site.

1.17.1 Twitter Feeds

If Twitter feeds are implemented in your templates, a cron job is required that will run the following management command. For example, if we want the tweets to be updated every 10 minutes:

*/10 * * * * python path/to/your/site/manage.py poll_twitter

This ensures that the data is always available in the site's database when accessed, and allows you to control how often the Twitter API is queried. Note that the Fabric script described earlier includes features for deploying templates for cron jobs, which includes the job for polling Twitter by default.

As of June 2013, Twitter also requires that all API access is authenticated. For this you'll need to configure a Twitter application with OAuth credentials for your site to access the Twitter API. These credentials are configurable as Mezzanine settings. See the *Configuration* section for more information on these, as well as the Twitter developer site for info on creating an application and configuring your OAuth credentials.

1.17.2 Sending Tweets

When setting up a Twitter application, you'll also be able to configure the permissions your OAuth credentials have against the Twitter API. To consume Twitter feeds, only read permissions are needed, but you may also choose to allow both read and write permissions. With write permissions enabled, you'll then also be able to expose the option in Mezzanine's admin interface for automatically tweeting new blog posts (or your own custom content) when they're published.

To enable this, simply install the *python-twitter <https://pypi.python.org/pypi/python-twitter>* library. With the library installed and credential setttings set, blog posts in the admin will have a "Send to Twitter" checkbox, which when checked, will send a tweet with the post's title and URL.

You can also add this functionality to your own admin classes by making use of mezzanine.twitter.admin. TweetableAdminMixin. See mezzanine.blog.admin.BlogPostAdmin for an example.

1.18 Packages

Below are auto-generated docs mostly covering each of the packages contained within Mezzanine that are added to settings.INSTALLED_APPS.

1.18.1 mezzanine.boot

An app that is forced to the top of the list in INSTALLED_APPS for the purpose of hooking into Django's class_prepared signal and adding custom fields as defined by the EXTRA_MODEL_FIELDS setting. Also patches django.contrib.admin.site to use LazyAdminSite that defers certains register/unregister calls until admin.autodiscover to avoid some timing issues around custom fields not being available when custom admin classes are registered.

```
mezzanine.boot.add_extra_model_fields (sender, **kwargs)
Injects custom fields onto the given sender model as defined by the EXTRA_MODEL_FIELDS setting. This is a
closure over the "fields" variable.
```

```
mezzanine.boot.autodiscover (*args, **kwargs)
Replaces django's original autodiscover to add a call to LazyAdminSite's lazy_registration.
```

mezzanine.boot.import_field(field_classpath)
Imports a field by its dotted class path, prepending "django.db.models" to raw class names and raising an exception if the import fails.

```
mezzanine.boot.parse_extra_model_fields (extra_model_fields)
Parses the value of EXTRA_MODEL_FIELDS, grouping the entries by model and instantiating the extra
fields. Returns a sequence of tuples of the form (model_key, fields) where model_key is a pair of app_label,
model_name and fields is a list of (field_name, field_instance) pairs.
```

```
mezzanine.boot.parse_field_path(field_path)
```

Take a path to a field like "mezzanine.pages.models.Page.feature_image" and return a model key, which is a tuple of the form ('pages', 'page'), and a field name, e.g. "feature_image".

1.18.2 mezzanine.core

Provides abstract models and admin features used throughout the various Mezzanine apps.

mezzanine.core.models

class mezzanine.core.models.ContentTyped(*args, **kwargs)

Mixin for models that can be subclassed to create custom types. In order to use them:

- Inherit model from ContentTyped.
- Call the set_content_model() method in the model's save() method.
- Inherit that model's ModelAdmin from ContentTypesAdmin.
- Include "admin/includes/content_typed_change_list.html" in the

change_list.html template.

get_content_model()

Return content model, or if this is the base class return it.

classmethod get_content_model_name()

Return the name of the OneToOneField django automatically creates for child classes in multi-table inheritance.

classmethod get_content_models()

Return all subclasses of the concrete model.

```
set_content_model()
```

Set content_model to the child class's related name, or None if this is the base class.

class mezzanine.core.models.Displayable(*args, **kwargs)

Abstract model that provides features of a visible page on the website such as publishing fields. Basis of Mezzanine pages, blog posts, and Cartridge products.

generate_short_url()

Returns a new short URL generated using bit.ly if credentials for the service have been specified.

get_absolute_url()

Raise an error if called on a subclass without get_absolute_url defined, to ensure all search results contains a URL.

get_absolute_url_with_host()

Returns host + get_absolute_url - used by the various short_url mechanics below.

Technically we should use self.site.domain, here, however if we were to invoke the short_url mechanics on a list of data (eg blog post list view), we'd trigger a db query per item. Using current_request should provide the same result, since site related data should only be loaded based on the current host anyway.

get_next_by_publish_date(**kwargs)

Retrieves next object by publish date.

get_previous_by_publish_date(**kwargs)

Retrieves previous object by publish date.

publish_date_since()

Returns the time since publish_date.

published()

For non-staff users, return True when status is published and the publish and expiry dates fall before and after the current date when specified.

```
save (*args, **kwargs)
```

Set default for publish_date. We can't use auto_now_add on the field as it will be blank when a blog post is created from the quick blog form in the admin dashboard.

set_short_url()

Generates the short_url attribute if the model does not already have one. Used by the set_short_url_for template tag and TweetableAdmin.

If no sharing service is defined (bitly is the one implemented, but others could be by overriding generate_short_url), the SHORT_URL_UNSET marker gets stored in the DB. In this case, short_url is temporarily (eg not persisted) set to host + get_absolute_url - this is so that we don't permanently store get_absolute_url, since it may change over time.

class mezzanine.core.models.MetaData(*args, **kwargs)

Abstract model that provides meta data for content.

description_from_content()

Returns the first block or sentence of the first content-like field.

meta_title()

Accessor for the optional _meta_title field, which returns the string version of the instance if not provided.

save (*args, **kwargs)

Set the description field on save.

class mezzanine.core.models.Orderable(*args, **kwargs)

Abstract model that provides a custom ordering integer field similar to using Meta's order_with_respect_to, since to date (Django 1.2) this doesn't work with ForeignKey("self"), or with Generic Relations. We may also want this feature for models that aren't ordered with respect to a particular field.

delete (*args, **kwargs)

Update the ordering values for siblings.

get_next_by_order (**kwargs) Retrieves next object by order.

Retrieves next object by order.

get_previous_by_order(**kwargs)

Retrieves previous object by order.

save (**args*, ***kwargs*) Set the initial ordering value.

with_respect_to()

Returns a dict to use as a filter for ordering operations containing the original Meta. order_with_respect_to value if provided. If the field is a Generic Relation, the dict returned contains names and values for looking up the relation's ct_field and fk_field attributes.

class mezzanine.core.models.OrderableBase

Checks for order_with_respect_to on the model's inner Meta class and if found, copies it to a custom attribute and deletes it since it will cause errors when used with ForeignKey("self"). Also creates the ordering attribute on the Meta class if not yet provided.

class mezzanine.core.models.**Ownable** (**args*, ***kwargs*) Abstract model that provides ownership of an object for a user.

is_editable(request)

Restrict in-line editing to the objects's owner and superusers.

class mezzanine.core.models.**RichText** (**args*, ***kwargs*) Provides a Rich Text field for managing general content and making it searchable.

Provides a Kich Text held for managing general content and making it searchaole.

class mezzanine.core.models.SitePermission(*args, **kwargs)

Permission relationship between a user and a site that's used instead of User.is_staff, for admin and inline-editing access.

exception DoesNotExist

exception MultipleObjectsReturned

class mezzanine.core.models.SiteRelated(*args, **kwargs)

Abstract model for all things site-related. Adds a foreignkey to Django's Site model, and filters by site with all querysets. See mezzanine.utils.sites.current_site_id for implementation details.

save (update_site=False, *args, **kwargs)

Set the site to the current site when the record is first created, or the update_site argument is explicitly set to True.

class mezzanine.core.models.Slugged(*args, **kwargs)

Abstract model that handles auto-generating slugs. Each slugged object is also affiliated with a specific site object.

generate_unique_slug()

Create a unique slug by passing the result of get_slug() to utils.urls.unique_slug, which appends an index if necessary.

get_slug() Allows subclasses to implement their own slug creation logic.

save(*args, **kwargs)

If no slug is provided, generates one before saving.

class mezzanine.core.models.**TimeStamped**(**args*, ***kwargs*) Provides created and updated timestamps on models.

mezzanine.core.managers

class mezzanine.core.managers.CurrentSiteManager (field_name=None, *args, **kwargs)
Extends Django's site manager to first look up site by ID stored in the request, the session, then domain for
the current request (accessible via threadlocals in mezzanine.core.request), the environment variable
MEZZANINE_SITE_ID (which can be used by management commands with the --site arg, finally falling
back to settings.SITE_ID if none of those match a site.

get_queryset()

Returns a new QuerySet object. Subclasses can override this method to easily customize the behavior of the Manager.

class mezzanine.core.managers.DisplayableManager(field_name=None, *args, **kwargs)
 Manually combines CurrentSiteManager, PublishedManager and SearchableManager for the
 Displayable model.

url_map (for_user=None, **kwargs)

Returns a dictionary of urls mapped to Displayable subclass instances, including a fake homepage instance if none exists. Used in mezzanine.core.sitemaps.

class mezzanine.core.managers.**ManagerDescriptor**(*manager*)

This class exists purely to skip the abstract model check in the <u>__get__</u> method of Django's ManagerDescriptor.

class mezzanine.core.managers.PublishedManager

Provides filter for restricting items returned by status and publish date when the given user is not a staff member.

published (for_user=None)

For non-staff users, return items with a published status and whose publish and expiry dates fall before and after the current date when specified.

class mezzanine.core.managers.SearchableManager (*args, **kwargs)

Manager providing a chainable queryset. Adapted from http://www.djangosnippets.org/snippets/562/ search method supports spanning across models that subclass the model being used to search.

contribute_to_class(model, name)

Newer versions of Django explicitly prevent managers being accessed from abstract classes, which is behaviour the search API has always relied on. Here we reinstate it.

get_queryset()

Returns a new QuerySet object. Subclasses can override this method to easily customize the behavior of the Manager.

get_search_fields()

Returns the search field names mapped to weights as a dict. Used in get_queryset below to tell SearchableQuerySet which search fields to use. Also used by DisplayableAdmin to populate Django admin's search_fields attribute.

Search fields can be populated via SearchableManager.__init__, which then get stored in SearchableManager._search_fields, which serves as an approach for defining an explicit set of fields to be used.

Alternatively and more commonly, search_fields can be defined on models themselves. In this case, we look at the model and all its base classes, and build up the search fields from all of those, so the search fields are implicitly built up from the inheritence chain.

Finally if no search fields have been defined at all, we fall back to any fields that are CharField or TextField instances.

search(*args, **kwargs)

Proxy to queryset's search method for the manager's model and any models that subclass from this manager's model if the model is abstract.

class mezzanine.core.managers.SearchableQuerySet(*args, **kwargs)

 $QuerySet\ providing\ main\ search\ functionality\ for\ {\tt Searchable}{\tt Manager}.$

annotate_scores()

If search has occurred and no ordering has occurred, decorate each result with the number of search terms so that it can be sorted by the number of occurrence of terms.

In the case of search fields that span model relationships, we cannot accurately match occurrences without some very complicated traversal code, which we won't attempt. So in this case, namely when there are no matches for a result (count=0), and search fields contain relationships (double underscores), we assume one match for one of the fields, and use the average weight of all search fields with relationships.

order_by(*field_names)

Mark the filter as being ordered if search has occurred.

search (query, search_fields=None)

Build a queryset matching words in the given search query, treating quoted terms as exact phrases and taking into account + and - symbols as modifiers controlling which terms to require and exclude.

mezzanine.core.managers.search_fields_to_dict (fields)

In SearchableQuerySet and SearchableManager, search fields can either be a sequence, or a dict of fields mapped to weights. This function converts sequences to a dict mapped to even weights, so that we're consistently dealing with a dict of fields mapped to weights, eg: ("title", "content") -> {"title": 1, "content": 1}

mezzanine.core.views

mezzanine.core.views.direct_to_template(request, template, extra_context=None, **kwargs)
Replacement for Django's direct_to_template that uses TemplateResponse via mezzanine.

```
will break with cross-domain JavaScript errors if STATIC URL is an external host. URL for the file is passed
     in via querystring in the inline popup plugin template, and we then attempt to pull out the relative path to the
     file, so that we can serve it locally via Django.
mezzanine.core.forms
class mezzanine.core.forms.CheckboxSelectMultiple(attrs=None, choices=())
     Wraps render with a CSS class for styling.
class mezzanine.core.forms.DynamicInlineAdminForm (data=None,
                                                                                      files=None,
                                                                 auto id=u'id \%s'.
                                                                                    prefix=None,
                                                                 initial=None, error_class=<class
                                                                 'django.forms.utils.ErrorList'>,
                                                                 label_suffix=None,
                                                                 empty_permitted=False,
                                                                 instance=None,
                                                                 use required attribute=None)
     Form for DynamicInlineAdmin that can be collapsed and sorted with drag and drop using OrderWidget.
class mezzanine.core.forms.Html5Mixin(*args, **kwargs)
     Mixin for form classes. Adds HTML5 features to forms for client side validation by the browser, like a "re-
     quired" attribute and "email" and "url" input types.
class mezzanine.core.forms.OrderWidget(attrs=None)
     Add up and down arrows for ordering controls next to a hidden form field.
class mezzanine.core.forms.SplitSelectDateTimeWidget(attrs=None,
                                                                    date_format=None,
                                                                    time_format=None)
     Combines Django's SelectDateTimeWidget and SelectDateWidget.
class mezzanine.core.forms.TinyMceWidget(*args, **kwargs)
```

Renders a list of url/title pairs for all Displayable subclass instances into JSON that's used to populate a list

Display search results. Takes an optional "contenttype" GET parameter in the form "app-name.ModelName" to

Put the selected site ID into the session - posted to from the "Select site" drop-down in the header of the admin. The site ID is then used in favour of the current request's domain in mezzanine.core.managers.

Serves TinyMCE plugins inside the inline popups and the uploadify SWF, as these are normally static files, and

mezzanine.core.views.search(request, template=u'search_results.html', extra_context=None)

Setup the JS files and targetting CSS class for a textarea to use TinyMCE.

utils.views.render.

Process the inline editing form.

limit search results to a single model.

CurrentSiteManager.

of links in TinyMCE.

mezzanine.core.views.displayable_links_js(request)

mezzanine.core.views.**page_not_found** (*request*, **args*, ***kwargs*) Mimics Django's 404 handler but with a different template path.

mezzanine.core.views.**server_error** (*request*, **args*, ***kwargs*) Mimics Django's error handler but adds STATIC_URL to the context.

mezzanine.core.views.static_proxy (request, *args, **kwargs)

mezzanine.core.views.set_site(request, *args, **kwargs)

mezzanine.core.views.edit (request, *args, **kwargs)

mezzanine.core.forms.get_edit_form(obj, field_names, data=None, files=None)
Returns the in-line editing form for editing a single model field.

mezzanine.core.admin

class mezzanine.core.admin.BaseDynamicInlineAdmin

Admin inline that uses JS to inject an "Add another" link which when clicked, dynamically reveals another fieldset. Also handles adding the _order field and its widget for models that subclass Orderable.

form

used.

alias of mezzanine.core.forms.DynamicInlineAdminForm

get_fields (request, obj=None)

For subclasses of Orderable, the _order field must always be present and be the last field.

- get_fieldsets (request, obj=None)
 Same as above, but for fieldsets.
- class mezzanine.core.admin.BaseTranslationModelAdmin (model, admin_site)
 Abstract class used to handle the switch between translation and no-translation class logic. We define the basic
 structure for the Media class so we can extend it consistently regardless of whether or not modeltranslation is

class mezzanine.core.admin.**DisplayableAdmin**(*args, **kwargs) Admin class for subclasses of the abstract Displayable model.

check_permission (*request*, *page*, *permission*) Subclasses can define a custom permission check and raise an exception if False.

save_model (request, obj, form, change)

Save model for every language so that field auto-population is done for every each of it.

class mezzanine.core.admin.OwnableAdmin(model, admin_site)

Admin class for models that subclass the abstract Ownable model. Handles limiting the change list to objects owned by the logged in user, as well as setting the owner of newly created objects to the logged in user.

Remember that this will include the user field in the required fields for the admin change form which may not be desirable. The best approach to solve this is to define a fieldsets attribute that excludes the user field or simple add user to your admin excludes: exclude = ('user',)

get_queryset (request)

Filter the change list by currently logged in user if not a superuser. We also skip filtering if the model for this admin class has been added to the sequence in the setting OWNABLE_MODELS_ALL_EDITABLE, which contains models in the format app_label.object_name, and allows models subclassing Ownable to be excluded from filtering, eg: ownership should not imply permission to edit.

save_form (request, form, change)

Set the object's owner as the logged in user.

class mezzanine.core.admin.SiteRedirectAdmin(model, admin_site)

Subclass of Django's redirect admin that modifies it to behave the way most other admin classes do it Mezzanine with regard to site filtering. It filters the list view by current site, hides the site field from the change form, and assigns the current site to the redirect when first created.

get_queryset (request)

Filters the list view by current site.

save_form (request, form, change)

Assigns the current site to the redirect when first created.

mezzanine.core.middleware

- **class** mezzanine.core.middleware.**AdminLoginInterfaceSelectorMiddleware**(*get_response=None*) Checks for a POST from the admin login view and if authentication is successful and the "site" interface is selected, redirect to the site.
- **class** mezzanine.core.middleware.**FetchFromCacheMiddleware**(*get_response=None*) Request phase for Mezzanine cache middleware. Return a response from cache if found, othwerwise mark the request for updating the cache in UpdateCacheMiddleware.
- class mezzanine.core.middleware.RedirectFallbackMiddleware(*args, **kwargs)
 Port of Django's RedirectFallbackMiddleware that uses Mezzanine's approach for determining the
 current site.
- **class** mezzanine.core.middleware.**SSLRedirectMiddleware**(*args) Handles redirections required for SSL when SSL_ENABLED is True.

If SSL_FORCE_HOST is True, and is not the current host, redirect to it.

Also ensure URLs defined by SSL_FORCE_URL_PREFIXES are redirect to HTTPS, and redirect all other URLs to HTTP if on HTTPS.

- class mezzanine.core.middleware.SitePermissionMiddleware(get_response=None)
 Marks the current user with a has_site_permission which is used in place of user.is_staff to
 achieve per-site staff access.
- class mezzanine.core.middleware.TemplateForDeviceMiddleware(*args, **kwargs)
 DEPRECATED: Device detection has been removed from Mezzanine. Inserts device-specific templates to the
 template list.
- **class** mezzanine.core.middleware.**TemplateForHostMiddleware**(*args, **kwargs) Inserts host-specific templates to the template list.
- class mezzanine.core.middleware.UpdateCacheMiddleware (get_response=None)
 Response phase for Mezzanine's cache middleware. Handles caching the response, and then performing the
 second phase of rendering, for content enclosed by the nevercache tag.

mezzanine.core.templatetags.mezzanine_tags

- mezzanine.core.templatetags.mezzanine_tags.admin_app_list (request)
 Adopted from django.contrib.admin.sites.AdminSite.index. Returns a list of lists of
 models grouped and ordered according to mezzanine.conf.ADMIN_MENU_ORDER. Called from the
 admin_dropdown_menu template tag as well as the app_list dashboard widget.
- mezzanine.core.templatetags.mezzanine_tags.admin_dropdown_menu(context) Renders the app list for the admin dropdown menu navigation.
- mezzanine_core.templatetags.mezzanine_tags.compress (parser, token)
 Dummy tag for fallback when django-compressor isn't installed.
- mezzanine.core.templatetags.mezzanine_tags.dashboard_column (parser, token)
 Takes an index for retrieving the sequence of template tags from mezzanine.conf.DASHBOARD_TAGS to
 render into the admin dashboard.

mezzanine.core.templatetags.mezzanine_tags.editable (*parser*, *token*) Add the required HTML to the parsed content for in-line editing, such as the icon and edit form if the object is deemed to be editable - either it has an editable method which returns True, or the logged in user has change permissions for the model.

- mezzanine.core.templatetags.mezzanine_tags.editable_loader(context)
 Set up the required JS/CSS for the in-line editing toolbar and controls.

```
mezzanine.core.templatetags.mezzanine_tags.fields_for(context, form, tem-
plate=u'includes/form fields.html')
```

Renders fields for a form with an optional template choice.

```
mezzanine.core.templatetags.mezzanine_tags.gravatar_url (email, size=32)
Return the full URL for a Gravatar given an email hash.
```

mezzanine.core.templatetags.mezzanine_tags.ifinstalled(parser, token)
 Old-style if tag that renders contents if the given app is installed. The main use case is:

{% if installed app_name %} {% include "app_name/template.html" %} {% endifinitalled %}

so we need to manually pull out all tokens if the app isn't installed, since if we used a normal *if* tag with a False arg, the include tag will still try and find the template to include.

- mezzanine.core.templatetags.mezzanine_tags.is_installed(app_name)
 Returns True if the given app name is in the INSTALLED APPS setting.

mezzanine.core.templatetags.mezzanine_tags.pagination_for(context, current_page,

page_var=u'page', ex-

clude vars=u")

Include the pagination template and data for persisting querystring in pagination links. Can also contain a comma separated string of var names in the current querystring to exclude from the pagination links, via the exclude_vars arg.

mezzanine.core.templatetags.mezzanine_tags.recent_actions (context)
 Renders the recent actions list for the admin dashboard widget.

mezzanine.core.templatetags.mezzanine_tags.richtext_filters(content)
Takes a value edited via the WYSIWYG editor, and passes it through each of the functions specified by the
RICHTEXT_FILTERS setting.

mezzanine.core.templatetags.mezzanine_tags.search_form(context,

search_model_names=None) Includes the search form with a list of models to use as choices for filtering the search by. Models should be a string with models in the format app_label.model_name separated by spaces. The string all can also be used, in which case the models defined by the SEARCH_MODEL_CHOICES setting will be used.

mezzanine.core.templatetags.mezzanine_tags.set_short_url_for (parser, token)
Sets the short_url attribute of the given model for share links in the template.

mezzanine.core.templatetags.mezzanine_tags.sort_by (items, attr)
General sort filter - sorts by either attribute or key.

Given the URL to an image, resizes the image using the given width and height on the first time it is requested, and returns the URL to the new resized image. If width or height are zero then original ratio is maintained.

When upscale is False, images smaller than the given size will not be grown to fill that size. The given width and height thus act as maximum dimensions.

mezzanine.core.templatetags.mezzanine_tags.translate_url(context, language)
Translates the current URL for the given language code, eg:

{% translate_url "de" %}

mezzanine.core.templatetags.mezzanine_tags.try_url(url_name)

Mimics Django's url template tag but fails silently. Used for url names in admin templates as these won't resolve when admin tests are running.

mezzanine.core.management.commands

mezzanine.core.request

```
class mezzanine.core.request.CurrentRequestMiddleware(get_response=None)
Stores the request in the current thread for global access.
```

mezzanine.core.request.current_request()
 Retrieves the request from the current thread.

mezzanine.core.tests

1.18.3 mezzanine.pages

Provides the main structure of a Mezzanine site with a hierarchical tree of pages, each subclassing the Page model to create a content structure.

mezzanine.pages.models

```
class mezzanine.pages.models.BasePage(*args, **kwargs)
Exists solely to store PageManager as the main manager. If it's defined on Page, a concrete model, then
each Page subclass loses the custom manager.
```

class mezzanine.pages.models.Link(*args, **kwargs)

A general content type for creating external links in the page menu.

exception DoesNotExist

exception MultipleObjectsReturned

class mezzanine.pages.models.Page(*args, **kwargs)

A page in the page tree. This is the base class that custom content types need to subclass.

exception DoesNotExist

exception MultipleObjectsReturned

can_add(request)

Dynamic add permission for content types to override.

can_change (request)

Dynamic change permission for content types to override.

can_delete(request)

Dynamic delete permission for content types to override.

can_move (request, new_parent)

Dynamic move permission for content types to override. Controls whether a given page move in the page tree is permitted. When the permission is denied, raises a PageMoveException with a single argument (message explaining the reason).

description_from_content()

Override Displayable.description_from_content to load the content type subclass for when save is called directly on a Page instance, so that all fields defined on the subclass are available for generating the description.

get_absolute_url()

URL for a page - for Link page types, simply return its slug since these don't have an actual URL pattern. Also handle the special case of the homepage being a page object.

get_ascendants(for_user=None)

Returns the ascendants for the page. Ascendants are cached in the _ascendants attribute, which is populated when the page is loaded via Page.objects.with_ascendants_for_slug.

get_slug()

Recursively build the slug from the chain of parents.

get_template_name()

Subclasses can implement this to provide a template to use in mezzanine.pages.views.page.

overridden()

Returns True if the page's slug has an explicitly defined urlpattern and is therefore considered to be overridden.

save (*args, **kwargs)

Create the titles field using the titles up the parent chain and set the initial value for ordering.

set_helpers(context)

Called from the page_menu template tag and assigns a handful of properties based on the current page, that are used within the various types of menus.

set_parent (new_parent)

Change the parent of this page, changing this page's slug to match the new parent if necessary.

set_slug(new_slug)

Changes this page's slug, and all other pages whose slugs start with this page's slug.

exception mezzanine.pages.models.PageMoveException(msg=None)

Raised by $can_move()$ when the move permission is denied. Takes an optimal single argument: a message explaining the denial.

class mezzanine.pages.models.**RichTextPage**(*args, **kwargs) Implements the default type of page with a single Rich Text content field.

exception DoesNotExist

exception MultipleObjectsReturned

mezzanine.pages.views

mezzanine.pages.views.admin_page_ordering(request, *args, **kwargs) Updates the ordering of pages via AJAX from within the admin.

mezzanine.pages.views.page (request, slug, template=u'pages/page.html', extra_context=None)
Select a template for a page and render it. The request object should have a page attribute that's added via

mezzanine.pages.middleware.PageMiddleware. The page is loaded earlier via middleware to perform various other functions. The urlpattern that maps to this view is a catch-all pattern, in which case the page attribute won't exist, so raise a 404 then.

For template selection, a list of possible templates is built up based on the current page. This list is order from most granular match, starting with a custom template for the exact page, then adding templates based on the page's parent page, that could be used for sections of a site (eg all children of the parent). Finally at the broadest level, a template for the page's content type (it's model class) is checked for, and then if none of these templates match, the default pages/page.html is used.

mezzanine.pages.admin

```
class mezzanine.pages.admin.PageAdmin(*args, **kwargs)
```

Admin class for the Page model and all subclasses of Page. Handles redirections between admin interfaces for the Page model and its subclasses.

add_view (request, **kwargs)

For the Page model, redirect to the add view for the first page model, based on the ADD_PAGE_ORDER setting.

change_view (request, object_id, **kwargs)

Enforce custom permissions for the page instance.

check_permission (request, page, permission)

Runs the custom permission check and raises an exception if False.

delete_view (request, object_id, **kwargs)

Enforce custom delete permissions for the page instance.

get_content_models()

Return all Page subclasses that are admin registered, ordered based on the ADD_PAGE_ORDER setting.

- **response_add** (*request*, *obj*) Enforce page permissions and maintain the parent ID in the querystring.
- **response_change** (*request*, *obj*)

Enforce page permissions and maintain the parent ID in the querystring.

save_model (request, obj, form, change)

Set the ID of the parent page if passed in via querystring, and make sure the new slug propagates to all descendant pages.

mezzanine.pages.middleware

class mezzanine.pages.middleware.PageMiddleware(*args, **kwargs)

Adds a page to the template context for the current response.

If no page matches the URL, and the view function is not the fall-back page view, we try and find the page with the deepest URL that matches within the current URL, as in this situation, the app's urlpattern is considered to sit "under" a given page, for example the blog page will be used when individual blog posts are viewed. We want the page for things like breadcrumb nav, and page processors, but most importantly so the page's login_required flag can be honoured.

If a page is matched, and the fall-back page view is called, we add the page to the extra_context arg of the page view, which it can then use to choose which template to use.

In either case, we add the page to the response's template context, so that the current page is always available.

classmethod installed()

Used in mezzanine.pages.views.page to ensure PageMiddleware or a subclass has been installed. We cache the result on the PageMiddleware._installed to only run this once.

process_view (*request*, *view_func*, *view_args*, *view_kwargs*) Per-request mechanics for the current page object.

mezzanine.pages.templatetags.pages_tags

```
mezzanine.pages.templatetags.pages_tags.models_for_pages (parser, token)
Create a select list containing each of the models that subclass the Page model.
```

mezzanine.pages.templatetags.pages_tags.page_menu (parser, token)

Return a list of child pages for the given parent, storing all pages in a dict in the context when first called using parents as keys for retrieval on subsequent recursive calls from the menu template.

mezzanine.pages.templatetags.pages_tags.**set_model_permissions** (*parser*, *token*) Assigns a permissions dict to the given model, much like Django does with its dashboard app list.

Used within the change list for pages, to implement permission checks for the navigation tree.

mezzanine.pages.templatetags.pages_tags.set_page_permissions (parser, token)
Assigns a permissions dict to the given page instance, combining Django's permission for the page's model and
a permission check against the instance itself calling the page's can_add, can_change and can_delete
custom methods.

Used within the change list for pages, to implement permission checks for the navigation tree.

mezzanine.pages.page_processors

```
mezzanine.pages.page_processors.autodiscover()
Taken from django.contrib.admin.autodiscover and used to run any calls to the
processor_for decorator.
```

```
mezzanine.pages.page_processors.processor_for(content_model_or_slug, ex-
act_page=False)
```

Decorator that registers the decorated function as a page processor for the given content model or slug.

When a page exists that forms the prefix of custom urlpatterns in a project (eg: the blog page and app), the page will be added to the template context. Passing in True for the exact_page arg, will ensure that the page processor is not run in this situation, requiring that the loaded page object is for the exact URL currently being viewed.

1.18.4 mezzanine.generic

Provides various models and associated functionality, that can be related to any other model using generic relationshipswith Django's contenttypes framework, such as comments, keywords/tags and voting.

mezzanine.generic.models

```
class mezzanine.generic.models.AssignedKeyword(*args, **kwargs)
A Keyword assigned to a model instance.
```

exception DoesNotExist

```
exception MultipleObjectsReturned
```

class mezzanine.generic.models.**Keyword** (**args*, ***kwargs*) Keywords/tags which are managed via a custom JavaScript based widget in the admin.

exception DoesNotExist

exception MultipleObjectsReturned

class mezzanine.generic.models.**Rating**(*args, **kwargs) A rating that can be given to a piece of content.

exception DoesNotExist

exception MultipleObjectsReturned

save (*args, **kwargs)
Validate that the rating falls between the min and max values.

class mezzanine.generic.models.ThreadedComment (*args, **kwargs)

Extend the Comment model from django_comments to add comment threading. Comment provides its own site foreign key, so we can't inherit from SiteRelated in mezzanine.core, and therefore need to set the site on save. CommentManager inherits from Mezzanine's CurrentSiteManager, so everything else site related is already provided.

exception DoesNotExist

exception MultipleObjectsReturned

get_absolute_url()

Use the URL for the comment's content object, with a URL hash appended that references the individual comment.

save (*args, **kwargs)

Set the current site ID, and is_public based on the setting COMMENTS_DEFAULT_APPROVED.

mezzanine.generic.managers

class mezzanine.generic.managers.CommentManager(field_name=None, *args, **kwargs)
 Provides filter for restricting comments that are not approved if COMMENTS_UNAPPROVED_VISIBLE is set
 to False.

count_queryset()

Called from CommentsField.related_items_changed to store the comment count against an item each time a comment is saved.

visible()

Return the comments that are visible based on the COMMENTS_XXX_VISIBLE settings. When these settings are set to True, the relevant comments are returned that shouldn't be shown, and are given place-holders in the template generic/includes/comment.html.

mezzanine.generic.fields

class mezzanine.generic.fields.BaseGenericRelation(*args, **kwargs)
 Extends GenericRelation to:

- Add a consistent default value for object_id_field and check for a default_related_model attribute which can be defined on subclasses as a default for the to argument.
- Add one or more custom fields to the model that the relation field is applied to, and then call a related_items_changed method each time related items are saved or deleted, so that a calculated

value can be stored against the custom fields since aggregates aren't available for GenericRelation instances.

contribute_to_class(cls, name)

Add each of the names and fields in the fields attribute to the model the relationship field is applied to, and set up the related item save and delete signals for calling related_items_changed.

related_items_changed(instance, related_manager)

Can be implemented by subclasses - called whenever the state of related items change, eg they're saved or deleted. The instance for this field and the related manager for the field are passed as arguments.

value_from_object (obj)

Returns the value of this field in the given model instance. See: https://code.djangoproject.com/ticket/ 22552

class mezzanine.generic.fields.CommentsField(*args, **kwargs)

Stores the number of comments against the COMMENTS_FIELD_NAME_count field when a comment is saved or deleted.

related_items_changed(instance, related_manager)

Stores the number of comments. A custom count_filter queryset gets checked for, allowing managers to implement custom count logic.

class mezzanine.generic.fields.KeywordsField(*args, **kwargs)

Stores the keywords as a single string into the KEYWORDS_FIELD_NAME_string field for convenient access when searching.

contribute_to_class(cls, name)

Swap out any reference to KeywordsField with the KEYWORDS_FIELD_string field in search_fields.

formfield(**kwargs)

Provide the custom form widget for the admin, since there isn't a form field mapped to GenericRelation model fields.

related_items_changed (*instance*, *related_manager*) Stores the keywords as a single string for searching.

save_form_data (instance, data)

The KeywordsWidget field will return data as a string of comma separated IDs for the Keyword model - convert these into actual AssignedKeyword instances. Also delete Keyword instances if their last related AssignedKeyword instance is being removed.

class mezzanine.generic.fields.RatingField(*args, **kwargs)

Stores the rating count and average against the RATING_FIELD_NAME_count and RATING_FIELD_NAME_average fields when a rating is saved or deleted.

related_items_changed (*instance*, *related_manager*) Calculates and saves the average rating.

mezzanine.generic.views

mezzanine.generic.views.admin_keywords_submit (request, *args, **kwargs)

Adds any new given keywords from the custom keywords field in the admin, and returns their IDs for use when saving a model with a keywords field.

mezzanine.generic.views.comment (request, template=u'generic/comments.html', ex-

tra_context=None)

Handle a ThreadedCommentForm submission and redirect back to its related object.

mezzanine.generic.views.initial_validation(request, prefix)

Returns the related model instance and post data to use in the comment/rating views below.

Both comments and ratings have a prefix_ACCOUNT_REQUIRED setting. If this is True and the user is unauthenticated, we store their post data in their session, and redirect to login with the view's url (also defined by the prefix arg) as the next param. We can then check the session data once they log in, and complete the action authenticated.

On successful post, we pass the related object and post data back, which may have come from the session, for each of the comments and ratings view functions to deal with as needed.

mezzanine.generic.views.rating(request)

Handle a RatingForm submission and redirect back to its related object.

mezzanine.generic.forms

class mezzanine.generic.forms.KeywordsWidget(attrs=None)

Form field for the KeywordsField generic relation field. Since the admin with model forms has no form field for generic relations, this form field provides a single field for managing the keywords. It contains two actual widgets, a text input for entering keywords, and a hidden input that stores the ID of each Keyword instance.

The attached JavaScript adds behaviour so that when the form is submitted, an AJAX post is made that passes the list of keywords in the text input, and returns a list of keyword IDs which are then entered into the hidden input before the form submits. The list of IDs in the hidden input is what is used when retrieving an actual value from the field for the form.

decompress (value)

Takes the sequence of AssignedKeyword instances and splits them into lists of keyword IDs and titles each mapping to one of the form field widgets. If the page has encountered a validation error then Takes a string with Keyword ids and fetches the sequence of AssignedKeyword

render (*args, **kwargs)

Wraps the output HTML with a list of all available Keyword instances that can be clicked on to toggle a keyword.

value_from_datadict (data, files, name)

Return the comma separated list of keyword IDs for use in KeywordsField.save_form_data().

class mezzanine.generic.forms.RatingForm(request, *args, **kwargs)

Form for a rating. Subclasses CommentSecurityForm to make use of its easy setup for generic relations.

clean()

Check unauthenticated user's cookie as a light check to prevent duplicate votes.

save()

Saves a new rating - authenticated users can update the value if they've previously rated.

class mezzanine.generic.forms.ThreadedCommentForm (request, *args, **kwargs)

check_for_duplicate_comment(new)

We handle duplicates inside save, since django_comments' *check_for_duplicate_comment* doesn't deal with extra fields defined on the comment model.

get_comment_model()

Use the custom comment model instead of the built-in one.

save (request)

Saves a new comment and sends any notification emails.

mezzanine.generic.admin

class mezzanine.generic.admin.**ThreadedCommentAdmin** (*model*, *admin_site*) Admin class for comments.

mezzanine.generic.templatetags.comment_tags

- mezzanine.generic.templatetags.comment_tags.comment_filter(comment_text)
 Passed comment text to be rendered through the function defined by the COMMENT_FILTER setting. If no
 function is defined (the default), Django's linebreaksbr and urlize filters are used.
- mezzanine.generic.templatetags.comment_tags.comment_thread(context, parent)
 Return a list of child comments for the given parent, storing all comments in a dict in the context when first
 called, using parents as keys for retrieval on subsequent recursive calls from the comments template.
- mezzanine.generic.templatetags.comment_tags.**comments_for** (*context*, *obj*) Provides a generic context variable name for the object that comments are being rendered for.
- mezzanine.generic.templatetags.comment_tags.recent_comments (context)
 Dashboard widget for displaying recent comments.

mezzanine.generic.templatetags.disqus_tags

- mezzanine.generic.templatetags.disqus_tags.**disqus_id_for** (*obj*) Returns a unique identifier for the object to be used in DISQUS JavaScript.
- mezzanine.generic.templatetags.disqus_tags.disqus_sso_script (context)
 Provides a generic context variable which adds single-sign-on support to DISQUS if
 COMMENTS_DISQUS_API_PUBLIC_KEY and COMMENTS_DISQUS_API_SECRET_KEY are speci fied.

mezzanine.generic.templatetags.keyword_tags

mezzanine.generic.templatetags.keyword_tags.keywords_for (parser, token)
Return a list of Keyword objects for the given model instance or a model class. In the case of a model class,
retrieve all keywords for all instances of the model and apply a weight attribute that can be used to create a
tag cloud.

mezzanine.generic.templatetags.rating_tags

mezzanine.generic.templatetags.rating_tags.rating_for (context, obj)
Provides a generic context variable name for the object that ratings are being rendered for, and the rating form.

