

# Customizing the Django Admin

When the Django Admin fails  
and what you can do to fix it

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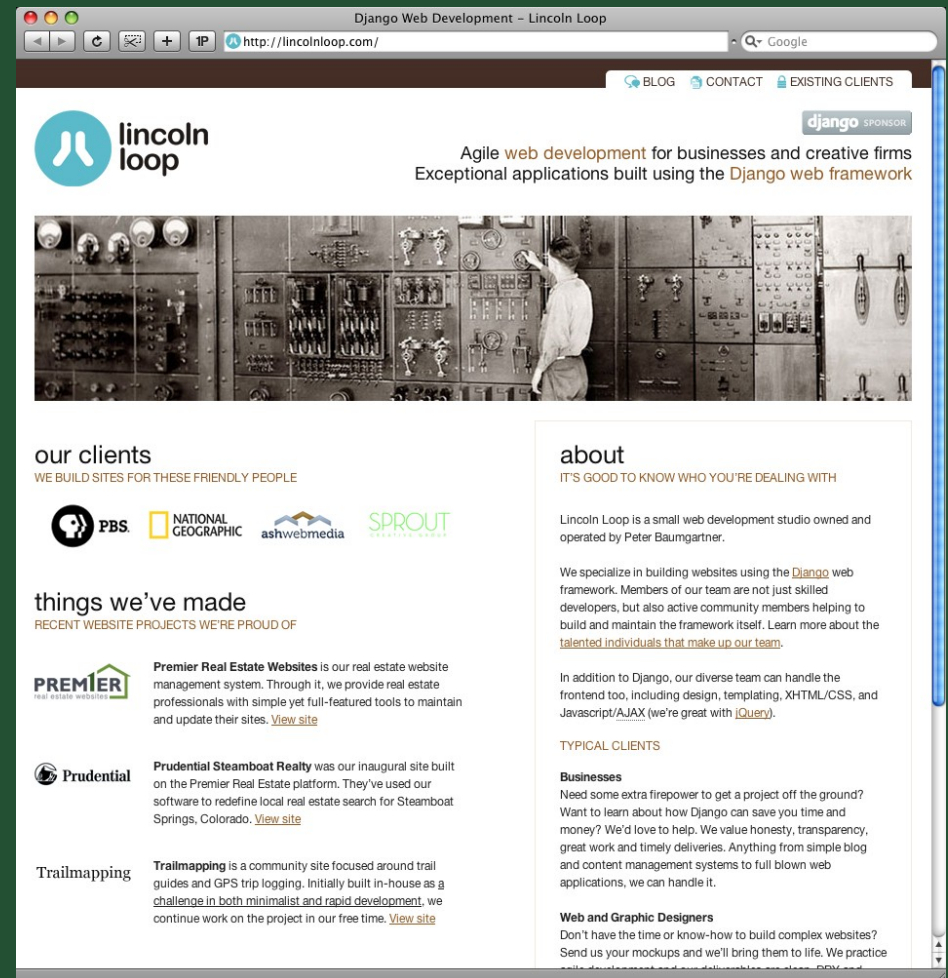
Michael Trythall  
User Experience Director, Lincoln Loop

EuroDjangoCon - May 5, 2009

# About Lincoln Loop

- Django Corporate Sponsor
- Open source contributor
- Services:
  - Development
  - Prototyping
  - Consulting
  - Training

<http://lincolnloop.com>



# Overview

- User Interface is important
- Default Admin UI is one-size-fits-all. User experience is not.
- What can we do to improve upon it?
- How do we implement those improvements?

# (Some) Problems We Face

- Clients want control over their web site
- Clients don't want to pay for a minor changes
- Clients often lack technical knowledge
- Clients may not have specifications (just ideas)
- Limited project and developer time
- Etc, etc...

# Problems with New, Custom Systems

“ Easy is Hard ”

- Peter Lewis, NY Times

- Time consuming - Research, Specs, Dev, Test
- Hard to tell right from wrong
- Good chance you might not nail it
- Reinventing the wheel in most cases

So, What's the Solution?

# Leverage the Django Admin!

Yay Ponies!

