



# Building Online Communities with Drupal

## Organic Groups for Drupal 7

ANDREW BERRY \* @DEVIANTINTEGRAL \* DCTO NOVEMBER 2012

OH HAI



## The Net as a Social Incubator

<http://www.flickr.com/photos/graibeard/4133412468/sizes/o/in/photostream/>



## Email and Usenet

- › Email has mostly supplanted usenet for email-like discussions
- › “Advanced” or “Rich” features
- › The key component that Usenet introduced - groups and categories



# Bulletin Board Systems

- › BBS's were in many ways the prototype for socially-driven websites of today
- › Dedicated “applications” for group content
- › Lots of customization, focus on community needs
- › Forking of communities

# The Web

(I hear this is a thing now)



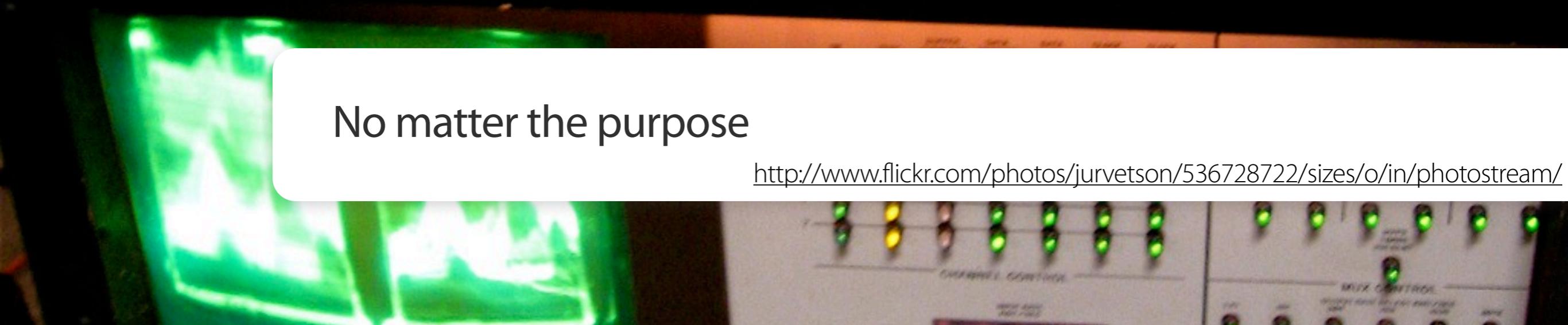
Drupal is a tool for building Incubators

<http://www.flickr.com/photos/fws-recovery-act-projects/5532210335/sizes/o/in/photostream/>