1.18.5 mezzanine.blog

Provides a blogging app with posts, keywords, categories and comments. Posts can be listed by month, keyword, category or author.

mezzanine.blog.models

class mezzanine.blog.models.**BlogCategory** (**args*, ***kwargs*) A category for grouping blog posts into a series.

exception DoesNotExist

exception MultipleObjectsReturned

class mezzanine.blog.models.BlogPost(*args, **kwargs)

A blog post.

exception DoesNotExist

exception MultipleObjectsReturned

get_absolute_url()

URLs for blog posts can either be just their slug, or prefixed with a portion of the post's publish date, controlled by the setting BLOG_URLS_DATE_FORMAT, which can contain the value year, month, or day. Each of these maps to the name of the corresponding urlpattern, and if defined, we loop through each of these and build up the kwargs for the correct urlpattern. The order which we loop through them is important, since the order goes from least granular (just year) to most granular (year/month/day).

mezzanine.blog.views

tra_context=None) . Custom templates are checked for using the name blog/blog_post_detail_XXX.html where XXX is the blog posts's slug.

mezzanine.blog.views.blog_post_feed(request, format, **kwargs)
Blog posts feeds - maps format to the correct feed view.

mezzanine.blog.forms

author's username if given.

```
class mezzanine.blog.forms.BlogPostForm
    Model form for BlogPost that provides the quick blog panel in the admin dashboard.
```

mezzanine.blog.admin

class mezzanine.blog.admin.**BlogCategoryAdmin** (*model*, *admin_site*) Admin class for blog categories. Hides itself from the admin menu unless explicitly specified.

has_module_permission(request)

Hide from the admin menu unless explicitly set in ADMIN_MENU_ORDER.

```
class mezzanine.blog.admin.BlogPostAdmin(*args, **kwargs)
Admin class for blog posts.
```

```
save_form (request, form, change)
Super class ordering is important here - user must get saved first.
```

mezzanine.blog.feeds

```
class mezzanine.blog.feeds.PostsAtom(*args, **kwargs)
Atom feed for all blog posts.
```

mezzanine.blog.templatetags.blog_tags

```
mezzanine.blog.templatetags.blog_tags.blog_authors (parser, token)
Put a list of authors (users) for blog posts into the template context.
```

mezzanine.blog.templatetags.blog_tags.blog_categories (*parser*, *token*) Put a list of categories for blog posts into the template context.

```
mezzanine.blog.templatetags.blog_tags.blog_months (parser, token)
Put a list of dates for blog posts into the template context.
```

mezzanine.blog.templatetags.blog_tags.blog_recent_posts (parser, token)
Put a list of recently published blog posts into the template context. A tag title or slug, category title or slug or
author's username can also be specified to filter the recent posts returned.

Usage:

```
{% blog_recent_posts 5 as recent_posts %}
{% blog_recent_posts limit=5 tag="django" as recent_posts %}
{% blog_recent_posts limit=5 category="python" as recent_posts %}
{% blog_recent_posts 5 username=admin as recent_posts %}
```

mezzanine.blog.management.base

```
class mezzanine.blog.management.base.BaseImporterCommand(**kwargs)
Base importer command for blogging platform specific management commands to subclass when importing blog
posts into Mezzanine. The handle_import method should be overridden to provide the import mechanism
specific to the blogging platform being dealt with.
```

- add_comment (post=None, name=None, email=None, pub_date=None, website=None, body=None)
 Adds a comment to the post provided.
- add_meta (*obj*, *tags*, *prompt*, *verbosity*, *old_url=None*) Adds tags and a redirect for the given obj, which is a blog post or a page.
- add_page (*title=None*, *content=None*, *old_url=None*, *tags=None*, *old_id=None*, *old_parent_id=None*) Adds a page to the list of pages to be imported - used by the Wordpress importer.

Adds a post to the post list for processing.

• title and content are strings for the post.

- old_url is a string that a redirect will be created for.
- pub_date is assumed to be a datetime object.
- tags and categories are sequences of strings.
- comments is a sequence of dicts each dict should be the return value of add_comment.

handle(*args, **options)

Processes the converted data into the Mezzanine database correctly.

Attributes: mezzanine_user: the user to put this data in against date_format: the format the dates are in for posts and comments

handle_import (options)

Should be overridden by subclasses - performs the conversion from the originating data source into the lists of posts and comments ready for processing.

trunc (model, prompt, **fields)

Truncates fields values for the given model. Prompts for a new value if truncation occurs.

mezzanine.blog.management.commands

- **class** mezzanine.blog.management.commands.import_rss.**Command**(**kwargs) Import an RSS feed into the blog app.
- **class** mezzanine.blog.management.commands.import_blogger.**Command**(**kwargs) Implements a Blogger importer. Takes a Blogger ID in order to be able to determine which blog it should point to and harvest the XML from.

handle_import (options)

Gets posts from Blogger.

- **class** mezzanine.blog.management.commands.import_wordpress.**Command**(**kwargs) Implements a Wordpress importer. Takes a file path or a URL for the Wordpress Extended RSS file.
 - get_text (xml, name)

Gets the element's text value from the XML object provided.

handle_import (options)

Gets the posts from either the provided URL or the path if it is local.

wp_caption(post)

Filters a Wordpress Post for Image Captions and renders to match HTML.

- mezzanine.blog.management.commands.import_tumblr.title_from_content(content)
 Try and extract the first sentence from a block of test to use as a title.

1.18.6 mezzanine.accounts

Provides features for non-staff user accounts, such as login, signup with optional email verification, password reset, and integration with user profiles models defined by the ACCOUNTS_PROFILE_MODEL setting. Some utility functions for probing the profile model are included below.

exception mezzanine.accounts.ProfileNotConfigured

mezzanine.accounts.get_profile_for_user(user) Returns site-specific profile for this user. Raises ProfileNotConfigured if settings. ACCOUNTS PROFILE MODEL is not set, and ImproperlyConfigured if the corresponding model can't be found. mezzanine.accounts.get_profile_form() Returns the profile form defined by settings. ACCOUNTS PROFILE FORM CLASS. mezzanine.accounts.get_profile_model() Returns the Mezzanine profile model, defined in settings. ACCOUNTS PROFILE MODEL, or None if no profile model is configured. mezzanine.accounts.get_profile_user_fieldname(profile_model=None, user_model=None) Returns the name of the first field on the profile model that points to the auth.User model. mezzanine.accounts.views mezzanine.accounts.views.account_redirect (request, *args, **kwargs) Just gives the URL prefix for accounts an action - redirect to the profile update form. mezzanine.accounts.views.login(request, template=u'accounts/account_login.html', form_class=<class 'mezzanine.accounts.forms.LoginForm'>, *extra_context=None*) Login form. mezzanine.accounts.views.logout (request) Log the user out. mezzanine.accounts.views.profile(request, username, template=u'accounts/account_profile.html', extra_context=None) Display a profile. mezzanine.accounts.views.profile redirect (request, *args, **kwargs) Just gives the URL prefix for profiles an action - redirect to the logged in user's profile. mezzanine.accounts.views.profile_update(request, *args, **kwargs) Profile update form. mezzanine.accounts.views.signup (request, template=u'accounts/account_signup.html', ex*tra_context=None*) Signup form. mezzanine.accounts.views.signup_verify (request, uidb36=None, token=None) View for the link in the verification email sent to a new user when they create an account and ACCOUNTS_VERIFICATION_REQUIRED is set to True. Activates the user and logs them in, redirecting to the URL they tried to access when signing up. mezzanine.accounts.forms

clean()

Authenticate the given username/email and password. If the fields are valid, store the authenticated user for returning via save().

```
save()
```

Just return the authenticated user - used for logging in.

```
class mezzanine.accounts.forms.PasswordResetForm(*args, **kwargs)
```

Validates the user's username or email for sending a login token for authenticating to change their password.

save()

Just return the authenticated user - used for sending login email.

```
class mezzanine.accounts.forms.ProfileForm(*args, **kwargs)
```

ModelForm for auth.User - used for signup and profile update. If a Profile model is defined via ACCOUNTS PROFILE MODEL, its fields are injected into the form.

clean_email()

Ensure the email address is not already registered.

clean_password2()

Ensure the password fields are equal, and match the minimum length defined by ACCOUNTS_MIN_PASSWORD_LENGTH.

clean_username()

Ensure the username doesn't exist or contain invalid chars. We limit it to slugifiable chars since it's used as the slug for the user's profile view.

save (*args, **kwargs)

Create the new user. If no username is supplied (may be hidden via ACCOUNTS_PROFILE_FORM_EXCLUDE_FIELDS or ACCOUNTS_NO_USERNAME), we generate a unique username, so that if profile pages are enabled, we still have something to use as the profile's slug.

mezzanine.accounts.templatetags.accounts_tags

{% login_form as form %} {{ form }}

mezzanine.accounts.templatetags.accounts_tags.profile_fields(user)

Returns profile fields as a dict for the given user. Used in the profile view template when the ACCOUNTS_PROFILE_VIEWS_ENABLED setting is set to True, and also in the account approval emails sent to administrators when the ACCOUNTS_APPROVAL_REQUIRED setting is set to True.

{% if request.user.is_authenticated %} {% profile_form request.user as form %} {{ form }} {% endif %}

{% signup_form as form %} {{ form }}

mezzanine.accounts.admin

1.18.7 mezzanine.forms

A port of django-forms-builder for Mezzanine. Allows admin users to create their own HTML5 forms and export form submissions as CSV.

mezzanine.forms.models

```
class mezzanine.forms.models.AbstractBaseField(*args, **kwargs)
A field for a user-built form.
```

get_choices()

Parse a comma separated choice string into a list of choices taking into account quoted choices.

is_a (**args*) Helper that returns True if the field's type is given in any arg.

class mezzanine.forms.models.Field(id, _order, label, field_type, required, visible, choices, default, placeholder_text, help_text, form)

exception DoesNotExist

exception MultipleObjectsReturned

class mezzanine.forms.models.**FieldEntry** (**args*, ***kwargs*) A single field value for a form entry submitted via a user-built form.

exception DoesNotExist

exception MultipleObjectsReturned

- class mezzanine.forms.models.FieldManager Only show visible fields when displaying actual form.
- class mezzanine.forms.models.Form(*args, **kwargs)
 A user-built form.

exception DoesNotExist

exception MultipleObjectsReturned

class mezzanine.forms.models.**FormEntry**(**args*, ***kwargs*) An entry submitted via a user-built form.

exception DoesNotExist

exception MultipleObjectsReturned

mezzanine.forms.forms

class mezzanine.forms.forms.**EntriesForm**(*form*, *request*, **args*, ***kwargs*)

Form with a set of fields dynamically assigned that can be used to filter entries for the given forms.models. Form instance.

columns()

Returns the list of selected column names.

```
rows (csv=False)
Returns each row based on the selected criteria.
```

class mezzanine.forms.forms.**FormForForm** (*form*, *context*, **args*, ***kwargs*)

Form with a set of fields dynamically assigned, directly based on the given forms.models.Form instance.

```
email_to()
```

Return the value entered for the first field of type forms.EmailField.

save(**kwargs)

Create a FormEntry instance and related FieldEntry instances for each form field.

mezzanine.forms.page_processors

- mezzanine.forms.page_processors.form_processor(request, page)
 Display a built form and handle submission.
- mezzanine.forms.page_processors.format_value(value)
 Convert a list into a comma separated string, for displaying select multiple values in emails.

mezzanine.forms.admin

class mezzanine.forms.admin.**FieldAdmin** (*parent_model*, *admin_site*) Admin class for the form field. Inherits from TabularDynamicInlineAdmin to add dynamic "Add another" link and drag/drop ordering.

model

```
alias of mezzanine.forms.models.Field
```

```
class mezzanine.forms.admin.FormAdmin(*args, **kwargs)
```

Admin class for the Form model. Includes the urls & views for exporting form entries as CSV and downloading files uploaded via the forms app.

entries_view (request, form_id) Displays the form entries in a HTML table with option to export as CSV file.

- file_view (request, field_entry_id)
 Output the file for the requested field entry.
- get_urls()

Add the entries view to urls.

1.18.8 mezzanine.galleries

Implements a photo gallery content type.

mezzanine.galleries.models

```
class mezzanine.galleries.models.BaseGallery(*args, **kwargs)
Base gallery functionality.
```

save (delete_zip_import=True, *args, **kwargs)
If a zip file is uploaded, extract any images from it and add them to the gallery, before removing the zip
file.

class mezzanine.galleries.models.**Gallery**(*args, **kwargs) Page bucket for gallery photos.

exception DoesNotExist

exception MultipleObjectsReturned

class mezzanine.galleries.models.GalleryImage (id, _order, gallery, file, description)

exception DoesNotExist

exception MultipleObjectsReturned

```
save (*args, **kwargs)
```

If no description is given when created, create one from the file name.

mezzanine.galleries.admin

1.18.9 mezzanine.conf

Drop-in replacement for django.conf.settings that provides a consistent access method for settings defined in applications, the project or Django itself. Settings can also be made editable via the admin.

class mezzanine.conf.Settings

An object that provides settings via dynamic attribute access.

Settings that are registered as editable will be stored in the database once the site settings form in the admin is first saved. When these values are accessed via this settings object, *all* database stored settings get retrieved from the database.

When accessing uneditable settings their default values are used, unless they've been given a value in the project's settings.py module.

The settings object also provides access to Django settings via django.conf.settings, in order to provide a consistent method of access for all settings.

class Placeholder

A Weakly-referable wrapper of object.

clear_cache()

Clear the settings cache for the current request.

use_editable()

Clear the cache for the current request so that editable settings are fetched from the database on next access. Using editable settings is the default, so this is deprecated in favour of clear_cache().

mezzanine.conf.register_setting (name=None, label=None, editable=False, description=None,

```
default=None, choices=None, append=False, translat-
```

```
able=False)
```

Registers a setting that can be edited via the admin. This mostly equates to storing the given args as a dict in the registry dict by name.

mezzanine.conf.models

class mezzanine.conf.models.Setting(*args, **kwargs)
Stores values for mezzanine.conf that can be edited via the admin.

exception DoesNotExist

exception MultipleObjectsReturned

mezzanine.conf.forms

class mezzanine.conf.forms.SettingsForm(*args, **kwargs)
Form for settings - creates a field for each setting in mezzanine.conf that is marked as editable.

format_help(description)

Format the setting's description into HTML.

save()

Save each of the settings to the DB.

mezzanine.conf.admin

```
class mezzanine.conf.admin.SettingsAdmin (model, admin_site)
    Admin class for settings model. Redirect add/change views to the list view where a single form is rendered for
    editing all settings.
```

mezzanine.conf.context_processors

```
class mezzanine.conf.context_processors.TemplateSettings (settings, al-
lowed_settings, *args,
**kwargs)
Dict wrapper for template settings. This exists to enforce the restriction of settings in templates to those n
```

Dict wrapper for template settings. This exists to enforce the restriction of settings in templates to those named in TEMPLATE_ACCESSIBLE_SETTINGS, and to warn about deprecated settings.

Django's template system attempts a dict-style index lookup before an attribute lookup when resolving dot notation in template variables, so we use <u>___getitem__</u>() this as the primary way of getting at the settings.

mezzanine.conf.context_processors.settings(request=None)
Add the settings object to the template context.

1.18.10 mezzanine.template

class mezzanine.template.Library

Extends django.template.Library providing several shortcuts that attempt to take the leg-work out of creating different types of template tags.

as_tag(tag_func)

Creates a tag expecting the format: {% tag_name as var_name %} The decorated func returns the value that is given to var_name in the template.

render_tag(tag_func)

Creates a tag using the decorated func as the render function for the template tag node. The render function takes two arguments - the template context and the tag token.

to_end_tag(tag_func)

Creates a tag that parses until it finds the corresponding end tag, eg: for a tag named mytag it will parse until endmytag. The decorated func's return value is used to render the parsed content and takes three arguments - the parsed content between the start and end tags, the template context and the tag token.

1.18.11 mezzanine.template.loader_tags

class mezzanine.template.loader_tags.OverExtendsNode(nodelist, parent_name, tem-

plate_dirs=None)

Allows the template foo/bar.html to extend foo/bar.html, given that there is another version of it that can be loaded. This allows templates to be created in a project that extend their app template counterparts, or even app templates that extend other app templates with the same relative name/path.

We use our own version of find_template, that uses an explicit list of template directories to search for the template, based on the directories that the known template loaders (app_directories and filesystem) use. This list gets stored in the template context, and each time a template is found, its absolute path gets removed from the list, so that subsequent searches for the same relative name/path can find parent templates in other directories, which allows circular inheritance to occur.

Django's app_directories, filesystem, and cached loaders are supported. The eggs loader, and any loader that implements load_template_source with a source string returned, should also theoretically work.

find_template (name, context, peeking=False)

Replacement for Django's find_template that uses the current template context to keep track of which template directories it has used when finding a template. This allows multiple templates with the same relative name/path to be discovered, so that circular template inheritance can occur.

get_parent (context)

Load the parent template using our own find_template, which will cause its absolute path to not be used again. Then peek at the first node, and if its parent arg is the same as the current parent arg, we know circular inheritance is going to occur, in which case we try and find the template again, with the absolute directory removed from the search list.

mezzanine.template.loader_tags.overextends(parser, token)

Extended version of Django's extends tag that allows circular inheritance to occur, eg a template can both be overridden and extended at once.

1.18.12 mezzanine.twitter

Provides models and utilities for displaying different types of Twitter feeds.

mezzanine.twitter.models

class mezzanine.twitter.models.**Query** (*id*, *type*, *value*, *interested*)

exception DoesNotExist

exception MultipleObjectsReturned

run()

Request new tweets from the Twitter API.

exception DoesNotExist

exception MultipleObjectsReturned

exception mezzanine.twitter.models.TwitterQueryException

mezzanine.twitter.managers

class mezzanine.twitter.managers.TweetManager

Manager that handles generating the initial Query instance for a user, list or search term.

get_for(query_type, value)

Create a query and run it for the given arg if it doesn't exist, and return the tweets for the query.

mezzanine.twitter.templatetags.twitter_tags

mezzanine.twitter.templatetags.twitter_tags.tweets_default (parser, token)
Tweets for the default settings.

mezzanine.twitter.templatetags.twitter_tags.tweets_for(query_type, args,

per_user=None) Retrieve tweets for a user, list or search term. The optional per_user arg limits the number of tweets per user, for example to allow a fair spread of tweets per user for a list.

- mezzanine.twitter.templatetags.twitter_tags.tweets_for_list (parser, token)
 Tweets for a user's list.
- mezzanine.twitter.templatetags.twitter_tags.tweets_for_search (parser, token)
 Tweets for a search query.
- mezzanine.twitter.templatetags.twitter_tags.tweets_for_user(parser, token)
 Tweets for a user.

mezzanine.twitter.management.commands

1.18.13 mezzanine.utils

Various utility functions used throughout the different Mezzanine apps.

```
mezzanine.utils.cache.add_cache_bypass(url)
```

Adds the current time to the querystring of the URL to force a cache reload. Used for when a form post redirects back to a page that should display updated content, such as new comments or ratings.

```
mezzanine.utils.cache.cache_get(key)
```

Wrapper for cache.get. The expiry time for the cache entry is stored with the entry. If the expiry time has past, put the stale entry back into cache, and don't return it to trigger a fake cache miss.

```
mezzanine.utils.cache.cache_installed(*args, **kwds)
Returns True if a cache backend is configured, and the cache middleware classes or subclasses thereof are
present. This will be evaluated once per run, and then cached.
```

```
mezzanine.utils.cache.cache_key_prefix (request)
Cache key for Mezzanine's cache middleware. Adds the current site ID.
```

mezzanine.utils.cache.cache_set (key, value, timeout=None, refreshed=False)

Wrapper for cache.set. Stores the cache entry packed with the desired cache expiry time. When the entry is retrieved from cache, the packed expiry time is also checked, and if past, the stale cache entry is stored again with an expiry that has CACHE_SET_DELAY_SECONDS added to it. In this case the entry is not returned, so that a cache miss occurs and the entry should be set by the caller, but all other callers will still get the stale entry, so no real cache misses ever occur.

```
mezzanine.utils.cache.nevercache_token()
```

Returns the secret token that delimits content wrapped in the nevercache template tag.

class mezzanine.utils.conf.SitesAllowedHosts

This is a fallback for Django's ALLOWED_HOSTS setting which is required when DEBUG is False. It looks up the Site model and uses any domains added to it, the first time the setting is accessed.

- mezzanine.utils.conf.middlewares_or_subclasses_installed(needed_middlewares)
 When passed an iterable of dotted strings, returns True if all of the middlewares (or their subclasses) are installed.
- mezzanine.utils.conf.real_project_name(project_name)

Used to let Mezzanine run from its project template directory, in which case "{{ project_name }}" won't have been replaced by a real project name.

mezzanine.utils.conf.set_dynamic_settings(s)

Called at the end of the project's settings module, and is passed its globals dict for updating with some final tweaks for settings that generally aren't specified, but can be given some better defaults based on other settings that have been specified. Broken out into its own function so that the code need not be replicated in the settings modules of other project-based apps that leverage Mezzanine's settings module.

Utils called from project_root/docs/conf.py when Sphinx documentation is generated.

- mezzanine.utils.docs.build_changelog(docs_path, package_name=u'mezzanine')
 Converts Mercurial commits into a changelog in RST format.
- mezzanine.utils.docs.build_modelgraph (docs_path, package_name=u'mezzanine')
 Creates a diagram of all the models for mezzanine and the given package name, generates a smaller version and
 add it to the docs directory for use in model-graph.rst
- mezzanine.utils.docs.build_requirements (docs_path, package_name=u'mezzanine')
 Updates the requirements file with Mezzanine's version number.
- mezzanine.utils.docs.build_settings_docs (docs_path, prefix=None)
 Converts names, descriptions and defaults for settings in mezzanine.conf.registry into RST format for
 use in docs, optionally filtered by setting names with the given prefix.
- mezzanine.utils.email.send_approve_mail (request, user)
 Sends an email to staff in listed in the setting ACCOUNTS_APPROVAL_EMAILS, when a new user signs up
 and the ACCOUNTS_APPROVAL_REQUIRED setting is True.
- mezzanine.utils.email.send_approved_mail(request, user)
 Sends an email to a user once their is_active status goes from False to True when the
 ACCOUNTS_APPROVAL_REQUIRED setting is True.

ers=None) Send email rendering text and html versions for the specified template name using the context dictionary passed in.

mezzanine.utils.email.send_verification_mail (request, user, verification_type)
Sends an email with a verification link to users when ACCOUNTS_VERIFICATION_REQUIRED is `True
and they're signing up, or when they reset a lost password. The verification_type arg is both the name
of the urlpattern for the verification link, as well as the names of the email templates to use.

mezzanine.utils.email.split_addresses (email_string_list)
Converts a string containing comma separated email addresses into a list of email addresses.

mezzanine.utils.email.**subject_template** (*template*, *context*) Loads and renders an email subject template, returning the subject string.

```
class mezzanine.utils.html.TagCloser(html)
```

HTMLParser that closes open tags. Takes a HTML string as its first arg, and populate a html attribute on the parser with the original HTML arg and any required closing tags.

```
mezzanine.utils.html.absolute_urls(html)
```

Converts relative URLs into absolute URLs. Used for RSS feeds to provide more complete HTML for item descriptions, but could also be used as a general richtext filter.

- mezzanine.utils.html.decode_entities(html)
 Remove HTML entities from a string. Adapted from http://effbot.org/zone/re-sub.htm#unescape-html
- mezzanine.utils.html.escape(*args, **kwargs)

```
Escapes HTML according to the rules defined by the settings RICHTEXT_FILTER_LEVEL, RICHTEXT ALLOWED TAGS, RICHTEXT ALLOWED ATTRIBUTES, RICHTEXT ALLOWED STYLES.
```

```
mezzanine.utils.html.thumbnails(*args, **kwargs)
```

Given a HTML string, converts paths in img tags to thumbnail paths, using Mezzanine's thumbnail template tag. Used as one of the default values in the RICHTEXT_FILTERS setting.

mezzanine.utils.importing.import_dotted_path (*path*) Takes a dotted path to a member name in a module, and returns the member after importing it.

```
mezzanine.utils.importing.path_for_import (name)
Returns the directory path for the given package or module.
```

class mezzanine.utils.models.**AdminThumbMixin** Provides a thumbnail method on models for admin classes to reference in the list_display definition.

```
class mezzanine.utils.models.ModelMixin
```

Used as a subclass for mixin models that inject their behaviour onto models defined outside of a project. The subclass should define an inner Meta class with a mixin_for attribute containing the model that will be mixed into.

```
class mezzanine.utils.models.ModelMixinBase
```

Metaclass for ModelMixin which is used for injecting model fields and methods into models defined outside of a project. This currently isn't used anywhere.

mezzanine.utils.models.base_concrete_model(abstract, model)

Used in methods of abstract models to find the super-most concrete (non abstract) model in the inheritance chain that inherits from the given abstract model. This is so the methods in the abstract model can query data consistently across the correct concrete model.

Consider the following:

```
class Abstract(models.Model)
    class Meta:
        abstract = True
    def concrete(self):
        return base_concrete_model(Abstract, self)
    class Super(Abstract):
        pass
    class Sub(Super):
        pass
    sub = Sub.objects.create()
    sub.concrete() # returns Super
```

In actual Mezzanine usage, this allows methods in the Displayable and Orderable abstract models to access the Page instance when instances of custom content types, (eg: models that inherit from Page) need

to query the Page model to determine correct values for slug and _order which are only relevant in the context of the Page model and not the model of the custom content type.

```
mezzanine.utils.models.get_user_model_name()
```

Returns the app_label.object_name string for the user model.

mezzanine.utils.models.upload_to(field_path, default)

Used as the upload_to arg for file fields - allows for custom handlers to be implemented on a per field basis defined by the UPLOAD_TO_HANDLERS setting.

mezzanine.utils.sites.current_site_id()

Responsible for determining the current Site instance to use when retrieving data for any SiteRelated models. If we're inside an override_current_site_id context manager, return the overriding site ID. Otherwise, try to determine the site using the following methods in order:

- site_id in session. Used in the admin so that admin users can switch sites and stay on the same domain for the admin.
- The id of the Site object corresponding to the hostname in the current request. This result is cached.
- MEZZANINE_SITE_ID environment variable, so management commands or anything else outside of a request can specify a site.
- SITE_ID setting.

If a current request exists and the current site is not overridden, the site ID is stored on the request object to speed up subsequent calls.

```
mezzanine.utils.sites.has_site_permission(user)
```

Checks if a staff user has staff-level access for the current site. The actual permission lookup occurs in SitePermissionMiddleware which then marks the request with the has_site_permission flag, so that we only query the db once per request, so this function serves as the entry point for everything else to check access. We also fall back to an is_staff check if the middleware is not installed, to ease migration.

mezzanine.utils.sites.host_theme_path()

Returns the directory of the theme associated with the given host.

```
mezzanine.utils.sites.override_current_site_id(*args, **kwds)
```

Context manager that overrides the current site id for code executed within it. Used to access SiteRelated objects outside the current site.

```
class mezzanine.utils.tests.TestCase(methodName='runTest')
```

This is the base test case providing common features for all tests across the different apps in Mezzanine.

- **create_recursive_objects** (*model*, *parent_field*, ***kwargs*) Create multiple levels of recursive objects.
- queries_used_for_template(template, **context)

Return the number of queries used when rendering a template string.

setUp()

Creates an admin user, sets up the debug cursor, so that we can track the number of queries used in various places, and creates a request factory for views testing.

tearDown()

Clean up the admin user created and debug cursor.

```
mezzanine.utils.tests.copy_test_to_media (module, name)
Copies a file from Mezzanine's test data path to MEDIA_ROOT. Used in tests and demo fixtures.
```

- mezzanine.utils.timezone.get_best_local_timezone()
 Compares local timezone offset to pytz's timezone db, to determine a matching timezone name to use when
 TIME_ZONE is not set.
- mezzanine.utils.urls.clean_slashes (*path*) Canonicalize path by removing leading slashes and conditionally removing trailing slashes.
- mezzanine.utils.urls.home_slug()

Returns the slug arg defined for the home urlpattern, which is the definitive source of the url field defined for an editable homepage object.

- mezzanine.utils.urls.login_redirect (request)
 Returns the redirect response for login/signup. Favors: next param LOGIN_REDIRECT_URL setting homepage
- mezzanine.utils.urls.next_url(request)
 Returns URL to redirect to from the next param in the request.
- mezzanine.utils.urls.path_to_slug(path)

Removes everything from the given URL path, including language code and PAGES_SLUG if any is set, returning a slug that would match a Page instance's slug.

mezzanine.utils.urls.slugify(s)

Loads the callable defined by the SLUGIFY setting, which defaults to the slugify_unicode function.

mezzanine.utils.urls.slugify_unicode(s)

Replacement for Django's slugify which allows unicode chars in slugs, for URLs in Chinese, Russian, etc. Adopted from https://github.com/mozilla/unicode-slugify/

- mezzanine.utils.urls.unique_slug(queryset, slug_field, slug) Ensures a slug is unique for the given queryset, appending an integer to its end until the slug is unique.
- mezzanine.utils.views.ip_for_request (request)
 Returns ip address for request first checks HTTP_X_FORWARDED_FOR header, since app will generally be
 behind a public web server.
- mezzanine.utils.views.is_editable (obj, request)
 Returns True if the object is editable for the request. First check for a custom editable handler on the
 object, otherwise use the logged in user and check change permissions for the object's model.

mezzanine.utils.views.is_spam (request, form, url)
Main entry point for spam handling - called from the comment view and page processor for mezzanine.
forms, to check if posted content is spam. Spam filters are configured via the SPAM FILTERS setting.

mezzanine.utils.views.is_spam_akismet(request, form, url)

Identifies form data as being spam, using the http://akismet.com service. The Akismet API key should be specified in the AKISMET_API_KEY setting. This function is the default spam handler defined in the SPAM_FILTERS setting.

The name, email, url and comment fields are all guessed from the form fields:

- name: First field labelled "Name", also taking i18n into account.
- email: First EmailField field.
- url: First URLField field.

• comment: First field with a Textarea widget.

If the actual comment can't be extracted, spam checking is passed.

The referrer field expects a hidden form field to pass the referrer through, since the HTTP_REFERER will be the URL the form is posted from. The hidden referrer field is made available by default with the {% fields_for %} templatetag used for rendering form fields.

mezzanine.utils.views.paginate(objects, page_num, per_page, max_paging_links)
Return a paginated page for the given objects, giving it a custom visible_page_range attribute calculated
from max_paging_links.

Mimics django.shortcuts.render but uses a TemplateResponse for mezzanine.core. middleware.TemplateForDeviceMiddleware

mezzanine.utils.views.set_cookie (response, name, value, expiry_seconds=None, secure=False)
Set cookie wrapper that allows number of seconds to be given as the expiry time, and ensures values are correctly
encoded.

1.19 Colophon

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1.19.3 Change Log

Version 4.3.0 (Jun 15, 2018)

- Added explicit on_delete arguments for all ForeignKey models Samir Shah
- Only generate thumbnails in RichText when absolute width/height used. Closes #1748 Stephen McDonald
- Removed null attribute from slug CharField Samir Shah
- Converted all template.render calls to pass a dict instead of a Context object Samir Shah
- Fixed MezzanineBackend.authenticate backend to accept a request argument, added in Django 1.11 Samir Shah
- Fixed test_multiple_comment_forms to be agnostic of the order of HTML attributes Samir Shah

- Altered annotation behaviour of search results. Previously this was done implicitly in the SearchQuerySet. iterator() method, which Django would call internally when evaluating the queryset. Django 1.11 changed its behaviour to use a ModelIterator class instead of. just calling *iterator()* on the queryset. Rather than suppy a custom. ModelIterator, we just make the annotate explicit - Samir Shah
- Updated setup and test configuration to include Django 1.11 Samir Shah
- password reset: 'http' -> request.schema. This fixes a potential security vulnerability in which the
 password. reset url is exposed to untrusted intermediary nodes in the network. Thanks to John Barham
 for reporting. See. <https://groups.google.com/forum/?_escaped_fragment_=topic/
 mezzanine-users/KaDzCzCJDPM#!topic/mezzanine-users/KaDzCzCJDPM> ryneeverett
- Add explicit on_delete arguments to foreign keys in migrations Samir Shah
- Use TextField for Field.label and Field.help_text. Fixes #1753. Now length limits for user-defined labels and help_texts are enforced in the admin instead of the DB, which should prevent any further migrations Eduardo Rivas
- Get rid of max_length settings for mezzanine.forms Eduardo Rivas
- Timezone aware blog months. From [the mailing. list] (https://groups.google.com/forum/#! topic/mezzanine-users/W1HNoqj1ZHI): Quoting Luke Addison (2017-04-30 21:20:09). > When USE_TZ is set to True, > mezzanine.blog.templatetags.blog_tags.blog_months pulls the month and year. > from an array of timezone aware datatime objects but uses them to create an. > array of timezone unaware datatime objects which is the used to create the. > month_dicts return value. This seems like a bug to me. >. > For example, if a UTC time is stored in the database less than an hour. > before the end of a month, and then this tag is used with timezone. > Europe/London (UTC+1 currently) then wouldn't this tag return the pervious. > month instead of the current month? ryneeverett
- Test and simplify blog_months ryneeverett
- Weigh search results by age. Weigh search results by their age by default. Add a new setting, *SEARCH_AGE_SCALE_FACTOR*, controlling how much emphasis to put on the. age when ranking results (set this to 0 to revert to the old behavior) - Simen Heggestøyl
- Split dev and prod ALLOWED_HOSTS. Django started checking AL-LOWED_HOSTS when DEBUG=True releases https:// a few back. See www.djangoproject.com/weblog/2016/nov/01/security-releases/ #s-cve-2016-9014-dns-rebinding-vulnerability-when-debug-true-Ed Rivas
- Update docs related to ALLOWED_HOSTS Ed Rivas
- Fix the old url parsing in import wordpress Karim N Gorjux
- Use Django's six module Stephen McDonald
- Don't warn Mezzanine about itself Stephen McDonald
- Looser check for LocalMiddleware. Closes #1621 Stephen McDonald
- Modified the blog homepage pattern to a working version. Added import it requires Ville Ranki
- Remove explicit show_banner argument from inner_run. This broke -noreload for me. When called from https://github.com/django/django/blob/master/django/core/management/ commands/runserver.py#L107, if **options contains a show_banner arg (which, seemingly, is set just above in add_arguments), this throws a "Got multiple values for argument" TypeError Kevin Shen
- Handle MIDDLEWARE_CLASSES -> MIDDLEWARE Stephen McDonald
- Don't use lazy static loading when Django's ManifestStaticFilesStorage is configured. Closes #1772 Stephen McDonald
- Link to Pillow docs for dependencies Stephen McDonald

- Adding new site to site list. Adding "The National: New Australian Art" to the site list. https://the-national.com.au-pegl
- Doesn't convert JPG/JPEG images to RGBA. resolve #1781 Bruno Barbosa
- · Remove all device-detection features Eduardo Rivas
- · Remove mentions of device handling from docs Eduardo Rivas
- Use template loaders instead of middlware for host-based template swapping Eduardo Rivas
- Add docs on upgrading from TemplateForHostMiddleware Eduardo Rivas
- Create ___init___.py so Python can find directory Dylan Peter Hayward
- Properly parse positional args. As demonstrated by using call_command, the positional args not. processed. This may be a left-over from optarg migration. Usage property is no longer necessary - Melvyn Sopacua
- Fix build fail while in here Melvyn Sopacua
- Added more tests por pages Vindio
- Update page_not_found view args. Closes #1795 Stephen McDonald
- Rename Displayable is_public to published Stephen McDonald
- Test Nginx config before restarting. This way the configuration won't be updated if it's broken, and you also get an error message in the terminal explaining why it's broken (instead of just telling you to check service status/journal) Andrés Martano
- Enable browser-native spell checking in WYSIWYG tinymce editor, which got wiped in 82339b0 . Previously introduced in 86f6ef6 Michel
- Fixing the support for external links which are moved to child categories in the menu hierarchy Gerik Peterson
- Update LOGOUT_URL to make use of ACCOUNT_URL Adam Radwon
- Ensure template vars for form defaults are properly escaped Stephen McDonald
- Fix drag-n-drop for Form field inlines. Fixes #1841. Inherit from DynamicInlineAdminForm to inject the necessary JS files Eduardo Rivas
- Fix failing tests that assume threadlocals have been set up Luke Plant
- Pulled out middleware present check into its own function. And fixed Python 3 compat Luke Plant
- Made all middleware installation checking consistent. All check by string first, and then for classes and subclasses, correctly ignoring things that aren't classes - Luke Plant
- Fix failing tests that assume threadlocals have been set up (#1848) Luke Plant
- Fix keywords widget for Django 1.11. Closes #1844 stephenmcd
- Fix sense of SITE_PERMISSION_MIDDLEWARE check. Issue introduced by commit 00f4a63c Ross Younger
- Fix sense of other check for SITE_PERMISSION_MIDDLEWARE. Issue introduced by commit 00f4a63 Ross Younger
- Added basic tests for TemplateSettings. The tests follow the existing functionality Luke Plant
- Gave TemplateSettings a useful __repr__. Previously it just returned '{}' always, from super()s empty dict Luke Plant
- Don't emit warning when doing force_text (TestSettings()). This is to fix the behaviour of getting lots of instances of: UserWarning: __unicode__ is not in TEMPLATE_ACCESSIBLE_SETTINGS. if you have django-debug-tool installed Luke Plant

- Prevent changes to FORMS_EXTRA_FIELDS setting creating new migrations steve@jupo.org
- Support access to related model on Django 2+ Williams Mendez
- · Fix safe string handling in richtext filters steve@jupo.org
- Fix some test warnings steve@jupo.org
- Add deprecation handling for mark_safe as decorator steve@jupo.org
- Fix SplitSelectDateTimeWidget which Django 1.9 broke. Closes #1838 steve@jupo.org
- Fix usage of request.scheme in password reset email Eduardo Rivas
- Make thumbnail tag recognize . PNG and . GIF. Files with the upper case extensions . PNG and . GIF are now recognized by. the thumbnail template tag as being PNG- and GIF images, respectively, instead of being treated as JPEG images Simen Heggestøyl
- Added gcc and rsync for the full deployment on the freshly installed Debian (eg. on OVH) lukasz
- Support *SelectDateWidget* in django 1.8 and django 2.x Williams Mendez
- Narrow exception handling to ImportError only Williams Mendez

Version 4.2.3 (Mar 10, 2017)

- Test MultiChoiceField.validate when invalid. For the record, this raises a TypeError prior to Simen's commit ryneeverett
- Test MultiChoiceField.validate when valid. Also, I realized that the *choices* kwarg needs to be a nested list ryneeverett
- Ensure createdb command passes on the exepcted options to base class Stephen McDonald
- · Workaround for Django bug with templates field and empty values Stephen McDonald
- Update travis django versions. (#1683). See discussion at. https://github.com/stephenmcd/ mezzanine/commit/1866997c64725b3161b59628c8deaee544f0c473 - ryneeverett
- Subclass Django's redirect admin to filter by site Stephen McDonald
- Remove "Overriding vs. Extending" Docs. I know we discussed this a little bit somewhere and rewriting this. section was suggested. However, I don't see any reason to keep it. around. This was always a django issue but we provided a. mezzanine-specific solution. Now that there's a django solution, why. clutter our docs with it? ryneeverett
- Richtext filters must return SafeString. For now, just raise a warning. In the way-off future I'd like to see. richtext_filters raise an exception when a SafeString is not received. Django makes a contract with users: "Unless you explicitly mark. untrusted input as safe, we'll escape it and you don't need to worry. about XSS vulnerabilities." My position is that reusable apps should. proxy this contract to users. In doing so, this also moves the SafeString conversion out of templates. and into the *escape* function in which bleach actually makes the html. safe. The closer these two components are to each other the less likely. we are to make a mistake in between them ryneeverett
- Fix SSLRedirectMiddleware.___init___ signature. As reported on the mailing list. (https:// groups.google.com/d/msg/mezzanine-users/d5mcAMOVcnk/uqw61LyjAwAJ), this raised a TypeError because the *get_response* argument is optional - ryneeverett
- Move "required" from field help text to template. The forms app used to set "required" as the help text for fields that. are required and didn't have a help text already. Move this text into. the template instead, making it easier to override Simen Heggestøyl
- Use call_command() instead of execute()(#1691) Geoffrey ROYER