## Django Site Administration

### Site administration

#### Auth

##### Groups

[+ Add](#) [Change](#)

##### Users

[+ Add](#) [Change](#)

#### Comments

##### Comments

[+ Add](#) [Change](#)

#### Contact

##### Contacts

[+ Add](#) [Change](#)

##### Interactions

[+ Add](#) [Change](#)

##### Organizations

[+ Add](#) [Change](#)

#### Discount

##### Discounts

[+ Add](#) [Change](#)

#### Giftcertificate

##### Gift Certificates

[+ Add](#) [Change](#)

##### Gift certificate products

[+ Add](#) [Change](#)

#### L10N

##### Countries

[+ Add](#) [Change](#)



# The Good News

- Handful of reusable apps that alleviate some of the pain
- Admin is easy to extend, customize, etc.
- Djangonauts are thinking about these problems
- Lots of core functionality already exists in the admin



# Why Care About UI?

# Because...

- UI is the gateway to application logic
- Users remember bad experiences
- Good experiences = Happy Customers = Profit!
- Contributing helps Django mature
- Good UI reduces the need for documentation & support, but isn't a complete substitute!

# Problems with the Default Admin

# Not Informative or Assistive

- No dashboard, statistics, or recent (user) activity
- No actions (or models) highlighted or given priority
- No assistance/help for beginner users
- Impact from changes is not always clear
- Disconnect from external systems

# Dashboard & Primary Actions Example

The screenshot displays the WordPress 2.8 Demo dashboard. At the top, the header includes the WordPress logo, the text "WordPress 2.8 Demo" with a "Visit site" link, and user information "Howdy, demo | Turbo | Log Out". A "New Post" button is also visible. Below the header, the left sidebar contains navigation links: "Dashboard", "Posts" (with sub-links for Edit, Add New, Post Tags, and Categories), "Media" (with sub-links for Library and Add New), "Links", "Pages", "Comments", "Profile", and "Tools". The main content area is titled "Dashboard" and features several widgets. The "Right Now" widget provides a quick overview of site statistics: 1 Post, 1 Comment, 1 Page, 1 Approved, 1 Category, 0 Pending, 1 Tag, and 0 Spam. It also mentions the theme "WordPress 'El Dorado' Default with 0 Widgets" and the version "WordPress 2.8-bleeding-edge". The "QuickPress" widget offers a form to create a new post, including fields for Title, Content, and Tags, along with "Save Draft", "Reset", and "Publish" buttons. The "Recent Comments" widget shows a comment from "Mr WordPress" on the post "Hello world! #". The "Recent Drafts" widget indicates that there are no drafts at the moment. Finally, the "WordPress Development Blog" widget is partially visible at the bottom.

WordPress 2.8 Demo ← Visit site

New Post

Howdy, demo | Turbo | Log Out

Screen Options Help

Dashboard

Dashboard

Right Now

At a Glance

1 Post	1 Comment
1 Page	1 Approved
1 Category	0 Pending
1 Tag	0 Spam

Theme WordPress 'El Dorado' Default with 0 Widgets

You are using WordPress 2.8-bleeding-edge.

QuickPress

Title

Upload/Insert

Content

Tags

Save Draft Reset Publish

Recent Comments

From Mr WordPress on Hello world! #

Hi, this is a comment. To delete a comment, just log in and view the post's comments. There you will have ...

Recent Drafts

There are no drafts at the moment

WordPress Development Blog

WordPress informs the user of the basics

# Doesn't Fit Into Customer Mental Models

- Relationships (e.x. hierarchy) not intuitive
- Apps are not organized by context
- Little (or no) navigation outside of breadcrumbs
- Doesn't mimic familiar process and workflow

# Grouping & Navigation Done Right

**Blinkende Lygter ~ Admin ~ Your Products**

Website Support Account Logout

Orders (11) **Products** Collections Blogs & Pages Navigation Marketing Assets Preferences

### Your Products








[Add a new product](#)

Filter products by

American Apparel vendor | [remove](#)

Select: [all](#), [none](#)

2 products selected

	Product	Inventory				
		Extra Small	Small	Medium	Large	
<input checked="" type="checkbox"/>	 <a href="#">Blue Tee Basic</a> Tshirt American Apparel	3	12	18	2	
<input type="checkbox"/>	 <a href="#">Green Tee Basic</a> Tshirt American Apparel	3	12	18	2	▶ 43
<input type="checkbox"/>	 <a href="#">Khaki Fleece Zipper</a> Zipper American Apparel	∞	∞	∞	∞	▶ ∞
<input checked="" type="checkbox"/>	 <a href="#">Red Tank Top</a> Tank Top American Apparel	5	9	12	0	26
<input type="checkbox"/>	 <a href="#">Striped Tank Top Blue/Orange</a> Tank Top American Apparel	12	10	3		25
<input type="checkbox"/>	 <a href="#">Striped Tank Top Red/White</a> Tank Top American Apparel	12	10	3		25
<input type="checkbox"/>	 <a href="#">White Tank Top</a> Tank Top American Apparel	2	5	0	2	9