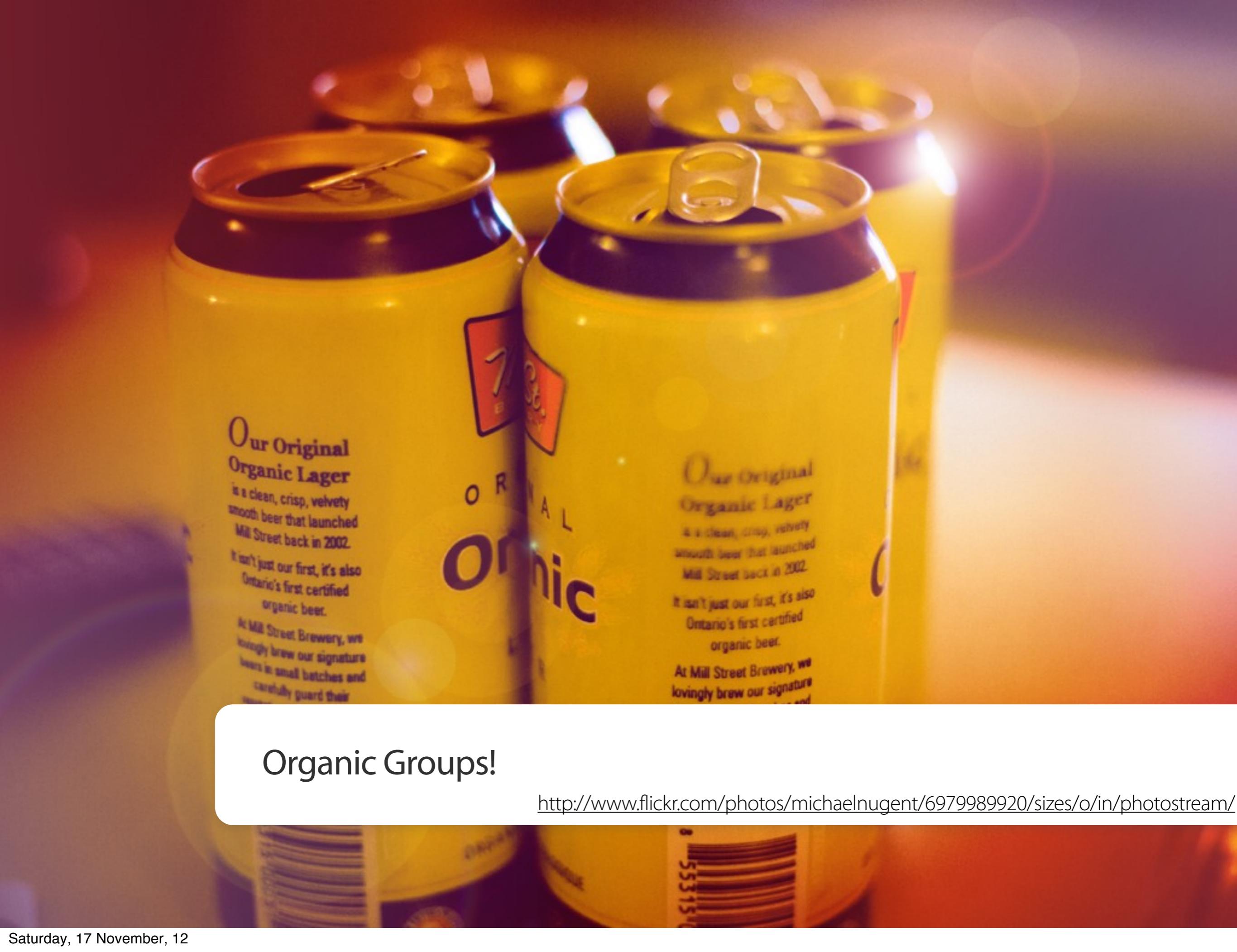
No matter the purpose

<http://www.flickr.com/photos/jurvetson/536728722/sizes/o/in/photostream/>



# Groups

# Organic



Our Original  
Organic Lager  
is a clean, crisp, velvety  
smooth beer that launched  
Mill Street back in 2002.  
It isn't just our first, it's also  
Ontario's first certified  
organic beer.

At Mill Street Brewery, we  
carefully brew our signature  
beers in small batches and  
carefully guard their

ORIGINAL  
Organic

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Ontario's first certified  
organic beer.

At Mill Street Brewery, we  
carefully brew our signature

## Organic Groups!

<http://www.flickr.com/photos/michaelnugent/6979989920/sizes/o/in/photostream/>

**SLOW!**  
**FREE RANGE**  
**CHILDREN**

<http://www.flickr.com/photos/dullhunk/5584316541/sizes/o/in/photostream/>

[Login or Register to participate](#)English Help  Store 

★ Welcome to the new look of Symantec Connect. [Click here](#) to find out what's changed.

## Groups

Would you like to learn and share best practices with other Symantec users? Join a Symantec Group!

For more information on *Symantec User Groups*, click [here](#).

### Find a Group

### Browse all groups

[User](#) [Partner](#) [Developer](#) [Product](#) [Event](#) [Other](#)[North America](#) [Asia Pacific](#) [General](#) [Europe, Middle East, Africa](#) [South America](#)

 <a href="#">Alabama Endpoint Management User Group</a>	26 Members
 <a href="#">Atlanta Backup &amp; Archiving User Group</a>	70 Members
 <a href="#">Atlanta Endpoint Management User Group</a>	117 Members
 <a href="#">Atlanta Security &amp; Compliance User Group</a>	41 Members
 <a href="#">Backup &amp; Archiving (Focus NetBackup) User Group Italy</a>	7 Members
 <a href="#">Baltimore Endpoint Management User Group</a>	149 Members
 <a href="#">Boston Backup &amp; Archiving User Group</a>	21 Members
 <a href="#">Boston Endpoint Management User Group</a>	154 Members
 <a href="#">Boston Security &amp; Compliance User Group</a>	12 Members
 <a href="#">Calgary Backup &amp; Archiving User Group</a>	11 Members
 <a href="#">Calgary Endpoint Management User Group</a>	29 Members
 <a href="#">Central Illinois Endpoint Management</a>	11 Members