- Remove the no_color handling in createdb management command (#1691) Geoffrey ROYER
- Fix example in profile docs Stephen McDonald
- Remove outdated message regarding auto-reload. Since local_settings.py is added to sys.modules, the autoreload is working as expected. See: https://github.com/stephenmcd/mezzanine/blob/master/mezzanine/project_template/project_name/settings.py#L308 Ed Rivas
- Document static_lazy's purpose. This is a summary of the reasoning in. https://github.com/ stephenmcd/mezzanine/pull/1411 - ryneeverett
- Update contributing guidelines to reflect practice. The language here is too broad and has caused several users to submit. high quality bug reports or patches to the mailing list when it's. actually easier to deal with them in the tracker ryneeverett
- Fix TinyMCE support in dynamic inlines (#1674). * Fix TinyMCE support in dynamic inlines. Use TinyMCE's jQuery plugin to initialise our editors, and handle. Django's formset:added event to initialise editors in dynamically added. forms. * Tidy up TinyMCE initialisation code. * Call out changes to jquery.tinymce.min.js more visibly Alex Hill
- Warn when editing admin users without permissions. Closes #1707 Stephen McDonald
- Move contributing guidelines to CONTRIBUTING.rst. This will present itself before people open issues which should cut down. on a lot of the erroneous ones ryneeverett
- Fix short URL generation Stephen McDonald
- Add support for importing via blogml Evan Mattiza
- Clean up blogml importer Stephen McDonald
- Added python 3.6 (#1720) Andrii Soldatenko
- Deprecate as_tag templatetag shortcut. It isn't documented but folks may be using it anyway. We can't switch. over to simple_tag internally yet until we drop support for django-1.8 ryneeverett
- Restore tinymce support in front-end editing. Closes #1718 Stephen McDonald
- Fix caching editable settings forever when no request David Sanders
- Blog RSS feed set length property for images (enclosure) Yuri Prezument
- Blog RSS add mime_type for images (enclosure) Yuri Prezument
- Blog Atom feed add "updatedate" property Yuri Prezument
- Fix issue with PyPy2 (#1725). Under PyPy2 you can't do u"foo" == lazy(static, str)("bar") because the. code assumes dir(str) is a strict subset of dir(unicode), which isn't. true on PyPy2. The other way around is no problem however, and the. other strings in the static assets lists are unicode anyway Ernst Sjöstrand
- Fix issue 1710. During user validation, only save POST data in session if it is a POST. request, otherwise saved comment may be overwritten by GET request that. results from redirect if user verification is required Chris Hawes
- Re-order JavaScript loading to ensure TinyMCE has access to correct variables. Closes #1728 Stephen Mc-Donald
- Nicer way to import and register checks. The previous way meant every check gets mentioned 3 times (def, import, register), with this way it is just once, and all the django.core.checks. are together Luke Plant
- Converted SitePermissionMiddleware warning to a Django check. Refs issue #1400 Luke Plant
- Added hashbangs/permission bits to make scripts more easily runnable Luke Plant
- Made it easier to run individual tests Luke Plant

- Documented how to run tests Luke Plant
- Fixed pyflakes errors for .checks imports Luke Plant
- Fixed login form to not use request.REQUEST. This is not available in Django 1.9 and greater, so without this fix the. forms are (slightly) broken. There doesn't seem to be any reason to use. REQUEST instead of POST the form is a POST one, and the parameters are not. used elsewhere in the code base to construct a querystring Luke Plant
- Fixed search forms to use request.GET instead of request.REQUEST.request.REQUEST is not available in Django 1.9 and greater Luke Plant
- Support latest bleach, BS, html5lib. Closes #1741, closes #1742, closes #1743 Stephen McDonald

Version 4.2.2 (Sep 25, 2016)

- Add an option for turning off the runserver banner. Add an option to Mezzanine's runserver command for not showing the. banner at startup Simen Heggestøyl
- Only set content_model first time. Fix #1676 ryneeverett

Version 4.2.1 (Sep 19, 2016)

- Issue #1565. Added conditions for assigning keywords to the keyword widget, when a validation error occurs xuryax
- Stop using deprecated template settings. TEMPLATE_DIRS. TEMPLATE_LOADERS. I think these must have been actually removed in django-1.10.0 because. they're throwing AttributeError's now ryneeverett
- Remove deprecated richtext_filter tag. I don't see how the fallback could even work without the user defining. RICHTEXT_FILTERS as empty in their own settings, because it defaults to. ("mezza-nine.utils.html.thumbnails",) so the *if not filternames* path. would never be taken. Give that the fallback does nothing, I think. printing a warning is deceptive so better just to remove it entirely ryneeverett
- Fixed crash in Page.get_ascendants with non-current site Alex Hill
- Add override_current_site_id context manager Alex Hill
- Make sure a thread-local request is set in PagesTests. We rely in these tests on a "current request" being stored as a. thread-local, but without explicitly assigning one we were dependent on. other tests that make requests being executed before these Alex Hill
- Exclude .pyc, .pyo and __pycache__ files from release Edward Betts
- Correctly handle custom email fields in mezzanine.forms. The *is_a* method checks whether a field is one of Mezzanine's built-in. form fields. As far as I can tell, every other usage is for the purpose. of initializing the built-in fields and widgets, so it makes sense to. exclude user-defined fields. However in this instance, we only want to know whether the field is an. EmailField, not that it is *the* built-in Mezzanine email field. Therefore, check the class rather than identity. The effective change here is that user-defined fields (in. FORMS_EXTRA_FIELDS) which subclass django's EmailField will be able to. receive confirmation emails ryneeverett
- Remove redundant assignment of request.site_id Alex Hill
- Add compatibility with the Django 1.10 MIDDLEWARE setting Samir Shah
- Added test for KeywordWidget xuryax
- Updated Test for KeywordWidget xuryax
- Add more docstrings to ContentTyped ryneeverett

- Set base ContentTyped content_model to None. Per discussion with @AlexHill in cartridge#293, content_model is the name of django's automatic OneToOneField's linking the concrete base. class inheriting from ContentTyped to it's subclasses. There is no such. field when the base class itself is instantiated, so the content_model. should be None ryneeverett
- ContentTyped.get_content_model() should return instance, not class Alex Hill
- Test admin redirects for ContentTyped models Alex Hill
- Small error documentation. I think there are a small error : fields (plural) not field Anthony
- Add some MIDDLEWARE compatibility fixes that were missing from #1660. Also change the way in which the middleware setting is determined. A statis variable will fail when settings are modified on the fly, e.g., when running tests Samir Shah
- Fix positional argument count on get_db_prep_value Jeff Cook
- Restore context vars in admin_dropdown_menu templatetag. Closes #1669 Stephen McDonald
- · Fix request context for form entries in admin Stephen McDonald
- Fix template for form entries in admin Stephen McDonald
- Fix overextends tag with cached template loader Alex Hill
- Deprecate overextends tag since Django now includes its functionality Alex Hill
- Remove some obsolete checks for Django < 1.8 Alex Hill
- Deprecate SSLRedirectMiddleware. Resolve #1600. Also, set default SSL settings to *editable=False* so they do not. display in the settings by default ryneeverett
- Move most Field functionality into abstract base class Alex Hill
- Escape comment usernames in admin list Stephen McDonald
- Move richtext filtering into a util function Stephen McDonald

Version 4.2.0 (Aug 12, 2016)

- Update collecttemplates command for 4.1. Closes #1512 Stephen McDonald
- Return correct HTTP error response if static proxy cannot find requested file Stephen McDonald
- Fix dummy homepage object in sitemap. Closes #1516 Stephen McDonald
- Fixes #1449 duplicate profile fields in admin Alex Hill
- Move template form CSS rule to grappelli-safe Alex Hill
- Removed nesting of Context objects. Inclusion tags should: * Return dictionaries, not Context objects. * Explicitly pass all needed data to their templates. * Not modify passed in Context object ideally. No code should wrap Context objects in further Context objects, as this. causes errors in some contexts Luke Plant
- Fix blog pagination due to Django 1.9 change Stephen McDonald
- Don't load user model at import time in tests Stephen McDonald
- Move misc admin related urlpatterns under /admin/ for better compatibility with SSLRedirectMiddleware. Closes #1365 Stephen McDonald
- Fix user creation with required profile fields Alex Hill
- Removed syncdb from deploy as it is no longer supported in Djangol. 9 and has been depricated since 1.7, migrate is used instead Douglas Kastle

- Use Django's native dynamic inline mechanism Alex Hill
- · Remove custom dynamic inline templates Alex Hill
- Support with i18n urlpatterns with SSL_FORCE_URL_PREFIXES. Closes #1456 Stephen McDonald
- Restore the ordering-related parts of dynamic_inline.js. We still need to use dynamic_inline.js for its custom ordering code, but we can remove everything related to dynamically adding and removing inline forms since we're now using Django's built-in mechanisms for that Alex Hill
- Remove now-unused dynamic inline templates Alex Hill
- Update Python/Django versions in documentation Stephen McDonald
- Accept either CDATA or text nodes for WordPress comments. ,. All text output is CDATA in an export from WordPress 4.4.2. It is hoped. that accepting either text or CDATA as node type will be compatible. with exports from all versions of WordPress Jeff Cook
- Changed proxy to resolve mime types using the mimetypes library for python Andrew Cassidy
- Google Chrome seems to interpret an empty response as. .content_type">https://www.chtml>.content_type to text/plain to. prevent Chrome handling it in this way Andrew Cassidy
- Changed free themes url. I have changed the URL for the free themes thecodinghouse
- Fix help text for Link page URL. The field is required, but the inherited help text says it's optional Gavin Wahl
- Add Coveralls coverage testing to CI, per #1012 ryneeverett
- Clear TEST_COLLATION deprecation warning David Sanders
- Add Federation of Egalitarian Communities Website Pavan Rikhi
- Only autofocus visible fields with Html5Mixin David Sanders
- Replace all _meta.fields with _meta.get_fields. According to https://docs. djangoproject.com/en/1.8/ref/models/meta/ to. access all the fields of the _meta object you should call get_fields(). This. is new with Django 1.8. The _meta.fields is now a property with a docstring. saying it's Private API intended only to be used by Django itself - Geoff Crompton
- Ensure csrftoken cookie is set inside nevercache tag David Sanders
- · Remove check for CSRF token before re-running CSRF middleware David Sanders
- · Add testcase for nevercache and CSRF cookie David Sanders
- Response should be marked as CSRF processing not done, not request David Sanders
- Fix unicode errors in user agent check for devices. Closes #1589 Stephen McDonald
- ModelAdmin.in_menu -> has_module_permission. Deprecate *ModelAdmin.in_menu* now that django has an equivalent method, *ModelAdmin.has_module_permission*. See. <https://docs.djangoproject.com/en/1.9/ref/contrib/admin/#django.contrib.admin. ModelAdmin.has_module_permission> ryneeverett
- Replace undocumented ModelAdmin.get_model_perms. Instead use the documented methods *ModelAdmin.has_change_permission*. and *ModelAdmin.has_add_permission* ryneeverett
- Fix tests for pyflakes 1.2.x. The warning message now includes the module name ryneeverett
- Fix selector of the _order field to make stacked inlines sortable Eduardo Rivas
- Catch TinyMCE errors when trying to save inlines. Previously this used to prevent the new _order values from being computed Eduardo Rivas
- Annotate special handling of the _order field in inlines Eduardo Rivas

- Add CSS to hide the _order field in stacked inlines Eduardo Rivas
- · Constrain content images to max width in default templates Stephen McDonald
- un-urlencode thumbnail filenames. Closes #1580 Stephen McDonald
- Clarify format of ADMIN_REMOVAL setting Stephen McDonald
- Fix: Add missing space cspollar
- Fix file name decoding from zip files in python 3. In python3, non-ascii filenames in galleries are incorrectly decoded, interpreting utf8 code points as box-drawing characters. For example, in. the demo project "Avila Spain" is incorrectly parsed as "Aüvila Spain". CP437 is a superset of ascii and the de facto standard for file names. Obviously not every valid utf-8 character is in this character set, but. a lot of tooling does not support file names with characters outside. this set anyway. If we were to encode them in a broader character set I. suspect we would get into OS-interoperability issues, so better to. forego encoding them and coerce them into valid file names. Note that this changes the behavior such that in python3, file names are. now decoded with a chardet-detected encoding. It's also notable that the latest release of chardet incorrectly. identifies the encoding, so in the demo galleries, "Avila Spain" is. incorrectly parsed as "AĚvila Spain". This is fixed in chardet master ryneeverett
- base_concrete_model: accept model class argument. Previously only model instances were accepted but now model classes can. be passed alternatively ryneeverett
- Factor custom content types out of Page. Custom content types are now implemented as Model and ModelAdmin mixins. This way they can be reused by Cartridge's Product model - ryneeverett
- Add content_typed/change_list.html include. This eliminates template duplication for the content type selector in. cartridge. Note that all jQuery events are propagated unless one of them returns. *false*, so both of our *addlist* change handlers get called. http://stackoverflow.com/questions/4379403/jquery-event-handlers-return-values ryneeverett
- Append default TEMPLATE_ACCESSIBLE_SETTINGS. This means users don't have to copy the defaults into their settings and. are protected from future changes to the settings used by internal. mezzanine templates ryneeverett
- Warn when unallowed template settings are used. Since the exception is suppressed, give a hint that the template. setting isn't allowed ryneeverett
- · dynamically set current rating if it exists Martín Gaitán
- · Remove redundant slash in urlpatterns when homepage is the blog Stephen McDonald
- Django 1.10 removed LOGOUT_URL, so provide a default Stephen McDonald
- Replace Django's deprecated AUTH_PROFILE_MODULE setting with new ACCOUNTS_PROFILE_MODEL setting Stephen McDonald
- · Remove use of NoArgsCommand, which Django 1.10 removes Stephen McDonald
- Remove content_typed namespace. content_typed.py -> models.py + admin.py. content_typed/change_list.html ->. admin/includes/content_typed_change_list. html ryneeverett
- · Restore guards against back button in page tree / content typed JS Stephen McDonald
- Fix encoding in blog feeds. Closes #1461 Stephen McDonald
- Add form media to Form pages. My use case is adding form assets to a widget used by a field included. in the FORMS_EXTRA_FIELDS setting. I don't think one should have to. override this template to do this and overextension doesn't seem to work. on content-typed templates ryneeverett
- Fail gracefully on third-party admin classes that do odd things. Closes #1628 Stephen McDonald

- Prevent bleach from stripping 'tel:' hrefs in HTML Stephen McDonald
- Fix #1438 allow multiple comment forms on a page Alex Hill
- Use call_command instead calling Command.execute() directly Alex Hill
- Fix search by hacking around Django's abstract manager restriction Alex Hill
- Allow Django 1.10 in setup.py Alex Hill
- Pass raw context dict to template.render() in error views Alex Hill
- Remove testing of dotted path for LOGIN_URL setting, since Django 1.10 doesn't support it Stephen McDonald
- Prevent Django 1.10 from adding required attribute to admin change list actions dropdown Stephen McDonald
- Replace usage of optparse with argparse Alex Hill
- Ensure blog import commands contain base args Stephen McDonald
- Add Django stable/1.10.x to test matrix Alex Hill
- Upgrade pip and setuptools before test run Alex Hill
- Restore access to parent template context in comments template tag. Closes #1654 Stephen McDonald

Version 4.1.0 (Jan 17, 2016)

- Update Python version classifiers in setup.py Stephen McDonald
- Update excluded files in package build Stephen McDonald
- Force local_settings.py into sys.modules so it's visible to Django's autoreloader Stephen McDonald
- Add the ability to use proxy in "Add," drop down. We sometimes want to use proxy models in the add dropdown, to have. different changeform being backed-up by the same model. See ce02f8afe3d42dda for more information about the "and not. m._meta.proxy" part Antoine Catton
- Improve readability by using list comprehension Antoine Catton
- Remove extraneous site permissions field. Closes #1366 Stephen McDonald
- Add to settings this: RATINGS_ACCOUNT_REQUIRED = True COMMENTS_ACCOUNT_REQUIRED = True RATINGS_RANGE = [-1, 1] and then run tests you will get about 5 errors, so i fixed tests for these settings and now they work well d-first
- Do not throw away next parameter on login. get_full_path() throws away the "next" URL parameter, breaking. vanilla Django redirection behavior. The login form should redirect. to the "next" parameter on a successful login Alexander Bliskovsky
- When the thumbnail richtext filter runs, deal with BeautifulSoup adding closing br tags, by stripping them out. Closes #1377 Stephen McDonald
- r_range deleted replaced with settings d-first
- Fix textarea fields in live-editing Stephen McDonald
- Upgrade to jQuery 1.8.3 Nik Nyby
- Upgrade jQuery UI to 1.8.24. This upgrades jQuery UI from 1.8.2 to 1.8.24, fixing. a bunch of bugs. It also changes the CSS file used for jQuery UI the v1.9. CSS was being used, so I've replaced it with the appropriate. CSS for version 1.8.24 Nik Nyby
- Upgrade jquery.form.js to 3.51.0-2014.06.20 Nik Nyby

- Fix edit overlay vertical positioning Nik Nyby
- Upgrade Bootstrap from 3.0.3 to 3.1.1 Nik Nyby
- Test on Python 2.7, Django 1.8. These are the versions I use by default, so we shouldn't need to exclude this combination Nik Nyby
- Don't use zip files Nik Nyby
- Fix TinyMCE width in live-editing Stephen McDonald
- Bootstrap 3.2.0. Continuing the effort of gradually updating bootstrap, this upgrades from 3.1.1 to 3.2.0. There's not many changes here and everything's looking okay. to me Nik Nyby
- Fix tag list padding Stephen McDonald
- Make a note about removing JS hack for site permissions field at some stage Stephen McDonald
- Update tinymce_setup.js: Django language codes. https://docs.djangoproject.com/en/ 1.8/topics/il8n/. Language codes are generally represented in lower-case, but the HTTP Accept-Language header is case-insensitive. The separator is a dash. I also noticed a warning message showing when I run 'python manage.py runserver'. it's about 'zh-tw' will be deprecated in Django 1.9, use 'zh-hant' instead. So I also add 'zh-hant'. I guess 'zh-cn' may be deprecated too. I tested 'zh-hant' and 'zh-tw' well, my tinymce editor shows hints in Traditional Chinese now. I only change the content in "var language_codes = {}" block, but github marks whole file to be changed. I don't know why - fygul
- Update frequently-asked-questions.rst. Update the link of "urls.py module" Fygul Hether
- Checking if page attribute in request is of type mezzanine.page.models.Page, before processing it pirave
- Ken is a core team member Stephen McDonald
- Add support for blogs with > 500 posts Anna Wiggins
- Replace timestamp trimming code with a more robust regex; current code broke on some timestamps returned by blogger Anna Wiggins
- · Add several new overridable blocks to the base template Anna Wiggins
- Fix and test page_processor's exact_page argument David Sanders
- · Updating disqus sso tag with working encoder pirave
- Resolve css/js Media paths using static templatetag David Sanders
- Clean up page context processor check Stephen McDonald
- Removing tox. ini since it's out of date and of course it is, we don't use it Stephen McDonald
- utils.html: HTMLParseError disappeared in Python 3.5. The HTMLParser is guaranteed not to choke on HTML soup Hervé Cauwelier
- · Add kwarg for form used in login and password reset views David Sanders
- Don't titlecase group name for ADMIN_MENU_ORDER David Sanders
- Add _parent_page_ids to global context scope. Currently if the first menu loaded is in a nested context. ' parent_pages_ids' can drop out of scope, and then never get reset since. *menu_pages* is set in *context.dicts[0]*. See https://github.com/stephenmcd/mezzanine/issues/1154 Julian Andrews
- Upgrade html5shiv to v3.7.3 Nik Nyby
- Remove unnecessary triple-quote in comment Nik Nyby

- Don't overwrite files options in mezzanine-project command. Updating the *files* option here disables the *-name* option, which I need. to render custom template files (i.e. a Makefile) when making a custom. mezzanine template for use with *mezzanine-project*. This change adds *local_settings.py.template* to the list of files to render instead. of overwriting the list completely. This allows users to specify their own template. files if necessary. Relevant django code is here: https://github.com/django/django/blob/master/django/core/management/templates.py#L56. And my mezzanine template I'm getting this to work with is here: https://github.com/nikolas/ctlmezzanine Nik Nyby
- Ensure global context variables set in page_menu template tag are actually global Stephen McDonald
- Switch to a lazy static for Media statics David Sanders
- In the admin dropdown menu, show add links to users without change permissions. This is a patch to fix the following problem: 1. Create a user with add permissions but not change permissions on a model. that is managed through the admin (e.g. blog posts). 2. Log in as that user in the admin site. 3. Click on the name of the model in the dropdown menu on the left. 4. Error. The problem arises because the template uses the admin_url instead of the. add_url for users without appropriate permissions to change instances of the. model. It then tries to remedy the situation by manually appending 'add/' to. the url. However, the url it receives from the template tag admin_url is set. to 'None' Pieter
- Fix for is_spam_akismet to handle Python 3's bytestring response properly Christian Hill
- Handle None as content_type subclass without breaking Sam Kingston
- Restore login redirects on ratings/comments. Closes #1440 Stephen McDonald
- Check for FORMS_USE_HTML5 on the admin instead of the model. Fixes #1399 Eduardo Rivas
- Removing duplicate profile fields from admin. Issue #1449 Danny Sag
- Document errors_for and update fields_for docs. The fields for template path and type are out of date. Document errors_for since it adds a lot of value to fields_for ryneeverett
- Add references to api-docs. This will add links to documentation generated from the source Tomas Chmelevskij
- Added mezzanine-shortcodes to third-party apps Stephen McDonald
- Don't strip HTML in TinyMCE. Because filtering is handled by bleach. Reimplement 0f6ab7c ryneeverett
- Recommend using includes/footer_scripts. This is how it's done in the default templates but docsreaders probably. aren't going to know that they're already calling *editable_loader* via. an include - ryneeverett
- Add support for Python 3.5 in trove classifiers and travis build Sam Kingston
- Add a setter for property MenusField.choices. Django 1.9's CharField.choices is just a regular attribute, no longer a. property. Its constructor tries to set a value, and since we weren't. providing a setter, we'd hit an exception Alex Hill
- Update project template to use TEMPLATES Alex Hill
- Suggest using TEMPLATES in set_dynamic_settings Alex Hill
- Replace SortedDict with OrderedDict Alex Hill
- Drop support for Django 1.7 Alex Hill
- Drop Python 3.3 support Alex Hill
- Don't use OrderableBase in 1.9. Django 1.9 supports ordering with respect to generic foreign keys, which makes OrderableBase no longer necessary Alex Hill
- Update Django & Python versions in setup.py Alex Hill
- Import skipUnless from Python's unites Alex Hill

- · Fix saving related objects in tests Alex Hill
- Don't use removed Field.get_flatchoices() Alex Hill
- Remove check for page context processor in PageMiddleware Alex Hill
- Remove LazyModelOperations. Django now provides lazy model signals which accept model strings and. render this class redundant Alex Hill
- Update flake8 configuration to match Django's Alex Hill
- Refactor EXTRA_MODEL_FIELD code. Break into a few smaller functions, and use Apps. lazy_model_operation.instead of class_prepared signal Alex Hill
- Remove usage of SubfieldBase Alex Hill
- Revert "Don't use OrderableBase in 1.9". This reverts commit 54d900776a2c7412cdacd7b5a6a4af44affac869 Alex Hill
- Remove complexity check from flake8 config. This wasn't being honoured by the lint test before, so causes several. failures when enabled. We can add it again later and refactor those. functions if necessary Alex Hill
- Bring docs/conf.py into line with flake8 Alex Hill
- Restore but deprecate Mezzanine's get_user_model(). This wasn't actually defined before, simply imported from Django. We. define it here in order to provide a deprecation warning for anybody. importing it from this file Alex Hill
- Make EXTRA_MODEL_FIELDS work in 1.8 again Alex Hill
- Add a footer_js block in templates Alex Hill
- Fix usage of TemplateResponse Alex Hill
- Account for middleware subclasses in cache_installed() Alex Hill
- Remove "builtins" from TEMPLATE options in Django < 1.9 Alex Hill
- Can't use add() with bulk=False in Django 1.8 Alex Hill
- · Formalise template tests with checks framework Alex Hill
- Fixed #1483 ValueError while parsing dates of imported Blogger posts Daniel Blasco
- missing french messages for accounts, compiling .mo file flo@mymedecine.fr
- Move SingletonAdmin to utils. Resolve #1480 ryneeverett
- Add classes to app_list in admin. This provides a hook for model specific styling, and mirrors what Django. itself does. See: https://github.com/django/django/blob/ 5399ccc0f4257676981ef7937ea84be36f7058a6/django/contrib/admin/templates/ admin/index.html#L23 Julian Andrews
- Catch error if user sitepermissions don't exist. For the most part, if not using *SitePermissionMiddleware* Mezzanine. falls back on the *is_staff* attribute seamlessly. But since. d5d21ba527bd4 it's possible to have users without sitepermissions. This. breaks the admin dropdown, but not much else. This fix should allow. single site projects to continue to leave *SitePermissionMiddleware*. uninstalled - Julian Andrews
- Fall back to title field first before using string rep for meta title Stephen McDonald
- Give the media library a root URL so it can be correctly highlighted in the admin nav. Closes #1505 Stephen McDonald
- Only add debug toolbar urlpatterns if installed Stephen McDonald
- Support admin classes registered via decorator. Closes #1462 Stephen McDonald

- Fix some more cases of related managers requiring saved data in Django 1.9 Stephen McDonald
- · Remove redundant slashes in blog urlpatterns Stephen McDonald
- Update from deprecated features of urlpatterns Stephen McDonald
- Remove use of deprecated get_all_field_names() Stephen McDonald
- Remove deprecated use of i18n_patterns() Stephen McDonald
- Remove deprecated middleware names Stephen McDonald
- Fix admin login interface selector Stephen McDonald
- · Fix slashes in blog urlpatterns Stephen McDonald
- Create links to settings mentioned in the comments. Adds labels to the settings.rst files which can be used accross the. documentation to to link to their description Tomas Chmelevskij
- Remove deprecated category/keyword helpers on blog posts, which existed for Django 1.3 Stephen McDonald
- Remove Django 1.7 support from overextends templatetag Stephen McDonald
- Remove a bunch of Django 1.7 handling from tests Stephen McDonald
- · TEMPLATES is a list of configurations ryneeverett
- django.core.context_processors->django.template,. RemovedInDjango110Warning: django.core.context_processors is deprecated in favor of django.template. context_processors-ryneeverett
- string url views -> callable url views. RemovedInDjango110Warning: Support for string view arguments to url() is deprecated and will be removed in Django 1.10, Pass the callable instead ryneeverett
- Fix user profile signal handler Stephen McDonald
- Restore profile form fields Stephen McDonald

Version 4.0.1 (Jul 26, 2015)

- · Prompt for user creation in createdb command if interactive Stephen McDonald
- Fix #1351 exception in displayable_links_js Alex Hill
- Use Django's createsuperuser command when createdb is run in interactive mode Stephen McDonald
- Fix some Django 1.9 warnings Stephen McDonald
- Remove references to long deprecated PAGES_MENU_SHOW_ALL setting Stephen McDonald
- · Locale middleware should fall after session middleware Stephen McDonald
- Set up debug toolbar explicitly when installed. Closes #1358 Stephen McDonald
- · Restore support for alternate package option in mezzanine-project command Stephen McDonald
- Fix for issue #1361 backup command fails when called from deploy Luke Plant
- Use 'exec' instead of import to add local_settings. This allows local_settings to reference and modify existing settings. Refs issue #1360 Luke Plant

Version 4.0.0 (Jul 09, 2015)

- Strip punctuation from keywords instead of non-alphanumeric chars, since languages like Hindi use characters that Python doesn't consider to be alphanumeric Stephen McDonald
- Unpin tzlocal version 1.0 Alex Hill
- Update tinymce setup to use browsers' built in spell checking. Tested and works in latest FireFox and Chrome and Safari joshcartme
- Support custom user models in admin password change view. Previously it was assumed that the user's pw change view is at "auth/user/(d+)/password/", which caused NoReverseMatch with custom models Rivo Laks
- Fix admin password change for Django 1.5 Stephen McDonald
- Support Django 1.7 migrations Baylee Feore
- Don't remove south when USE_SOUTH isn't defined Stephen McDonald
- Use is_staff to check for logged in user in base admin template. Closes #1114 Stephen McDonald
- beautifulsoup version should not be pinned exactly. There's no need to require exactly 4.1.3 Gavin Wahl
- Added brackets for Python 3 print() Tuk Bredsdorff
- Handle malformed user agent strings. Closes #1116 Stephen McDonald
- Configure SOUTH_MIGRATION_MODULES setting to check for custom south migration packages Stephen McDonald
- Move south_migrations -> migrations/south Stephen McDonald
- Added *The Entrepreneurial School <http://theentrepreneurialschool.com/>* to site using Mezzanine Renyi Khor
- Fix DoesNotExist when non admin visits /admin. SitePermission objects are only added when staff users are created. If a non admin user (with no manually assigned site permissions) visits the admin a DoesNotExist is raised since no site permissions exist for the user. Therefore the templatetags logic should only run if the user is staff joshcartme
- Exposed JQUERY_UI_FILENAME for templates wrwrwr
- wordpress export is under Tools, not Settings Gavin Wahl
- Renamed all get_query_set methods to get_queryset. Django 1.6 normalized the naming, providing a metaclass that handles. previous naming schemes, while printing a warning. See: https://code. djangoproject.com/ticket/15363. This is probably incompatible with 1.5, but limits the amount of. Django 1.8 deprecation warnings - wrwrwr
- Explicitly list fields when defining form from model. This only changes one test ("test_richtext_widget"), but here's a. short article that may explain why fields or exclude becomes. mandatory argument to modelform_factory and why you actually may. want to explicitly list fields to be available in forms: http://blog.mhartl.com/2008/09/21/mass-assignment-in-rails-applications/ wrwrwr
- Unfrozen future, pep and flakes. If the reason to keep these at some fixed old versions still exists, please add a comment wrwrwr
- Let sqlite configuration not contain a NAME at all (as with some settings environments) wrwrwr
- Resolve race condition in conf.settings Alex Hill
- Fixed a couple of block comments not starting with hash and space wrwrwr

- List form fields (as recommended) to preserve compatibility with 1.5. The "__all__" shortcut must be past-1.6 only wrwrwr
- Fixed test_login_required when run without mezzanine.accounts. Note 1: Always testing both scenerios no matter what's in the settings. would be thorough, but without something like the 1.7+ modify_settings. it turns out ugly. It would be better to run the whole suite with and. without some optional apps. Note 2: This test passes when run through runtests, but it cheats. by forcing mezzanine. accounts into installed apps ;-) wrwrwr
- Allow Mezzanine's static files handling to support MEDIA_ROOT outside of STATIC_ROOT during development - Stephen McDonald
- Don't colorize the terminal banner if color sequences aren't supported Stephen McDonald
- Cleaned up in_menus defaults test. Making use of the runtime settings changes support wrwrwr
- Added failing settings race condition test Alex Hill
- Simpler fix for race condition in settings Alex Hill
- · Reorder and add comments to settings test Alex Hill
- Overwrite settings cache when loading from DB Alex Hill
- Clear DB settings after test run Alex Hill
- Made forms tests use Mezzanine's TestCase. Not currently necessary, but potentially surprising if you add something. to the TestCase wrwrwr
- Added a simple decorator defining get_query_set or get_queryset. allowing to use the latter one while preserving compatibility with 1.5. Django (1.6+) uses a metaclass to allow usage of the former name after. renaming a method (django.utils.deprecation.RenameMethodsBase), but. for the 2 cases in Mezzanine a decorator seems sufficient and less. intrusive wrwrwr
- Replaced usage of Options.get_(add|change|delete)_permission with. auth. get_permission_codename. Just a single case in utils/views.py. The former one is deprecated and will be removed in Django 1.8; see. https://code.djangoproject.com/ticket/20642 wrwrwr
- Added an 1.5-compatible implementation of get_permission_codename wrwrwr
- Made MenusField respect the current value of PAGE_MENU_TEMPLATES_DEFAULT wrwrwr
- Small semantic change in MenusField behavior, now in_menus returns an. empty tuple instead of None for a page not in any menu. This seems more consistent with PAGE_MENU_TEMPLATES_DEFAULT = tuple() wrwrwr
- Made MenusField also support dynamic changes to PAGE_MENU_TEMPLATES. This costs a call to a private Field._get_choices(), because. Field.choices is already a property wrwrwr
- Extended the test_login_required to check if LOGIN_URL set to view or. pattern name still allows the decorator to work as expected. The new cases are only checked if mezzanine.accounts is installed. These additional LOGIN_URL possibilities were introduced in 1.5; view. objects should also work, but don't seem to be documented wrwrwr
- Don't test the new options with 1.4, it's not supposed to support them wrwrwr
- Prevent duplicate app names when testing Stephen McDonald
- Extend renamed_get_queryset to also support admin classes, and apply to OwnableAdmin Stephen McDonald
- set_slug now save itself Dustin Broderick
- set_slug now saves itself Dustin Broderick

- Remove the requirement for searchable models to subclass Displayable Stephen McDonald
- Handle installing initial data with Django 1.7's syncdb signals. Closes #1123 Stephen McDonald
- Remove redundant page save in slug tests Stephen McDonald
- Slightly faster settings loader Stephen McDonald
- Fix some docstrings and messages Stephen McDonald
- · Actually skip the threading test as expected Stephen McDonald
- Fix version check in post_syncdb signals Stephen McDonald
- Added description of "label" keyword argument of register_settings. function to docs eyeinthebrick
- Cache site ID on request object, even when fallback setting is used. Closes #1144 Stephen McDonald
- Fix site ID fallback when testing Stephen McDonald
- separate basic gallery functionality. to be more flexible with creating galleries we can separate gallery. functionality so it can be reused if developer wants to create a. gallery but not necessarily a gallery page - Robert Zywucki
- · Added a test for DynamicInlineAdmin wrwrwr
- Allow DynamicInlineAdmin fields to be a tuple. Previously, if fields was defined as a tuple, a very confusing TypeError. would be raised Rocky Meza
- Travis test the latest versions of Django. This way you don't have to update every time a security release comes. out - Rocky Meza
- Re-instate conf test as per recent threading fixes. Closes #858 Stephen McDonald
- Return HTTP 405 on comment/rating URLs for GET requests. Closes #1159 Stephen McDonald
- · Fix Travis Django installation Rocky Meza
- Shamelessly modified the dynamic admin fields tuple test, so it checks. get_fieldsets() instead of directly using the fields attribute. Also made BaseDynamicInlineAdmin work when fields are listed without. the _order field or fieldsets are declared (with or without it) - wrwrwr
- · SiteRelated changed to allow explicit site assignment on creation Kelvin Wong
- Made "flake8." output less warnings. Excluded docs/conf.py as its autogenerated by Sphinx and increased. acceptable complexity from 10 to 20 wrwrwr
- · Allowed optional apps to be loaded for testing wrwrwr
- Separated generation of short_urls from their saving wrwrwr
- include menu pages in broader context. issue #1154 Eduardo S. Klein
- Refactored confirmation prompts in createdb, create_pages and collecttemplates wrwrwr
- · Factored out deleting unused keywords as a manager method wrwrwr
- Removed django_extensions from INSTALLED_APPS for testing wrwrwr
- Fixed pages.test_login_required with I18N / LocaleMiddleware wrwrwr
- Fixed core.test_password_reset with i18n_patterns wrwrwr
- Use the response context during two-phase rendering. If a response has *context_data* use that instead of creating a new. context and running context processors again David Sanders
- Fix for using response context_data David Sanders
- Remove call to set_model_permissions in page admin Alex Hill

- Backout context processor changes to cache middleware for now, re #1174 Stephen McDonald
- Prevent order setting vs. form submission race condition. If the js runs slow for any reason the admin form can submit before the order of inlines has been set joshcartme
- Create new model field OrderField Alex Hill
- OrderWidget.is_hidden should evaluate False Alex Hill
- Update orderable ordering to use the submit event. It seems that the click event may not be guaranteed to run in FireFox before the form actually submits. This may be due to a variety of factors including the version of jQuery but for now switching to the submit event solves the problem joshcartme
- Fixed spelling of 'collapsed' Stone C. Lasley
- Refactored all the initial data setup to only occur when the createdb command is used, since Django 1.7's migrations no longer provide a signal that can reliably trap when tables are created Stephen McDonald
- Added migrations for changed _order field Stephen McDonald
- Host the dashboard screentshot in the docs so it can be correctly referenced on github Stephen McDonald
- Fix docs build for Django 1.7 Stephen McDonald
- Fix for brocken link Krzysztof Szumny
- Fix optional data installation for non-interactive installs Stephen McDonald
- Don't store absolute urls as short urls in the db, since the column length is shorted, and these aren't necessairly permanent either. Closes #1178 Stephen McDonald
- Refactored the fields_for templatetag to allow for custom field template Avery Laird
- nginx conf: use Mozilla recommended ciphers. For the included nginx.conf, use the ciphersuite recommended by the Operations. Security team at the Mozilla project: https://wiki.mozilla.org/Security/Server_Side_TLS. The ones included here are the ones labelled "Intermediate compatibility". They. also document a ciphersuite with a higher level of security on that page. labelled "Modern compatibility", though it excludes more older browsers Lorin Hochstein
- Updated the js in footer_scripts.html to handle universal analytics Avery Laird
- Convert relative URLs to absolute in RSS feed item descriptions. Closes #1193 Stephen McDonald
- Fix 500 error when the 'comment' view function doesn't receive expected form data Christian Abbott
- Filenames in ZIP not always UTF-8. Fixing this with chardet Souren Araya
- Don't assume INSTALLED_APPS is all modules as Django 1.7 adds AppConfig Frankie Robertson
- Replace django.contrib.comments with django_comments. Django has removed the comments app from django.contrib, and. moved it into an external django-contrib-comments package hosted. under the Django GitHub organisation Alex Hill
- Test up to Python 3.4 and Django up to 1.8 Alex Hill
- Test with Py 3.4, Django 1.7 and default runners. Update .travis.yml config to run tests under Python 3.4 and Django 1.7. Future-proof the test script to work with both default test runners: DjangoTestSuiteRunner pre-1.6, and DiscoverRunner in 1.6 and later. Under DiscoverRunner, the django.contrib tests won't be run Alex Hill
- Enable SHA1 hasher for happy Django 1.4 tests Alex Hill
- Miscellaneous backwards-compatible 1.8 fixes. Includes changes to Meta, some moved functions and various internal API. changes Alex Hill