- Select action...
- Publish
- Unpublish
- Delete
- Add to collection:
- Frontpage
- My new collection

#### Vendors

[show all](#)

[Adidas](#)

American Apparel

[Arbor](#)

[Blue Cult](#)

[Canon](#)

[Evisu](#)

[Hugo Boss](#)

[Never Summer](#)

[Nidecker](#)

[Nikon](#)

[show 2 more...](#)

#### Product Types

[show all](#)

[Apparel](#)

[Binding](#)

[Digital SLR](#)

[Goggles](#)

[Jeans](#)

[Lens](#)

[Snowboard](#)

[Tank Top](#)

[Tshirt](#)

[Zipper](#)

#### Inventory

Use the [inventory overview](#) to get a detailed list of your variants stock levels.

#### Import & Export

# Admin Clutter

Site administration			Recent Actions <i>(show)</i>	
Auth			Satchmo Orders <i>(hide)</i>	
Groups	<a href="#">+Add</a>	<a href="#">Change</a>	New Orders	
Users	<a href="#">+Add</a>	<a href="#">Change</a>	Orders in Process	
Comments			View all Orders	
Comments	<a href="#">+Add</a>	<a href="#">Change</a>	Admin Tools <i>(hide)</i>	
Contact			■ Edit Site Settings	
Contacts	<a href="#">+Add</a>	<a href="#">Change</a>	■ Export Products as CSV	
Interactions	<a href="#">+Add</a>	<a href="#">Change</a>	■ Edit Inventory	
Organizations	<a href="#">+Add</a>	<a href="#">Change</a>	■ Export Product Defs	
Discount			■ Product Variation Manager	
Discounts	<a href="#">+Add</a>	<a href="#">Change</a>	■ Cache Status	
Giftcertificate				
Gift Certificates	<a href="#">+Add</a>	<a href="#">Change</a>		
Gift certificate products	<a href="#">+Add</a>	<a href="#">Change</a>		
L10N				
Countries	<a href="#">+Add</a>	<a href="#">Change</a>		
Newsletter				
Subscriptions	<a href="#">+Add</a>	<a href="#">Change</a>		
Payment				
Payment Options	<a href="#">+Add</a>	<a href="#">Change</a>		
Product				



# Missing Features

- Missing common web tools like WYSIWYG, file management, etc
- Difficult to recover from actions (no undo)
- Better management for complicated models
- Project-wide search

# Undo & Help Example

The screenshot shows a Gmail interface with a confirmation message at the top: "The conversation has been moved to the Trash. [Learn more](#) [Undo](#)". Below this, a search bar and navigation links are visible. A black arrow points from the "Undo" link in the confirmation message to the search bar of a "Gmail Help" overlay window.



**Gmail Interface Elements:**

- Search Mail, Search the Web, Show search options, Create a filter
- The conversation has been moved to the Trash. [Learn more](#) [Undo](#)
- com - Titanium diving knife hunting knife
- ve to ▼, Labels ▼, More actions ▼, Refresh
- d, Unstarred

**Gmail Help Overlay:**

- Google logo and search bar
- Search Gmail Help, Search the
- Gmail Help
- [Gmail Home](#)
- [Help topics](#)
- [Your Account](#)
- [Your Messages](#)
- [Access Choices](#)
- [Your Contacts](#)
- [Your Settings Tabs](#)
- [Troubleshooting](#)
- [Help forum](#)
- [What's New](#)
- [Google Help](#) > [Gmail Help](#) > [Your Messages](#) > [Deleting](#) > Deleting messages
- Deleting messages**
- Gmail lets you delete either an entire [conversation](#) or one message from a conversation. Deleted messages are a lot like the stuff in the trash can in your kitchen: eventually, it's all going in the big dumpster outside, but for a little while, you can still rummage through it if you lost something important. Gmail will empty messages from your **Trash** automatically after 30 days, or you can permanently delete messages yourself.
- Here's how you can get rid of an entire conversation:
  1. Open the message (or select the checkbox next to it).
  2. Click the **Delete** button to move the message to **Trash**.
- Known issues with**
- Review our [Known issues](#) for bugs, suggestions, and more.
- Recommended articles**
- 1. [Should I archive](#)
  2. [Archiving mail](#)
  3. [Deleting sent messages](#)
  4. [Conversations](#)
  5. [Moving messages](#)
- Help resources**
- [Getting started](#)  
A beginner's guide