# OFFICES

[Our Leadership](#)[Organization Chart](#)[Offices](#)[Budget & Performance](#)[Web Policies](#)[Open Government](#)[Contact Us](#)[History](#)

## ALL OFFICES

### PROGRAM OFFICES

[Advanced Research Projects Agency - Energy](#)[Loan Programs Office](#)[Office of Electricity Delivery & Energy Reliability](#)[Office of Energy Efficiency & Renewable Energy](#)[Office of Environmental Management](#)[Office of Fossil Energy](#)[Office of Indian Energy Policy and Programs](#)[Office of Legacy Management](#)[Office of Nuclear Energy](#)[Office of Science](#)

### LABS & TECHNOLOGY CENTERS

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### POWER MARKETING ADMINISTRATION

[Bonneville Power Administration](#)[Southeastern Power Administration](#)[Southwestern Power Administration](#)[Western Area Power Administration](#)

### FIELD SITES

[Carlsbad Field Office](#)[Chicago Office](#)[Golden Field Office](#)[Idaho Operations Office](#)[Oak Ridge Office](#)[Office of River Protection](#)[Richland Operations Office](#)[Rocky Mountain Oilfield Testing Center](#)[Savannah River Operations Office](#)

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[Energy Information Administration](#)[National Nuclear Security Administration](#)

### STAFF OFFICES

[Office of Congressional and Intergovernmental Affairs](#)[Office of Economic Impact and Diversity](#)[Office of Health, Safety and Security](#)[Office of Hearings and Appeals](#)[Office of Inspector General](#)[Office of Management](#)[Office of NEPA Policy and Compliance](#)[Office of Policy and International Affairs](#)[Office of Public Affairs](#)[Office of the Chief Financial Officer](#)[Office of the Chief Human Capital Officer](#)



search



Brand Marketing  
CEO Accelerator  
Change Management  
Clinical Trial Recruitment  
Communications Training  
Corporate Communications  
Corporate Governance  
Corporate Social Responsibility

Energy  
Event Marketing  
Fashion & Luxury  
Financial Communications  
Food B2B  
Food & Nutrition  
Healthcare  
Influencer Relationship

Issues and Crisis Management  
Latino Marketing  
Litigation Communications  
Marketing to Women  
Media Relations  
Public Affairs  
Research & Analytics  
Social & Digital Media

Social Marketing  
Sports & Entertainment  
Sustainability  
Technology  
Word-of-Mouth Marketing

## Brand Marketing



We know what's trending. We understand what makes people engage and take notice. The result? Expertise in how to earn the public's attention.

[more](#)

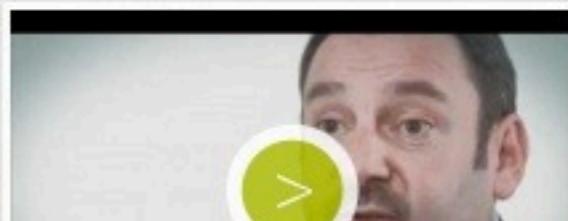
## Change Management



Through change management, employee engagement, communications, and learning strategies and programs, we drive change.

[more](#)

## Corporate Communications



Corporate reputation is hard won and easily eroded. Our intelligence, insights and counsel help visionary leaders make

## Food & Nutrition



We understand that food is far more than a necessity of life, which is why food companies, brands, agricultural businesses and



## Collaborate with the Drupal community

This site serves the [Drupal community](#) by providing a place for groups to organize, plan and work on projects. Real world local user groups (sometimes called meetups) and regional Drupalcamps in particular are encouraged to setup their online presence here.

## 2013 "At Large" Director Candidates

Posted by [kattekраб](#) on September 17, 2012 at 7:29am

**1** Here, in the order they submitted their nominations are the candidates for the 2013 election.

Voting is open September 24 – October 7.