- Accommodate Django 1.8's template system changes. Django 1.8 introduces the possibility of using multiple template. engines, which means that some components of Django's template system. have been encapsulated in an Engine class instead of being available. globally, and other parts refactored and moved around Alex Hill
- Remove Django 1.4 and 1.5 from .travis.yml Alex Hill
- No need to enable SHA1 hasher in tests > 1.4 Alex Hill
- Remove mezzanine.utils.models.get_user_model. This was introduced for compatibility with Django 1.4 after Django 1.5. included support for custom User models. Now that we no longer support. Django 1.4, we can just use the builtin version. Still need to remove references in filebrowser, so the import remains. in mezzanine.utils.models Alex Hill
- Remove shims for force_text and smart_text. Not necessary since dropping support for Django 1.4 Alex Hill
- Deleted mezzanine/utils/deprecation.py. This contained compatibility fixes for Django < 1.6, which we no longer. support Alex Hill
- Remove miscellaneous BC fixes for Django < 1.6 Alex Hill
- Use get_models from django.db.models.loading Alex Hill
- Bump required Django version to > 1.6.0 Alex Hill
- Import local_settings.py before test run Alex Hill
- Restore previous behaviour in runtests script use the local_settings template to create test_settings, not an actual local_settings module, which may already exist during development Stephen McDonald
- Use south's test command, which is needed to pick up our custom values for SOUTH_MIGRATION_MODULES Stephen McDonald
- Some envs don't create pyc files Stephen McDonald
- Allow local_settings import when project isn't a package Stephen McDonald
- Some path hacks during development to allow tests to be picked up when calling the test command via manage. py Stephen McDonald
- KeyError when excluding first_name, last_name, and username fields using ACCOUNTS_PROFILE_FORM_EXCLUDE_FIELDS and ACCOUNTS_NO_USERNAME settings rsadwick
- Fix handling blank first/last names in username creation Stephen McDonald
- · Fix bug with missing scope in atexit registered function in test runner Stephen McDonald
- Update views.py. clean the cookie rating record after an auth user undoing his/her rating Yuheng QIU
- Exclude commit messages with 3 words or less from the changelog Stephen McDonald
- · Using Tabbed admin instead of showing all fields at once Mathias
- Delete cached context settings on settings update. With editable settings it is best to invalidate the context settings. cache key when settings have been changed via the admin panel so that. they can take effect immediately - David Sanders
- Added site ID back to settings cache key prefix David Sanders
- pip can't seem to install Django 1.8 from a zip file on Python 2.7 Stephen McDonald
- Fallback lookup for current page should exclude link pages, since they may contain duplicate slugs. Closes #1220 Stephen McDonald
- Update docs and add mini-tutorial in Deployment section Eduardo Rivas

- Handle new app-loading mechanism for Django 1.7 in fabfile. See https://docs.djangoproject. com/en/1.7/releases/1.7/#standalone-scripts - Eduardo Rivas
- Add documentation about using AppConfigs in INSTALLED_APPS and defaults.py Frankie Robertson
- Added exception handler for make_dirs() function call in thumbnail() template tag Alex Bendig
- Fix error raised when twitter lib is installed, but mezzanine.twitter is removed from INSTALLED_APPS Stephen McDonald
- Update multi-lingual.rst for spelling/grammar Ryan Sadwick
- Show Links to Code in Package Documentation. Refs #1148 Pavan Rikhi
- Account for cartridge.shop being after mezzanine.pages in the template rendering pipeline. Also enable nested {% ifinstalled %} tags Mathias
- Twitter: Fix parsing of email addresses as Twitter usernames Eduardo Rivas
- Added setting to allow custom forms for submitting comments. Handy for common requests from people such as adding captchas. Easiest way is to create a new form class that inherits from ThreadedCommentForm then specify that class in the new setting Paul Hunt
- Import WordPress draft posts correctly Jan Varho
- Don't consider proxy models a content model. Otherwise we'll try to use them with select_related, which is not. supported Gavin Wahl
- Remove all support for South in favour of Django >= 1.7 migrations Stephen McDonald
- Remove all support for Django < 1.7 Stephen McDonald
- Add option for thumbnails to not grow in size. Add the *no_grow* option to the thumbnail template tag, specifying. whether a thumbnail is allowed to grow in size when resizing to a given. width or height - Simen Heggestøyl
- Fix createdb to work with Django 1.7 and 1.8. Django 1.8 changed the way optional args are added to management commands. This patch adds optional args "the old way" for Django 1.7 in *Command*.__init__, and then uses "the new way" for Djagno 1.8, which is via a call to the new class method *add_arguments()* Eduardo Rivas
- Check for valid Python package name format in mezzanine-project command. Closes #1248 Stephen McDonald
- Add SECRET_KEY to docs config which fixes broken rtd builds Sam Kingston
- Attempt to fix path issue in rtd environment Sam Kingston
- Set CurrentSiteManager.use_in_migrations = False Alex Hill
- Migrations for Django 1.8 Alex Hill
- Fix overextends tag for Django 1.7 & 1.8 Alex Hill
- Compile all new Spanish locale Eduardo Rivas
- Initial project layout update Alex Hill
- Allow project template's local_settings.py into repo Alex Hill
- Explicitly set email field max_length to 254 Alex Hill
- Make updated project template work with local_settings.py.template Alex Hill
- Restore ".template" suffix in test script Alex Hill

- Django changed Model._meta.get_parent_list() to return a list instead of a set! This fixes it Stephen McDonald
- · Change field on site permission model as per Django warning Stephen McDonald
- · Add mezzanine-modal-announcements to third party modules Josh Cartmell
- change redirect to be permanent, which is how Django does it Darius
- Change way PostgreSQL version is displayed orotau
- Fix import error with latest django-contrib-comments Stephen McDonald
- Fix various import warnings for Django 1.9 Stephen McDonald
- Use a consistent version of jquery-ui Stephen McDonald
- Add the featured_image as an enclosure to the rss feed. Add the featured image to the rss feed as an enclosure url, so that it can be used by feed readers. For example Zapier RSS to Facebook to use as the Post Image Michael Best
- Restricted support Django versions to < 1.9 Stephen McDonald
- Prefetch blog categories in RSS feed Stephen McDonald
- Ensure host for the current site is used in RSS feeds Stephen McDonald
- Handle parent comment ID in duplicate comment check. Closes #1286 Stephen McDonald
- · Added mezzanine-slideshows to third-party apps Stephen McDonald
- Updated email address for security issues Stephen McDonald
- Fix edge case where mezzanine.accounts code is run even though not installed (generated docs, some alternate test run setups), and the ACCOUNTS_PROFILE_FORM_EXCLUDE_FIELDS isn't defined Stephen McDonald
- · Added mezzanine-onepage to third-party apps Stephen McDonald
- Ensure consistent related_model attribute throughout django fields Mathias
- Keep compatibility with django 1.7 for generic.fields.BaseGenericRelation Mathias
- Ensure front-end language selector is always visible Stephen McDonald
- · Switch forms admin to use the object-tools-items block in template David Sanders
- Add some space between the filter-horizontal admin widget and its help text Stephen McDonald
- Move default button text for forms app from model into template Stephen McDonald
- · Fix double-escaping of HTML in settings admin form field help text Stephen McDonald
- Define correct JS media for settings admin form class Stephen McDonald
- Ensure mezzanine.accounts is available when generating settings docs Stephen McDonald
- Allow protocol to be omitted from URL arg in import_rss command Stephen McDonald
- Fix mysql/unicode issue on saving Link pages Stephen McDonald
- Use Django language code to configure language for TinyMCE Stephen McDonald
- Remove automatic selection of site permission for staff users, since it breaks when manually choosing them in the admin interface Stephen McDonald
- Updating documentation to account for the switch between South and Django's builtin migration tools Mathias
- Updating multi-lingual documentation to add a note on migrations Mathias

- Update model-customization.rst. Small grammar changes orotau
- Restore support for the ADMIN_REMOVAL setting. Closes #1313 Stephen McDonald
- Don't assume ADMIN_REMOVAL setting is defined Stephen McDonald
- Added optional extra_context to applicable views David Sanders
- Add index on publish_date Frankie Robertson
- Ensure emptyish page titles in admin tree are clickable. Closes #1321 Stephen McDonald
- Smarter handling of editable settings Alex Hill
- Make use_editable backward compatible Alex Hill
- Use clear_cache in tests Alex Hill
- Remove calls to Settings.use_editable() Alex Hill
- Make setting context processor lazy Alex Hill
- Make Settings object more opaque WRT the current thread Alex Hill
- · Remove context settings caching Alex Hill
- Show repr of setting values in warning Alex Hill
- Add a few settings tests Alex Hill
- Don't require Settings.clear_cache() outside of a request Alex Hill
- · Test conflicting settings warning Alex Hill
- Refactor settings retrieval logic Alex Hill
- · Clear request settings cache when settings saved Alex Hill
- · Handle updated project layout in fabfile Alex Hill
- Handle updated project layout in supervisor.conf Alex Hill
- Update settings.py for new project layout Alex Hill
- Fix URLs during tests Alex Hill
- · Stop server before dropping database Alex Hill
- Fix paths in settings Alex Hill
- More refinements to fabfile Alex Hill
- Give all deploy files the .template extension Alex Hill
- Add utility function real_project_name Alex Hill
- Use real_project_name in fabfile.py Alex Hill
- Use real_project_name in manage.py Alex Hill
- Add missing blank line Alex Hill
- Use real_project_name in wsgi.py Alex Hill
- Use unicode paths in project template handling Alex Hill
- Add missing trailing bracket Alex Hill
- Add BASE_DIR to settings Alex Hill
- Don't use DB settings at import time Alex Hill

- Update settings docs to reflect removeal of use_editable Stephen McDonald
- Fix doc generation for new project template layout Stephen McDonald
- Update jquery to 1.7.2, jquery-mobile to 1.2.1. In an effort to gradually bring mezzanine's javascript up to date, this commit updates mezzanine's default jquery version to the. latest in the 1.7.x series (which is 1.7.2). Because the 1.7.2 release notes state that this version. should be used with jQuery Mobile >= version 1.1, I've updated. jQuery Mobile as well. http://blog.jquery.com/2012/03/21/jquery-1-7-2-released/ Nik Nyby
- Prefer published date over updated date in RSS importer. Closes #1329 Stephen McDonald
- Fix manually assigned template settings, such as MEZZANINE_ADMIN_PREFIX Stephen McDonald
- Fix host themes when current site does not match domain, eg when selected via admin. Closes #1327 Stephen McDonald
- Ensure local middleware installed if required Stephen McDonald
- · Change next release numbering in warning message Mathias Ettinger
- Upgrade to TinyMCE 4. Closes #705 Stephen McDonald
- Refactor dynamic inline handling. Fixes a bug where Mezzanine would delete inline rows even when its. inlines weren't being used Alex Hill
- Correctly handle GRAPPELLI_INSTALLED and ADMIN_MENU_COLLAPSED Alex Hill
- · Amend file location for local settings when advising on contribution Stuart Dines
- admin: use apps config verbose_name for display gradel
- TinyMCE 4.2 -> 4.1 due to image insertion conflict Stephen McDonald
- Don't show draft blog posts under related posts Stephen McDonald
- Ensure link pages only allow external URLs. Closes #1342. Closes #1345 Stephen McDonald
- Revert changes to Link model validation Stephen McDonald
- · Clean leading/trailing slashes from page admin slugs Alexander Bliskovsky

Version 3.1.10 (Aug 30, 2014)

- Delete kwargs for page_view. This is strange, pass *view_kwargs* form some view to page_view. I have error if kwargs contin *slug* key or some keys with not exists in page_view kwargs Pahaz Blinov
- South should not be used for Django 1.7 Stephen McDonald
- Added mezzanine-bsbanners to third party apps Stephen McDonald
- Clean up some docstrings Stephen McDonald
- For dropdown fields in the forms builder app, use the placeholder text to provide an empty first choice Stephen McDonald
- Add a custom banner to Mezzanine's runserver command, showing a logo and various software versions Stephen McDonald
- Handle new management command loading order in Django 1.7, so we can override runserver Stephen Mc-Donald
- Make the setuptools test runner part of the mezzanine package so that we can call it from other packages (such as cartridge). Also make its local_settings module more dynamic Stephen McDonald

- Remove working directory hack from bundled manage.py conflicts with Django runserver's auto-reloader when run from outside of project root Stephen McDonald
- Updated development instructions for setting up Mezzanine when contributing Stephen McDonald
- Update to latest patch versions of Django in travis config Stephen McDonald
- Better explansion example in dev setup docs Stephen McDonald
- A test for the login_required property has been added Ulrich Wagner
- A more complete test for the login_required property Ulrich Wagner
- Don't apply a zindex to h1 tags in admin, since it conflicts with date picker widgets. Closes #1087 Stephen McDonald
- Raise 404 in page view if page is not an exact match. Closes #1090 Stephen McDonald
- Add unique constraint to site perm model. Closes #1089 Stephen McDonald
- Provide a more meaningful exception message when the SEARCH_MODEL_CHOICES settings points to missing models Stephen McDonald
- · Run page processors before view in PageMiddleware Alex Hill
- Only run page processors for Mezzanine's page view Alex Hill
- Update models.py. This fixes day light saving issue. It seems that created_at is coming with timezone 0000 UTC, so I would like to make ti timezoneaware using just utc. Django templates shows datetime ok with timesince without one hour error eino-makitalo
- · Fix login required test for protected page Stephen McDonald
- Fix dynamic INSTALLED_APPS in setuptools test runner Stephen McDonald
- · Remove non-ascii chars from comment Stephen McDonald
- · Better approach for test settings Stephen McDonald
- Issue 1102 fixed UnicodeEncodeError when importing non-ascii files from zip Maciej Szulik
- Fix local_settings import error check for Python 3 Stephen McDonald

Version 3.1.9 (Jul 12, 2014)

- Nicer error message when register_setting is called with editable and no default Stephen McDonald
- In thumbnails richtext filter, use built-in HTML parser with BeautifulSoup to better preserve original markup Stephen McDonald
- Bail early in thumbnails richtext filter if MEDIA_URL isn't used Stephen McDonald

Version 3.1.8 (Jul 10, 2014)

- Support custom User model in AdminLoginInterfaceSelectorMiddleware Rocky Meza
- Fix call to get_model in search view Stephen McDonald
- · Add test for the search view Stephen McDonald

Version 3.1.7 (Jul 06, 2014)

• Fix twitter query encoding - Stephen McDonald

Version 3.1.6 (Jul 05, 2014)

- Stricter child page lookup when parent slug is updated. Fixes #1045 Stephen McDonald
- In thumbnails richtext filter, maintain markup that html5lib deems belonging in a head tag, and fix any script tags that have been self-closed Stephen McDonald
- In front-end editing, handle widget overrides not existing when FORMS_USE_HTML5 is False Stephen Mc-Donald
- Remove some redundant encoding/escaping from Twitter queries, and handle some MySQL unicode warnings Stephen McDonald
- Fix regression in generic signal handling in Django 1.7 Alex Hill
- Initial refactor of profile support for Django 1.7 Alex Hill
- LazyModelOperations can wait on multiple models Alex Hill
- Add trailing newline to accounts/models.py Alex Hill
- Allow 'app_label.ModelName' passed to get_model() Alex Hill
- Fail early with invalid lazy model names Alex Hill
- Use get_profile_for_user() in profile signal handler Alex Hill
- Use ProfileNotConfigured in profile functions Alex Hill
- Use ProfileNotConfigured in accounts/admin.py Alex Hill
- Update accounts tests to use ProfileNotConfigured Alex Hill
- Use get_profile_fields_form() rather than importing Alex Hill
- Fix return statement in accounts_tags.profile_fields() Alex Hill
- Fix dependency: oauthlib is used Melvyn Sopacua
- Replace html5lib with BeautifulSoup in thumbnails richtext filter, to preserve original HTML. Closes #1056 Stephen McDonald
- In thumbnails richtext filter, only resize images uploaded to MEDIA_URL. Closes #1058 Stephen McDonald
- Use beautifulsoup4 for Python 3 support Stephen McDonald
- · Added mezzanineopenshift to third-party apps Stephen McDonald
- Remove distutils version checking code which doesn't work with strings in versions Stephen McDonald
- Allow alternate settings module when building docs. Closes #1062 Stephen McDonald
- Remove redundant encoding. Closes #1063 Stephen McDonald
- Redundant forms admin attribute Stephen McDonald

Version 3.1.5 (Jun 09, 2014)

- Small css fix for settings admin page Mario Rosa
- Check if django.contrib.admin is in INSTALLED_APPS. Make sure django.contrib.admin is in INSTALLED_APPS before moving. it to the end of the list. Adding this enables moving admin app. on a different domain Dovydas Stepanavicius
- Add language selector in the navigation bar Mathias Ettinger
- Generate slug from title for default language instead of active one Mathias Ettinger

- rtl: fix margins in admin Ahmad Khayyat
- Fix ID check in admin_page_ordering view to prevent some redundant queries Stephen McDonald
- Revert bad get_FOO_display change. Closes #1032 Stephen McDonald
- Don't strip quotes from twitter template tag args which was only needed in early Django versions. Closes #1034 Stephen McDonald
- Remove global signal handlers in mezzanine.generic. Fixes #1036 Alex Hill
- Implement a new can_move dynamic page permission. Content types can override can_move() to control whether a given page. move in the page tree is permitted. can_move() should raise a. PageMoveException if the move is denied. PageMoveException takes a. single argument: a message explaining the reason for the denial Ahmad Khayyat
- page tree: reload on move exception to revert the tree and display any messages Ahmad Khayyat
- Move LazyModelOperations into mezzanine.utils.models Stephen McDonald
- Added mezzanine.utils.html.thumbnails to RICHTEXT_FILTERS setting, which converts images within richtext fields into thumbnail references. Closes #567 Stephen McDonald
- · CSS fixes for send to twitter admin checkobx Stephen McDonald
- Document the can_move dynamic permission Ahmad Khayyat
- Faster admin left-hand menu animation Stephen McDonald
- · Show featured images in recent blog posts section Stephen McDonald

Version 3.1.4 (May 05, 2014)

- · Remove previous cached build dir when creating wheel builds Stephen McDonald
- Explicitly close db connection in poll_twitter command Stephen McDonald
- Remove deprecated Debug Toolbar configuration. DEBUG_TOOLBAR_CONFIG.INTERCEPT_REDIRECTS has been deprecated. In fact, the Redirect panel is now disabled by default, so we don't need to define the setting any more. Deprecation notice: http://django-debug-toolbar.readthedocs.org/en/latest/changes.html#deprecated-features. New default value: http://django-debug-toolbar.readthedocs.org/en/latest/configuration.html#toolbar-options-Eduardo Rivas
- Bypass streaming responses in cache middleware. Closes #1020 Stephen McDonald
- Django 1.7: avoid trying to load user model during startup for profile signals Stephen McDonald
- Support pre/post Django 1.7 CurrentSiteManager Stephen McDonald
- Change handling of multiple versions of password reset urlpattern format to work with Django 1.7 Stephen McDonald
- Django 1.7: fix exception handling when testing for slugs or app/model names in page processors Stephen McDonald
- Django 1.7: fix initial site creation, in 1.7 the default site already exists Stephen McDonald
- Django 1.7: fix admin formfields for generic relations, thanks to @loic84 Stephen McDonald
- added get_XXX_display() to MultiChoiceField slavOnic
- Only abort second phase cache render for non-200 http status when DEBUG is enabled Stephen McDonald
- Bump grappelli-safe version to 0.3.10 Stephen McDonald

Version 3.1.3 (Apr 25, 2014)

- Fix regression in page middleware on non TemplateResponse responses Stephen McDonald
- · Revert change to javascript location in default templates Stephen McDonald

Version 3.1.2 (Apr 25, 2014)

- [#1004] Move Javascript to the Bottom of the Body. * Move all Javascript Includes to Bottom of the base. html and. mobile/base.html templates. * Move extra_js Blocks Below main Blocks in the pages/ form.html and. pages/gallery.html templates. closes #1004: JS should be at the bottom of body -Pavan Rikhi
- · Widget js shouldn't need staticfiles handling Stephen McDonald
- Allow local testing of STATIC_URL containing host Stephen McDonald
- Add Additional 3rd Party Integration Documentation Pavan Rikhi
- Indicate active tree branch in tree page menu Stephen McDonald
- Move the logic for assigning a page variable to the template context, from PageMiddleware into a context processor. This ensures we don't reply on TemplateResponse objects Stephen McDonald
- More reworking of the docs for integrating apps with pages Stephen McDonald
- Give a .template extension to Python files under project_template/deploy since they aren't valid Python files and an attempt to compile them may be made when installing. Closes #1010 Stephen McDonald
- Make the new page context processor backward compatible with older projects Stephen McDonald
- Fix some deprecation warnings: mimetype -> content_type Stephen McDonald
- · Restore site selection dropdown menu in admin nav Stephen McDonald
- Decouple the Blog Post List from RichTextPages. The blog_post_list.html template currently requires that any *page*. context variable passed to it has a *richtextpage* attribute. These changes modify the template, making the *richtextpage* attribute. optional. This allows users to create other Page types pointing to the. URL of the Blog Post List Pavan Rikhi
- Fix styling of admin help text. Closes #1013 Stephen McDonald
- Further decoupling of richtextpage in blog templates Stephen McDonald
- Apply admin title click globally Stephen McDonald
- Show users section in admin nav highlighted as active for the change password view Stephen McDonald
- Include grappelli in INSTALLED_APPS during tests Stephen McDonald
- Skip reset password test for older Django versions since we now include grappelli, which has a bad url name in the reset password template. Since fixed but not released Stephen McDonald
- Ensure missing settings vars don't break admin JS. Closes #1015 Stephen McDonald
- Bump grappelli safe version to 0.3.9 Stephen McDonald

Version 3.1.1 (Apr 19, 2014)

• Fix richtext widget loading - Stephen McDonald

Version 3.1.0 (Apr 17, 2014)

- · Allow auth admin's change password view to be reversed Stephen McDonald
- Fix for ignoring search_fields when they are set on the ModelAdmin Sam Kingston
- Make pillow an explicit dependency since wheel distributions can't have optional dependencies, and clean up uses of it Stephen McDonald
- Update reference and link for Pillow in Deps Matt Stevenson
- Add Debian and Ubuntu prereqs for Pillow Matt Stevenson
- Something is broken with password-resetting. Building a test to reproduce the issue (already hitting the first problem). Will do further testing and fixes in this branch Arnold Krille
- Further up the test-road. Running this with Django1.5.5 works here. The test reaches the page congratulating to the new password and showing a link to "Log in". Unfortunately that link leads to an invalid url '/accounts/login' by default:-(But thats probably stuff for a different Issue/PR - Arnold Krille
- fix for the python3 problem? Arnold Krille
- Make the urls version-dependant. This feels a bit dirty. But it could actually work Arnold Krille
- Python3 fixes. Don't know if this is correct, its my first actual encounter with python3;-) Arnold Krille
- Add a note about osx setup for libjpeg Stephen McDonald
- When testing, do so in english. And follow any language-redirects should these occure Arnold Krille
- Better uidb64 password reset version check Stephen McDonald
- Fix the fix for reversing the change password form when multiple langages are enabled in the admin Stephen McDonald
- Provide a warning on admin login when the default password is being used Stephen McDonald
- Bump grappelli version to 0.3.6 Stephen McDonald
- Fix add_to_builtins import for Django 1.7 Stephen McDonald
- · Initial version of new admin menu Stephen McDonald
- Adds docs for HOST_THEMES configuration geojeff
- Made a few grammatical fixes geojeff
- · Removed a caveat that can go in the PR comments geojeff
- Update css to make side nav full height. Add js to open/close section subnav Josh Cartmell
- Don't animate the admin menu when first loading Stephen McDonald
- Better defaults for non-english language codes Stephen McDonald
- Added setting ADMIN_MENU_COLLAPSED for controlling admin side-nav behaviour Stephen McDonald
- Remove dashboard link from admin menu replace with cliackable Mezzanine title Stephen McDonald
- Highlight selected item in admin nav Stephen McDonald
- Move site/lang drop-downs into top nav bar Stephen McDonald
- Bigger buttons throughout admin Stephen McDonald
- Move multi-site docs into new section Stephen McDonald
- Fix tuple/list setting handling Stephen McDonald

- Allow page subclasses to implement get_template_name to customize template selection in the page view. Closes #957 Stephen McDonald
- Use dark chosen plugin for top nav dropdowns in admin Stephen McDonald
- Use Mezzanine's branding for the admin nav title Stephen McDonald
- · Consistent message styling in admin Stephen McDonald
- Mentioning PAGE_MENU_TEMPLATES_DEFAULT. Updated the *Filtering Menus* section to mention the *PAGE_MENU_TEMPLATES_DEFAULT* setting which controls what entries get pre-selected in the admin section Philip Mateescu
- · Apply jquery chosen to other selects in the admin Stephen McDonald
- · Remove broken/unnecessary jquery resize plugin Stephen McDonald
- Don't use sans-serif as the admin font (should fall back to Arial) Eduardo Rivas
- Adjust CSS selector and colors for dark language selector. The dropdown in the admin login was being targeted as a dark dropdown Eduardo Rivas
- · Fix admin nav margin with alert messages Stephen McDonald
- Use bigreason tinymce theme Stephen McDonald
- Actually apply tinymce skin Stephen McDonald
- · Make admin panel collapsible to the left with a nice animation Eduardo Rivas
- Make the admin panel hidden/show state persist in between page loads. This one uses localStorage instead of cookies Eduardo Rivas
- Make the admin menu toggle panel a bit more subtle Stephen McDonald
- · Make sure the messages bar responds to panel toggling Eduardo Rivas
- · Fix regression in save bottom of change-list view Eduardo Rivas
- · Apply z-index to the whole side panel, not just the inner list Eduardo Rivas
- Handle edge case of bottom controls in settings page Eduardo Rivas
- Fix message margin with collapsed nav Stephen McDonald
- Deal with POSTS in ssl middleware. Closes #975 Stephen McDonald
- · Fix POST handling in ssl middleware Stephen McDonald
- Allow authentiated users to undo their ratings Stephen McDonald
- · Messages shouldn't cover admin nav when scrolling horizontally Stephen McDonald
- · Added support for search fields across model relations Stephen McDonald
- Fix device handling for non-ascii user agents. Closes #976 Stephen McDonald
- · Bring back admin meta title Eduardo Rivas
- Added distinct to search queryset, to prevent relation spanning search fields from producing duplicate results Stephen McDonald
- Fix non-ascii form response CSV downloads on Python 3 Stephen McDonald
- Update test Django version Stephen McDonald
- Only attempt second phase cache render on valid http status. Closes #967 Stephen McDonald
- Fix deprecated depth arg to select_related Stephen McDonald

- Port over FORMS_EXTRA_WIDGETS feature from forms-builder Stephen McDonald
- unicode_literals shouldn't be used in migrations. Because strings are passed to type(), which requires a non-unicode. string in python 2. Fixes #871 refs toastdriven/django-tastypie#1007 Gavin Wahl
- Add FORMS_EXTRA_WIDGETS to Mezzanine's settings Stephen McDonald
- Changed fabfile LIVE_HOSTNAME setting to DOMAINS, and handle multiple domains for a single project Stephen McDonald
- Mention parent.page in the menu variables docs section Stephen McDonald
- Only use RICHTEXT_WIDGET_CLASS if a RichTextField's widget is not. specified in the form's Meta Alex Hill
- Add tests for RichTextField Alex Hill
- update the migration files of blog and generic to use custom user model Ziwei Zhou
- Handle removal of CurrentSiteManager._validate_field_name() in Django 1.7 Stephen Mc-Donald
- Better line break and HTML entities handling in form emails. Support line breaks in HTML email (so that they don't collapse when. rendered) and HTML entities in plain text email (unescape them to make. them legible) Dominique Bischof
- Provide separate overridable email templates for the extra recipients in mezzanine.forms Stephen Mc-Donald
- added padding functionality to thumbnail tag Bryan Clement
- · removed rogue print statement Bryan Clement
- Support hard-coded URLs in LOGIN_REDIRECT_URL. Closes #992 Stephen McDonald
- Port forms-builder fix for large file uploads Stephen McDonald
- Allow subclasses of PageMiddleware to be used in page view check Stephen McDonald
- · Clean up thumbnail padding Stephen McDonald
- Correctly handle 404 exceptions for static files during development Stephen McDonald
- Store thumbnails in individual directories named after the original filename, so that we can accurately delete them from within filebrowser where necessary. Closes #995 Stephen McDonald
- Update thumbnail test path Stephen McDonald
- Disable the 'Add' option of comments in the admin, because the program crash when you try to create a new comment, is better delete this option for avoid this problem Jesus Armando Anaya Orozco
- Add a new site. Add new site created with Mezzanine Anthony
- converted ratios to floats. ratios were integer division, which didn't work as desired. casting the numerators to floats cures this ailment lykkin
- added padding color option into thumbnail tag lykkin
- Document optional thumbnail tag args Stephen McDonald
- Added USE_L10N check for language dropdowns in admin Rocky Meza
- Fix USE_L10N check for admin language selector Stephen McDonald
- Handle null descriptions ofr settings in conf form Stephen McDonald
- Catches exceptions in thumbnail image.convert Doug Evenhouse

- Prevent some warnings during tests Stephen McDonald
- Restructure content architecture docs lead in with describing how Page/Displayable are built and used Stephen McDonald
- Move short_url generation code from template tag to model, so we can use it for tweets Stephen McDonald
- Added TweetableAdminMixin and applied to BlogPostAdmin used for sending tweets from admin Stephen McDonald
- Updated docs for twitter integration document setup for sending tweets plus move to own section Stephen McDonald
- Move the side-menu directly where it should be in the admin template so we don't have to juggle it with jQuery Stephen McDonald

Version 3.0.9 (Feb 11, 2014)

- Add noindex tag to search results. Search results shouldn't normally be indexed, given that they can be generated for arbitrary queries. This patch adds a noindex tag to the head Samir Shah
- Fix serving uploaded files during development Stephen McDonald
- Fix static files handling Stephen McDonald
- Support collapse classes in admin. Closes #943 Stephen McDonald
- Add some HTML5 tags to RICHTEXT_ALLOWED_TAGS. Hi,. This patch adds the following tags to RICHTEXT_ALLOWED_TAGS: * article. * aside. * figure. * caption. * header. * footer. * nav. * section. , all of which are becoming increasingly common, and should all be safe to allow. Thanks! Samir Shah

Version 3.0.8 (Feb 05, 2014)

- Use binary mode when opening the image to be copied on a remote server Sylvain Fankhauser
- Fixed regression when validating displayable content field against published status Stephen McDonald
- Fix static proxy handling Stephen McDonald
- Fix string checking in page processors. Closes #931 Stephen McDonald
- Handle the different method of importing filebrowser urls when the upstream version is installed. Closes #925 Stephen McDonald
- Rename account URL prefix to match Django's by adding the plural s. Catch and redirect any old urls to the new scheme Sam Kingston
- Tidy up old account redirect view Sam Kingston
- Added tests to static_proxy Alejandro Peralta
- Handle next param in old_account_redirect Stephen McDonald
- In Mezzanine's runserver, also serve up static files in STATIC_ROOT Stephen McDonald
- Bump filebrowser-safe to 0.3.2 Stephen McDonald
- Use file.name instead of file.url for getting name of file in GalleryImage. *file.name* is universal accross storages and can be used not only with. FileSystem storage but with S3 storage as well (*file.name* is used to. create the url). Also with using *name* instead of *url* we will not have. problems with encoding and python version Venelin Stoykov

Version 3.0.7 (Feb 02, 2014)

- check if the user model is already registered. Fix usage of overwriting the UserProfileAdmin because it will be under mezzanine.accounts in INSTALLED_APPS Sebastian Clemens
- check django version instead of ImportError. Closes https://github.com/stephenmcd/ mezzanine/issues/893-Sebastian Clemens
- Use space indent instead of tab Sebastian Clemens
- Do not show the in_menus field in page admin if PAGE_MENU_TEMPLATES is empty Laurent Prodon
- Fix admin password reset page. Closes #909 Stephen McDonald
- Clean up PAGE_MENU_TEMPLATES check in page admin Stephen McDonald
- Fix failing account tests for foreignkey and date/datetime fields on user profile models Stephen McDonald
- menu: include parent page in context Laurent Prodon
- menu: modify doc accordingly Laurent Prodon
- Handle multiple ip addresses in mezzanine.utils.views.ip_for_request Stephen McDonald
- Fix handling for schemeless static urls in static proxy Stephen McDonald
- fix on python3 loads() required string found bytes <- reads(). adding .decode ("utf-8") to support python3 Simone Federici
- Fixed bug in processor_for if it receives an unicode slug Vindio
- Replaced unicode string for python3.x compatibility Vindio
- Previous commit breaked test for python2.x Vindio
- Previous commit broke test for python2.x Vindio
- · Dont show comments in blogpost list if they are not allowed Laurent Prodon
- wrap ratings in a block in blogpost detail template Laurent Prodon
- More Django 1.6 generic relation regressions underlying sql has changed, returning duplicates, so apply distinct for correct results. Closes #918 - Stephen McDonald
- Fix tag cloud padding Stephen McDonald
- Ensure filtering blog posts by keyword uses the correct content type Stephen McDonald
- Much simpler keywords lookup fix Stephen McDonald
- Don't assume static proxy url param contains a host. Closes #920 Stephen McDonald
- · Added test to check that /static/ as a prefix of url is removed Alejandro Peralta
- Fix static proxy test for Python 3 and remove fb dependency from test Stephen McDonald

Version 3.0.6 (Jan 17, 2014)

- Don't require specifying filebrowser urls separately in a project's urlconf Stephen McDonald
- import the user model from settings Sebastian Clemens
- Improved support for determining timezone with tzlocal lib Stephen McDonald
- New setting EMAIL_FAIL_SILENTLY for controlling the default fail_silently arg in sending email Stephen McDonald

Version 3.0.5 (Jan 12, 2014)

- Fix bytes/string handling in Python 3 static_proxy. Closes #866 Stephen McDonald
- Move the file browser url to i18n patterns Sebastian Clemens
- Use the new template tag for url generation Sebastian Clemens
- · Add a given query string to url Sebastian Clemens
- Move jQuery setup for ajax/csrf outside of document.ready handler Stephen McDonald
- In overextends template tag, don't assume extends node is first in node list Stephen McDonald
- · Fix bytes/str handling in disqus SSO Stephen McDonald
- Communicate the requirement for twitter credentials on changing the default query in the help text Stephen McDonald
- Slight increase to font size throughout the admin Stephen McDonald
- Add url field type to anyFieldsDirty in dynamic_inline.js Adrian Carpenter
- Patch all migrations to remove generic fields these break with Django 1.6 and aren't actually necessary with the latest version of south Stephen McDonald
- Added two more HTML5 input types in dynamic_inline.js Adrian Carpenter
- dynamic_inline.js updated for HTML5 input types in Django 1.6 Adrian Carpenter
- Remove all the frozen_by_south hacks and use it to provide a warning for old migrations Stephen Mc-Donald
- Add some more html5 field types to dynamic inlines JavaScript Stephen McDonald
- Update to use multiprocessing library tyescott
- Use pytz to determine a closest matching timezone fro TIME_ZONE default Stephen McDonald
- Have RSS/Atom feed link attribute go to homepage of site David Tomaschik
- Don't hard code rss link url Stephen McDonald
- Use FieldFile.url to get full image-url in gallery. Closes #877 Denis Cornehl
- SS: Bumped requests and requests-oauthlib versions Sachin Shende
- Fix tuple/list setting handling. Closes #883 Stephen McDonald
- allow <a> tags inside <button> in TinyMCE Neum
- Add back bootstrap-extras.js. Menus stay open for a few hundred milliseconds after the cursor leaves them and the dropdowns in the main menu are useable when the menu is collapsed Josh Cartmell
- Relative schemes for twitter avatar urls. Closes #878 Stephen McDonald
- Fix some failing http status code tests that need to follow redirects when multiple languages defined Stephen McDonald
- Make the label element optional for form fields. Labels for form fields can be disabled by setting them to an empty string. Previously this would produce the intended result visually, but left an empty label element in the HTML. This change causes the element to only be inserted if a label value exists David Sanders
- Fix for uploading zip files to a homepage gallery Jeff Fein-Worton
- Update to latest bleach/html5lib and enable for Python 3 Stephen McDonald
- Fix admin menu app/model sorting for Python 3 Stephen McDonald

• Bump version to 3.0.5 - Stephen McDonald

Version 3.0.4 (Dec 27, 2013)

- Shadow staticfiles runserver instead of django.core Stephen McDonald
- Use local names for the language selector. Also dropping creation of the two variables LANGUAGES and LANGUAGE_CODE. because they already exists Sebastian Clemens
- Correctly handle serving files under MEDIA_ROOT during development on Windows. Closes #865 Stephen McDonald

Version 3.0.3 (Dec 25, 2013)

- Skip randomly failing settings test on Python 3 Stephen McDonald
- Unicode fix for gallery image descriptions from filenames Stephen McDonald
- More gallery unicode fixes Stephen McDonald
- Fix some jQuery namespacing regressions in the admin Stephen McDonald

Version 3.0.2 (Dec 24, 2013)

• No changes listed.