# Poor Display for Complex Models

Meta description for this product			
Item Dimensions (Hide)			
Length:	<input type="text"/>	Length units:	<input type="text"/>
Width:	<input type="text"/>	Width units:	<input type="text"/>
Height:	<input type="text"/>	Height units:	<input type="text"/>
Weight:	<input type="text"/>	Weight units:	<input type="text"/>
Tax (Hide)			
<input type="checkbox"/> Taxable			
Tax Class: <input type="text" value="-----"/> 			
If it is taxable, what kind of tax?			
Related Products			
Related Items:	<div><div>A really neat book</div><div>A really neat book (Hard cover)</div><div>A really neat book (On tape)</div><div>A really neat book (Soft cover)</div><div>Django Rocks shirt</div><div>Django Rocks shirt (Large/Black)</div><div>Django Rocks shirt (Large/Blue)</div><div>Django Rocks shirt (Large/White)</div><div>Django Rocks shirt (Medium/Black)</div><div>Django Rocks shirt (Medium/Blue)</div><div>Django Rocks shirt (Medium/White)</div></div> 		

# Field Count

```
($('input').length - $('input:hidden').length) + $('select').length + $('textarea').length
```

65

# Planning Customizations

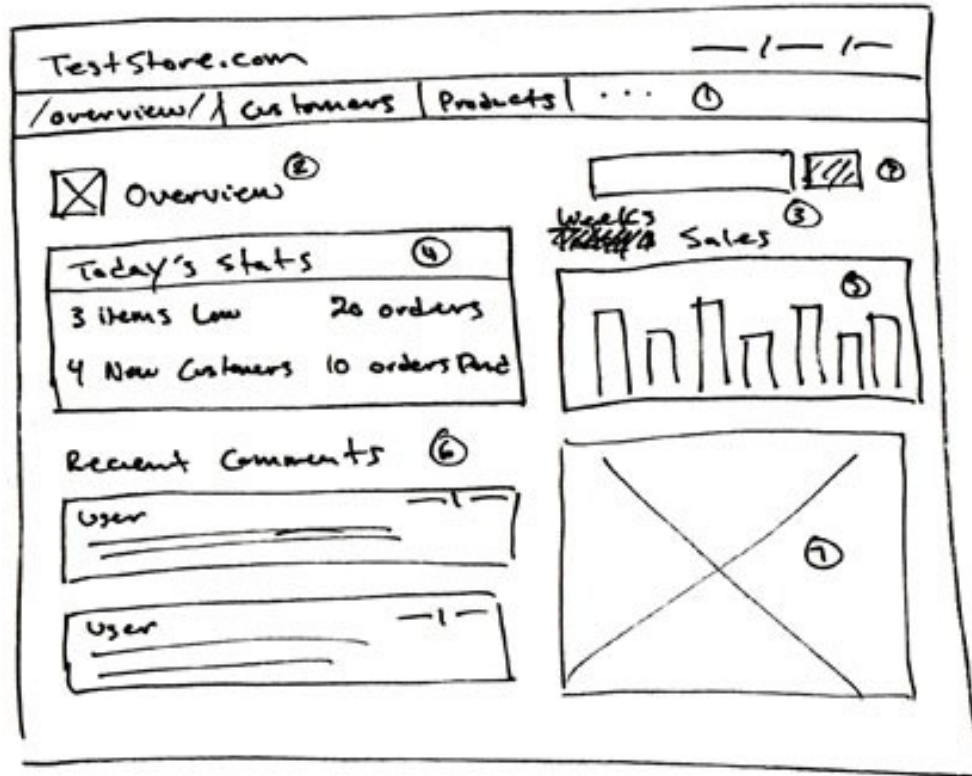
# Get to Know Your Customer

- Learn (or ask) about the industry, workflow, etc.
- Understand the needs of the different roles on the Customer's team
- Put yourself in their shoes (empathy)
- Learn the lingo, use it in your designs (laptop vs. notebook)
- Learn about previously used tools, pros and cons

# Brainstorming

- Welcome all ideas, decide on what's reasonable
- Embrace sketches to convey ideas and for clarification
- Get feedback early and often on ideas, even in development
- Don't be afraid to prototype with code
- Leverage proven UI design patterns