Full name links to nomination statement, username links to profile on drupal.org

&lt;

ul&gt;

- [Flo Klare - \(SirFiChi\)](#)
- [Todd Tomlinson - \(toddtomlinson\)](#)

[Read more](#)

● 15 comments · 15 new comments · Categories: [election2013](#) , [elections](#) , [Governance](#)

## Election Time - 2013 Community At Large Directors

Posted by [kattekраб](#) on August 31, 2012 at 2:18am

**2** The time has come to open nominations for directors from the



## Browse groups

[Geographical](#)  
[Working groups](#)  
[Distribution](#)  
[Event planning](#)

## New groups

[WIDT](#)  
[Visual Branding of Drupal](#)  
[OpenAid](#)  
[ELMS](#)  
[Drupal Design Camp LA](#)  
[Drop Jobs Distribution](#)  
[Balkan](#)  
[Julio](#)  
[Higher Education Europe](#)  
[San Gabriel Valley Drupal](#)

[more](#)

## My groups

Group	New
<a href="#">Toronto</a>	7 new
<a href="#">Drupal.org Improvements</a>	7 new
<a href="#">Contributed Module Ideas</a>	6 new
<a href="#">Web Services and Context Core Initiative</a>	4 new
<a href="#">Snowman</a>	1 new



# Core concepts

A ContentType becomes a  
GroupType

# Groups are just nodes

# Memberships and Roles

Content is “Shared with” an OG  
(this is the group content field)



## Since Drupal 6

- › Much more use of Fields instead of custom attributes on content
- › Many previously required modules have been split out
- › And some functionality is now built in to Drupal or OG
- › Serious Panels Integration



# A bit of history

<http://www.flickr.com/photos/girliemac/6514473085/sizes/o/in/set-72157628409467125/>



## What you should know

- › How to download new modules
- › Creating content types and adding fields
- › Creating basic lists of your content with Views
- › Features and drush can never hurt!

# Serious Questions

# Defining your content model

What types of groups will you  
need?

What content can be shared  
with those groups?

Will there be any sort of  
permissions or restrictions on  
content?

# Community management (easy to forget for intranets)

<snip />



## Actually displaying your content

- › We get individual node views from Drupal
- › We don't get showing group information, or group content
- › Glue in the form of Panels, OG Extras, or something else



## og\_extras + EVA

- › Brings back everything you know and love from the Drupal 6 version
- › If you just need to spin up a very simple groups site, use this
- › No Panels required

[My account](#) [Log out](#)



## Organic Groups

[Home](#) [Groups](#)

[Home](#)

### Groups

### **og\_extras\_groups view**

Team ▲	Description	Manager	Created	Join Link
Kittens FTW	A fan of kittens? Who's not! Join this group for all kinds of kitten fun.	admin	6 sec ago	You are the group manager

Navigation

▶ [Add content](#)

## Disabled

⊕ Features	- None -	<a href="#">configure</a>
⊕ Group details	- None -	<a href="#">configure</a>
⊕ Main menu	- None -	<a href="#">configure</a>
⊕ Management	- None -	<a href="#">configure</a>
⊕ Node content links	- None -	<a href="#">configure</a>
⊕ Recent comments	- None -	<a href="#">configure</a>
⊕ Recent content	- None -	<a href="#">configure</a>
⊕ Shortcuts	- None -	<a href="#">configure</a>
⊕ Syndicate	- None -	<a href="#">configure</a>
⊕ User menu	- None -	<a href="#">configure</a>
⊕ View: OG Extras group members	- None -	<a href="#">configure</a>
⊕ View: OG members	- None -	<a href="#">configure</a>
⊕ Who's new	- None -	<a href="#">configure</a>
⊕ Who's online	- None -	<a href="#">configure</a>

On Structure >> Blocks



## Organic Groups

[Home](#) [Groups](#)

Home

### Group details

#### Manager

[admin](#)

[1 member](#)

Created: Oct 31 2012

You are the group manager

#### Create content

- [Discussion](#)

#### Kittens FTW members

[admin](#)

[more](#)

### Basic group info

## Kittens FTW

[View](#) [Edit](#) [Group](#) [Members](#)