Version 3.0.1 (Dec 24, 2013)

• Fix Python 2/3 str/bytes error in cache bypass util - Stephen McDonald

Version 3.0.0 (Dec 24, 2013)

- Python 2/3 port: be conservative: no magic super() imports Ed Schofield
- Put __future__ imports below the # encoding: utf-8 lines Ed Schofield
- Correctly handle page slug lookups when APPEND_SLASH is False Stephen McDonald
- disqus counts should follow the protocol of the original request, see: http://help.disqus.com/ customer/portal/articles/542119-John Henry
- Fall back to Python 2 urllib imports if needed. * Also fix one bug triggered by passing a newstr to urllib. unquote Ed Schofield
- Remove obsolete with_statement import from __future__ Ed Schofield
- Always pass a native string to first arg of 3-arg type() call in middleware.py Ed Schofield
- Add absolute_import to prevent implicit relative import of html.py on Py2 Ed Schofield
- Python 2/3 compatibility for types in the settings registry Ed Schofield
- Fix a few out-of-order ____future___ imports Ed Schofield
- Python 3 compatibility: Use Django's newer smart_text and force_text if available. smart_unicode and force_unicode aren't defined in django.utils.encoding on Py3 Ed Schofield

- Python 3: fix arg_names lookup in FormForForm.__init__ Ed Schofield
- Python 3 compatibility: Fix galleries/models.py: use BytesIO etc Ed Schofield
- Add Python 3.3 to .travis.yml Ed Schofield
- Revert "Add Python 3.3 to .travis.yml". This reverts commit 4dee3b787d040613fa632c3300a29def955ca128. Django 1.4.x doesn't support Python 3.x, so the .travis. yml file needs to. specify that the combination of Python 3.3 and Django 1.4.x should not be. tested Ed Schofield
- Change __unicode__ -> __str__ and add python_2_unicode_compatible decorator Ed Schofield
- Disable standard_library import hooks for pychecker Ed Schofield
- Add future == 0.8.2 to requirements; remove dependency for setup.py Ed Schofield
- Change future dependency to >= 0.8.2 Ed Schofield
- Add Python 3.3 back to .travis.yml and disable tests on Py3.3 + Django 1.4 Ed Schofield
- Fix location of urlparse on Python 2 Ed Schofield
- Add Python 3 classifier for PyPI Ed Schofield
- Prevent UnicodeDecodeError in test run on Py2 if files in the local dir have high-bit chars. Also remove an extraneous import Ed Schofield
- Python 3: import local_settings correctly from project_template.settings Ed Schofield
- Work around Django / Python 2.x not supporting unicode cookie keys Ed Schofield
- Change Py3-incompatible is-this-a-string type-check hack in send_mail_template Ed Schofield
- Fix for mezzanine.utils.email imports Ed Schofield
- Remove Django 1.4.x from .travis.yml for pull request for early testing Ed Schofield
- import_rss and import_tumblr scripts: fix urllib imports on Py2 Ed Schofield
- Remove all isinstance() imports (with future v0.9). These are not needed in future v0.9 Ed Schofield
- Handle context_data is None in PageMiddleware Stephen McDonald
- No need to provide TEST_RUNNER in settings Stephen McDonald
- Restore 1.6 fix for generic relations Stephen McDonald
- Don't use deprectaed depth arg for select_related in page_menu tag use the built up list of subclass models instead, as per in the admin Stephen McDonald
- Revert "Restore 1.6 fix for generic relations.". This reverts commit 19288b896a5ccb146ae8fe8e25cde5a768079c0d. _meta.get_all_field_names() load the app cache. This cannot be called. during the app cache loading. Those line have been posing problems as seen in: * 19288b896a5ccb146ae8fe8e25cde5a768079c0d. * d2b68151ca936422eef3d0b7cc2a8e63f5e2d4d1. * 69acbfd8f025d2b245c4c8e8ca4d1484f0c1228d Antoine Catton
- Fix circular import problem and keep Django 1.6 compatibility. See: * f48390c4c8d61ca499f277f2ae1c2346262b949d. * 19288b896a5ccb146ae8fe8e25cde5a768079c0d. * d2b68151ca936422eef3d0b7cc2a8e63f5e2d4d1. * 69acbfd8f025d2b245c4c8e8ca4d1484f0c1228d. Thank you Gavin Wahl (gwahl at fusionbox dot com) for the solution Antoine Catton
- Bump future version requirement to 0.9.0 Ed Schofield
- Add Django 1.4.8 back to .travis.yml and disable tests on Py3.3 + Django 1.4.8 Ed Schofield

- Remove some unnecessary list() calls around map() results Ed Schofield
- Allow fab remove to run when db/user don't exist Stephen McDonald
- Allow multiple deployed projects with ssl in nginx conf Stephen McDonald
- · Fixed a few small spelling errors Tuk Bredsdorff
- In set_dynamic_settings don't convert tuple settings back to tuples if they were already a list. Closes #821 Stephen McDonald
- Python 3 fix can't compare string and int when sorting content types in page admin Stephen McDonald
- Don't install optional dependencies for Python 3 that aren't yet compatible with it Stephen McDonald
- · Fix string cast for file fields in thumbnail template tag Stephen McDonald
- Overide staticfiles' runserver command and wsgi handler during development, to allow uploaded files to be served from within the static dir Stephen McDonald
- Update refs to latest Django 1.4/1.5 versions Stephen McDonald
- · Add project path to search path in tests Stephen McDonald
- Authenticate new user using a token instead of a password to support password-less configurations Alex Hill
- If new user's password is empty, make this explicit by calling set_unusable_password() Alex Hill
- Only load editable settings from the database Alex Hill
- · Add a test for fixed editable settings behaviour Alex Hill
- Load settings in a separate method, emit warnings for settings that are defined twice Alex Hill
- Assume settings pulled from the database are UTF-8 Alex Hill
- Remove assignment to make pyflakes happy Alex Hill
- Remove use of from future import standard_library for now (issue #826). This feature in future is currently buggy. The import was not actually needed by some modules anyway Ed Schofield
- · Remove deprecated assert methods Stephen McDonald
- · Clean up editable setting loading Stephen McDonald
- Move special-case bytes conversion to _load method Alex Hill
- · Add test for special-case bytes conversion Alex Hill
- Fix inline editing response. Closes #829 Stephen McDonald
- Upstream update to Bootstrap 3.0.2 Eduardo Rivas
- Update footer link to point to the Bootstrap 3 site Eduardo Rivas
- Inline Admin: Convert editable_form.html to BS3 Eduardo Rivas
- Make auto-generated slugs propagate. Fixes #831 Alex Hill
- Use reverse instead of models.permalink in BlogPost.get_absolute_url Stephen McDonald
- Allow all models subclassing Displayable to be searched by setting SEARCH_MODEL_CHOICES to None Stephen McDonald
- Update search engine docs Stephen McDonald
- Fix some type handling for settings in mezzanine.conf Stephen McDonald
- More Python 3 fixes for types in mezzanine.conf Stephen McDonald

- Allow specifying optional left and top values to the thumbnail tag which control the centering of the thumbnail. If non default values are used update the thumbnail name Josh Cartmell
- Allow None to be used as a per_page arg for pagination, to bypass pagination altogther Stephen McDonald
- Force string type names for HTML5 form fields Stephen McDonald
- Clean up positioning code in thumbnail tag Stephen McDonald
- added three classes "left", "middle" and "right". these classes are used by cartridge to use the entire space in checkout process Sebastian Clemens
- fix on __admin_media_prefix__ about the trailing slash Alexandre Hajjar
- Namespace jQuery in the admin pages to prevent conflicts Zachery Metcalf
- Upstream update to Bootstrap 3.0.3 Eduardo Rivas
- Use the new BS 3.0.3 colors for error fields Eduardo Rivas
- Py3k compatibility fixes in two-phase rendering Alex Hill
- Update forms.py. Added a check to see if the initial value for a field is a manager Tim Harton
- Fixed multipleschoiceselect error with profiles Tim Harton
- Slightly cleaner related field check in profile form Stephen McDonald
- Add a {% block %} to .form-actions in account_form.html for Cartridge. to extend. This makes it easier for Cartridge to insert an "Order History" button Eduardo Rivas
- Increased margin around buttons in the user panel. Makes it look less. crammed Eduardo Rivas
- Render form errors with a new {% errors_for %} template tag. This new template tag accomplishes three things: Fixes the bug of multiple form error messages appearing when using. {% fields_for %}. This bug was intruduced in [this commit] (https://github.com/jerivas/mezzanine/commit/ 323660db5bee7e21358315c4e247eaa8ee77b034). and was discovered when [migrating Cartridge to BS3] (https://github.com/clemensbasti/cartridge/pull/1). Decouples error message rendering from form field rendering, with. the added flexibility of placing the error messages wherever we want. Creates a new template (includes/form_errors.html) as the single. location to control form error rendering through all Mezzanine and. Cartridge Eduardo Rivas
- Admin href disqus recent comments to https or http via double slash. Changed how the disqus widget in the admin panel loads its recent. comments. This will fix any errors for loading insecure content Daniel Lawrence
- verbose_names should be capitalized when output. The convention is to always use lowercase verbose_names and capitalize. in the template where necessary. <https://docs.djangoproject.com/en/1.0/topics/db/models/#verbose-field-names>. > The convention is not to capitalize the first letter of the. > verbose_name. Django will automatically capitalize the first letter. > where it needs to Gavin Wahl
- Fix a bunch of regressions from namespacing jQuery in admin Stephen McDonald
- Add django 1.6.1 to supported/tested versions Stephen McDonald
- Move sitemap generation logic for Displayable instances into DisplayableManager Stephen McDonald
- Added the url/view for displayable_links.js which is then used by TinyMCE to render a list of site links to use Stephen McDonald
- In TinyMCE, don't convert relative urls to absolute Stephen McDonald
- Added ALLOWED_HOSTS configuration for Django. As it's part of the default django settings, we also need this in mezzanine Sebastian Clemens
- Python 2/3 fix for forms export Stephen McDonald

- Added LANGUAGES to settings, since they're needed for multilingual support Sebastian Clemens
- Added django.middleware.locale.LocaleMiddleware to MIDDLEWARE_CLASSES Sebastian Clemens
- Added a language selector field to the login and admin site Sebastian Clemens
- Mention Widgy in the list of third-party modules Gavin Wahl
- Only show admin language selector when multiple languages configured Stephen McDonald
- Don't use future's int for int settings. Closes #855 Stephen McDonald
- In admin customization section of docs, mention in_menu method on admin classes for controlling ADMIN_MENU_ORDER behavior Stephen McDonald
- Move requirements file for project_template into project root to better conform with hosting providers like Heroku. Closes #859 Stephen McDonald
- Broader excpetion handling for importing bleach since its deps aren't Python 3 ready Stephen McDonald
- Fix for django-debug-tolbar 1.0 which prevents later middleware from running Stephen McDonald
- Add config for wheel distribution Stephen McDonald
- Remove use of deprecated simplejson module and clean up other imports Stephen McDonald
- Provide read-only twitter settings for the default query Stephen McDonald

Version 1.4.16 (Sep 30, 2013)

- Revert broken static proxy change Stephen McDonald
- Better fix for static proxy urls Stephen McDonald

Version 1.4.15 (Sep 29, 2013)

- Blog: Generate RSS and Atom feeds through richtext_filters Eduardo Rivas
- Delete BS2 static resources. Add BS3 resources: css, js and fonts Eduardo Rivas
- Migrated base.html and all it's includes to BS3 Eduardo Rivas
- Strip STATIC_URL, leading / from proxied URLs. STATIC_URL often contains host or generic_host (esp. if STATIC_URL is a. path on the same domain), so it needs to be removed first to ensure it. is removed completely. Also removed leading '/' from URL, since it. appears staticfiles doesn't like absolute paths Adam Brenecki
- Added a function mezzanine.utils.urls.next_url which is used to retrieve redirect URLs from a request's next param, while verifying that the redirect URL is valid Stephen McDonald
- Fix min Dajngo version Stephen McDonald
- Use request.get_host rather than request.META['HTTP_HOST'] Stephen McDonald
- Fix Django version for travis Stephen McDonald

Version 1.4.14 (Sep 14, 2013)

• Blog: Catch exception if a non-existent month is requested from the archives - Eduardo Rivas

Version 1.4.13 (Sep 10, 2013)

- Allow for there being no "errors" in the twitter api response. When a successful "user" query to the twitter api is completed the json that is returned is a list. In order to validate the response the code tests to see if it was a dictionary with an "error" key. However passing a string as a index to a list will raise a TypeError, which was not being caught by the "except" clause. I have added TypeError to the list of items being caught. There are of course other ways of verifying the response but I think just adding the TypeError is in keeping with what you have already done. For reference, here is what I was seeing: > python manage. py poll_twitter -traceback -force. Traceback (most recent call last): ,. File "/,/lib/python2. 7/site-packages/mezzanine/twitter/models.py", line 74, in run. raise TwitterQueryException(tweets["errors"][0]["message"]). TypeError: list indices must be integers, not str David Higgins
- Fix tag cloud factor in generic app Stephen McDonald

Version 1.4.12 (Aug 27, 2013)

- Remove bad 1.6 handling Stephen McDonald
- · Fix settings context processor for email template contexts when cache installed Stephen McDonald

Version 1.4.11 (Aug 26, 2013)

- Added mezzatheme themes marketplace to features list Stephen McDonald
- Method to load all symbols of all files in a submodule Thomas Rega
- Use new decorator "richtext_filters". The decorator "richtext_filter" is marked as deprecated - Thomas Rega
- Move gallery related tests into the app directory. If the app is not installed, the tests are not executed Thomas Rega
- Move blog related tests into the app directory. If the app is not installed, the tests are not executed Thomas Rega
- Move page related tests into the app directory. If the app is not installed, the tests are not executed Thomas Rega
- Move account related tests into the app directory. If the app is not installed, the tests are not executed Thomas Rega
- Move form related tests into the app directory. If the app is not installed, the tests are not executed Thomas Rega
- Move core related tests into the app tests directory. These tests do not belong direct to an specific app, so they stay. in the core app directory for now Thomas Rega
- Simplify new test module structure Stephen McDonald
- Provide a common TestCase class for all app specific tests, for features such as admin user plus debug cursor for query tracking. Also consistent naming for tests Stephen McDonald
- Move tons of tests into their correct apps Stephen McDonald
- Patch jquery.overlay with jquery.browser support to work with new jQuery versions. Closes #701 Stephen McDonald
- Force tinyMCE save in dynamic_inline.js to avoid issues with richtext fields in dynamic inlines and ordering values not correctly handled. Closes #731 Stephen McDonald

- Update dev status classifier in setup.py Stephen McDonald
- Remove inclusion of mezzanine.accounts when testing Zach Gohr
- Inject all Mezzanine apps into the temp settings module when Mezzanine itself is being tested Stephen Mc-Donald
- Use setuptools to test on travis Stephen McDonald
- Apply skipTests throughout different tests where apps are coupled Stephen McDonald
- setup.py specifies the test deps so we don't need to grab them for travis now Stephen McDonald
- Update send_mail_template to pass optional email headers to the EmailMultiAlternatives constructor. Rather than having the form page_processor send mail from user submitted email addresses (if present) have it specify the Reply-To header - Josh Cartmell
- Get rid of FORMS_DISABLE_SEND_FROM_EMAIL_FIELD, always add the Reply-To header if there is an email_to Josh Cartmell
- · Adding template accessible settings into context for rendering templates for emails Danny Sag
- Handling case when diff between min and max count is smaller than size. Weights were not calculated correctly when difference between *max_count* and *min_count* was smaller than *settings.TAG_CLOUD_SIZES*. Changed calculation of weights to use floating point arithmetic. The results of weight calculations using old and new code are shown below: http://ideone.com/fXs5aG-Ahmet Bakan
- Adding .control-label to form_fields.html Troy Harvey
- · Be a bit more explicit with request arg in settings context processor Stephen McDonald
- Added mezzanine-meze to third-party apps list Stephen McDonald
- Added support for Django 1.6. The situations in which contribute_to_class is called have changed.
 Fixed DeprecationWarning about simplejson. Explicitly set the TEST_RUNNER to the pre 1.6 one. Set default=False on BooleanField Rocky Meza
- Keep django version pinned Stephen McDonald
- Ensure correct arguments are used when returning a Page in place of a 404 from a non-page urlpattern Ben Ledbury
- · Better error propagation when querying for tweets Stephen McDonald
- Added -force option to poll_twitter command which will query for tweets on all queries Stephen Mc-Donald
- Catch and show twitter query errors in management command, and allow continuing Stephen McDonald
- Allow twitter queries to gracefully fail in templates Stephen McDonald
- Bump requeusts-oauthlib version. Closes #764 Stephen McDonald
- Exempt Link pages from 404 Page replacement Ben Ledbury
- Changed 'form' to 'editable_form' to fix naming conflict. Editable JS no longer being pulled in Nicole Harris
- Don't quote bullets,. The indentation causes the bullets to be treated as blockquotes David Winterbottom
- ,but do quote quotes :grinning: David Winterbottom
- Use correct comment field name in akismet API. Closes #768 Stephen McDonald
- Added TimeStamped model mixin to Displayable, for created/updated timestamps on all models. Closes #661 Stephen McDonald

• Allow account signups with profiles containing non-nullable fields. Closes #749 - Stephen McDonald

Version 1.4.10 (Jul 29, 2013)

- Added window. ___language_code variable to admin and inline loader Artem Gluvchynsky
- Better error message for page models that get removed from INSTALLED_APPS. Closes #722 Stephen Mc-Donald
- Allow initial user creation in syncdb when a profile model is managed by migrations and doesn't yet exist Stephen McDonald
- Looser AJAX response check for page reordering. Closes #727 Stephen McDonald
- Allow key settings to be defined in fab conf and injected into live local_settings module Stephen Mc-Donald
- Added valid Polish messages for mezzanine/core. Closes #729 Marek Wywiał
- add a tox.ini config file jferry
- Use protocol-relative URL to avoid SSL warnings Vinod Kurup
- Make running fabfile outside project root optional, since it conflicts with importing the fabfile into other fabfiles Stephen McDonald
- Specify minimum version of pytz requirement Vinod Kurup
- Fixed view and JS to be compatible with jQuery 1.8 Ethan Goldstine
- Fix gravatar_url tag for non-ascii email addresses. Closses #721 Stephen McDonald

Version 1.4.9 (Jul 10, 2013)

- Allow deployments to be run from project subdirectories Stephen McDonald
- Add support for settings.RICHTEXT_FILTERS. RICHTEXT_FILTERS is a list of items that are valid for the. RICHTEXT_FILTER setting. The plural version takes precedence if it is. available and non-empty. Each item in RICHTEXT_FILTERS is applied in. order. An alias for the richtext_filter template filter has been added to. match the plural nature of the new setting: richtext_filters simply. calls on richtext_filter for its output - Tim Valenta
- Fixed blog post categories list in blog_post_list.html template Artem Gluvchynsky
- · Removed redundant jQuery media from KeywordsWidget Artem Gluvchynsky
- Use urljoin in Page.get_absolute_url for link pages Dheeraj Sayala
- RTL: fix position of changelink icon in page tree after recent changes. Problem introduced in aec1a0462b60, which solves an issue due to long. page names Ahmad Khayyat
- Comma separate categories in blog post listing Stephen McDonald
- Update docs for new RICHTEXT_FILTERS setting Stephen McDonald
- Properly deprecate RICHTEXT_FILTER setting in favour of RICHTEXT_FILTERS (plural) setting Stephen McDonald
- Update templates to use new richtext_filters (plural) tag Stephen McDonald
- Allow a single BCC address in addition to list/tuple. BCC fails if the addr_bcc argument is a single address rather than a list/tuple. This commit wraps a single address in a list to fix this problem Alex Hill

- Make sure request._messages has been set before trying to access it. This is for cases where the MessageMiddleware hasn't had a chance to. run, e.g when a previous middleware returned an exception Gu1
- Use a separate key setting for nevercache tokens Stephen McDonald
- Add is_current_parent on pages filtering Antoine Catton
- Remove field related to Django built-in user model. South is expecting those fields to be in the database. So it is. selecting them, since some custom user models don't have them, this can. break this migration Antoine Catton

Version 1.4.8 (Jun 27, 2013)

- Fix nginx config to work on more recent ubuntu versions. Not sure how backwards compatible this is. Please see: http://stackoverflow.com/questions/8768946/ dealing-with-nginx-400-the-plain-http-request-was-sent-to-https-port-error - David Novakovic
- dynamically generate top margin of admin content area Andromeda Yelton
- · contentMargin out of global namespace Andromeda Yelton
- Force csrf token generation on every request with cache middleware. Closes #676 Stephen McDonald
- Use a more explicit name in PageAdmin.get_content_models which won't collide with a commonly used field name such as name Stephen McDonald
- Don't use ugettext_lazy for form field labels since Django will double-escape them. Closes #682 Stephen McDonald
- Move case-insensitive keyword creation into KeywordManager, and allow for duplicate results. Closes #679 Stephen McDonald
- Fix ADD_PAGE_ORDER. Closes #681 Stephen McDonald
- Fix uses of next param for redirects where param exists but value is empty Stephen McDonald
- Revert fix to #594 #677 causes issues with status messages Stephen McDonald
- · TagCloser don't close br and image tags John Groszko
- · Test changes to TagCloser John Groszko
- Clean up some docstrings Stephen McDonald
- When using search against an abstract model (eg Displayable), filter the combined models searched against by the models represented in the SEARCH_MODEL_CHOICES setting. Closes #684 Stephen McDonald
- Add a note to search docs about SEARCH_MODEL_CHOICES affecting abstract search behaviour Stephen McDonald
- · Added missing class to collapsible navbar that affected nested menus Jason Wong
- SS: Moved to the original Sachin Shende
- long title : break words on pages tree jferry
- SS: Changes done to Twitter app to upgrade to API 1.1. 1. Added requests==1.2.3 and requests-oauthlib==0.3.2 to the dependency list. 2. Added 4 new keys to the settings. 3. Changed models to use new authentication for Twitter API, changed urls and other changes to parse the response Sachin Shende
- use of staticfiles to get url to tinymce Eduardo S. Klein
- Just added my Website to the gallery ;) Rafael Beckel

- More consistent names and validation of new twitter settings Stephen McDonald
- Document new requirements for Twitter API Stephen McDonald
- Fix for Issue #691 ACCOUNTS_APPROVAL_REQUIRED bypasses ACCOUNTS_VERIFICATION_REQUIRED Ling Thio
- Provide better default for <code>FILE_UPLOAD_PERMISSIONS</code> Stephen McDonald
- fixed little firefox bug jferry
- Improved ssl cipher settings in default nginx conf Stephen McDonald

Version 1.4.7 (May 17, 2013)

- Added the ACCOUNTS_NO_USERNAME setting, which will hide the username field from signup/update forms, but still generate a unique username for use in profile view slugs Stephen McDonald
- Allow querystring vars to be excluded from pagination links Stephen McDonald
- Missing migration on site perms. Closes #655 Stephen McDonald
- Added support for setup.py test Stephen McDonald
- Pass in the user to page.get_ascendants in the page view. This will allow previewing of the unpublished children pages of. unpublished parent pages. fixes #653 Rocky Meza
- Lowered MAX_POSTS_PER_CALL to 20; Added support for question/answer posts Jeff Fein-Worton
- Use a context instance when rendering page menus, huge performance boost Stephen McDonald
- · Fixed rss import errors Andrey Zhukov
- Fixed the igrations to be able to run with a custom user model. This uses a pattern copied from django-reversion: https://github.com/etianen/django-reversion/blob/master/src/reversion/migrations/0001_initial.py Rocky Meza
- Add addr_bcc arg to send_mail_template. This accommodates the new setting SHOP_ORDER_EMAIL_BCC in Cartridge Alex Hill
- Fix lookup for username generation when ACCOUNTS_NO_USERNAME is True, closes #664 Stephen McDonald
- Fixed 0005 migration wrt custom user models Rocky Meza
- Correctly validate float settings in mezzanine.conf Stephen McDonald
- Added some validation in the createdb command that fails if a Mezzanine table exists, to prevent people from running it and accidentally faking new migrations that need to be run Stephen McDonald
- mezzanine/accounts/templates/email/account_approved.html: removed the extra. "http://" Alexandre Hajjar
- Make fabfile work in Windows. Two small changes allow deployment via Fabric from Windows: * Use posixpath.join instead of os.path.join to construct all paths destined for the remote machine. * Check for "fab-file.py" as well as "fab" in sys.argv, to handle the way setuptools-generated command-line scripts work in Windows Alex Hill
- Fix urlpattern for archive year Stephen McDonald
- Hide printing STATIC_ROOT in deploys Stephen McDonald
- Added paragraph to mezzanine/docs/user-accounts.rst about ACCOUNTS_NO_USERNAME. setting - Alexandre Hajjar

- Used username_label variable in the PasswordResetForm label. (accounts/forms.py) Alexandre Hajjar
- Pin html5lib, see https://github.com/jsocol/bleach/issues/94 Stephen McDonald
- Added an extra safeguard for type errors in editable settings Stephen McDonald

Version 1.4.6 (Apr 27, 2013)

- Fix set_dynamic_settings for projects without AUTHENTICATION_BACKENDS defined Stephen Mc-Donald
- Provide meaningful exception when dotted import fails Sam Kingston
- SS: Line 12 dsq.src changed to include https if the site is running on SSL. Comments do not appear if the site is running on SSL and js link is http Sachin Shende
- Adding Golds Gym Utah Josh Batchelor
- If static_directory does not exist, create it. Instead of trying to tar the static directory (which. fails when the dir does not exist), we create it when. is missing José Aliste
- Hack for generic fields that allows MySQL migrations to run correctly Stephen McDonald
- Don't assume a site exists in some older migrations Stephen McDonald
- Use consistent language for 'log in / sign up' Stephen McDonald
- The db_type field must take a second 'connection' argument, even though unused, otherwise one gets an 'unexpected keyword argument connection' TypeError Marcos Scriven
- Added a port of Django's RedirectFallbackMiddleware with support for Mezzanine's multi-site handling. Closes #535 Stephen McDonald
- Changelist view signature change to work with reversion Thejaswi Puthraya
- Mark redirects middleware as unused if redirects not installed Stephen McDonald
- Add special handling in PageMiddleware for non-page views that raise 404s, but do so with a valid page slug in this case, we use the page view instead, which allows pages to be created that may match non-page urlpatterns. Closes #561 Stephen McDonald
- Fix CSRF token generation when cache is enabled, should solve #632 Gu1
- Be more explicit in checking for a test run management command Stephen McDonald
- Add missing reference for link Thibault J.
- Fix SearchableManager._search_fields incorrectly persisting across managers for model subclasses. Closes #633 - Stephen McDonald
- Add code of conduct Ken Bolton
- New mezzanine-file-collections reference. mezzanine-media-library got renamed to mezzanine-file-collections. The reference was updated in this commit Thibault J.
- Added the bool setting ACCOUNTS_APPROVAL_REQUIRED, which defaults to False and when set to True, sets newly created public user accounts to inactivate, requiring activation by a staff member. Also added the setting ACCOUNTS_APPROVAL_EMAILS which can contain a comma separated string of email addresses to send notification emails to each time a new account is created and requires activation. Closes #417 Stephen McDonald
- Document the new account approval feature Stephen McDonald
- Better name for emails_list -> split_addresses Stephen McDonald

- Fix thumbnail template tag for palette-mode images. Closes #636 Stephen McDonald
- Added select_related for user in blog_recent_posts template tag Stephen McDonald
- Fix lookup of initial data in from-builder forms, and correctly handle initial values for checkbox fields Stephen McDonald
- Allow forms-builder forms to contain template code for default values Stephen McDonald
- Provide more granular export filtering for multiple-choice fields in forms-builder export, eg matches/doesn't match any/all selected choices, and also allow range filters to use only one boundary Stephen McDonald
- Fix static_proxy to work with //host STATIC_URLs. STATIC_URL = '//mybucket.s3. amazonaws.com' would break the static_proxy prefix stripper, and therefore break tinyMCE plugins. This fix adds proper handling of generic-protocol hostnames to the static_proxy view Gabe Smedresman
- Reorder blog and accounts patterns in mezzanine.urls to allow for projects with a blog homepage that also have accounts enabled Stephen McDonald
- Fix handling of paths in zip imports in galleries app Stephen McDonald
- accounts: properly reject multiple matching e-mail addresses. Django allows multiple Users with the same e-mail address; the existing. form can throw MultipleObjectsReturned when get(email=email) is called. against such a dataset mike wakerly
- · Added default wsgi script to project template Stephen McDonald
- Only add input-xlarge on inputs without a class attribute, fixes #643 Gu1
- Replaced the BLOG_URLS_USE_DATE setting with a new BLOG_URLS_DATE_FORMAT setting it can contain the string year, month, or day, which controls the date granularity in blog post URLs - Stephen McDonald
- Editable settings refactor this change is to clear up confusion around editable settings being defined in a project's settings module. Previously when this happened, the settings.py module value would only serve as a default, which would be superceded by the db editable value as soon as the settings admin form is first saved. To address this, this change means that editable settings defined in the project's settings.py module now mark the setting as not editable, so it will always be the value used. We also include some handling for the migration case so that even with this change, editable settings already in the db that have a settings.py value defined will still use the db value and provide a warning Stephen McDonald
- Revert the handling for still using db values for editable settings with settings.py values defined, since it basically defeats the purpose if a settings.py value is added once a project is live Stephen McDonald
- New INLINE_EDITING_ENABLED setting doesn't need to be editable Stephen McDonald
- Don't force lowercase keywords. Closes #647 Stephen McDonald
- · Allow blog feed title and description to be overridden Stephen McDonald
- Use callable description in atom rss feed Stephen McDonald
- Properly escape comments in comment_filter template tag Stephen McDonald

Version 1.4.5 (Apr 02, 2013)

• Fix some static urls in admin to support external storage backends - Stephen McDonald

Version 1.4.4 (Mar 30, 2013)

• Added user FK to rating model, and allow authenticated users to edit their ratings. Added new setting RATINGS_ACCOUNT_REQUIRED to allow ratings to behave like comments, where requiring authentication can store post data in session until user logs in to complete the rating - Stephen McDonald

- If RichTextPage is unregistered in the admin, have the page add link in the dashboard go to the page tree Stephen McDonald
- Let's go back to a fixed-width navbar Stephen McDonald
- Give the navbar some more space Stephen McDonald
- Docs for using the Media Library browse dialog in custom widgets Ahmad Khayyat
- Added the ADD_PAGE_ORDER setting, which is a sequence of app_label.object_name values of Page subclasses, for defining the ordering used in the add drop-down on the admin page tree Stephen McDonald
- Use CSS instead of JavaScript for the admin app dropdowns. There were some bugs with the dropdowns when they were in JavaScript: 1. When you open a dropdown and then scroll, the dropdown would stay. put, instead of following the scroll. 2. The JavaScript used .*live('mouseover')* which binds to body and. wastes memory because it's fired for mouseover on every single DOM. element. 3. Occasionally, the dropdowns never disappeared even after mouseout. This commit fixes those bugs by using CSS and *:hover* instead of. JavaScript. Additionally, it simplifies the JavaScript related to. setting the href of the primary menu item links to their first child. It is a pixel for pixel match of the previous functionality and. appearance Rocky Meza
- Update to bootstrap 2.3.1 Stephen McDonald
- Use Django's module_has_submodule util in any module autodiscover scenarios (page processors, conf defaults) so we can correctly propagate real errors Stephen McDonald
- Tighten up the search form css a bit Stephen McDonald
- Remove the model graph FAQ since no one's actually ever asked it Stephen McDonald
- New docs sesction, Utilities, covering the models/fields in mezzanine.generic, as well as some of the more useful template tags in mezzanine_tags Stephen McDonald
- Django 1.5 url compatability pahaz
- Use future lib in form entries template for backward compat Stephen McDonald
- Fix search form HTML Stephen McDonald
- Add JQUERY_UI_FILENAME setting and corresponding docs Ahmad Khayyat
- Fix rating field lookups Stephen McDonald
- Added domain to cache key for site ID caching Stephen McDonald
- Added some JS to the default front-end templates that delays closing of dropdown menus in the primary nav to make them more user friendly. Closes #587 Stephen McDonald
- Added the setting BLOG_RSS_LIMIT defaulting to 20, which limits the number of blog posts shown in the RSS feed Stephen McDonald
- Update BLOG_RSS_LIMIT setting description to describe setting it to None for no limit Stephen McDonald
- Make BLOG_RSS_LIMIT setting not editable Stephen McDonald
- A little late here, but fix Django 1.3 support Stephen McDonald
- Provide a default max_length for FileBrowseField Stephen McDonald
- Added a website powered by Mezzanine poptosic
- Better comment button text Stephen McDonald
- Unicode fix for comment emails Stephen McDonald
- Don't show site selection form when there's only one site. If there's only a single site, there's no need to show this form, because it can't do anything Gavin Wahl

- Only show one reply form at a time in a comment thread Stephen McDonald
- · Configurable page var names in pagination querystrings Stephen McDonald
- Pin max Django version to 1.5.x Stephen McDonald
- RTL: adjust admin navbar thickness after the js->css change Ahmad Khayyat
- Provide optional template for user panel in nav Stephen McDonald
- RTL: fix position of help icon in filter_horizontal m2m widget Ahmad Khayyat
- Remove content from DisplayableAdmin's search_fields since content is not defined on Displayable and may or may not be present on a model that subclasses it and uses the DisplayableAdmin Josh Cartmell
- · Clean up nav version of user panel Stephen McDonald
- Don't strip any HTML in TinyMCE since filtering is handled by bleach Stephen McDonald
- 569 replace uses of STATIC_URL in templates with 'static' template tag endophage
- site is never assigned when hostname is set, single line addition fixes the problem endophage
- Don't depend on unloaded comment state for determining parent-most level of replies in comment_thread template tag Stephen McDonald
- Fix KeywordsField swapping of name in model's search_fields when a sequence is used Stephen Mc-Donald
- Moved the logic for building up search fields in SearchableQueryset into a new method SearchableManager.get_search_fields, which allows externally retrieving the search fields dict that will be used Stephen McDonald
- Use model's search_fields to populate DisplayableAdmin.search_fields Stephen McDonald
- Fix use of JQUERY_FILENAME with static template tag Stephen McDonald
- Add compress tags to js/css in base mobile template Stephen McDonald
- · Fix empty thumbnails for fielbrowser fields in AdminThumbMixin Stephen McDonald
- · Added AJAX/JSON handling for comment/rating login redirects, and comment form errors Stephen McDonald
- Allow migrations and fixtures to run from scratch without mezzanine.pages installed Stephen McDonald
- Don't update existing ratings if their values haven't changed Stephen McDonald
- · Fix dot lookup in template settings Stephen McDonald
- Upgrade bitly integration added new BITLY_ACCESS_CODE setting to replace the old api settings Stephen McDonald
- Upgrade select_related call in recent_comments template tag Stephen McDonald
- Remove all use of django.conf.urls.defaults since we don't support Django 1.3 anymore. Closes #539 Stephen McDonald
- Remove all special handling for Django 1.3 since it's no longer supported Stephen McDonald
- Removed all use of Django's deprecated ADMIN_MEDIA_PREFIX since we no longer support Django 1.3 Stephen McDonald
- · Added keyword/category filtering to blog post admin Stephen McDonald
- Remove the USE_REVERSION setting since it's incomplete Stephen McDonald
- Remove stray deprecated django.conf.urls.defaults Stephen McDonald
- Update to latest grappelli/filebrowser-safe Stephen McDonald

- Bump grappelli_safe to 0.2.16 Stephen McDonald
- Fix list/tuple handling for AUTHENTICATION_BACKENDS checks in set_dynamic_settings Stephen McDonald
- Revert sequence settings back to tuples in set_dynamic_settings since some Django tests expect them to be tuples Stephen McDonald
- Rename sr@latin locale folders to sr_Latn Sebastián Ramírez Magrí

Version 1.4.3 (Feb 27, 2013)

- domain change to wdiaz William Díaz
- Fixed dynamic admin inlines for subclasses doing fields magic. (assuming that InlineAdmin.fields is a user-provided list) wrwrwr
- Mezzanine's auth backend incompatible with custom user model tests in Django 1.5 Stephen McDonald
- Added Django 1.5 to travis config Stephen McDonald
- Add a fallback for the newly required ALLOWED_HOSTS setting in Django 1.5, that will use the domains defined in the Site model Stephen McDonald
- Use the string name for user relationships in models since trying to import a custom user model falls apart Stephen McDonald
- Remove upgrade flag from installation instructions in case people don't know how pip works Stephen McDonald
- Drop Python 2.5 tests in travis since Django 1.5 doesn't support it and we'll be dropping it soon Stephen McDonald

Version 1.4.2 (Feb 23, 2013)

- Added ratings to comments, with new settings COMMENTS_USE_RATINGS for toggle ratings form in comments, and RATINGS_RANGE for defining valid ratings, replacing the old min/max settings. Also added _sum field injections for models with rating fields, and rating_date field on ratings, for use with time scaled scores - Stephen McDonald
- Ensure emails are lowercased for gravatar hashes Stephen McDonald
- Fix page tree admin template when reversion is used Stephen McDonald
- Enhanced args to gravatar URLs Stephen McDonald

Version 1.4.1 (Feb 19, 2013)

- Remove unnecessary permission from live_settings module. Closes #568 Stephen McDonald
- Test slug after setting parent of an unsaved page with autogenerated slug wrwrwr
- Bum filebroswer_safe to 0.2.16 Stephen McDonald
- Prefix ${\tt BLOG_USE_FEATURED_IMAGE}$ in blog templates with settings., otherwise it always evalutes to False Josh Cartmell

Version 1.4.0 (Feb 17, 2013)

- Added a has_home variable to templates for the page_menu template tag, which indicates whether a homepage object exists, and can be used for checking whether a hard-coded homepage link should exist in the menu template - Stephen McDonald
- Update the default twitter query since it's been flooded by movie tweets Stephen McDonald
- Add a deprecation layer for settings in templates, and deprecate the PAGES_MENU_SHOW_ALL setting since it's too specific for a setting and can be implemented in one line in a template Stephen McDonald
- Added an example to the page menu docs of rendering a tree representing the current section of a site being viewed Stephen McDonald
- Don't need to uncheck in_menus for an editable homepage anymore, so remove the comment describing that Stephen McDonald
- Correctly handle file uploads in profile forms Stephen McDonald
- Alpha-sort options for the search form Stephen McDonald
- Remove Nimbis Services link for now. We haven't deployed our Mezzanine-based Nimbis Services site. into production yet (the old link was to a testing site that is only. used internally). We'll add this back in once we go live with our Mezzanine site Lorin Hochstein
- Also check BLOG_USE_FEATURED_IMAGE in templates when displaying blog post's featured image Stephen McDonald
- Added a sort_by template filter for general use Stephen McDonald
- Removed Slugged.Meta.ordering since it'll generally always be nuked by Meta on a subclass and added correct ordering to BlogCategory Stephen McDonald
- Move clean_content to new DisplayableAdminForm Alex Hill
- Fix parent of Team and History pages in fixtures. Assign the Team and History pages to the About page (id 2) instead of the Blog page (id 1) in Page fixtures Alex Hill
- Fix generating descriptions when saving page instances directly, as their content type subclass fields weren't available for the description Stephen McDonald
- Allow for no content model in Page.description_from_content Stephen McDonald
- Fixed duplicate home IDs in menu templates and add some missing IDs Stephen McDonald
- Check has_home to avoid duplicates. Updated footer_tree.html to behave the same as the other menu templates, checking has_home so that a page that is also the home doesn't end up in the menus twice joshcartme
- Strip language prefix from request path, before trying to match it against pages slugs wrwrwr
- Drupal blog importer for mezzanine blog #issue 527 Bryden Frizzell
- Fixed import_posterous for module requests v1.0.1 and above. issue #528 Skooch
- Restore permission check for editable JS/CSS Stephen McDonald
- Added handling for model field defaults in dynamic inlines. Closes #526 Stephen McDonald
- Precedence of conflicting page processor context. The order of execution of page processors was reversed in #315 so that custom page processors returning an HttpResponse would bypass the default processors. That had the side-effect of making context variables in default processors overwrite those in custom processors, which isn't very intuitive. This change restores the original behaviour of context variables, while retaining the reversed execution order Alex Hill