# Sketch Example



- ① Tabbed Navigation
- ② Section / Focus title (Overview → Dashboard)
- ③ Site / Smart Search
- ④ Today's Quick stats with links to various views
- ⑤ This week's (configurable) sales information. Toggle between week, month
- ⑥ Comments to review (.)
- ⑦ Anything else



# Satchmo Dashboard Concept

**TestStore.com Site Administration**

Welcome, Store Owner! [Help](#) / [My Account](#) / [Logout](#)

[Dashboard](#) [Products](#) [Customers](#) [Pricing](#) [Inventory](#) [Marketing](#) [Pages](#) [Reports](#) [Advanced](#)

Welcome! This looks like your first time accessing the admin. [Read the Beginner's Tutorial.](#)

**Dashboard**

Quick View (this month) [personalize](#)

10 New Purchases

5 Return Requests

120 Discounts Used

1 New Hack Attempt!

8 Products Are Low!

OK Cache Status

Recent Comments [settings](#)

[PonyMan](#) on [RailsShirt](#) at 05/03/2009 10PM

This product is epic fail. I bought this thinking it would help me pick up even \*more\* chicks, but sadly, it did not do as advertises... [\[more\]](#)

[flag as spam](#) / [delete](#)

[AngryCustomer](#) on [PHPBlender](#) at 05/03/2009 10PM

This blender did not work, at all. My house was broken into, my dog was kicked, and my family kidnapped and sent to a goulag... [\[more\]](#)

[flag as spam](#) / [delete](#)

[Search](#) [?](#)

Django Red Shirt - Large (10) product

Red Clove (redclove@gmail.com) user

Red Day Sale - 20% thru 5/2 - 54 discount

Shortcut

Add Product

Add Customer

Send Newsletter

View Top Buyers

View Recent Messages

Customize this area

# Satchmo Dashboard Concept

**TestStore.com Site Administration**

Welcome, Store Owner! [Help](#) / [My Account](#) / [Logout](#)

DashboardProductsCustomersPricingInventoryMarketingPagesReportsAdvanced

**Dashboard**

[Search](#) [?](#)

Quick View (this month)[personalize](#)

10 New Purchases

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[flag as spam](#) / [delete](#)

[AngryCustomer](#) on [PHPBlender](#) at 05/03/2009 10PM

This blender did not work, at all. My house was broken into, my dog was kicked, and my family kidnapped and sent to a goulag... [\[more\]](#)

[flag as spam](#) / [delete](#)

Shortcuts[manage shortcuts](#)

Add Product

Add Customer

Send Newsletter

View Top Products

View Top Buyers

View Recent Messages

Total Sold[personalize](#)

Day	Total Sold
Mon	High
Tues	Medium-High
Wed	Low-Medium
Thurs	Medium
Fri	Low
Sat	Medium-High
Sun	Lowest

Implement!

# Customization Options

1. ModelAdmin media
2. Custom templates
3. ModelAdmin/ModelForm hacking
4. Custom views

# Low Hanging Fruit For the Win



<http://www.flickr.com/photos/11263821@N05/2224626086>

*ModelAdmin Media*

# ModelAdmin Media Code

```
class ArticleAdmin(admin.ModelAdmin):  
    class Media:  
        css = {  
            "all": ("my_styles.css",)  
        }  
        js = ("my_code.js",)
```

# ModelAdmin Media Examples

- JavaScript
  - WYSIWYG Editor
  - AJAX
  - Fancy Inlines (drag & drop, dynamic add/delete)
    - <http://tinyurl.com/add-remove-inlines>
    - <http://www.djangosnippets.org/snippets/1053/>
  - Inject HTML
- CSS
  - Colors
  - Layout



# ModelAdmin Media Pros & Cons

- Pros:
  - Easy for one-off projects
- Cons:
  - Requires Javascript
  - Only works for the Change Form
  - Difficult to bundle as reusable app

# Custom Templates

# Custom Templates

- `django.contrib.admin` is a “reusable application”
- Key templates:
  - `admin/base.html`
  - `admin/index.html`
  - `admin/change_form.html`
  - `admin/change_list.html`

# Per Project/App/Model Templates

Templates can be overridden:

- Across an entire project  
`admin/change_form.html`
- Across an application  
`admin/<my_app>/change_form.html`
- For an individual model  
`admin/<my_app>/<my_model>/change_form.html`

# Custom Template Example

demo\_app/templates/admin/demo\_app/change\_list.html

```
{% extends  
"admin/change_list.html" %}  
  
{% block object-tools %}  
    <h1 class="errornote">  
        Look Here!  
    </h1>  
    {{ block.super }}  
{% endblock %}
```



# Custom Template Tips

- Extend, don't override
- Use `{{ block.super }}` to extend blocks
- Extend a symlink of the admin templates in the event of recursion
- Extend the `extrahead` block in `base.html` for admin-wide media

# Custom Templates in the Wild

# sorl-curator

**Administration**

CHANGE PASSWORD | LOG OUT

Welcome, **sorl**.