Submitted by [admin](#) on Wed, 10/31/2012 - 23:24

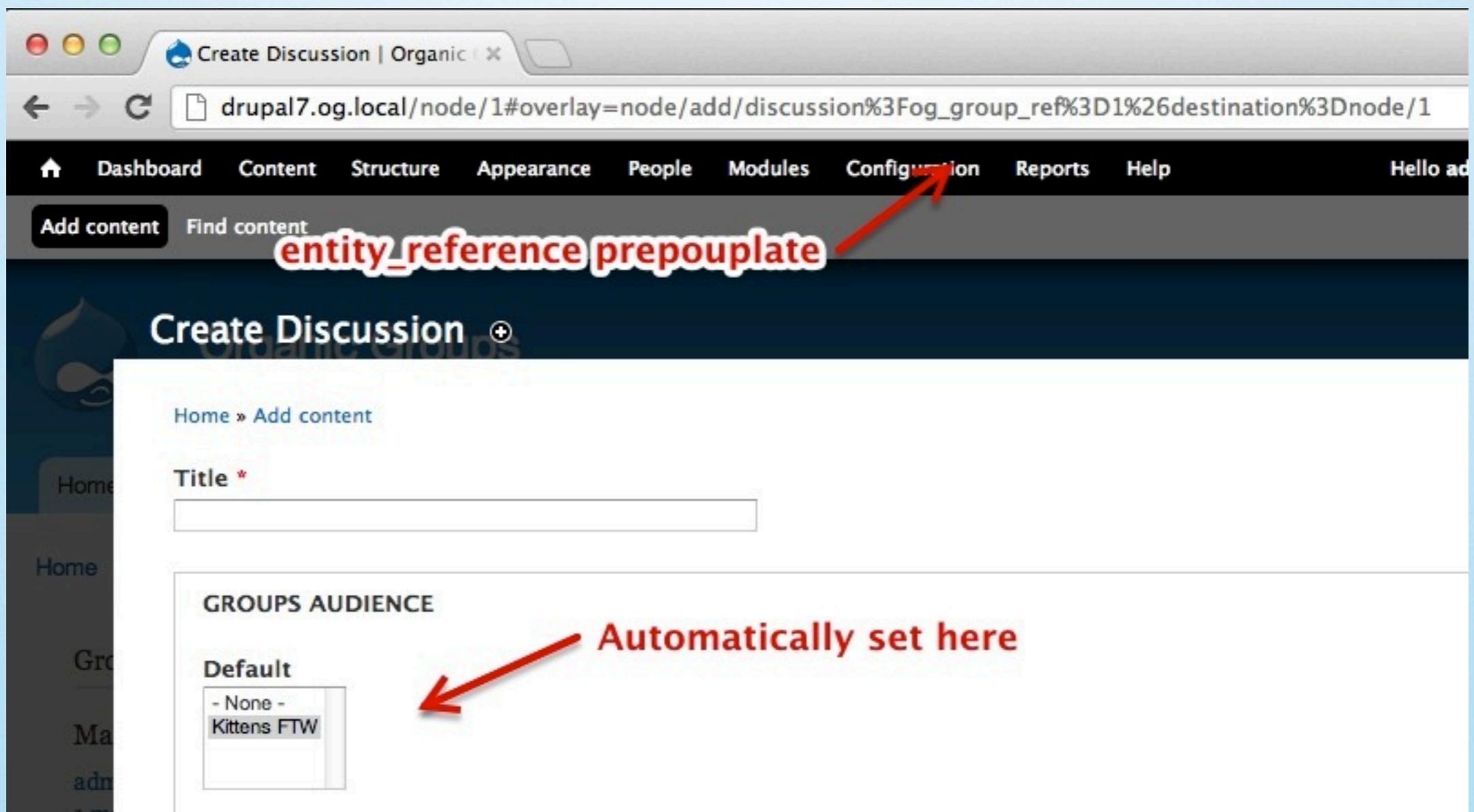
#### Group:

You are the group manager

A fan of kittens? Who's not! Join this group for all kinds of kitten fun.

**List of content types to add to this group**

**User list of members in this group**



Kittens? Seriously, 'ittens are

drupal7.og.local/node/2

Dashboard Content Structure Appearance People Modules Configuration Reports Help Hello admin Log out

Add content Find content Edit s

My account Log o

**Organic Groups**

**But the block know the group context anyways**

Home Groups

Home

Group details

Manager

admin

1 member

Created: Oct 31 2012

You are the group manager

View Edit

Submitted by admin on Wed, 10/31/2012 - 23:53

**Groups audience:**

Kittens FTW

You're such a noobsicle.

Tags:

flamewar

Create content

• Discussion

Kittens FTW members

admin

more

Add new comment

Your name admin

Subject

Comment \*

A red arrow points from the 'Appearance' menu item in the top navigation bar to the 'Groups audience' block on the page content. Another red arrow points from the 'Groups audience' block down to the 'flamewar' tag under the 'Tags:' heading.

# og\_example

New to Drupal? Want to learn Panels? Mind exploded?  
og\_example will make everything right.