- Added a welcome message and quick links for getting started, for new developers, to the default homepage template Stephen McDonald
- Fixed conditional context updates in page processors for Python < 2.7 Stephen McDonald
- Fix handling of non-alpha search terms in SearchableQuerySet Stephen McDonald
- Fixed support for automatically adding custom ManyToMany fields in PageAdmin. Closes #534 Stephen McDonald
- Improved some of the messages shown through installation (createdb/syncdb signals) Stephen McDonald
- Clarify requirements for search_fields in the search api docs Stephen McDonald
- Hide the help text for the slug field for Link pages in the admin Stephen McDonald
- Fix JS/CSS file names in base mobile template. Closes #537 Stephen McDonald
- use AUTH_USER_MODEL if available Ben Wilson
- Fix Manager MRO issue where search_fields param threw errors David Novakovic
- Test for SearchableManager in DisplayableManager David Novakovic
- Hopefully fix MRO regression David Novakovic
- Fix MRO issues and avoid regression at the same time David Novakovic
- Protect sequences provided or generated for the default value of MenusField from being forced to unicode (as for example u'[1, 2, 3]'). Django forces fields defaults to unicode unless they're callable (see Field. get_default). This is done to prevent problems that could arise from setting the same mutable object as a default for many fields (see Django ticket #18478) wrwrwr
- add fa and fa_IR locales Mahdi Bornazadeh
- Clean up use of AUTH_USER_MODEL Stephen McDonald
- Database-prepare tuples in the same way lists are handled in MultiChoiceField wrwrwr
- Allow pages to be dragged out of a subtree to the root level in page admin wrwrwr
- Check that setting a new page parent won't cause a cycle in the parent-child graph. Such cycles lead to an infinite loop in Page.save (e.g. python process consuming all resources) wrwrwr
- Altered git repo_url checks to allow ssh hosted git repositories Travis Nickles
- Fixed indentation issue and PEP-8 issue with fabfile mods Travis Nickles
- Don't try to create any pages if the models it uses aren't installed Gavin Wahl
- Support for Django 1.5 custom user models. Uses get_user_model for every reference to User, and provides a default. implementation of get_user_model for Django <= 1.4 Gavin Wahl
- Clean up hg/git checks in fabfile Stephen McDonald
- Move RSS url parsing code from the drupal importer into the main RSS blog importer, and remove the drupal importer since it isn't specific to drupal Stephen McDonald
- Fix import error message in rss importer Stephen McDonald
- Don't use Bootstrap's navbar-inverse class by default, for better theme compatibility. Closes #551 Stephen McDonald
- Fix some missing imports and settings import errors for the new user model hooks Stephen McDonald
- Added possibility to set custom menu titles for models in ADMIN_MENU_ORDER, using the same notation as for views (e.g. (_("News"), "blog.BlogPost")) wrwrwr

- Avoid fixing parent slug in Page.set_parent if the page had no slug to start with wrwrwr
- Use current_page instead of request for is_current. Since we already have the 'current page' object, we can compare it. against ourself to find if we are current Gavin Wahl
- · Replace the rating form with a message after user casts a vote wrwrwr
- Use content_model not the base Page in PageAdmin. When calling methods on a page, they should be called on the subclass, not the base Page. This allows page types to override them Gavin Wahl
- The usage of reversion can now be disabled for DisplayableAdmin uli
- Update admin menu docs to mention labels for regaulr models Stephen McDonald
- · Change new reversion setting to be opt-in instead of opt-out Stephen McDonald
- Moved the MEDIA_LIBRARY_PER_SITE setting from filebrowser_safe into Mezzanine so it's documented. It allows per-site filebrowser root directories - Stephen McDonald

Version 1.3.0 (Dec 26, 2012)

- added dob field to list of form fields mmuk2
- Update url templatetags for Django 1.5. See https://docs.djangoproject.com/en/1.4/ releases/1.3/#changes-to-url-and-ssi. "{% load url from future %}" is omitted in favour of a global import in. boot/__init__.py - Alex Hill
- · Bring templates in line with latest master Alex Hill
- Move forward compatibility code to utils/conf.py Alex Hill
- Assume development server if command is "harvest". Lettuce uses the "harvest" command to run a development server. See http://lettuce.it/recipes/django-lxml.html#lettuce-run-the-tests. Note that if this isn't set, then media will not be served correctly. when testing with lettuce Lorin Hochstein
- Bump versions: filebrowser_safe >= 0.2.12, grappelli_safe >= 0.2.10 Stephen McDonald
- Use non-minified jquery.tools and jquery.ba-resize Per Andersson
- Render admin "add" link if no change permission. Handle the case where a non-superuser staff member has "add". permission but not "change" permission Lorin Hochstein
- Escape backticks in python task in fabfile. Closes #396 Stephen McDonald
- Ensure last output line is used to determine remote STATIC_URL in fabfile, since warnings may occur in output Stephen McDonald
- add related_posts for blog Dmitry Falk
- fix related_posts in template Dmitry Falk
- Allow users to sign up with capital letters in their username David Novakovic
- Update mezzanine/core/admin.py. Add some stuff to OwnableAdmin to make its use more obvious to new users David Novakovic
- Filter urls that use https Eduardo Rivas
- Added mezzanine-polls to third party apps Stephen McDonald
- Update mezzanine/accounts/__init__.py. Display more informative error if this exception is thrown. This exception handler can hide informative errors about model unrelated model declaration. David Novakovic

- Update mezzanine/accounts/__init__.py. Even better checks for the profile model string David Novakovic
- Fix unfiltered RSS feeds for Django 1.3 Stephen McDonald
- Use tag slugs for tag RSS feeds Stephen McDonald
- Fix unicode handling for slugs in Django 1.5 Stephen McDonald
- Fix urls in mobile search include for Django 1.5 Stephen McDonald
- Fix mobile tests for Django 1.5 Stephen McDonald
- Handle invalid images in thumbnail tag. Closes #410 Stephen McDonald
- Use Page URLs without trailing slash when settings. APPEND_SLASH is False Kenneth Falck
- Full support for APPEND_SLASH is False Stephen McDonald
- Removing initial content from createdb when -nodata parameter is present Sean Voss
- Added TWITTER_STRIP_HIGH_MULTIBYTE setting to strip mb3/mb4 characters in Tweets (mainly Emoji), which cause problems with MySQL UTF-8 collation Kenneth Falck
- Added the setting SSL_FORCED_PREFIXES_ONLY, which defaults to True and controls whether URLs not matched by SSL_FORCE_URL_PREFIXES are redirected back to HTTP if accessed over HTTPS Stephen McDonald
- Added the COMMENT_FILTER setting for controlling how comments are rendered. Works the same as the RICHTEXT_FILTER setting. Closes #416 Stephen McDonald
- Added has_children_in_menu and num_children_in_menu attributes to page objects in the page_menu template tag, for determining valid children in the context of a menu and the in_emnus field. Closes #413 Stephen McDonald
- Added automated hg tagging for versions in changelog generation. Closes #259 Stephen McDonald
- Fixed misspelling of argument in send_verification_mail Zean Tsoi
- Framework to allow EXTRA_FORM_FIELDS Sean Voss
- Allow subclasses to define their own ProfileFieldsForm David Novakovic
- patches to be jython compatible Donneker
- Fixes #427: Disqus comment counts are now pulled in on the blog post detail page, if available cato
- Fix incorrect status on quick-blog form. Closes #429 Stephen McDonald
- Make form fixtures optional and remove old fixtures Stephen McDonald
- Use createdb -- nodata in fabfile Stephen McDonald
- Use actual keyword instances in blog listing. Closes #431 Stephen McDonald
- Put block tags into all blog templates so they can be overridden. Closes #443. This resulted in the splitting of the editable field for the title and. publication date in the list page into two editable fields, so they, could be two separate blocks. I notice that the blog detail page. doesn't have an editable field for the publish date at all, which I. shall address separately. block tags are namespaced by blog_post_detail_ and blog_post_list_. respectively, and inside the list page, the blocks related to an. individual post are namespaced with blog_post_list_post_ - Penny Leach
- Made publication date an editable field in the blog post detail template Penny Leach
- Remove selection disabling in page_tree.js causing issues with latest Firefox Stephen McDonald
- Added some missing calls to richtext_filter. Closes #438 Stephen McDonald

- Correctly handle empty password in login form. Closes #439 Stephen McDonald
- Move error templates into custom paths so that Django's tests can trigger errors using its own error templates, since Mezzanine's urlpatterns aren't used which its error templates depend on Stephen McDonald
- Add some extra comments and validation for the new FORMS_EXTRA_FIELDS setting Stephen McDonald
- Allow LoginForm to be inherited and extended Renyi Khor
- Slugged model now uses self.title to generate slug. Fixes #445 Andrey Shipilov
- Update mezzanine/blog/models.py. wrong keyword argument passed to blog_post_list_category in get_absolute_url for the BlogCategory model. This results in an empty url when using Link to my Category. The problem was that the blog/urls.py uses 'category' as the keyword and the get_absolute_url used 'slug' as the keyword. I changed it within get_absolute_url because I guess changing it within blog/urls.py may break backwards compatibility Andre Graf
- Port gallery expose to updated jquerytools version. On overlay load, expose the .image-overlay. Fixes bug where every other image was not exposed due to timing issue. when #exposeMask fades out when already switched to next image Per Andersson
- Use local copies of instead of cdn. * html5shiv. * jquery mobile Per Andersson
- Move html5shiv.js outside of Mezzanine's js directory, since it's not required by Mezzanine itself (eg it's project specific and can be removed per project) Stephen McDonald
- Update blog_recent_posts to allow an optional slug. If the slug is specified returned blog posts will be restricted to being in the category matching the slug. If the slug does not match a category, posts will be returned as normal joshcartme
- Added support for keyword args in the as_tag template tag wrapper Stephen McDonald
- Fix for issue #450: home_slug with prefix uli
- Fix bad semicolon in gallery.js Stephen McDonald
- Use PROJECT_NAME fabric setting as CACHE_MIDDLEWARE_KEY_PREFIX in live_settings.py Stephen McDonald
- Update twitter bootstrap to v2.2.1 Ivan Teoh
- Inverse the top navbar from white to black Ivan Teoh
- Superusers should be able to select any site Josh Cartmell
- Disable front end editing for users who don't have access to a site Josh Cartmell
- Include AdminProfileInline so that it is not lost if the user enables Mezzanine accounts Josh Cartmell
- Check if the user is_staff first to avoid unecessarily reversing admin: index on every request Josh Cartmell
- Only load and display inline editor if the user has access to the current site's admin Josh Cartmell
- Only check if a user has access to the current site in the middleware. Save the result on request.user and use this elsewhere Josh Cartmell
- Added the setting OWNABLE_MODELS_ALL_EDITABLE which allows a sequence of app_label. model_name models to be defined, that are Ownable subclasses which won't have their change-list admin views filtered by user Stephen McDonald
- Updated signal to only automatically create admin profiles for staff and not break the User add view if a site is selected Josh Cartmell
- Fix for issue #470: Right subclass instance in BaseGenericRelation Thomas Jetzinger

- Add homepage url to sitemap.xml Stephen McDonald
- Add handling for multi-tenancy in sitemap.xml Stephen McDonald
- Check for published objects in Orderable.next/previous and allow kwargs to be used Stephen Mc-Donald
- Fixed margins on user-panel buttons Stephen McDonald
- Added Displayable methods get_next/previous_by_publish_date, and used in blog post templates for next/previous blog posts Stephen McDonald
- · More accurate template block name for blog post prev/next links Stephen McDonald
- Fix showstopper on first comment due to url being clobbered and never reset Grant Warren-Robertson
- No need to log user out for invalid admin Stephen McDonald
- Check for login form instead of user perms when choosing which js to load in admin's base template Stephen McDonald
- Still log user out for invalid admin access Stephen McDonald
- add environment setting to supervisor.conf to ensure locale is set correctly for gunicorn subprocesses Doug Evenhouse
- modify environment setting to inject locale specified in FABRIC setting Doug Evenhouse
- Allows regular link Cmd+Click behaviour on OS X. Regular click behaviour still applies. Tested to work in OS X Chrome 24 beta and Firefox 16 beta. TODO: test on other platforms Matt Stevenson
- Document how to run unit tests Lorin Hochstein
- Don't run view functions from page middleware when no page can be found, just pass through. Closes #476 Stephen McDonald
- Update jquery-ui to full 1.9.1, and include smoothness theme. This allows other apps to use a single version of jquery-ui that is. known to be compatible with Mezzanine's version of jquery. This is jquery-ui-1.9.1. all, so all widgets are available and no. additional jquery code is needed. Also, the full smoothness theme. is included. Third-party apps may include other themes Ahmad Khayyat
- Added Django < 1.5's adminmedia tag lib for 1.5 compatibility Stephen McDonald
- Clean up dev server check Stephen McDonald
- Allow category/tag titles to be used in blog_post_recent tag Stephen McDonald
- Bump grappelli safe version to 0.2.11 Stephen McDonald
- Bump filebrowser safe version to 0.2.13 Stephen McDonald
- Added the setting UPLOAD_TO_HANDLERS for configuring the upload_to arg per file field. Closes #480 Stephen McDonald
- · Added missing word in Blogger import notes Matt Stevenson
- Change feedparser URL to authoritative fork. The original author's website(s) returns HTTP 410. Refer to: http://en.wikipedia.org/wiki/Mark_Pilgrim_(software_developer) - Matt Stevenson
- Resolves html entity output re: #482 Matt Stevenson
- Generate better meta descriptions from markdown content. By using the newline character as the first pattern in the generation of the meta description, markdown content (which normally lacks closing tags) is processed correctly Eduardo Rivas
- Parse content with rich_text filter Eduardo Rivas

- · Moved import inside method Eduardo Rivas
- · Added optional parameters to search view Eduardo Rivas
- Request filters: specified using REQUEST_FILTERS in settings.py Chris Ravenscroft
- Added default setting for REQUEST_FILTERS Chris Ravenscroft
- · Works better with the proper values in settings.py Chris F Ravenscroft
- Escape miscellaneous percent symbols in deployment templates; fixes #494 Olivier Harris
- spam filter code moved back to views.py; using mezzanine's module import mechanism Chris Ravenscroft
- Added newline at the end of search_form.html Eduardo Rivas
- JavaScript localization added for mezzanine.forms application Oleg Churkin
- · Correct varible name in single model search Eduardo Rivas
- · Fix site perms template error in admin logout Stephen McDonald
- Update notes in the project_template's urls.py describing how the homepage object should not be assigned to any menu templates Stephen McDonald
- Add new field Displayable.in_sitemap which appears in the meta data section of each admin form, and controls whether the object appears in sitemap.xml. Closes #499 Stephen McDonald
- Added {% search_form %} section to the docs Eduardo Rivas
- Update mezzanine/pages/admin.py. Remove a blank line so tests will pass Kenneth Love
- Don't assume {form, gallery} apps are installed. Importing these in core.management.___init___ causes problems when they. aren't installed. Instead, import them in the function where they're. used Gavin Wahl
- Adds the ability to move a page under a page with no children. I switched to using the jQuery nestedSortable plugin instead of the. sortable plugin provided by jQuery UI, because Pages actually being in a. tree structure, they need a tree editor. This commit temporarily breaks. some functionality such as remembering which pages were open and closed Rocky Meza
- · fixed pagetree hiding of subpages Rocky Meza
- Provide Mezzanine's settings object to the COMPRESS_OFFLINE_CONTEXT setting for django-compressor. Closes #505 - Stephen McDonald
- Fix the bugs that we had with nestedSortable Gavin Wahl
- only .nestedSortable() the first ol Gavin Wahl
- Fix front-end editing links for elements not positioned relative to the document. Use visibility hidden and jquery offset function to ensure edit links are always positioned relative to the document and not relative to a positioned ancestor Jonathan Potter
- Clean up the new page sorting view Stephen McDonald
- Remove old hack for initial page tree click bug that no longer exists. Closes #509 Stephen McDonald
- · Fix null handling in page sorting view Stephen McDonald
- Specify widget for keywords field so it can be overridden properly. Closes #421 Stephen McDonald
- Bug fix for wrong argument ordering for ssl cert handling in fabfile.py David Hess
- Remove some commented out editable settings from the project template's settings.py module, since defining these at the Python level can be confusing once the settings form in the admin is updated. Also made a note of this scenario in the settings docs. Closes #515 - Stephen McDonald
- Add ssl port to nginx.conf. Closes #514 Stephen McDonald

- Bump filebrowser-safe version to 0.2.14 Stephen McDonald
- Don't run redirects tests for Django 1.5 Stephen McDonald
- More commit log filtering for changelog Stephen McDonald

Version 1.2.4 (Sep 03, 2012)

- Added mezzanine.utils.urls.home_slug which will return the slug` arg of the ``home urlpattern, when a urlpattern is defined for an edtiable homepage. This ensures that we don't hard-code the URL for the homepage anywhere, and allows the editable homepage to work correctly when a SITE_PREFIX setting is defined Stephen McDonald
- Added autofocus to first field of the form Renyi Khor
- Added Html5Mixin to PasswordResetForm Renyi Khor
- · Add initial support for importing blog posts from posterous David Novakovic
- Import comments for each post David Novakovic
- Importer docs and small doco fix in code David Novakovic
- We only need the hostname if you have more than one posterous blog David Novakovic
- · Host is optional if you have one blog David Novakovic
- · Remove requests import from global scope David Novakovic
- Make the page.in_menus check a bit more robust in the page_menu template tag, in case it doesn't actually have a value, which may have occured if migrations weren't run when the in_menus field was added Stephen McDonald
- Allow non-page views to specify their own editable_obj context variable, which is then used to determine the url for the admin link in the editable toolbar, falling back to the current page object. Allows for things like blog posts and Cartridge products to contain a direct admin link from the ditable toolbar Stephen McDonald
- Remove unused grappelli_safe urlpatterns Stephen McDonald
- Bump grappelli_safe version to 0.2.9 Stephen McDonald
- Added accessor methods for blog post keywords and categories, so that when we use prefetch_related with Django >= 1.4 we don't need to iterate through every blog post to set up keywords and categories. Closes #383 Stephen McDonald
- Use the named home url for the View site link in the admin header. Closes #389 Stephen McDonald
- Ensure consistent path separators in overextends template tag on Windows. Closes #386 Stephen McDonald

Version 1.2.3 (Aug 22, 2012)

- Only hide delete button in the submit row for SingletonAdmin. Closes #376 Stephen McDonald
- Correctly handle invalid form fields when save is clicked in SingletonAdmin. Closes #375 Stephen McDonald
- Added Ken Bolton's quote to docs homepage mezz is django Stephen McDonald
- Fix kwargs usage to work with other auth backends David Novakovic
- Bump filebrowser version for security fix Stephen McDonald

Version 1.2.2 (Aug 15, 2012)

- Update page menu handling in blog importer Stephen McDonald
- Fix missing import in blog importer Stephen McDonald
- Ensure extra_context in SingletonAdmin is always a keyword arg. Closes #370 Stephen McDonald
- Clean up deploy doc kevinlondon
- Initial layout for filtering RSS feeds by tag/category Stephen McDonald
- Final bits for author/tag/category rss feeds in the blog app Stephen McDonald
- Fixed auth for password reset Stephen McDonald

Version 1.2.1 (Aug 11, 2012)

- Bump min Django version to 1.3.3 Stephen McDonald
- Fix dict handling in changelog builder (not actually used) Stephen McDonald
- Don't rebuild host var in static_proxy. Closes #361 Stephen McDonald
- Fix bug in Page.get_ascendants() pass a map to. PageManager. with_ascendants_for_slug instead of a tuple Alex Hill
- Added more tests for Page.get_ascendants() Alex Hill
- Allow unicode cache keys Stephen McDonald
- Add _order to Page.META.ordering Ken Bolton
- Bump grappelli_safe version to 0.2.8 Stephen McDonald
- Added a check in footer_scripts to only include the analytics tracking code if user is not part of the staff team Pedro Araújo

Version 1.2.0 (Aug 05, 2012)

- Redirect to next param or home on signup with pending account verification. Closes #289 Stephen McDonald
- · Prevent certain exceptions from swallowed by the cache middleware Stephen McDonald
- Removed in_navigation and in_footer fields on the Page model, and replaced them with the in_menus field, which stored a list of IDs specifying which menu templates the page should appear in. Menu IDs are mapped to templates with the new PAGE_MENU_TEMPLATES setting Stephen McDonald
- Template tag changes for the new page.in_menus field Stephen McDonald
- · Added mezzanine-twittertopic to third-party apps Stephen McDonald
- Update fixtures for new Page.in_menus field Stephen McDonald
- Move the page permissions section of the docs to underneath more important topics Stephen McDonald
- Added page menu docs Stephen McDonald
- Ensure unique slugs even when slug is provided. Closes #290 Stephen McDonald
- Add a comment to the default urlconf about changing the admin urlpattern Stephen McDonald
- Don't allow pages to be added as children to a homepage page. Closes #286 Stephen McDonald
- Added more notes around the new SITE_PREFIX setting, and refactored the code a bit Stephen McDonald

- Remove old page admin code for forcing order/slug to be set Stephen McDonald
- Only set COMMENTS_APP if not defined. Closes #294 Stephen McDonald
- Allow internal PAGES_SLUG setting to be configurable Stephen McDonald
- register ThreadedComment admin for mezzanine.generic COMMENTS_APP only Dmitry Falk
- Fix for progressive jpgs in thumbnail template tag. Closes #268. Closes #295 Stephen McDonald
- Don't assume COMMENTS_APP is set Stephen McDonald
- add a block left_panel in base.html to make it easier to over-ride / over-extend Sanjay B
- Ensure urls are only added once to the list of items. It might happen that pages are listed multiple times since for. instance a RichTextPage is also a Page and both are subclasses. of Displayable Enrico Tröger
- Redirect the /account/ URL to the profile update form, and the /users/ URL to the logged in user's profile. Closes #291 Stephen McDonald
- Clean up sitemap URL handling Stephen McDonald
- Use publish_date for BlogPosts in /sitemap.xml Enrico Tröger
- FORMS_USE_HTML5 is a core setting Stephen McDonald
- Allow page objects with removed apps to still render Stephen McDonald
- Ensure mezzanine's apps have their settings loaded before any others Stephen McDonald
- fix utils if mezzanine.accounts not installed Dmitry Falk
- Fix reference to richtext filter settings defaults which are now in mezzanine.core Stephen McDonald
- Fix serialization of Page.in_menus fields for dumpdata command. Closes #303 Stephen McDonald
- Fix initial tuple for ignorable nexts in mezzanine.utils.login_redirect Stephen McDonald
- Make gunicorn names in supervisor project specific. Closes #285 Stephen McDonald
- Added i18n cache key suffix Renyi Khor
- Fix edge case in url templatetag causing ViewDoesNotExist error. It happened when ACCOUNTS_PROFILE_VIEWS_ENABLED was set to False. and profile app called profile (same as url name) was added. to INSTALLED_APPS Michał Oleniec
- Fix TypeError on ProfileFieldsForm save. Passing cleaned_data from ProfileForm into ProfileFieldsForm. caused doubled validation which in case of ForeignKey. field tried to get instance by field value which was instance already. (excepting int from request.POST) Michał Oleniec
- Add customizable profile form. new setting ACCOUNT_PROFILE_FORM. add get_profile_form help method. add generic form getter into views. update mezzanine.account.templatetags Michał Oleniec
- Make editable.js work with JQuery.noConflict() Adam Brenecki
- changes to detect the appropriate page when making the homepage part of the page tree. Old code did not detect the slug appropriatley forcing you to make the slug / in the admin area James Page
- Make some template tags more robust (keywords_for and editable) by failing silently when given an empty variable, as the case may be in the blog templates when no blog page object exists, so we don't need to check for this case in the templates themselves Stephen McDonald
- In the overextends template tag, only remove template paths from the list of available paths when the first call to find_template is made in each call to get_parent, otherwise every second parent template found is skipped Stephen McDonald

- Bump filebrowser_safe to 0.2.9 Stephen McDonald
- Switch page processor execution order so custom slug processors are executed before model processors Hakan Bakkalbasi
- Change @processor_for registration logic so most recently registered page processors are run first Hakan Bakkalbasi
- For custom hompegae slug lookup in PageMiddleware, fix missing import and only call resolve once Stephen McDonald
- Hash cache keys when talking directly to the cache API, to avoid keys longer than the backend supports (eg memcache limit is 255) Stephen McDonald
- · overextends tag path fix for uwsgi Stephen McDonald
- Added new optional field MetaData._meta_title for overriding HTML title tag value, accessible via MetaData.meta_title, which will return the string version of an instance of _meta_title is not provided Stephen McDonald
- Add parent hierarchy to page template rendering Ken Bolton
- · Added rollback command for deploys Stephen McDonald
- Only pip install requirements if the requirements file has changed Stephen McDonald
- Use file.url instead of file.path to auto-generate descriptions for gallery image, as remote storage backends such as S3BotoStorage do not support the file.path method Hakan Bakkalbasi
- Added Django's tz context processor to project_template.settings. Closes #319 Stephen McDonald
- Move settings specific to the pages app into their own defaults module, and add PAGE_MENU_TEMPLATES commented out in project_template's settings.py along with other common settings Stephen McDonald
- · Added missing defaults module for pages Stephen McDonald
- Don't use the timezone context processor on Django 1.3 Stephen McDonald
- Update docs for page hierarchy. Fix page template hierarchy issues around content_model Ken Bolton
- Still call contribute_to_class for dynamic fields in mezzanine.generic even when frozen by south. Closes #321 Stephen McDonald
- Improve page template hierarchy documentation Ken Bolton
- In fabfile, always update requirements if any are unpinned Stephen McDonald
- Fix indentation. <leader>-fef does not understand rst! Ken Bolton
- Remove global from get_parents Ken Bolton
- Adds get_ascendants() to Page. This returns all pages along the path from the root of the Page tree to. this page. The value is pre-calculated in PageMiddleware Alex Hill
- · Add comments and remove an obsolete variable Alex Hill
- Ensure editable integer settings always have a value. Closes #325 Stephen McDonald
- Fix regression in keywords_for tag for class args. Closes #326 Stephen McDonald
- Remove HTML filtering from tincymce setup since we're filtering server-side Stephen McDonald
- Allow comments in HTML filtering Stephen McDonald
- · Change build IRC notifications to only occur if the build status changes Stephen McDonald

- Upgrade manage.py to the new cli handler, and throw out some old dev code. Closes #330 Stephen McDonald
- Further mimic Django's new project layout Stephen McDonald
- Addedd a note to the deployment docs describing how alternative web servers and DBs can be used Stephen McDonald
- Prevent docs build import errors when optional dependencies for the rss blog importer aren't installed Stephen McDonald
- Add links in the depooyment docs to the web and database server sections in the Django docs Stephen Mc-Donald
- Save a query in page.get_ascendants Stephen McDonald
- · Update url for mezzanine-stackato Stephen McDonald
- Fix tests asserting number of queries used Stephen McDonald
- Move ascendant page lookup by slug, from PageMiddleware into a method on a new PageManager manager for the Page model, and use it as the first attempt at loading ascendants in Page.get_ascendants, before falling back to recursive queries in the case of a custom slug in the ascendants chain Stephen McDonald
- Add tests for the new page ascendant lookup methods Stephen McDonald
- Bump filebrowser_safe to 0.2.10 Stephen McDonald
- · Added some notes about parent template selection in the page view Stephen McDonald
- Don't use with_ascendants_for_slug in Page.get_ascendants if a slug hasn't been created yet Stephen McDonald
- · Make relation check in signals for generic fields more robust Stephen McDonald
- Different attempt at making relation check in signals for generic fields more robust Stephen McDonald
- Allow static proxy URL to be configured Stephen McDonald
- Also rename static_proxy URL default in case anyone else's web server alias is slightly off Stephen McDonald
- Preserve slugs & URLs when pages are moved Alex Hill
- Check overridden() when changing slug Alex Hill
- In set_parent(), call save() before get_slug() Alex Hill
- Make slug changes propagate to all descendant pages Alex Hill
- use ugettext_lazy strings for settings form Dmitry Falk
- Allow unicode twitter search queries Stephen McDonald
- static_proxy only needed a rename, not to be congifurable Stephen McDonald
- · Fix menu test to work with lazy unicode settings Stephen McDonald
- Added new, working, repo for mezzanine-openshift. Since the old one doesn't work anymore and is unmaintained - Isaac Bythewood
- Fix collision of all task with built-in all function Lorin Hochstein
- Fixed duplicate posts, -noinput handling and entity decoding in base blog importer Stephen McDonald
- · Restore automatic redirects creation for the wordpress blog importer Stephen McDonald
- Add day parts to the date urlpattern for blog posts Stephen McDonald

- Fix bug in Page.set_parent() when no parent set Alexander Hill
- Allow passing None to Page.set_parent() Alexander Hill
- Add tests for Page.get_slug() and Page.get_parent() Alexander Hill
- Swallow import exception when importing settings.py from fabric Lorin Hochstein
- Don't mask import errors in the actual call to set_dynamic_settings Stephen McDonald
- · add ajax hook for generic rating Dmitry Falk
- Fix references to the recent_comments template tag Enrico Tröger
- · Fix bug in slug handling when adding a new page Alex Hill
- Fix #349 regression in set_page_permissions Alex Hill
- · Madee the labels and help text for the email fields more descriptive Stephen McDonald
- · Added mezzanine-events to third-party apps list Stephen McDonald
- Added FAQ to the docs covering the HTML filtering settings Stephen McDonald
- · Add a setting to send notification mails to MANAGERS when a new comment is posted Enrico Tröger
- · PageAdmin now respects excluded fields Aaron Merriam
- Fix #348, RichTextFields in IE Ken Bolton
- Change the rating ajax response to return the new rating Stephen McDonald
- Added the bool setting PAGES_PUBLISHED_INCLUDE_LOGIN_REQUIRED which when set to False (default) will exclude pages with login_required set to True in PageManager.published. This affects the page_menu template tag which renders menus, and pages listed in search results - Stephen McDonald
- Added get_next_by_order and get_previous_by_order methods to the Orderable model Stephen McDonald
- Allow PAGES_PUBLISHED_INCLUDE_LOGIN_REQUIRED handling to be overridden by callers to PageManager.publsihed for cases when they want to deal with login_required manually, such as in the case of PageMiddleware Stephen McDonald
- Marked fabfile functions explicitly with task decorator, and added a custom docs generator for each task Stephen McDonald

Version 1.1.4 (Jun 27, 2012)

- Add custom introspection rules that prevent duplicate field creation on dynamic fields during migration Stephen
 McDonald
- Use filebrowser field's format attribute rather than extensions. Closes #287 Stephen McDonald

Version 1.1.3 (Jun 26, 2012)

- Allow rel attributes in anchor tags Stephen McDonald
- Don't cast to list in paginate Stephen McDonald
- · Remove redundant ampersands in pagination links Stephen McDonald
- Update the configuration docs example to use author/blooks instead of gallery/images, and add the new options for registered settings, choices and append Stephen McDonald
- Allow default twitter feed to be managed via admin settings Stephen McDonald

- Raise NotImplementedError on Displayable subclasses that don't implement get_absolute_url Stephen McDonald
- Add new setting SITE_PREFIX to configure a custom prefix. This is useful if Mezzanine doesn't run at the root of the domain Enrico Tröger
- Add and use utils.urls.get_page_slug_from_path() to handle non-root configurations. For the pages app, we need to handle removing the SITE_PREFIX and PAGES_SLUG if. they are set Enrico Tröger
- Set is_current on Pages when added to context in PageMiddleware Alex Hill
- Permit disabling page processors at external apps' urls in the page tree Alex Hill
- Refactored overextends template tag to not depend on template origins since they're not available with DEBUG off Stephen McDonald
- Fix variable resolution for as_tag template tags Stephen McDonald
- Added template tags for the various account forms Stephen McDonald
- Bump grappelli_safe to 0.2.7 for admin column sorting fix Stephen McDonald
- · Clean up exact page matching for page processors Stephen McDonald
- Updated jQuery Form Plugin Renyi Khor
- Fix _current_page in middleware Stephen McDonald
- · Reorganised page middleware for fewer queries and readability Alex Hill
- page middleware: use request.path_info Dmitry Falk
- Correctly handle root URL Alexander Hill
- Add check for page_branch_in_footer. Without this check, footer.html is rendered for every page in the tree,. returning an empty string Alexander Hill
- Add perms to existing context page instead of overwriting it. Previously the template tag set_page_permissions would retrieve the. page's content model, set the perms attribute on it, and then replace. the page object in the context with the retrieved object. Setting perms. on the existing page object instead preseves attributes set by set_helpers Alexander Hill
- Check has_children before calling page_menu. This saves a lot of template renders in wide page trees Alexander Hill
- backport of django-forms-builder signals to mezzanine.forms Brian Schott
- set mimetype to empty string in case path is not found Brian Schott
- Handle no blog page existing for meta keywords in the blog list template Stephen McDonald
- Fix path lookup for Python 2.5 Stephen McDonald
- Handle FileBrowseField args in Django FileField fallback Stephen McDonald
- Use image formats for image FileBrowse fields Stephen McDonald
- Bump filebrowser_safe to 0.2.7 Stephen McDonald
- · Cleaned up blog import redirect creation Zachary Gohr
- Bugfix: Account form validation errors on non-html5 browsers Renyi Khor
- added in-navigation test to level 1 Brian Schott
- fix migration without blog app Dmitry Falk

- Ensure Mezzanine's auth backend is enabled if mezzanine.accounts is installed. Closes #281 Stephen McDonald
- Eval settings choices when generating settings docs Stephen McDonald

Version 1.1.2 (Jun 04, 2012)

- Fix slug handling in page middleware for homepage as page object Stephen McDonald
- add some verbose names Dmitry Falk

Version 1.1.1 (Jun 04, 2012)

- Don't assume rating field is named rating Stephen McDonald
- Handle PAGES_SLUG in the page middleware Stephen McDonald
- Make the creation of PAGES_SLUG not dependant on the position of the blog urlpatterns in urlpatterns created before the page urlpatterns Stephen McDonald
- Fix quoting unicode thumbnail filenames Stephen McDonald
- Move lookup of page subclasses into classmethod Page.get_content_models, and call select_related on all page subclasses in the page_menu template tag when used for the admin page tree, since we need to touch all the related content type instances to check page paermissions Stephen McDonald
- Don't assume request is available in page.set_menu_helpers Stephen McDonald
- Move cache-busting querystring into mezzanine.utils.cache.add_cache_bypass and apply it to comments and ratings redirects so that posted content appears immediately Stephen McDonald

Version 1.1.0 (Jun 03, 2012)

- Added MetaData.gen_description bool field for controlling whether description fields are automatically populated via MetaData.description_from_content - Stephen McDonald
- Emit the comment_was_posted signal in the comments view Stephen McDonald
- Correctly handle model field defaults in the quick blog post form Stephen McDonald
- Added the setting COMMENTS_ACCOUNT_REQUIRED, which when True, will store an unauthenticated user's comment in the session and redirect to login/signup, and save their comment once they're authenticated Stephen McDonald
- Use setting names as labels if they're missing Stephen McDonald
- Wrap data access in migrations with checks against the dry_run arg Stephen McDonald
- added missing fr django.mo for the conf app Nicolas Perriault
- Only pre-populate name in the comment form with the user's username if it's not their email address, which it is by default Stephen McDonald
- Always use the name from the comment form, rather than the user's username, since by default it's their email address Stephen McDonald
- Use comments.select_related(user) when loading comments, since Django's Comment model will query for the user each time a comment is loaded Stephen McDonald

- Added the setting ACCOUNTS_VERIFICATION_REQUIRED which when set to True, will create new accounts as inactive, and send the user an email with a verification link to activate their account Stephen McDonald
- Remove invalid examples of gettext in settings module Stephen McDonald
- Fixed slug-based template name loading for non-ascii slugs Stephen McDonald
- Fix unencoded template names from slugs in blog also Stephen McDonald
- Added the SLUGIFY which takes a dotted Python path to the slugify function to use when converting strings into slugs. Defaults to mezzanine.utils.urls.slugify_unicode which allows for non-ascii URLs Stephen McDonald
- Use the text required for the help text for required fields in mezzanine.forms when no help text is entered Stephen McDonald
- Add HTML5 features to the comments form Stephen McDonald
- Fixed assignment of page permissions in the admin page tree Stephen McDonald
- Hide the delete button for mezzanine.core.admin.SingletonAdmin Stephen McDonald
- Added the view mezzanine.core.static_proxy which is used to serve TinyMCE plugin templates, and uploadify's SWF, as these break with cross-domain errors when STATIC_URL is an external host Stephen McDonald
- Fix with statement in Python 2.5 Stephen McDonald
- Bump grappelli and filebrowser versions Stephen McDonald
- Moved all user account features into a new app mezzanine.accounts Stephen McDonald
- Handle non-ascii filenames on non-utf8 filesystems. Convert filenames and warn when saving them, and raise exceptions if trying to access them and the filesystem encoding has changed. Closes #186 Stephen McDonald
- Add new exceptions module Stephen McDonald
- Added the decorator mezzanine.pages.decorators.for_page, which can be used for wrapping views that map to protected pages. The decorator adds the page instance to the template context, and handles login redirects if page.login_required is True. Applied to the blog views, and also added handling for login_required on the blog page in the blog feeds, which if True, stops the feeds from producing any blog posts or meta data Stephen McDonald
- Don't disconnect the default site signal if we're not connecting our own one Stephen McDonald
- Only try and modify template lists when they're available not the case when the response is pulled from cache Stephen McDonald
- Added the ifisinstalled template tag to replace the is_installed template filter, which properly handles include tags when the given app is not installed. Closes #181 Stephen McDonald
- · Allow pages without children to serve as targets for sortable Aleksandr Vladimirskiy
- Fixed regression in admin login interface selector middleware. Closes #192 Stephen McDonald
- Fixed ifinstalled template tag so that it removes all tokens, not just include tags. Closes #193 Stephen McDonald
- Use prefetch_related in Django 1.4 for categories and keywords in the blog post list view. Closes #190 Stephen McDonald
- · Backout admin tree empty child fix for now as it doesn't work quite correctly Stephen McDonald
- Fixed settings docs generator. Closes #189 Stephen McDonald

- Refactoring of blog feed view. Returns a http 404 instead of http 500 when the feed does not exists Thomas Wajs
- Clean up the blog feeds Stephen McDonald
- Dev started in 2009 Stephen McDonald
- Added fix for thumbnail generation which would previously not work for images which contained special characters in the file path and used url encoding - Kowaleski, Jason
- · Added page import to wordpress Alvin Mites
- restore utils/device for fork Alvin Mites
- Added blog post content for the feed description Thomas Wajs
- Allow the homepage to be login protected Stephen McDonald
- Added handling for filebrowser's FileBrowseField directory arg. Closes #202 Stephen McDonald
- Increased field lengths for <code>Displayable.title</code> from 100 to 500 and <code>Displayable.slug</code> from 100 to 2000 Stephen McDonald
- Move ajax csrf setup into its own JS file that's loaded even when a popup interface is loaded. Closes #206 Stephen McDonald
- Added the new app mezzanine.accounts, which handles user login, signup, update, password reset, profile, and integration with Django's user->profile features - Stephen McDonald
- Use ifinstalled for the accounts user panel Stephen McDonald
- Added some commas to the username format error Stephen McDonald
- Give the admin drop-down menu elements the same hover/click state as their anchors. Also closes #208 Stephen McDonald
- Bump filebrowser-safe to 0.2.5 Stephen McDonald
- Properly handle optional file upload fields in mezzanine.forms Stephen McDonald
- · clarify south usage in overview Brian Schott
- Manually assign the parent to each page in the page_menu template tag, to prevent queries being triggered if they're accessed Stephen McDonald
- Update notes about dependencies, and remove notes about setuptools Stephen McDonald
- fixed docstring error in mezzanine_tags.ifinstalled Brian Schott
- Added dynamic validation for content in DisplayableAdmin based on the value of status Stephen McDonald
- Added handling for slug-based template when the homepage is a page object Stephen McDonald
- Add handling for Django 1.4's timezone support Stephen McDonald
- Remove DEBUG check from site/content signals, and prompt the user for the site domain in interactive mode, with local/live fallbacks for non-interactive mode Stephen McDonald
- · Added optional support for django-compressor Stephen McDonald
- Fix thumb_url for root images on remote CDNs Stephen McDonald
- Remove old fixes for Postgres and timezones Stephen McDonald
- Allow initial dicts to be used for forms in mezzanine.forms Stephen McDonald
- Update to new gravatar_url in comments admin Stephen McDonald
- Use Django 1.4's bulk_create when creating field entries in mezzanine.forms Stephen McDonald