Site administration

DON'T TOUCH THIS STUFF

Sites

Administer all the different sites here.

+ Add

USERS & GROUPS

Users

+ Add

Groups

+ Add

PAGES & NEWS

Pages

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

+ Add

News

+ Add

RECENT ACTIONS

My Actions

None available

<http://code.google.com/p/sorl-curator/>



# django-grapelli

[von automatisch werkstaetten](#) [Navigation](#) [Patrick](#) [Documentation](#) [Change password](#) [Log out](#)

Home

## Site administration

### Blog

Entries	+ Add	≡ Change
---------	-------	----------

### Configuration

Categories (PhotoVersion)	+ Add	≡ Change
Kategorien (Blog)	+ Add	≡ Change
Kategorien (History)	+ Add	≡ Change
Licenses	+ Add	≡ Change
Status (Blog)	+ Add	≡ Change
Status (Gallery)	+ Add	≡ Change
Status (History)	+ Add	≡ Change
Status (Photo)	+ Add	≡ Change

### Favourites

Favourites	+ Add	≡ Change
------------	-------	----------

### Gallery

Galleries	+ Add	≡ Change
Photos	+ Add	≡ Change

### Navigation

Admin-Interface

- > Main Admin
- > Configuration
- > Blog
- > Image Galleries

FileBrowser

- > FileBrowser

External Ressources

- > Statistics
- > Project-Management

### Recent Actions

My Actions

- + Draft
  - Status (Blog)
- ≡ patrickk
  - User
- ≡ Article pattern: 2 Columns. Format & Images
  - Blog/Eintrag
- ≡ sehmaschine is online
  - Blog/Eintrag
- ≡ sehmaschine is online
  - Blog/Eintrag
- ≡ sehmaschine is online
  - Blog/Eintrag
- ≡ sehmaschine is online
  - Blog/Eintrag
- ≡ sehmaschine is online
  - Blog/Eintrag
- ≡ sehmaschine is online
  - Blog/Eintrag
- ≡ sehmaschine is online
  - Blog/Eintrag

<http://code.google.com/p/django-grappelli/>

# ella

Článek: změnit | Ella správa - Mozilla Firefox

Soubor Úpravy Zobrazit Nástroje Nápořád

http://localhost:3005/newman/#/articles/article/1/

Fusce sed diam

Nadtitulek:

Upraveno:

Slug: fusce-sed-diam

Metadata

Kategorie:

no

Aut: North Africa  
Bar: North America  
Zdroj: Northern Ireland  
Norway

id 6  
slug north-america  
tree\_path

Foto:

Obsahy článků

Popis:

H1 H2 H3 H4 H5 H6 B I

MARK IT UP!

Mauris hendrerit arcu et odio. Aenean lectus nisi, elementum ac, ullamcorper sit amet, aliquam quis, risus. Suspendisse malesuada.

Smazat Uložit jako nový záznam Uložit a přidat další záznam Uložit a pokračovat v úpravách Uložit

Hotovo

What's new? | 1, | debug log | Změnit heslo | Odhlásit se

YSlow 0.848s PageRank Alexa

<http://github.com/ella/ella>

# Gondola

## Gondola CMS

Welcome, **pete**. [Documentation](#) / [Change password](#) / [Log out](#)

### MY SITE

- Dashboard**
- View Site
- Options
- Users

### MY CONTENT

- Blog
- Pages
- Associates
- Slideshows

### MY TERRITORY

- Areas/Neighborhoods
- Landmarks
- Developments
- Calendar/Events

### MY LISTINGS

- Property Listings
- Property Categories
- Virtual Tours

### MY LEADS

- CRM
- Listing Showcases
- Listing Subscribers
- Send Email

### Admin Menu

[Basic View](#) [Advanced View](#)

**Aloha, Pete!**

Take a quick look at the latest leads and listings below or use the menu above to manage your site.