*"og\_example requires views\_content, entity\_token, rules, panels, page\_manager, views, views\_bulk\_operations, og\_ui, og, message, message\_notify, features, entity, entityreference, entityreference\_prepopulate, ctools"*

- DRUSH 6.0-DEV

# Creating content



Dashboard Content Structure Appearance People Modules Configuration Reports Help

Add content Find content

Home

## Add content

---

Article  
Use *articles* for time-sensitive content like news, press releases or blog posts.

---

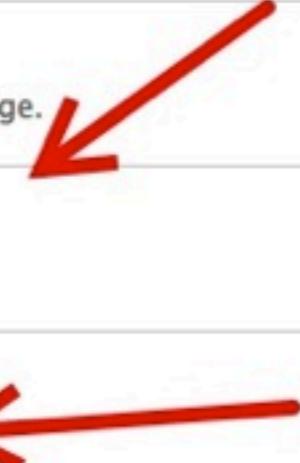
Basic page  
Use *basic pages* for your static content, such as an 'About us' page.

---

Group  
The group that will have members and content associated with.

---

Post  
Content that will belong to a single or multiple groups.



OG Example adds a “Group” and “Post” content type

## Create Group + Groups

[Home](#) » [Add content](#)

**Title \*****Body (Edit summary)**

For all fun things about kittens.

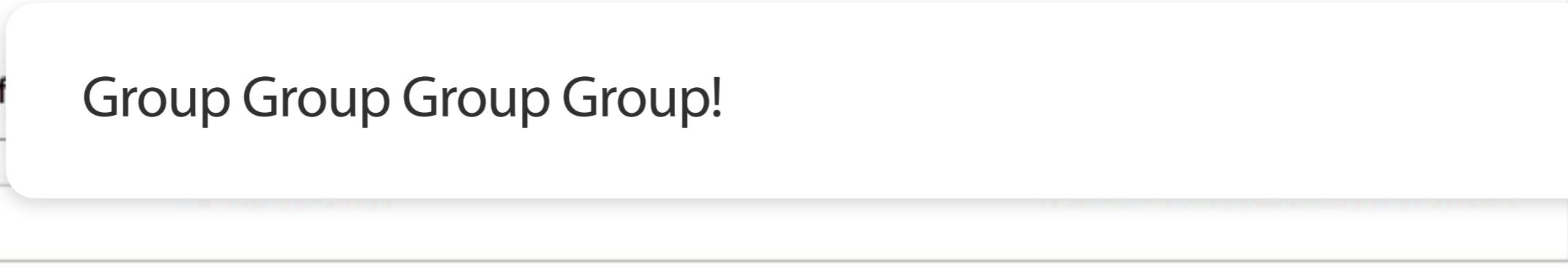
**Text format** [Filtered HTML](#)[More information about text formats](#)

- Web page addresses and e-mail addresses turn into links automatically.
- Allowed HTML tags: `<a> <em> <strong> <cite> <blockquote> <code> <ul> <ol> <li> <dl> <dt> <dd>`
- Lines and paragraphs break automatically.

By default, the Group content type looks just like a bare content type

# Group

[Edit](#)[Manage fields](#)[Manage display](#)[Comment fields](#)[Comment display](#)[Show row weights](#)

Label	Machine name	Field type	Widget	Operations
+ Title	title	Node module element		
+ Group	group_group	Boolean	Single on/off checkbox	edit delete
+ Body	body	Long text and summary	Text area with a summary	edit delete
+ Add new field		<input type="text"/> - Select a field type -  Type of data to store.	- Select a widget -  Form element to edit the data.	
+ Add existing field <input type="text"/> Label		Group Group Group Group! 		

[Save](#)

## Create Post Organic Groups



Home » Add content

### Title \*

You're all wrong, mittens are the one true way

### GROUPS AUDIENCE

#### Default

- None -
- Kittens FTW

 **Seems familiar?**

### ADMINISTRATOR



Add another item

### Body ([Edit summary](#))

The level of wrong in this group is just epic.

# LUMICS

JAN.  
30465

CODE  
COP  
AUTHORITY

BATMAN'S  
MOST  
BAFFLING  
CASE...  
**"THIS**  
VARIANT  
**HAS BEEN**  
**CENSORED"**



THE MASTER  
CRIME-FILE  
OF  
*Jason Bard*



<http://www.fotopedia.com/items/flickr-4149139650>

## Create new...

### Panel page

Panel pages can be used as landing pages. They have a URL path, accept arguments and can have menu entries.