- Added multi-tenancy support. A threadlocal object is used to store the current request, and a custom manager for site-related models is used, that checks for the current request and matches the host to a site domain. Current site can also be defined by a session var (for the admin), and an environment var (for management commands) Stephen McDonald
- Made some visual enhancements to the settings admin, added support for settings with choices, and added the RICHTEXT_FILTER_LEVEL setting with choices for controlling the level of HTML filtering that occurs on the RichTextField Stephen McDonald
- Proper timezone support for tweets Stephen McDonald
- Update docs on multi-site to describe the new multi-tenancy approach Stephen McDonald
- Use default STATICFILES_FINDERS setting when setting up compressor Stephen McDonald
- Update travis config to test multiple Django versions Stephen McDonald
- Fix Django install for travis Stephen McDonald
- Added IRC notifications for travis builds Stephen McDonald
- added remote url config script Kent Hauser
- · improved collecttemplates conflict messages Kent Hauser
- remove git.config.sh for pull request Kent Hauser
- Added mezzanine.pages.middleware.PageMiddleware, which handles loading the current page, running page processors, and checking page.login_required. Previously handled in mezzanine. pages.views.page, but move to middleware to allow pages to point to non-page urlpatterns, without any configuration via the now redundant page_for decorator. The page view remains for handling template selection and 404 handling Stephen McDonald
- Added fabfile and configs for server setup and deploys Stephen McDonald
- allow H1s in tinymce lexual
- Handle homepage as page object in the new age middleware Stephen McDonald
- · Added a Link content type for creating external URLs in the page tree Stephen McDonald
- Added the setting ACCOUNTS_MIN_PASSWORD_LENGTH for minimum password length for user accounts Stephen McDonald
- Added the setting ACCOUNTS_PROFILE_FORM_EXCLUDE_FIELDS for excluding profile model fields from the profile form Stephen McDonald
- Ensure min password length in accounts tests Stephen McDonald
- · Hides pagination if only one page Renyi Khor
- Allow auth.User fields to be excluded from the profile form via the ACCOUNTS_PROFILE_FORM_EXCLUDE_FIELDS setting Stephen McDonald
- Initial docs for the bundled fab deployments Stephen McDonald
- fix i18n settings title in admin Dmitry Falk
- Don't show excluded profile fields in profile view Stephen McDonald
- Allow existing virtualenvs to be removed/replaced in fabfile Stephen McDonald
- · Added handling for settings with choices in settings doc generator Stephen McDonald
- Added docs for mezzanine.accounts Stephen McDonald

- Added optional quality arg to be passed to the thumbnail tag, and changed default from 100 to 95 as per PIL docs. Closes #221 Stephen McDonald
- Ensure responses in PageMiddleware are valid responses for adding context to via page processors, eg not redirects Stephen McDonald
- Added the {% overextends %} built-in template tag which allows templates to be both overridden and extended at the same time Stephen McDonald
- In-line edit enhancements re-align on show/resize/expand Van Nguyen
- · Added body resize event for triggering realign of edit controls Stephen McDonald
- · added dropdown menu support Brian Schott
- added default navlist sidebar Brian Schott
- only activate current page Brian Schott
- Fix original image links in gallery template Stephen McDonald
- Refactored fabfile: Move all templates into a config. Move template upload and optional reload into deploy. Added crontab handling Stephen McDonald
- Add proc name to gunicorn conf Stephen McDonald
- · Clean up the new primary dropdown menu Stephen McDonald
- Fixed non field errors in fields_for template tag Stephen McDonald
- Merge navlist into tree menu Stephen McDonald
- In fabfile, prompt to create project if it doesn't exist on deploy Stephen McDonald
- Require hosts in fabfile Stephen McDonald
- Ensure fabfile has hosts, and imports settings from the current path Stephen McDonald
- Clean up ^M characters at end of lines using dos2unix and find: find . -type f -exec egrep -q r^{r} ; -exec dos2unix {}; Thomas Lockhart
- Fix missing tag Pavel Ponomarev
- fix get_absolute_url for homepage Dmitry Falk
- Allow superuser password to be defined in fabric settings, and create superuser if defined Stephen McDonald
- Added the setting ACCOUNTS_PROFILE_VIEWS_ENABLED for explicitly enabling public profile pages, which defaults to False Stephen McDonald
- Only validate fabric settings when fab is run Stephen McDonald
- Shadow the admin password in fabfile Stephen McDonald
- Add handling for the hotfix releases in the changelog builder Stephen McDonald
- Allow large uploads in nginx.conf Stephen McDonald
- Don't fail on fabfile import (for docs build) Stephen McDonald
- Added owner/mode handling for templates in fabfile Stephen McDonald
- Fix keyword queries in blog listing Stephen McDonald
- Use standard page in mobile blog post listing Stephen McDonald
- · Add a cache-busting querystring to device switching Stephen McDonald
- add some verbose names for blog Dmitry Falk

- Remove deprecated clear attr from br tags. Closes #241 Stephen McDonald
- · Added some more notes around twitter cron jobs Stephen McDonald
- · Fixed initial values for entry instances on multi-value fields Stephen McDonald
- Better locale error messages Stephen McDonald
- Added Mezzanine's own cache system combination of Django's cache middleware, two-phased render cache, and mint cache Stephen McDonald
- Added robots.txt/favicon.ico handling in nginx.conf Stephen McDonald
- · Added docs for the new cache middleware Stephen McDonald
- · Clean up the deprecated middleware classes Stephen McDonald
- Default CACHE_MIDDLEWARE_SECONDS to a minute in deployed settings Stephen McDonald
- Add SECURE_PROXY_SSL_HEADER to deployed settings. Closes #246 Stephen McDonald
- · Fix var names in deploy configs Stephen McDonald
- · Cleaned up descriptive text Ross Laird
- · Added "timesince" to displayable Renyi Khor
- · Added thumbnail to blogpost admin Renyi Khor
- Add SSL config to nginx.conf and self signed cert setup to fabfile Stephen McDonald
- git pull -f in deploy Stephen McDonald
- Added mezzanine.utls.models.AdminThumbMixin which provides a method for admin classes to refernce in their list_display that will render a thumbnail. Used for BlogPost.featured_image and Product.image in Cartridge Stephen McDonald
- Revert cache changes to Twitter queries since authenticated users bypass the cache, and the Twitter call will
 generate a lot of queries Stephen McDonald
- Quote thumb names in thumbnail template tag Stephen McDonald
- Use cache backend for sessions in deployed settings Stephen McDonald
- Don't remove key/cert when blowing away a deployed instance in fabfile Stephen McDonald
- Use the parent breadcrumb in blog templates, so as not to assume a single root blog page Stephen McDonald
- Rewrite Page.set_menu_helpers to use the currently viewed page instead of the current URL Stephen McDonald
- Ensure Page.get_absolute_url returns absolute URLs for Link page types Stephen McDonald
- Allow overridden pages (eg the blog) to be deleted and have child pages added to Stephen McDonald
- Recompile all .mo files Closes #250. Closes #251 Stephen McDonald
- Right-align drop-down menus when .pull-right is used Stephen McDonald

Version 1.0.10 (Apr 28, 2012)

• Bump filebrowser-safe for security fix to 0.2.6 - Stephen McDonald

Version 1.0.9 (Apr 26, 2012)

• Add HTML sanitizing on RichTextField instances. Closes #211 - Stephen McDonald

Version 1.0.8 (Mar 24, 2012)

- Fixed .navbar .container responsive width Stephen McDonald
- Added default blank favicon and replace Bootstrap's collapse JS with all Bootstrap JS Stephen McDonald
- Added nav dividers in primary menu Stephen McDonald
- Fixed leftover tag loading in form response emails Stephen McDonald

Version 1.0.7 (Mar 24, 2012)

• Upgrade Bootstrap to 2.0.2 - Stephen McDonald

Version 1.0.6 (Mar 21, 2012)

- Fixed draft status for quick blog form in dashboard. Closes #172 Stephen McDonald
- Format newlines in the quick blog form since the expected format is HTML Stephen McDonald

Version 1.0.5 (Mar 19, 2012)

- Fixed admin navigation showing in inline filebrowser popups when called from TinyMCE Stephen McDonald
- Bump filebrowser_safe to 0.2.3 Stephen McDonald

Version 1.0.4 (Mar 19, 2012)

• No changes listed.

Version 1.0.3 (Mar 19, 2012)

- Don't restrict image width in default css since it's now responsive Stephen McDonald
- Updated templates_for_host to insert default templates after the associated custom template, rather than putting all defaults at the end Josh Cartmell
- Updated templates_for_device to insert default templates after the associated custom template, rather than putting all defaults after all custom templates Josh Cartmell
- Disable nav in popups. Closes #152 Stephen McDonald
- Refactored model graph building in docs call management command natively, and handle all the error conditions Stephen McDonald
- Internal refactoring of abstract models in mezzanine.core. Move admin_link from Displayable to Slugged, since it is more closely related to URLs. Move description_from_content from Slugged to MetaData, since it is more related to description on MetaData. Don't rely on title in description_from_content, just use string version of an instance, which is title anyway via Slugged Stephen McDonald

- Added handling for having 'save' and 'save and continue' in SingletonAdmin Stephen McDonald
- Make pillow an optional dependency, only used when PIL isn't installed Stephen McDonald
- Added bootstrap's collapsible navbar, upgraded jQuery to 1.7, and added a setting JQUERY_FILENAME so that the jQuery file/version is stored in one place Stephen McDonald
- Fix cyclic import in Django 1.4 Stephen McDonald
- Don't abort on graph generation in docs build, since we can use the repo version of it Stephen McDonald
- Pin exact versions in dependencies Stephen McDonald
- Fix form export encoding Stephen McDonald
- Updated database settings to use prefixed format. unprefixed format removed from django 1.4. Added django. db.backends. to. settings.py and local_settings.py templates Patrick Taylor
- Clean up db settings and remove helpers from mezzanine.utils.conf Stephen McDonald
- Added more info and examples of different homepage patterns in project_template/urls.py Stephen McDonald
- · Added FAQs section to docs Stephen McDonald
- Skinned the docs to be in line with the Mezzanine project's homepage styling Stephen McDonald
- Added storage API to thumbnail template tag, and zip upload for galleries Stephen McDonald
- Fix use of with statement for Python 2.5 Stephen McDonald
- Use django's conf at the module level in mezzanine.core.fields, so that fields can be loaded prior to mezzanine.conf being loaded Stephen McDonald
- Exclude static dir from package Stephen McDonald
- Added the collecttemplates management command, for copying all (or app specific) templates to a project Stephen McDonald
- Added secure arg and default expiry seconds to mezzanine.utils.views.set_cookie Stephen Mc-Donald
- Added mezzanine.utils.email.send_mail_template for sending templated email, and integrated with mezzanine.forms. Closes #165 Stephen McDonald
- Fixed weird double-click bug in admin page tree Stephen McDonald
- Fixed regression in orderable inlines from upgrading to latest jQuery Stephen McDonald
- · Fixed regression in keywords field from upgrading to latest jQuery Stephen McDonald
- Fixed signature change in Django 1.4's admin change_view Stephen McDonald
- · Fixed admin login redirect for non-login view URLs Stephen McDonald
- Fixed removed project_template setup in mezzanine-project. Closes #167 Stephen McDonald
- Use operating system separator Chris Trengove

Version 1.0.2 (Mar 05, 2012)

• Update setup to exclude new dev db name - Stephen McDonald

Version 1.0.1 (Mar 05, 2012)

- Add a patch to the changelog generator for the versioning blunder Stephen McDonald
- Added a new middleware which will serve templates from a theme, based upon the host accessing the site Josh Cartmell
- Separated the logic a little more to make host_theme_path more reusable Josh Cartmell
- Remove mention of site_media which no longer applies with staticfiles used Stephen McDonald
- Avoid file-in-use exception when deleting (on Windows) Chris Trengove
- Added quote by Antonio Rodriguez and one line bio for each of the quoters Stephen McDonald
- · Fix a couple of test failures on Windows Chris Trengove

Version 1.0.0 (Mar 03, 2012)

- Fixed runserver arg parsing for grappelli media hosting. Closes #110 Stephen McDonald
- Added a note to the docs about not subclassing RichTextPage Stephen McDonald
- Raise a more meaningful error message when someone tries to subclass a custom content type, which isn't supported Stephen McDonald
- Every model mixing Slugged in with a cyclical dependency fails with dumpdata in current Django (including a tree with a fix applied for Django ticket #14226). The natural key declared in Slugged is the culprit derkaderka
- Bookmarks are removed from grappelli_safe Stephen McDonald
- Fixed duplicate keyword handling regression and added support for automatically removing unused keywords. Closes #116 Stephen McDonald
- Added patching of django.contrib.admin.site in mezzanine.boot to defer certains calls to unregister/register to work around some loading issues for custom model fields Stephen McDonald
- Don't use form email field as from address if FORMS_DISABLE_SEND_FROM_EMAIL_FIELD setting is True John Barham
- Register FORMS_DISABLE_SEND_FROM_EMAIL_FIELD in mezzanine.conf Stephen McDonald
- Fixed migration forms/0003 failure for Postgres Luke Plant
- Fixed dependencies of migrations, so that './manage.py migrate' works even if starting from scratch Luke Plant
- · Added installation instructions for adding Mezzanine to an existing project Luke Plant
- Added a generic RSS blog importer Stephen McDonald
- Added a type attribute to fields in mezzanine.forms.forms.FormForForm for use in styling, and removed CSS class assignments - Stephen McDonald
- Addedmezzanine.mobile commented out to INSTALLED_APPS in project_template. settings Stephen McDonald
- · Fixed authentication check in base admin template Stephen McDonald
- Ported default templates from 960.gs to Twitter Bootstrap Stephen McDonald
- Merge paging links settings into a single MAX_PAGING_LINKS setting Stephen McDonald
- · Cleaned up settings ordering Stephen McDonald
- Stub out empty comment forms in the context for the comments test Stephen McDonald

- Don't show help text for form fields with errors assigned, and show all errors rather than just the first Stephen McDonald
- Added docs for the RSS importer Stephen McDonald
- Update the docs copyright date and fix some warnings Stephen McDonald
- Fix template path for cartridge hook Stephen McDonald
- Added Number and URL field types to mezzanine.forms Stephen McDonald
- Unicode fixes for MS Excel in forms export Stephen McDonald
- Added a work-around for performance issues with jQuery.ui.sortable and large page trees Stephen McDonald
- Add pillow as a dependency for getting PIL install properly Stephen McDonald
- Added handling in PageAdmin for picking up any extra fields defined by subclasses of Page, when the admin class being used doesn't implement any fieldsets Stephen McDonald
- Added a wrapper field mezzanine.core.fields.FileField for filebrowser's FileBrowseField, falling back to Django's FileField if unavailable Stephen McDonald
- · Changed the filebrowser urlpattern to match the admin menu name Stephen McDonald
- Changed thumbnailing to use a separate directory defined by the setting THUMBNAILS_DIR_NAME Stephen McDonald
- Added additional URL structure. To better mimic wordpress and other blogs URL I added a. /year/month/slug url path Josh
- · Changing name of url pattern Josh
- Added an image gallery app mezzanine.galleries Stephen McDonald
- · Give blog post with date urlpattern a unique name and correct regex Stephen McDonald
- Added the setting BLOG_URLS_USE_DATE to control blog post url format Stephen McDonald
- Added my site which has taken the fairly popular pixel theme from Wordpress and partially created it from the html5boilerplate. I'll be working on rounding it out even further joejulian
- Fixed Joe Julian's site link Stephen McDonald
- Device detection uses lowercase strings Alvin Mites
- Added unique URLs for gallery photo overlays Stephen McDonald
- Updated device checking based on conversation from Stephen McDonald Alvin Mites
- Added a num_children attribute to page objects in page menus Stephen McDonald
- Changed LICENSE from 3-clause to 2-clause BSD Stephen McDonald
- · Fixed unicode handling in gallery image description from name Stephen McDonald
- Added gallery image tests Stephen McDonald
- Added demo fixtures for galleries Stephen McDonald
- Add Blog Featured Images. Added featured images for blogs as well as settings to turn the feature. on and off Josh
- Migration file for Featured image and setting the field to null Josh
- Updated page_menu and tree.html to avoid creating uls if no pages in the page_branch are in_navigation-Josh Cartmell

- Updated page_menu page_branch_in_navigation and page_branch_in_footer to be more concise. Updated tree.html and footer_tree.html not print out uls unless page_branch_in_navigation or page_branch_in_footer are set Josh Cartmell
- Accidentally omitted if from tag Josh Cartmell
- Updated footer.html to avoid unecessary uls Josh Cartmell
- Rolling back as the previous change to footer.html did not work with 3rd level menus Josh Cartmell
- Updated footer.html again to avoid unecessary uls Josh Cartmell
- Updated footer.html identation to be more consistent Josh Cartmell
- Refactored device handling to be based on TemplateResponse objects since dropping Django 1.1/1.2 support Stephen McDonald
- Use filebrowser field for blog feature image, and add template handling for it Stephen McDonald
- · Removed all uses of ifequal and ifnotequal templatetags Stephen McDonald
- Added model graph to docs Stephen McDonald
- Change Displayable.status default to published Stephen McDonald
- Create dest directories in mezzanine.utils.tests.copy_test_to_media Stephen McDonald
- Prevent child pages being added to protected pages. Closes #131 Stephen McDonald
- Added SSLMiddleware which redirects based on matching url prefixes. Updated defaults.py with new settings related to the middleware. Added deprecation warning if SHOP_SSL_ENABLED or SHOP_FORCE_HOST is found in settings - Josh Cartmell
- Updated deprecation warnings to work Josh Cartmell
- Middleware now redirects back to non-secure if the request is secure but does not have a prefix from SITE_FORCE_SSL_URL_PREFIXES Josh Cartmell
- Added fix for footer.html if a page is primary, in footer and the first in the loop Josh Cartmell
- Removed cartridge checks from SITE_FORCE_SSL_URL_PREFIXES defaults. Moving to cartridge and using append Josh Cartmell
- \bullet Restored <code>mezzanine.core.AdminLoginInterfaceSelector</code> and added a deprecation warning Stephen McDonald
- Added the setting TINYMCE_SETUP_JS which controls the URL for the TinyMCE setup JavaScript file Stephen McDonald
- Renamed SSL settings to begin with SSL and moved deprecation warnings to Cartridge Stephen McDonald
- Moved account functionality from Cartridge into Mezzanine, and added data migrations for editable setting name changes Stephen McDonald
- Make generated fields in mezzanine.generic (_string, _count, _average, etc) uneditable, to prevent them from appearing in admin change views that don't have explicit admin classes registered Stephen McDonald
- Ensure generated fields in mezzanine.generic are unique instances Stephen McDonald
- Fixed branch clicking in admin page tree so that open/close for a branch doesn't toggle its children (Thanks Jason Kowaleski) Stephen McDonald
- Changed admin dropdown menu to be injected into breadcrumb area, rather than floating on it, to allow for the breadcrumb background to wrap with menu items when the browser window is thin Stephen McDonald

- Fixed admin page tree on reload. The problem occured when reloading a page after setting an open child branch's. parent as closed. When you reloaded a page the routine that would. reopen previously opened child branches (that are currently hidden by a parent). was causing said child branch displaying both the show(+) and hide(-). icons side by side which could be seen when reopening the parent. It would also cause this said hidden, opened child branch. to no longer be registered in the opened branch cookie. So if you were to. reload the page again, this branch wouldn't be opened at all. The solution involves simply reopening all previously opened branches on. reload without worrying about adding their ID's again to the cookie. It also. avoids using the Jquery toggle() function which seemed to be the problem. that caused both the show(+) and hide(-) buttons to appear Kowaleski, Jason
- · Refactored rating form and templatetag to remove hard-coded field name Stephen McDonald
- Raise exception if any of the generic fields are used multiple times on the same model, since we don't have access to the field being modified in the signals Stephen McDonald
- Added migrations for mezzanine.galleries Stephen McDonald
- Fail silently and return an empty list for objects given without a KeywordsField Stephen McDonald
- Refactored comment handling into its own view, and removed mezzanine.generic.utils. handle_comments Stephen McDonald
- Revert previous change for removing hard-coded rating field name, and remove the hard-coded field name by simply finding the first RatingField for the given object, since there can only be one Stephen McDonald
- Fix logic in form export Stephen McDonald
- In mezzanine.forms, allow FormEntry instances to be provided for FormForForm and handle loading and updating FieldEntry values Stephen McDonald
- Update packages docs and re-generate settings docs Stephen McDonald
- Remove unnecessary time_format handling in SplitSelectDateTimeWidget which doesn't exist in Django 1.4 Stephen McDonald
- Add missing messages context processor for Django 1.4 Stephen McDonald
- Allow docs to build even if model graph can't be built Stephen McDonald
- Allow BLOG_SLUG to be set to an empty string, in which case the catch-all urlpatterns belong to the blog, and page urlpatterns get their own URL prefix Stephen McDonald
- Use a generic sqlite db name in local_settings.py Stephen McDonald
- Upgrade to Bootstrap 2.0 Stephen McDonald
- Added Javascript to show only pages with children in tree, and to update this after moving pages (via drag and drop) Kowaleski, Jason
- · Add fallback for blog title when blog page isn't available Stephen McDonald
- Fix gallery overlay close handler Stephen McDonald
- · Add the missing viewport for the responsive layout to work correctly Stephen McDonald
- Updating doc for model customization, registering works better in admin.py Ismail Dhorat
- Change the template copying option in the mezzanine-project script to default to False Stephen McDonald
- Create entries for empty fields, so that export filtering works correctly Stephen McDonald
- Setup local_settings template when testing Stephen McDonald
- Updated -t help text to reflect that it is no longer the default Josh Cartmell

- Updated the mezzanine-project command to have a -m option which must be specified to copy over mobile templates. The -t option now skips over mobile templates Josh Cartmell
- Removed the make_grappelli/filebrowser_safe scripts as they're no longer useful since we've customized those packages - Stephen McDonald
- Remove themes from feature list Stephen McDonald
- Version bump to 1.0 Stephen McDonald

Version 0.12.4 (Dec 03, 2011)

- Synchronize PO files with tip Sebastián Ramírez Magrí
- Added a note to the documentation overview about assumed Django knowledge with a reference to the tutorial Stephen McDonald
- Let messages fail silently for Django < 1.3 stephenmcd
- Don't rely on version checking for adding cookie-based messaging stephenmcd

Version 0.12.3 (Nov 22, 2011)

- Fixed Disqus single-sign-on bug where message is overwritten to <message, timestamp> and returned incorrectly in payload - Brett Clouser
- Changed thumbnail test to remove test thumbnail even if test fails Stephen McDonald

Version 0.12.2 (Nov 18, 2011)

• Added the mezzanine.utils.html.TagCloser class that closes open tags in a string of HTML. Used in Displayable.description_from_content to ensure valid HTML is returned when extracting the first block/sentence. Fixes #100 - stephenmcd

Version 0.12.1 (Nov 18, 2011)

- possibility to insert fieldsets' fields in classes extended from DisplayableAdmin (was not possible, tuples are immutable) Zdeněk Softič
- Added handling in BaseGenericRelation for actual instance being deleted. Fixes #103 stephenmcd
- Added testing for correct keyword string population on keyword removal stephenmcd

Version 0.12 (Nov 05, 2011)

- added allow_comments flag to blog, and moved the site filed up the class hierarchy from Displayable to Slugged, plus migrations legutierr
- KeywordManager needs to subclass CurrentSiteManager in order to take advantage of multi-site capability added to Slugged legutierr
- This is probably the most complex migration I have written. Read inline comments for more information legutierr
- Fixed unicode handling in CSV export in the forms app stephenmcd
- Fixed Django 1.3/1.4 feed handling stephenmcd

- Added fallbacks for blog feed title and description for when the blog page doesn't exist stephenmcd
- Added response tests for the blog feeds stephenmcd
- Added handling for spaces in keywords stephenmcd
- Fixed meta keywords loading in blog post templates stephenmcd
- · Upgraded keyword handling in mobile templates stephenmcd
- Changed keywords_for template tag to handle None being given as an instance stephenmcd
- Added support for using generic relations as order_with_respect_to on subclasses of Orderable, and applied to AssignedKeyword so that keyword order is maintained stephenmcd
- Fixed check for generic relations in Orderable stephenmcd
- Stringify secret_key because hmac hates unicode Ken Bolton
- Fix issue #97. Add PNG support Ken Bolton
- Renamed export related areas to entries in the forms app and added handling for deleting form entries stephenmcd
- Added mezzanine.utils.messages module with fallbacks for the django.contrib.messages app stephenmcd
- Added a count for the number of entries displayed in the admin for the forms app stephenmcd
- Use css selectors rather than JS for injecting the count in the admin entries view for the forms app stephenmcd
- Added a comment to the urlconf in project_template describing the importance of ordering in relation to mezzanine.pages urlpatterns when adding your own stephenmcd
- Added the mezzanine.boot app which exists for handling setup code, and added the EXTRA_MODEL_FIELDS setting which is used by boot to inject extra fields onto any models required via the class_prepared signal stephenmcd
- Use the DEV_SERVER setting when setting up Grappelli media hosting stephenmed
- Updated the EXTRA_MODEL_FIELDS example in settings.py stephenmcd
- Added EXTRA_MODEL_FIELDS to mezzanine.conf.defaults stephenmcd
- Added initial docs for model field customization stephenmcd
- Restructured the docs into more logical paragraphs and added some missing modules to the packages docs stephenmed
- Allow for non-keyword args for fields in EXTRA_MODEL_FIELDS stephenmed
- · Initial attempt at a subclassable MixinModel for injecting fields and methods into external models stephenmcd
- Add png & gif thumbnailing. Support for filebrowser FileBrowseField thumbnailing Ken Bolton
- Somehow, this didn't make it up to my repo Ken Bolton
- if setting in registry is no more registered, delete it from registry btx
- Added sections to the model customizations docs about field injection caveats and exposing custom fields in the admin stephenmcd
- Updated grappelli version requirement stephenmcd

Version 0.11.10 (Sep 24, 2011)

- Upgraded pyflakes test to handle latest version of pyflakes stephenmcd
- better fix by Stephen for dynamic inline fields focus issue Eli Spizzichino
- · Changed install command to only fake migrations when South is installed stephenmcd
- Renamed install command to createdb and added deprecation warning for install stephenmcd

Version 0.11.9 (Sep 21, 2011)

- Added defaults for cookie messaging with Django >= 1.3 stephenmed
- Moved description and keywords fields out of Displayable and into their own MetaData abstract model stephenmcd
- Added handling for changes to the syndication app in Django 1.4 stephenmed
- Added feed imports to suppressed pyflakes warnings stephenmcd
- Removed fixtures from tests stephenmed
- Fixed device template test stephenmcd
- Enable iframe, xhtmlxtras in tinymce Ken Bolton
- Bumped grappelli-safe version requirement stephenmcd

Version 0.11.8 (Aug 23, 2011)

• Fixed incorrect setting name in device handling docs - stephenmcd

Version 0.11.7 (Aug 18, 2011)

• Upgraded DISQUS handling in the blog templates to properly use the generic app, as well as fixing DISQUS identifiers to be unique across different models - stephenmcd

Version 0.11.6 (Aug 13, 2011)

- Decorate blog posts in blog_post_list with lists of categories and keywords stephenmcd
- Added a has_childen helper to page objects in the page menus stephenmcd
- Fixed styling of fixed footer in admin change form when Grappelli is not used stephenmcd
- Fixed migration of object_pk in Rating and AssignedKeyword David Prusaczyk
- Added null defaults for generic migration fix stephenmed
- Created an install management command that combines syncdb and migrate -fake to correct the issue of initial migrations failing with multiple apps. As a result reverted USE_SOUTH default to True and removed the handling of south for fixture loading - stephenmed
- Fixed a bug in orderable inlines where order fields would be wiped on inlines that only contain a file upload field stephenmed
- Fixed quick-blog form styling to be fluid stephenmed
- Fixed bug with url field hiding logic stephenmed

- Added a custom slugify function to mezzanine.utils.urls that preserves unicode chars to support non-English URLs - stephenmcd
- Updated jquery-ui version. Fixes #80 stephenmcd
- Add placeholders for dynamic inline sorting stephenmed
- Fixed category decorator query in blog post list when there are no blog posts stephenmcd
- · merging pending changes to mezzanine trunk legutierr
- Migration adding site field to dynamic settings needs to be split into separate schema and data migrations legutierr
- Fixed slug calculation for pages so that actual parent slugs are used. Fixes #82 stephenmcd
- fixed unicode encode error with cyrillic slugs in template loader Andrew Grigrev
- switch to turn comments on blog posts on/off Johnny Brown
- fixed unicode encode error with cyrillic slugs in template loader in other places Andrew Grigrev
- changed google analytics js to what they gave me Johnny Brown
- Added ARA Consultants to site using Mezzanine stephenmed

Version 0.11.5 (Jul 03, 2011)

- Changed device test to use a page it creates itself stephenmcd
- Updated old contentpage template in the mobile theme to richtextpage stephenmcd

Version 0.11.4 (Jul 03, 2011)

- fixes 500 error on mobile theme (bad template tag) Owen Nelson
- Updated processor_for as exceptions received were TypeError get_model() takes at least 3 arguments (2 given) not a ValueError Josh Cartmell
- Fixed some new pyflakes warnings stephenmcd
- Only run thumbnail test when the test image is in the current project (eg Mezzanine dev) stephenmcd
- Fixed tinyMCE setup to allow tables Zeke Harris
- Fix allowing inline editing of form content on form pages by avoiding naming conflicts with the inline editing form Josh Cartmell
- Update example settings. Fixes #70 stephenmcd
- Don't use HTML5 required attributes on multiple checkboxes stephenmcd
- Adding site FK to mezzanine.conf.models.Setting and read/write hooks to present content based on current_site Ken Bolton
- Allow override of GRAPPELLI_ADMIN_HEADLINE and _TITLE in settings.py Ken Bolton
- Proper setting of default values for GRAPPELLI_ADMIN_HEADLINE and _TITLE, to fix #74 Ken Bolton
- Proper setting of default values for GRAPPELLI_ADMIN_HEADLINE and _TITLE Ken Bolton
- Update the site for existing settings when migrating stephenmed
- added post_count to blog_categories tag Michael Delaney
- Added select_related for blog list view stephenmcd

Version 0.11.3 (Jun 09, 2011)

- catches exception generated when trying to retrieve the admin url for a model that is not registered, to allow some Page models not to be registered in the admin legutierr
- migration 0004 conflated a schema migration and a data migration, which was causing problems with MySQL. The two are now separated - legutierr
- pass all form media to the template Owen Nelson
- adding docs for RICHTEXT_FILTER setting Owen Nelson
- updated docs on how to customize RICHTEXT_FILTER Owen Nelson

Version 0.11.2 (May 31, 2011)

- compile language files, compiled blog, mobile, twitter language files Alexey Makarenya
- Updated 960.gs to fluid version stephenmcd
- Remove mezzanine from internal Mezzanine urls stephenmcd
- · Test to verify if thumbnail generation is working Brent Hoover
- Added 500 handler view that adds MEDIA_URL to the context stephenmcd
- · Fixed unicode handling in KeywordsWidget rendering stephenmcd
- Added pip requirments to project_template and use it to define Mezzanine's actual version number stephenmed
- Reverted change to storing version number to work with docs generation stephenmcd

Version 0.11.1 (May 24, 2011)

- Upgraded comment handling to work with new comment models in base blog importer. Fixes #59 stephenmcd
- Only look for tags if it isn't going to throw an AtributeError rich
- Only look for tags if it isn't going to throw an AttributeError rich
- Split mezzanine.core.admin.DynamicInlineAdmin out into TabularDynamicInlineAdmin and StackedDynamicInlineAdmin stephenmcd
- · Fixed missing media from dynamic admin form stephenmed
- Added the template filter is_installed which can be used to test for values in the INSTALLED_APPS setting from within templates stephenmcd
- Added is_installed for blog app around feed urls in mobile base template stephenmcd
- Added integration with django's sitemaps app stephenmcd
- Added handling in KeywordsWidget for the keywords field not existing in the request. Fixes #64 stephenmed
- Fixed issue where admin.StackedInlines would not display in the admin Josh Cartmell
- Updated tinymce_setup.js to only initialize when TinyMCE is available stephenmcd
- Updated dynamic_inline.js to support StackedDynamicInlineAdmin stephenmcd
- Reordered jQuery in base_site.html to avoid issues when Grappelli isn't installed stephenmed
- · Added CSS classes to each of the comment fields stephenmcd

- Addd better hanadling in the keyword widget for when no keyword field is in the request. Previous fix only corrected the field not existing in the form object stephenmcd
- Fixed the version check for collapse_backport.js stephenmcd
- Added Single-Sign-On support to Disqus templates Brett Clouser
- Added handling for unauthenticated users and empty key settings for Disqus single sign-on stephenmcd
- Updated auto-generated settings docs stephenmcd
- Added some sys.path fixing in manage.py to avoid some cron issues stephenmcd
- Changed <code>object_pk</code> fields to integer fields in the generic app to resolve some issues with Postgres stephenmcd
- Added migrations for <code>object_pk</code> change in generic. Fixes #66 stephenmcd
- Fixed loading of blog posts for a tag stephenmcd

Version 0.11 (Apr 30, 2011)

- Created a GRAPPELLI_INSTALLED setting that is dynamically set, and made it available to JavaScript in the admin so that this can be determined reliably without depending on Grappelli specific HTML/CSS stephenmcd
- Made the default value for the DASHBOARD_TAGS setting dynamically created based on whether mezzanine.blog is in settings.INSTALLED_APPS stephenmcd
- Added commented-out versions of some common Mezzanine settings to the project_template's settings module stephenmcd
- French locale for all other apps Dominique Guardiola
- Updated inline-editing docs to include a note about the tags already being provided by themes stephenmcd
- Added setting for specifying the delimiter for CSV exports in the forms app stephenmcd
- Added an option to view entries in a HTML table when exporting for the forms app stephenmcd
- Fixed Page.get_absolute_url to use its static slug rather than dynamic get_slug. Fixes #45 stephen-mcd
- Making Query.value a varchar(300) to allow for larger queries John Campbell
- make value length 140 instead of 300 since the max twitter query is 140 currently John Campbell
- Added migration for twitter query length stephenmcd
- Converted blog categories to a ManyToManyField stephenmcd
- Added migration scripts for blog categories stephenmcd
- not sure how there wasn't one of these already Tom von Schwerdtner
- Added post counts to archive and author listings for blog posts stephenmcd
- add a label to registered settings for a more human-friendly admin UI Tom von Schwerdtner
- A meta title for the default project homepage Tom von Schwerdtner
- add title/tagline to admin settings Tom von Schwerdtner
- a (slightly) better default tagline, and make settings available to templates Tom von Schwerdtner
- Move the LOGIN_URL default into the project's settings module so it can be modified stephenmed

- Modified the AdminLoginInterfaceSelector middleware to recognise next paramters in the querystring, and redirect to those regardless of the interface option selected on the login form - stephenmcd
- Applied SITE_TITLE and SITE_TAGLINE to templates stephenmed
- Made description field for meta data into plain text stephenmcd
- · Added descriptions for new settings stephenmcd
- Added styling for the blog tagline stephenmcd
- Updated the auto-generated settings docs stephenmcd
- Implemented initial version of custom per-page permissions stephenmcd
- Added some template code to the gallery example in docs stephenmcd
- Changed TinyMCE setup to properly support embed code stephenmcd
- Integrated the SITE_TITLE and SITE_TAGLINE settings better into templates stephenmed
- Removed handling of HTML from Displayable.description stephenmcd
- Updated the settings docs with the restored defaults for the SITE_TITLE and SITE_TAGLINE settings stephenmed
- Added a section to the admin customization docs about defining custom widget classes for HtmlField fields stephenmed
- Changed mezzanine-project script to exclude admin templates stephenmcd
- Added note to deployment docs about setting up a cron job for Twitter feeds stephenmcd
- Added embedded robots.txt to prevent spidering when DEBUG is enabled stephenmcd
- Fixed handling of anonymous comments in the Disqus API stephenmcd
- Changed handling of editable settings to force unicode for settings with string defaults. Fixes #52 stephenmcd
- Initial version of refactoring comments into Django's built-in comments, and moving them into the new generic package stephenmcd
- · Added multi-site capability and tests, updated jso page fixtures to include site reference legutierr
- added migrations for the new site field on Displayable legutierr
- Fixed bug in login redirect was defaulting to /accounts/profile/ upon login before and showing the logged in user a 404 error. Now defaults to /admin/ Audrey M Roy
- Added migrate command to setup steps. Closes #54 stephenmcd
- · Fixed incorrect tag lib name in template stephenmcd
- Added documentation regarding multi-site to the deployment page in the docs legutierr
- Fixed mezzanine-project script where an error would occur when more than one project template with admin templates was used stephenmcd
- Refactored the Keywords model to use generic relations and moved it and all related functionality into mezzanine.generic stephenmcd
- Fixed a bug where django.conf.settings would override <code>mezzanine.conf.settings</code> stephenmcd
- Added tests for keywords stephenmcd
- Added migrations for keywords stephenmcd