#### Latest Leads

Peter Baumgartner  
Status: new  
Last Updated: Apr 28th, 2:15 p.m.  
[Manage Lead](#) | [Contact Info](#)

#### Featured Properties

Listing #9968856  
[View](#) | [Edit](#)

Listing #9960137  
[View](#) | [Edit](#)

#### My Properties

#### Recent Actions

##### My Actions

- + Peter Baumgartner  
Lead
- + Baumgartner, Peter  
Contact
- ✎ 9960137  
Listing
- ✎ 9968856  
Listing
- + Test Poly  
Post
- + test point  
Post
- ✎ testt

<http://gondolacms.com/>

# Custom Template Pros & Cons

- Pros
  - Easy
  - Touches every admin view
  - No additional work to bundle with reusable apps
- Cons
  - Mostly cosmetic (not functional) changes

# ModelAdmin/ModelForm Hacking

# ModelAdmin/ModelForm Hacking

- New in Django 1.0 (newforms-admin)
- Old stuff (list\_display, fields, ordering, etc.)
- New stuff (exclude, inlines, form, etc.)
- Really New stuff (list\_editable, actions, etc.)

# Reregistering a ModelAdmin

```
from django.contrib import admin
from django.contrib.auth.admin import UserAdmin
from demo_app.models import UserProfile

class UserProfileInline(admin.TabularInline):
    model = UserProfile
    fk_name = 'user'
    max_num = 1

class CustomUserAdmin(UserAdmin):
    inlines = [UserProfileInline, ]

admin.site.unregister(User)
admin.site.register(User, CustomUserAdmin)
```

# Row-level Permissions

```
class ArticleAdmin(admin.ModelAdmin):
    def save_model(self, request, obj, form,
                  change):
        obj.user = request.user
        obj.save()

    def queryset(self, request):
        qs = self.model._default_manager.filter(
            user=request.user)
        return qs
```



# ModelForms

- Much of ModelAdmin's functionality is a wrapper around ModelForm
- If you can't do it in ModelAdmin, chances are ModelForm can help
- Pulled directly from `django.forms` and no different in functionality

# ModelForms Example

```
class AuthorForm(forms.ModelForm):
    exclude_states = ['AS', 'GU', 'MP', 'VI',]
    def __init__(self, *args, **kwargs):
        super(AuthorForm, self).__init__(*args,
                                          **kwargs)

        w = self.fields['state'].widget
        choices = []
        for key, value in w.choices:
            if key not in self.exclude_states:
                choices.append((key, value))
        w.choices = choices

class AuthorAdmin(admin.ModelAdmin):
    form = AuthorForm
```

# Caution: Here be Dragons



<http://www.flickr.com/photos/sharynmorrow/3019436/>

# ModelAdmin/ModelForm Tips

- The further you dig, the less documentation you'll find
- Don't be afraid to study the source:
  - `django.contrib.admin.sites.AdminSite`
  - `django.contrib.admin.options.ModelAdmin`
  - `django.forms.models.ModelForm`
  - `django.contrib.admin.options.InlineModelAdmin`
  - `django.forms.formsets`
- Use a debugger for sanity (`ipdb.set_trace()`)

# ModelAdmin/ModelForm Pros & Cons

- Pros
  - Flexible
  - Powerful
  - No additional work to bundle with reusable apps
- Cons
  - Gets complex quickly
  - May require getting familiar with undocumented Django internals

# Custom Views

# When in Doubt, Punt



<http://www.flickr.com/photos/bobtravis/485216368/>

# Custom Views

- The admin just wasn't built to do some things
- Other things simply aren't worth the trouble
- Build your own view and plug it into the admin