### Custom layout

Custom layouts can add more, site-specific layouts that you can use in your panels.

### Panel node

*You must activate the panel node module for this functionality.*

## Page wizards

### Landing page

Landing pages are simple pages that have a path, possibly a visible menu entry, and a panel layout with simple content.

## Manage pages

Node template	<input type="button" value="Enable ▾"/>
Node add/edit form	<input type="button" value="Enable ▾"/>
Content	<input type="button" value="Enable ▾"/>
Users	<input type="button" value="Enable ▾"/>
User edit template	<input type="button" value="Enable ▾"/>
User profile template	<input type="button" value="Enable ▾"/>
Taxonomy term template	<input type="button" value="Enable ▾"/>

[Go to list](#)



## Organic Groups

[Home](#)[Home](#)

## Kittens FTW

[View](#) [Edit](#) [Group](#)

For all fun things about kittens.

### Navigation

[▶ Add content](#)

**View of  
Group  
Content**

### Group articles

You're all wrong, mittens are the one true way

Submitted by [admin](#) on Thu, 11/01/2012 - 00:13

The level of wrong in this group is just epic.

[Read more](#)

Kittens? 'ittens are obviously superior

Submitted by [admin](#) on Thu, 11/01/2012 - 00:12

You're such a noobsicle

### Content create links

- Post

### Kittens FTW members

admin

You are the group manager

**View as well**

# From “scratch”

## Pages •

LIST

WIZARDS

[+ Add custom page](#) [+ Import page](#)

Type	Storage	Enabled	Search	Sort by	Order	Operations
TYPE	NAME	TITLE	PATH	STORAGE	OPERATIONS	
System	node_view	Node template	/node/%node	In code	<a href="#">Edit</a>	
System	node_edit	Node add/edit form	/node/%node/edit	In code	<a href="#">Enable</a>	
System	search-node	Content	/search/node/!keywords	In code	<a href="#">Enable</a>	
System	search-user	Users	/search/user/!keywords	In code	<a href="#">Enable</a>	
System	user_edit	User edit template	/user/%user/edit	In code	<a href="#">Enable</a>	
System	user_view	User profile template	/user/%user	In code	<a href="#">Enable</a>	
System	term_view	Taxonomy term template	/taxonomy/term/%taxonomy_term	In code	<a href="#">Enable</a>	

[» Create a new page](#)

Node template 

		Disable	Add variant	Import variant
<b>Summary</b>	<b>Summary</b>			
Variants	Get a summary of the information about this page.			
Group	When enabled, this overrides the default Drupal behavior for displaying nodes at <code>node/%node</code> . If you add variants, you may use selection criteria such as node type or language or user access to provide different views of nodes. If no variant is selected, the default Drupal node view will be used. This page only affects nodes viewed as pages, it will not affect nodes viewed in lists or at other locations. Also please note that if you are using pathauto, aliases may make a node to be somewhere else, but as far as Drupal is concerned, they are still at <code>node/%node</code> .			
Summary		<b>Panel: Group</b>	Clone	Export
General			Revert	Enable
Selection rules				
Contexts				
Layout		<b>Storage</b>	Overridden	
Content		<b>Status</b>	Disabled	Enable
Preview		<b>Selection rule</b>	This panel will be selected if Node being viewed is an OG group.	Edit
		<b>Layout</b>	Two column stacked	Change layout Edit content Preview
		<a href="#">» Add a new variant</a>		



## Add variant

Add a new variant to this page.

### Title

Group, from scratch

Administrative title of this variant. If you leave blank it will be automatically assigned.

### Variant type

Panel

### Optional features

Selection rules



**Supercritical!**

Contexts

Check any optional features you need to be presented with forms for configuring them. If you do not check them here you will still be able to utilize these features once the new page is created. If you are not sure, leave these unchecked.

**Create variant**

## Configure

Changed 

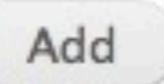
Configure a newly created variant prior to actually adding it to the page.

-  Before this variant can be added, it must be configured. When you are finished, click "Create variant" at the end of this wizard to add this to your page.