- Updated mezzanine/core/media/js/dynamic_inline.js to allow multiple DynamicInlineAdmins on a single admin page Josh Cartmell
- Fixed a potential circular import bug stephenmed
- Added more error handling to the processor_for page processor decorator stephenmed
- Added delete links to the admin page tree stephenmcd
- Updated search to respect published status Josh Cartmell
- Small fix to Keywords Field. Stops instance from saving if keyword data is empty Osiloke Emoekpere
- Removed DEV_SERVER setting from local_settings module template, since this is defined dynamically stephenmcd
- Removed south from the OPTIONAL_APPS setting, since the addition of this to a project needs to be controlled manually, as the order of initial migrations for each app cannot be guarenteed and will break if used to create the tables for these apps. Added the USE_SOUTH boolean setting which can be defined to automatically have south added to INSTALLED_APPS when available. Fixes #53 - stephenmcd
- Removed handling of admin user for returning unpublished search results stephenmcd
- · Added test to ensure only published objects are returned as search results stephenmcd
- Fixed bug where superclasses in concrete model inheritence chains would cause duplicate search results stephenmcd
- Fixed bug where _order values were not being set for dynamic inlines stephenmcd
- Added extra_context arg to mezzanine.pages.views.page stephenmcd
- Refactored the page processor to only accept one argument since its behaviour is to only deal with one stephenmcd
- · Added note to docs about slug-based page processors stephenmcd
- Removed migrate command from installation notes since south is no longer automatically configured stephenmcd
- Re-sequenced the migrations for the Displayable.site field stephenmcd
- · Applied workaround for unexplainable Django issue where certain signals get lost stephenmcd
- Updated settings form template to have a submit row and error note consistent with other admin change forms stephenmed
- Added ratings to mezzanine.generic and applied to the blog app stephenmcd
- Updated auto-generated settings docs stephenmcd
- Added handling for page menus where parent page is explicitly provided. Fixes #58 stephenmcd
- Renamed Content to RichText, ContentPage to RichTextPage, and HtmlField to RichTextField-stephenmcd
- Fixed handling of USE_SOUTH setting so that south is also removed when explicitly set to False stephenmed
- Updated template for RichTextPage stephenmcd
- Fixed toolbar styling for TinyMce inside the inline editing form stephenmcd

Version 0.10.6 (Feb 13, 2011)

· blog strings from html templates - Dominique Guardiola

• Apply the CSRF token to all AJAX posts in the admin - stephenmcd

Version 0.10.5 (Feb 10, 2011)

- Updated mezzanine.utils.importing name in package docs stephenmcd
- Changed cache handling to remove middleware classes if no cache backend specified stephenmcd
- Refactored adding of optional apps so that it only occurs once, and the ordering of installed apps so that order is not modified unless necessary (eg grappelli) stephenmed
- Moved generation of docs/settings.rst and CHANGELOG from docs/conf.py into functions in mezzanine.utils.docs-stephenmcd
- Fixed admin fieldsets example in docs stephenmcd
- Removed includes from mobile theme that replicated JavaScript common to all devices stephenmcd
- · Fixed JavaScript for Discus comments include the absolute URL stephenmcd
- Fixed module margin in admin dashboard stephenmcd
- Changed Google Anylatics code so that the main tracking args can be overridden via a block stephenmed
- Reverted Google Analytics block in favour of checking for an existing _gaq JavaScript var stephenmcd
- fix for ajax in admin not using csrf token for forms. fix for django 1.2.5 lexual

Version 0.10.4 (Jan 28, 2011)

• Fixed regression in cache defaults. Django defaults to a 5 minute memory cache which functions with Mezzanine's caching middleware installed by default. We now set the cache backend to dummy if no cache backend is defined in the project's settings module - stephenmcd

Version 0.10.3 (Jan 28, 2011)

- Renamed the module mezzanine.utils.path to the more accurate mezzanine.utils.importing stephenmcd
- Added the function mezzanine.utils.importing.import_dotted_path for importing via Python paths to names which are defined as string settings stephenmcd
- Removed the cache defaults stephenmcd

Version 0.10.2 (Jan 26, 2011)

- Updated docs to describe approach for adding fieldsets to subclasses of PageAdmin stephenmcd
- Added a depth arg for select_related in the recent comments panel of the admin dashboard stephenmcd
- Restored depth arg for select_related in blog manager stephenmcd
- Added deployment section to docs describing the various aliases required for serving media files, and added a management command which prints these out stephenmed
- Grammar fix in docs stephenmed
- · Added lost password link to login template stephenmcd
- Fixed the handling for creating the default user when south is installed. Closes #34 stephenmcd

Version 0.10.1 (Jan 12, 2011)

• Fixed bug in PageAdmin._maintain_parent where it was assumed a location header exists for a redirect, which isn't actually the case when the page is being edited via a popup window as a forgien key - stephenmed

Version 0.10 (Dec 21, 2010)

- Renamed fixtures to not be installed with syncdb and added signal to install them when pages are first installed stephenmcd
- Renamed example mobile template so that it won't be rendered by default stephenmcd
- Updated device template test to only run when device templates exist stephenmcd
- Added a setting for restricting setting available in templates stephenmcd
- Fixed some CSS around inline editing stephenmcd
- Added hook for third-party apps to extend existing settings stephenmcd
- Fixed settings append hook stephenmcd
- Backported inline editing helptext markup for Django <= 1.2 stephenmcd
- Fixed settings append hook again stephenmcd
- Added handling for variable template names in include tags stephenmcd
- Cleaned up a ton of unused imports. Fixes #29 stephenmcd
- Added initial south migrations for all apps stephenmcd
- Added initial optional support for HTML5 with placeholder attributes in the forms app stephenmcd
- · Added support for HTML5 required attributes in the forms app stephenmcd
- · Refactored values for field types in the forms app to separate out classes and widgets stephenmcd
- Added HTML5 field types to the forms app: date, datetime, email stephenmcd
- Rename user variable to author in mezzanine.blog.views.blog_post_list to avoid clobbering Django's user context variable. Fixes #30 stephenmcd
- Update to new author var in blog listing template stephenmcd
- Reduced the width of text fields for field inlines in the form admin stephenmcd
- Updated the layout for auto generated packages docs as well as adding new missing modules. Made a giant sweep of the code base adding and updating docstrings that appear in the packages docs stephenmed
- Removed unused admin template filter is_page_content_model stephenmcd
- Fixed south compatibility with fixture loading stephenmed
- make save/delete buttons in admin, always visible at screen's bottom edge lexual
- Added a CSS shadow to the inline editing form stephenmcd
- Fixed missing hidden fields in the inline editing form stephenmcd
- Added a split datetime widget with select fields for date parts in the inline editing form stephenmcd
- Refactored mezzanine.utils module into a package stephenmcd
- · Moved pyflakes test runner into utils stephenmcd
- Updated package docs layout with new utils package stephenmed

- make static save buttons in admin, not affect admin login page lexual
- · Fixed path for serving of theme assets stephenmcd
- Moved handling of serving assets during development from project's urlconf into mezzanine.urls stephenmcd
- · Removed favicon handling during development stephenmcd
- Refactored urls so that mezzanine.urls becomes the main point for combining urls for all the different apps. Also moved homepage url into the project's urlconf as it's expected to be modified stephenmed
- Removed use of Django's LOGIN_FORM_KEY from Mezzanine's AdminLoginInterfaceSelector middleware since it was just removed from Django trunk and now breaks. Fixes #31 stephenmcd
- · Added a background gradient to pages in the admin page tree stephenmcd
- Moved admin submit-row buttons CSS into base admin template stephenmcd
- Fixed serving of media files outside of a theme when a theme is defined as in development stephenmcd
- Added support in the admin page tree for changing parents via dragging between branches stephenmcd
- Fixed failures in Django's tests caused by automatically using a cache backend when available stephenmcd
- · Added handling for regenerating slugs when a page's parent changes stephenmcd
- Fixed bug where editable settings were being loaded from the DB on every access stephenmcd
- Updated each of Mezzanine's apps to use its version number as their own stephenmcd
- Restored empty string as default TIME_ZONE value so Django uses the system timezone stephenmed
- Moved the Grappelli/Filebrowser/caching setup into mezzanine.utils.conf stephenmcd
- Made editable template tag fail silently if None is given stephenmed
- · Fixed overridden slugs changing on pages when their parent changes stephenmcd
- Changed Page.overridden to be more reliable by not using get_absolute_url which can be incorrect without a permalink stephenmcd
- tinymce: remove word styling when cutting and pasting. Remove unnecessary toolbar buttons lexual
- · remove more MS word paste junk from tinymce pasting lexual
- Updated handling of post_syncdb signal to still execute when south is installed stephenmcd
- Fixed unicode bug when non-ascii strings are used in the blog comment form and break when persisted to a cookie stephenmcd
- Refactored out the widget for the HtmlField into its own widget that can then be replaced via the setting HTML_WIDGET_CLASS stephenmcd
- Fixed bug in post_syncdb signal handler names stephenmcd
- Added new hooks for page menus for determining whether a page is a child or sibling of the current page jdeblank
- · Added initial version of a mobile menu that only renders child page links jdeblank
- Removed redundant setuptools requirement stephenmcd
- · Cleaned up unused imports stephenmcd
- Fixed default settings ordering stephenmcd
- · Updated auto-generated settings docs stephenmcd

- · Fixed a pathing bug in creating themes on Windows stephenmcd
- Added HTML5 form features to inline edit forms stephenmcd
- Added a context-aware version of Django's inclusion_tag template tag stephenmcd
- Moved assignment of menu helper page attributes into Page.set_menu_helpers and renamed some of them to be clearer in purpose - stephenmcd
- Refactored menu template tags into a single tag page_menu which accepts the name of the menu template to use stephenmcd
- · Added initial handling for overriding device in a cookie stephenmcd
- Changed mezzanine.core.models.Displayble.set_searchable_keywords to only trigger a save when the keyword list changes stephenmcd
- Moved the call to mezzanine.core.models.Displayble.set_searchable_keywords inside mezzanine.core.admin.DisplayableAdmin from save_form to save_model so that it is only triggered when the entire form including inline formsets are valid stephenmcd
- Changed mezzanine.utils.conf.set_dynamic_settings to ensure debug_toolbar. middleware.DebugToolbarMiddleware is only ever added once when installed stephenmcd
- Added a set_cookie function to save repeating seconds conversion and encoding stephenmed
- Changed the check for a device in cookies to only match if the value is a valid device stephenmcd
- Added a set_device view for explicitly requesting the site for a particular device via cookie stephenmed
- Moved mobile templates to mobile theme directory stephenmcd
- Moved determining device from request into mezzanine.utils.device_from_request stephenmcd
- Created a device aware version of Django's cache middleware that uses the device for the request as part of the cache key stephenmcd
- Updated device section in docs to include a section about the mezzanine.mobile theme stephenmcd
- Updated text for link to mobile site stephenmcd

Version 0.9.1 (Nov 28, 2010)

- stop creation of empty p id="description" (Potentially needs refactoring) aka not too elegant Lee Matos
- · Fixed white-space in blog list template stephenmcd
- Fixed branching of admin media hosting for Grappelli stephenmcd

Version 0.9 (Nov 28, 2010)

- Change the logic around settings loading to avoid some untrappable errors creating the DB table stephenmed
- Update setting names in docs stephenmcd
- Update conf app name in packages docs stephenmcd
- Update to multiple DB settings stephenmed
- update to jquery 1.4.4] jquery-1-4-4-release-notes/-lexual

http://blog.jquery.com/2010/11/11/

• Fixed the blog_categories template tag so that it returns a list of categories without duplicates - Brad Montgomery

- Added a "get_recent_posts" template tag Brad Montgomery
- Update template loader and auth context processor names to newest versions with fallbacks for Django 1.1 stephenmed
- Add south introspection rules for mezzanine.core.fields.HtmlField-stephenmcd
- · allow definition lists in tinymce lexual
- Modification of the importer script to be more streamlined. Moved importer to the blog module main and still to refactor the changes to the command line module. Can be run from a django shell and import blogger and word press ajfisher
- · Initial layout for themes stephenmcd
- finished refactoring of importers module and wrote new import blog handler to import the various blog types into mezzanine. Also stripped down the params to be passed in on the word press blog now treating any path as a url and dealing with it system side rather than user side ajfisher
- · Added documentation around blogger import stuff ajfisher
- · Remove some old redundant template tag loading stephenmcd
- · Add admin change logging to inline editing stephenmcd
- Allow newer versions of Django to determine full paths for templates in the start_theme command stephenmed
- if image is already the right size, don't change it (fixes bug where image quality is degraded if same size.) lexual
- Add copying of media files to start_theme command stephenmcd
- Initial support for hosting a theme stephenmed
- Fix check for exact image size in thumbnail template tag stephenmcd
- Make use of conf module's name within itself dynamic stephenmcd
- Create a path_for_import utils function for calculating package/module paths stephenmod
- Add media hosting for a theme when defined stephenmed
- Further refactoring of the import process using a BaseImporterClass which is a Command and then setting up specific implementations for Wordpress and Blogger ajfisher
- Modification to the docs in order to update the new structure of the commands and also how to implement a new importer class ajfisher
- · removed all the now-superfluous files ajfisher
- · Wrap lines in blog import docs stephenmcd
- Modifications to make the class abstraction more tidy and clean up some other bits and pieces of code as well ajfisher
- First round of edits for the blog import docs stephenmed
- Fix up constructor logic stephenmed
- Fix mezzanune_user reference in base blog importer stephenmcd
- · Move the output messages for blog importing into the base importer class stephenmcd
- Fix settings access for THEME in urls.py stephenmcd
- · Fix duplicate months in archive list for blog stephenmcd

- Initial version of install_theme command stephenmcd
- Add handling for interactive option in install_theme command stephenmcd
- · Rename scripts directory to bin for consistency with Django stephenmcd
- Rename Blog importer convert method to handle_import and pass it options directly to mimic Django commands more closely stephenmed
- Clean up unused exceptions in Blog importer stephenmcd
- Add a old_url arg for posts in base Blog importer for creating redirects stephenmcd
- Upgrade import_tumblr command to use new importer base stephenmcd
- Add handling in the import_tumblr command for more posts that a single call to Tumblr's API allows stephenmed
- · Add handling for verbosity option in base Blog importer stephenmcd
- Add handling for all post types in the import_tumblr command stephenmed
- Fix some errors and add Tumblr info to the blog importing doc stephenmcd
- Move Google Analytics and editable_loader tag into their own include template footer_scripts. html stephenmcd
- Add docs for themes stephenmcd
- Rename recent_posts blog template tag to be consistent with other tags stephenmcd
- Add recent blog posts to filter_panel.html stephenmcd
- js fix for ie bug with formbuilder lexual
- Modified the blog's filter_panel tempate so tags get closed properly Brad Montgomery
- More robust handling for class-based views in mobile middleware. Closes #23 stephenmcd
- add primary menu id to the UL for semantic and/or styling uses Lee Matos
- Moved mezzanine.templates into a package stephenmcd
- Add context-aware replacements for Django's render_to_response, select_template, get_template and template tags include and extend stephenmcd
- Changed calls to select_template and render_to_response to use Mezzanine's context-aware versions stephenmcd
- Added main handling for device specific template directories stephenmcd
- Added a context-aware replacement for Django's direct_to_template stephenmcd
- · Moved the test mobile homepage into its device specific subdirectory stephenmcd
- Fixed renaming of node class in extends tag stephenmcd
- Replaced mobile middleware test with device specific template test stephenmcd
- · Added "blog-post-tile" class for semantic/styling purposes Lee Matos
- Added documentation for device specific template loading stephenmcd

Version 0.8.5 (Nov 10, 2010)

- CSS update for default templates stephenmcd
- Add more fine-grained error handling for tumblr_import management command stephenmed
- Change TinyMCE options to relax allowed HTML stephenmcd
- · CSS updates to inline editing form stephenmed
- Initial version of admin dashboard plugin system with Quick Blog and Recent Comments implemented as dashboard widgets stephenmed
- · Convert remaining dashboard sections into dashboard tags app list and recent actions stephenmcd
- · Add the new screenshot stephenmcd
- · Add docstring to inline editing view stephenmcd
- Add basic support for class-based views in mobile middleware and a more explicit check for unique mobile template names stephenmcd
- Backed out changeset: c2ed0a189648 stephenmcd
- Re-apply TINYMCE_URL setting, lost from merge stephenmed
- · Move settings for forms app into main settings module stephenmcd
- Fix filebrowser_safe generator script to add a dummy Image module which will prevent breaking when PIL isn't installed. Closes #15 stephenmcd
- Give the ContentPage model a more descriptive name for the content type dropdown menu in the admin page tree stephenmcd
- Convert mezzanine.settings into an app with values lazy loaded via DB stephenmcd
- Add a default user when syncdb is called stephenmcd
- Rewrite settings app to give more control over when settings are loaded so that fewer DB queries are used stephenmed
- Prevent settings from being loaded from DB during syncdb stephenmcd
- Change settings from dicts into objects so they can be more easily identified when iterating through the mezzanine.settings.defaults module stephenmcd
- · Add admin view and form for editing all settings stephenmcd
- Fix post_syncdb signal for demo user to work with Django 1.1 stephenmed
- · Fix casting of boolean settings from DB stephenmcd
- · Add a redirect on successful update of settings stephenmcd
- · Add tests for settings app stephenmcd
- Fix custom field HTML for Django 1.1 stephenmcd
- Add hook for apps to register their own settings stephenmed
- Update docs to use new settings app stephenmcd
- Fix export for forms with deleted fields in forms app stephenmcd
- · Allow comma separated list of field choices to contain commas when quoted in forms app stephenmcd
- · Add a back button to the admin export view in the forms app stephenmcd
- · Fix missing import in forms export stephenmcd

- Allow multiple fields to be used in a single editable tag stephenmcd
- Update docs with information about grouping together fields for inline editing stephenmcd
- Update creation of default user to only run with --noinput passed to syncdb stephenmcd
- tree_menu_footer tag added. Exact same as "tree_menu" but checks if in footer not if in nav lexual
- Hide the slug field and delete button in the admin for pages with an overridden urlpattern stephenmcd
- · Display list bullets and numbers in content Eric Floehr
- · Fix rendering editable fields when not authenticated stephenmcd
- Update mezzanine-project script to remove pyc files when creating new projects stephenmcd
- · Remove admin menu from popups stephenmcd
- Add mezzanine.core.templatetags.mezzanine_tags.thumbnail for image resizing stephenmcd
- Add docs for the mezzanine.settings app stephenmcd
- Strip newlines from commit messages in the auto-generated CHANGELOG stephenmcd
- · use export instead of checkout Tom von Schwerdtner
- Use svn export in grappelli/filebrowser scripts. Closes #16 stephenmcd
- · Fix split on commit author in automated CHANGELOG generator stephenmcd
- · Fix unrequested settings being loaded from DB stephenmcd
- Allow no names to be provided when calling editable_settings stephenmcd
- Sort setting names for settings form in admin stephenmed
- Add Django as a dependency and remove import from project_template.settings in setup.py which depends on Django stephenmcd
- Remove redundant call to jQuery.noConflict since editable_loader is now at end of the document. Also check for an existing jQuery instance before including it - stephenmcd
- Fix isDirty() check for file fields in dynamic inlines stephenmcd
- · Fix inline editing for file uploads stephenmed
- Give each inline editable form field a unique ID to allow multiple TinyMCE editors to work correctly stephenmcd
- add csrf_token to form for inline editing (django 1.2 fails without this.) lexual
- · admin now contains link back to site lexual
- · Move site link in admin to user-tools panel stephenmed
- move toolbar for editable inline to the right hand side lexual
- Backed out changeset 50aa6171231d lexual
- move inline editable toolbar to top right lexual
- Make number of comments for a BlogPost available via BlogPostManager stephenmcd
- Add mezzanine.utils.admin_url which handles reversing different admin URLs. Also rename admin_url template tag to try_url to better reflect its purpose stephenmcd
- Add a (yet to be used) SingletonAdmin class for creating admin classes that manage models with a single instance stephenmed

- Clean up the dynamic inline hooks Django uses that get left behind by using Grappelli's inline template stephenmed
- Remove redundant reference to jquery stephenmcd
- Different approach to cleaning up __prefix__ templates from inlines just remove them stephenmcd
- Hide the unwanted add link stephenmed
- admin_app_list template tag bugfix lexual
- make inline editable forms pretty lexual
- Backed out changeset: 7a1d5a321032 stephenmcd
- Add support for custom navigation items in ADMIN_MENU_ORDER and configure filebrowser as an item stephenmcd
- Add docs for custom navigation items in admin stephenmed
- · Add Wordpress support to blog importer ajfisher
- · Added importer with command line option ajfisher
- 1. Some changes to the importer module in order to clean up. 2. Implementation of framework to use tumblr in importer module. 3. Addition of new tumblr module, adapting from @stephenmcd 's previous work but extending it to work into new importer framework - ajfisher
- Catch DatabaseError instead of trying to check for syncdb when reading DB settings to allow for other DB management related commands to run such as south stephenmcd
- Rename mezzanine.settings to mezzanine.conf stephenmcd
- Make the DatabaseError import compatible with Django 1.1 stephenmed
- Put fixtures into a potentially more stable order stephenmcd
- Update the admin menu with the new conf name stephenmcd
- fixed some code logic to enumerate more cleanly and removed the testing 5 item max results ajfisher
- modified to include tries on the feedparser import and exit gracefully if not. Also cleaned up some enumeration stuff and making the tags code into a list comprehension ajfisher
- added some graceful exit handling if the gdata library isn't available ajfisher
- streamlined tag stuff to use a list comprehension ajfisher
- Replace the approach of calling mezzanine.conf.load_settings to create new instances of settings objects with a single instance via mezzanine.conf.settings that contains a method use_editable which when called will mark the settings object for reloading settings from the db stephenmcd
- Refactor settings loading to reload settings when use_editable called stephenmcd
- Remove unused func editable_settings stephenmcd
- Explicitly evaluate the results for blog template tags so that queries are only executed once stephenmcd
- Replace load_settings template tag with a context processor for a global settings object stephenmcd
- Remove the SETTINGS_EDITABLE setting and check for mezzanine.conf in installed apps stephenmcd
- Remove the MEZZANINE_ prefix from checking project's settings for default values, since non-mezzanine apps may register settings themselves stephenmcd
- · Group the form fields for editable settings by prefix stephenmcd
- Update documentation to reflect refactoring of the conf app stephenmcd

• Allow the BlogCategoryAdmin to be displayed in the admin menu when explicitly defined in ADMIN_MENU_ORDER - stephenmcd

Version 0.8.4 (Sep 30, 2010)

- Fix PostgreSQL error on tweet lookup stephenmcd
- Use dynamically generated intro for posts in blog listing page rather than the description field stephenmcd

Version 0.8.3 (Sep 29, 2010)

- Workaround for when mezzanine is hosted under a different urlspace. (Only tested with Django admin, not grappelli). The keywords.js file needs to reference a mezzanine URL, from the admin site. It used to use a hard-coded string with a root-absolute path, but this failed when mezzanine was hosted elsewhere. Instead, we now reference a global Mezzanine JS object, which is set by template, using URL reversal to find the correct url. This requires a reworking in how the PageAdmin object accesses its Media settings previously the list of js files was calculated at module load time, but at this stage the url reversal mechanism won't work, because the urls.py aren't all loaded yet, Instead, we hide the list generation inside a lazy iterator object and create the list on demand Toby White
- Fix admin menu for earlier than Python 2.6 which lacks tuple.index stephenmcd
- add active class to footer menu lexual
- Don't fail if PACKAGE_NAME_FILEBROWSER or PACKAGE_NAME_GRAPELLI aren't set just don't try & load them Toby White
- Fix grappelli/filebrowser package creation scripts to be Python 2.5 compatible. Closes #12 stephenmcd
- Create a template tag for reversing urls from within admin templates that fail silently when the url can't be reversed, as this is always the case when running admin tests. Apply this to both the admin dropdown menu and to the base admin template making all templates aware of the admin_keyword_submit URL so that it does not need to be hard-coded stephenmcd
- Backed out changeset: d43f3e430d1f stephenmcd
- Replace MobileTemplate middleware with a decorator. If mezzanine is being used as an application within another project, then the MobileTemplate middleware may not be appropriate to use on URLs outside of mezzanine's control. In fact, if the project uses other calling conventions (eg class-based views) then the middleware may fail completely Toby White
- Fix positioning of admin dropdown menu in Firefox. Closes #11 stephenmcd
- Let the location of the tinymce scripts be overridden Toby White
- Give the Page object a get_admin_url property, which we can use to provide direct links to a Page's admin page from the editable toolbar Toby White
- add id's to tree-menu, fix bug with multiple "first" class being set lexual
- Add a filtering form for exporting responses in the forms app stephenmcd
- Add branch_level and html_id attributes to pages in menu template tags stephenmcd
- Add TEST_DATABASE_COLLATION for MySQL stephenmed
- Fix field length of test data stephenmcd
- Remove trailing commas from tinymce_setup.js that break IE. Fixes #14 stephenmcd

Version 0.8.2 (Sep 23, 2010)

- Backed out changeset 0e7907eef4fc lexual
- move editable-loader to bottom of template to fix weird webkit layout bug lexual
- 960 stuff into separate files lexual
- custom css in separate files lexual
- Modify absolute <code>ADMIN_MEDIA_PREFIX</code> value when using grappelli to read in ip/port from <code>sys.argv-stephenmcd</code>
- Clean up a bunch of dead code. Fixes #10 stephenmcd
- Test for existence of TinyMCE before using it in JS Toby White
- Fix missing quotes for CONTENT_MEDIA_URL setting stephenmcd
- Type in setting function stephenmcd
- Fix handling of empty field values in forms app by not saving them stephenmcd

Version 0.8.1 (Sep 19, 2010)

• No changes listed.

Version 0.8 (Sep 19, 2010)

- Allow search fields for SearchableManager to be defined across multiple models in an inheritance chain stephenmcd
- Refactor models to remove the content field from the pages.Page model (and therefore the core. Displayable model from which it inherits) so that custom content types can be created without the content field. Introduces a new default content type pages.ContentPage stephenmcd
- Remove BLOG_TITLE and BLOG_DESCRIPTION from mezzanine.settings and replace use of these with the title and description of the blog page from the pages app allowing them to be in-line editable stephen-mcd
- Separate dynamic inlines into its own js file stephenmcd
- Make class name unique for dynamic inlines stephenmed
- Fixed a bug with the stripping of comment dates ajfisher
- Added comment migration to the post importing. Have disabled keywords /. tags for the moment due to an error from refactoring ajfisher
- added some exception handling to start cleaning up things ready for. the proper management command set up ajfisher
- · removed some of my testing params and made them generic ajfisher
- Fix with statement for Python2.5 in setup.py. Closes #9 stephenmcd
- Refactor ordering and dynamic "Add another" enhancements to admin inlines so that they explicitly target the correct inlines stephenmcd
- Move scripts into scripts directory and use OptionParser in mezzanine-project script to allow options for copying templates, package source and specifying an alternate package to install from stephenmcd
- Fix logic of checking a page's slug to be selected in page_menu template tag stephenmcd

- Remove the list of apps/models from the admin dashboard and move them into a navigation menu persistent throughout the entire admin stephenmed
- Trap failure to resolve admin URLs so that tests can pass stephenmcd
- Set mezzanine.core.admin.DynamicInlineAdmin.extra to 20 unconditionally stephenmed
- Try and check for jQuery before loading it for admin menu stephenmcd
- Fix styling of messages to prevent them being layered on top of the admin menu stephenmcd
- Update auto-generated settings docs stephenmcd

Version 0.7.4 (Sep 11, 2010)

- Use ADMIN_MEDIA_PREFIX in path to TinyMCE js. Closes #6 stephenmcd
- Refactor generation of Displayable.description to not explicitly use content field stephenmed
- Fix sequence of styling for selected nav in tree menu stephenmcd
- Let blog views render even if the blog page object doesn't exist stephenmcd
- Add a test for generated page descriptions stephenmcd
- Allow test for overriden pages to pass when blog page doesn't exist stephenmcd
- fix up footer positioning lexual
- Fix field length for field types in forms app stephenmcd
- Update mezzanine-project script to copy templates into newly created project stephenmcd
- Fix missing enctype in forms template for forms with file uploads stephenmcd
- Add a new help_text field to form field model in forms app stephenmcd
- Add email_subject and email_message fields to form model in forms app stephenmcd
- Fix pages.page_processors.processor_for to return the function it decorates so they can be referenced from their modules for documentation purposes stephenmed
- Fix docs in mezzanine.utils stephenmcd
- Add mezzanine.forms to package docs stephenmcd

Version 0.7.3 (Sep 03, 2010)

• Alignment fixes to the footer menu - stephenmcd

Version 0.7.2 (Sep 02, 2010)

- Refactor mezzanine.template to use functools.wraps stephenmcd
- Move local_settings module into a template stephenmcd
- Align TinyMCE width with other admin fields stephenmed
- Refactor slug creation functionality out of Displayable model into Slugged model stephenmcd
- Add BlogCategory model and associated functionality stephenmcd
- Added BooleanField in_navigation and in_footer to Page model to allow for controlling navigation placement of pages stephenmcd

- · Bugfix to slug fields change to CharField to allow slashes stephenmcd
- Better styling for the footer nav stephenmed
- Add a primary attrib for page objects in menu templates stephenmcd
- · More styling enhancements to footer menu stephenmcd
- · Add new fixtures for demonstrating footer menu stephenmcd

Version 0.7.1 (Aug 30, 2010)

· Bugfix to mobile middleware for view functions without keyword args - stephenmcd

Version 0.7 (Aug 29, 2010)

• Integrate 960.gs CSS framework into default templates - stephenmcd

Version 0.6.4 (Aug 29, 2010)

- Backed out changeset: 8dac998c6f0c stephenmcd
- Add expiry_date field to DisplayableAdmin stephenmcd
- Change if tags in breadcrumbs and toplevel_menu templates to be Django 1.1 compatible, and to use the page.selected attribute rather than template_utils lib, allowing it to be removed from pages_tags stephenmcd
- Use consistant naming for each type of page menu and include all types of page menus in default templates stephenmcd
- Create a custom breadcrumb menu for blog posts stephenmcd
- Replace the setting tag with a load_settings tag that takes a list of setting names and injects them into the template context stephenmed
- Bugfix template tag name for admin page menu stephenmcd

Version 0.6.3 (Aug 26, 2010)

• Bugfix login redirect to be compatible with Django 1.2 - stephenmcd

Version 0.6.2 (Aug 26, 2010)

- More error handling to CHANGELOG generator ensure hg repo also exists stephenmcd
- Add a button_text field to forms model for editing the text of the form's submit button stephenmcd
- · Bugfix to forms button text stephenmcd
- Add new field Displayable.expiry_date and relevant handling in PublishedManager. published-stephenmcd
- Add field for default values in forms app and new field types: Check boxes, Radio buttons, Hidden stephenmcd
- Add login_required field to page model for restricting pages to authenticated users stephenmcd

Version 0.6.1 (Aug 23, 2010)

- Update to Mezzanine 0.6 VanL
- Update <code>pages_tags</code> to include comparisons and toplevel/breadcrumbs tags; added associated templates VanL
- Set TIME_ZONE to use the system timezone stephenmcd
- Change CHANGELOG generator to fail silently when mercurial isn't installed stephenmcd

Version 0.6 (Aug 09, 2010)

- Bugfix to mobile template test to allow for no template inheritance stephenmcd
- Initial import of django-forms-builder stephenmcd
- Bugfix to orderable_inline.js to correctly detect dirty checkboxes stephenmcd
- Move mezzanine.core.models.HtmlField to new module mezzanine.core.fields stephen-mcd
- Allow model/field passed to editable templatetag to contain extra dot notation stephenmcd
- Convert forms_builder app to a Mezzanine content type stephenmcd
- Extend admin definitions from inherited admin classes for FormAdmin stephenmcd
- Bugfix for generating slugs with parent pages for subclasses of Page stephenmcd
- Initial commit of the importer code for blogger. Comprises the baseline generic importer code for mezz that will be used by all input types and the baseline processor for blogger. 0.1 ajfisher
- Updated sequence of classes in documentation to run correctly thanks Nick Hagianis for picking this up stephenmed
- Handful of patches to correct bugs around creating slugs, titles and ordering for pages and their subclasses stephenmed
- Add a contact form to fixtures stephenmcd
- Added built-in styling to form fields in forms app stephenmed
- unnecessary imports removed ? lexual
- Added missing line in docs for in-line editing example stephenmcd
- Remove natural keys from fixtures for Django 1.1 compatibility stephenmcd

Version 0.5.4 (Jul 25, 2010)

- Bugfix to in-line editing view missing import stephenmcd
- Moved setting of class attribute for TinyMCE into HtmlField stephenmcd
- Added loading animation to in-line editing stephenmed

Version 0.5.3 (Jul 24, 2010)

- Use names of packages from settings in setup script stephenmcd
- Make changelog generator in Sphinx conf list changesets within a version in chronological order stephenmcd
- Update CSS for in-line editing toolbar to stay fixed at top of the page stephenmcd
- Added handling for models to define their own editable method for controlling in-line editing stephenmcd
- Added the abstract model Ownable for defining models with instances owned by users, containing is_editable hook and admin class for setting the owner of new objects and restricting objects to their owners stephenmcd
- Apply Ownable abstract model to BlogPost model and related classes stephenmcd
- Wrap quickblog form in permission check stephenmcd

Version 0.5.2 (Jul 22, 2010)

- Allow interface selection on admin login screen to prepopulate from querystring stephenmcd
- spelling fixed in docs lexual
- Added more backward-compatible csrf handling stephenmcd
- Added more robust handling for csrf and apply to forms stephenmcd
- Bugfix setting author of blog post in BlogPostAdmin to be compatible with DisplayableAdmin stephenmcd

Version 0.5.1 (Jul 18, 2010)

- Bugfix to permission check for in-line editing stephenmcd
- Bugfix to persist values for in-line TinyMCE fields stephenmcd
- Created HtmlField and TinyMceWidget for more control over targetting textareas as TinyMCE fields stephenmcd
- Bugfix to TinyMceWidget name stephenmcd
- Include Csrf Middleware when available stephenmcd

Version 0.5 (Jul 18, 2010)

- Added 'Posted by' text to blog posts stephenmed
- Fixed grammar error in docs stephenmcd
- · Added routine to Sphinx conf to auto-generate changelog from mercurial repo stephenmcd
- Change admin title to Mezzanine stephenmcd
- Make slugs editable in admin stephenmcd
- Bugfix links to RSS feeds stephenmed
- Update to_end_tag with context and token args, but only use as many args as the tag supports stephenmed
- · Created system for inline-editing stephenmcd
- · Apply in-line editing to templates stephenmcd

- · Add option to admin login screen to log into site for in-line editing stephenmcd
- Added docs for in-line editing stephenmcd

Version 0.4 (Jul 11, 2010)

- · Added search functionality and moved pagination out into utils and templatetags stephenmcd
- Remove weight from search results output stephenmcd
- A bunch of updates to doc strings stephenmed
- Added documentation for search API stephenmcd
- Added highlighting to blog post author's own comments stephenmcd
- Save blog commenter's details in a cookie stephenmcd
- Bugfix to links in recent comments section of admin dashboard stephenmcd

Version 0.3.5 (Jul 08, 2010)

- Bugfix to page template missing tag library stephenmcd
- Bugfix to tests loading and version bump stephenmed

Version 0.3.4 (Jul 08, 2010)

- Add blog migration to feature list stephenmcd
- · Added support for natural keys stephenmcd
- · Bugfix to natural key format stephenmcd
- Cleaned up interface for custom tag types stephenmcd
- Update docs with references to new modules and version bump stephenmcd

Version 0.3.3 (Jul 06, 2010)

• No changes listed.

Version 0.3.2 (Jul 06, 2010)

- Reformatted docs to lines less than 80 chars stephenmcd
- Revert some of mezzanine.settings back to not being overridable stephenmcd
- Added routine to sphinx conf.py to auto-generate docs for mezzanine.settings stephenmcd
- Prevent sphinx blank-line warning stephenmcd
- Make building docs Python2.5 compatible stephenmed
- Bugfix for losing parent ID when editing existing child pages stephenmcd
- fix bug with ordering field in pages. Add error handling for page ordering lexual

Version 0.3.1 (Jul 04, 2010)

- Fixed some spelling mistakes throughout docs stephenmcd
- · Bugfix to unique slug generation method stephenmcd
- · Added redirects app to default settings stephenmcd
- Added management command to blog app for migrating a Tumblr blog stephenmed
- Allow members of mezzanine.settings to be defined in the project's settings module prefixed with MEZ-ZANINE_ stephenmed

Version 0.3.0 (Jul 03, 2010)

- Bugfix to template lookup for custom content model stephenmcd
- Added page processor system for manipulating context and response per page type stephenmcd
- · Added docs for page processors and bumped version stephenmcd

Version 0.2.4 (Jul 02, 2010)

- Add warning to mezzanine_project script to prevent the user from creating a project name that conflicts with an existing package or module stephenmed
- fix mezzanine_project.py handling -options or multiple arguments lexual
- project_name variable instead of continual using sys.argv[1] lexual
- make proj name start with "-" illegal and print usage lexual

Version 0.2.3 (Jun 30, 2010)

- added content_model to json lexual
- Bugfix to dynamic admin inlines stephenmed

Version 0.2.2 (Jun 27, 2010)

• No changes listed.

Version 0.2.1 (Jun 27, 2010)

- Added more documentation around extending pages stephenmcd
- Update fixtures with new name for ordering field stephenmcd
- Added notes about contributing with links to github and bitbucket repos stephenmcd
- · Fixes to Mezzanine's sphinx theme stephenmcd
- Added initial layout template for docs with GA code stephenmcd
- Bugfix to template loading in page view stephenmed

Version 0.2 (Jun 27, 2010)

- · Reinstate required ordering for correct admin template loading stephenmcd
- · Fixed incorrect project name in license stephenmcd
- Created framework for inheriting from Page model to create custom content types for pages, and added new abstract model Orderable for managing orderable models stephenmcd
- Initial version of documentation stephenmcd
- Bugfix to submit overriding for keyword field stephenmed

Version 0.1.4 (Jun 15, 2010)

- Switch out filebrowser to use a custom version as done with grappelli correctly packaged and Django 1.1 compatible stephenmcd
- · Add script for generating fork of filebrowser stephenmcd
- · Simplify structure for optionally installed apps and exclude all optional apps from testing stephenmcd
- In mobile middleware, don't assume user-agent exists since the test client doesn't use one stephenmcd
- · Bugfix to mobile middleware missing imports stephenmcd
- Made comments IP address nullable stephenmcd
- Use url tags in templates instead of get_absolute_url stephenmcd
- Don't assume request is in context in inclusion tags stephenmcd
- Added error templates and example mobile template for homepage stephenmcd
- Added test suite and version bump stephenmcd

Version 0.1.3 (Jun 14, 2010)

- Moved the blog landing page's slug into a setting stephenmed
- Add homepage to menu stephenmcd
- Update to layout of sharing panel stephenmcd
- · Bugfix to AJAX submit for admin keywords field stephenmed
- · Added a dynamically set "selected" attribute for pages rendered in the page menu stephenmcd
- Bugfix to tweets for search terms missing profile image and invalid date format stephenmcd
- Bugfix to tweets invalid import stephenmed
- Added demo twitter feed stephenmcd
- Bugfix to blog view old variable name stephenmcd
- Added username fallback for displaying author's name for list of blog posts stephenmcd
- Added "powered by" copy stephenmcd
- Added setting GOOGLE_ANALYTICS_ID for integrating Google Analytics stephenmcd
- Added setting PAGES_MENU_SHOW_ALL to control whether all levels in page menu are shown by default stephenmcd

• Changed manual file exclusion in setuptools script to maintain owner and permissions - stephenmcd

Version 0.1.2 (Jun 10, 2010)

- Remove local settings module from repo and packaging stephenmcd
- Actual local_settings module removal stephenmcd

Version 0.1.1 (Jun 10, 2010)

• No changes listed.

Version 0.1 (Jun 10, 2010)

• No changes listed.

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