# Custom View

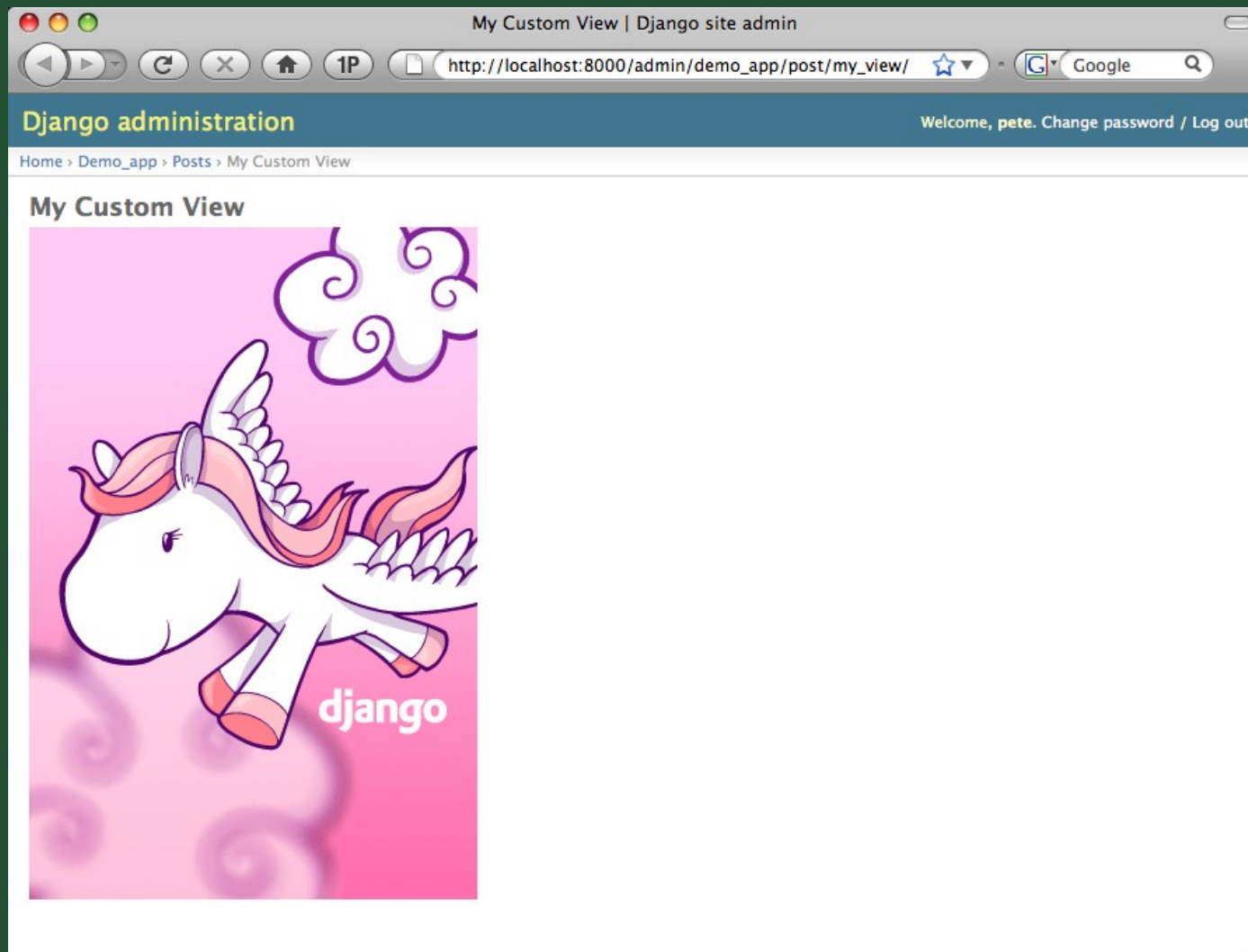
```
@permission_required('blog.add_post')
def admin_my_view(request, model_admin):
    opts = model_admin.model._meta
    admin_site = model_admin.admin_site
    has_perm = request.user.has_perm(opts.app_label \
                                     + '.' + opts.get_change_permission())
    context = {'admin_site': admin_site.name,
               'title': "My Custom View",
               'opts': opts,
               'root_path': '/%s' % admin_site.root_path,
               'app_label': opts.app_label,
               'has_change_permission': has_perm}
    template = 'admin/demo_app/admin_my_view.html'
    return render_to_response(template, context,
                              context_instance=RequestContext(request))
```

# Custom View Template

```
{% extends "admin/base_site.html" %}
{% load i18n %}
{% block breadcrumbs %}
<div class="breadcrumbs">
    <a href=".../.../.../">{% trans "Home" %}</a> &rsaquo;
    <a href=".../.../">{{ app_label|capfirst|
escape }}</a> &rsaquo;
    {% if has_change_permission %}<a
href=".../">{{ opts.verbose_name_plural|
capfirst }}</a>{% else %}{{ opts.verbose_name_plural|
capfirst }}{% endif %} &rsaquo; My Custom View
</div>
{% endblock %}

{% block content %}
    <!-- do stuff here -->
{% endblock %}
```

# Custom View Example



# Custom View Pros & Cons

- Pros
  - More flexible
  - More powerful
  - No additional work to bundle with reusable apps
- Cons
  - Can be tricky to integrate into workflow
  - You're on your own to validate forms, build templates, etc.

# Review

- UI is important. Think about your end-user
- Think about your users, not your database
- Newforms-admin gives you hooks for lots of easy wins

# Questions

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