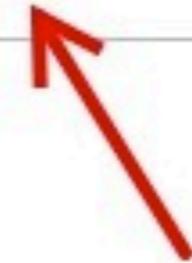
### Selection rules » Choose layout » Panel settings » Panel content

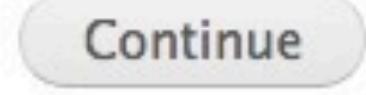
If there is more than one variant on a page, when the page is visited each variant is given an opportunity to be displayed. Starting from the first variant and working to the last, each one tests to see if its selection rules will pass. The first variant that meets its criteria (as specified below) will be used.

TITLE	DESCRIPTION	
No criteria selected, this test will pass.		

OG: Node is an OG group  

- All criteria must pass.  
 Only one criteria must pass.



 Continue

<snip />

## Variants » Group, from scratch » Content

### Variant operations

Clone Export Delete Disable

Add content items and change their location with a drag and drop interface.

#### ▼ Display settings

##### Title type

Manually set 

##### Title

The title of this panel. If left blank, a default title may be used. Set to No Title if you want the title to actually be blank. You may use substitutions in this title.

#### ► SUBSTITUTIONS



##### Left side

Update

Update and save

Update and pr

Add content

Style

Default

Change

##### ht side

**Add content to Left side**

**Close Window**

Activity	<input checked="" type="checkbox"/> Message	<input checked="" type="checkbox"/> OG members
Entity	<input checked="" type="checkbox"/> OG all user group content	<input checked="" type="checkbox"/> OG members admin
Entity reference	<input checked="" type="checkbox"/> OG content	<input checked="" type="checkbox"/> OG User groups
Form		
Menus		
Miscellaneous		
Node		
Node (tokens)		
Organic groups		
Page elements		
View panes		
Views		
Widgets		

Red arrows point from the 'Organic groups' and 'Views' menu items on the left to the 'OG content' checkbox in the center.

# Update and save!

# Kittens FTW

[View](#)[Edit](#)[Group](#)

Kittens FTW members

admin

Group articles

**You're all wrong, mittens are the one true way**

Submitted by [admin](#) on Thu, 11/01/2012 - 00:13

The level of wrong in this group is just epic.

[Read more](#)

**Kittens? 'ittens are obviously superior**

Submitted by [admin](#) on Thu, 11/01/2012 - 00:12

You're such a noobsicle

[Read more](#)

Tada!



*We can use Panels AND Display Suite, and it's not  
totally insane? zomgwtfbbq*

- ME, THINKING ABOUT LAYOUTS FOR A LARGE SITE

# Handy Admin Pages

## Organic groups Groups

Home » Administration » Configuration

- ▶ OG field settings  
Configure Organic groups fields in bundles.
- ▶ OG membership types  
Manage group memberships type, including fields.
- ▶ OG permissions overview  
Overview of Organic groups permissions.
- ▶ OG roles overview  
Overview of organic groups roles.
- ▶ OG settings  
Administer OG settings.

**Mostly the same as what can be configured on the content type field ui screens**

**Memberships are entities and are fieldable too**

## OG field settings ⊕



Home » Administration » Configuration » Organic groups

- comment
  - ✓ Article comment
  - Basic page comment
  - Group comment
  - Post comment
- message\_type\_category
  - Message type category
- message\_type
  - message\_type\_email
- message
  - og\_new\_content
- node
  - Article
  - Basic page
  - Group
  - Post
- og\_membership\_type
  - OG membership type
- og\_membership
  - og\_membership\_default
- taxonomy\_term
  - Tags
- user
  - User
- rules\_config
  - Rules configuration

This is just the beginning!

FIELD	DESCRIPTION	OPERATIONS
Group	Determine if this should be a group.	<a href="#">Delete</a>

Submitted by admin on Thu, 11/01/2012 - 00:13

The level of wrong in this group is just epic.

[Read more](#)

Kittens? Kittens are obviously superior

Permissions for group 'Kittens FTR' > <a href="#">Edit</a>		Members										
Role	Group	Admin	Owner	Manager	Editor	Contributor	Writer	Reader	Reviewer	Approver	Editor	Reviewer
Organic group												
Add group												
See the group. Note: This permission controls only reads within the group.												
Administrator group												
Group member and content in the group. Warning: Give to shared roles only, this permission has security implications in the group context.												
Create Peer content												
See own Peer content												
See any Peer content												
Delete own Peer content												
Delete any Peer content												
Organic group or												
Subscribe to group												
View recent messages												
Subscribe to group (no external invites)												
View recent messages in your group without an external invite												
Unsubscribe from group												
View messages in unsubscribe invitations from a group, ignoring their recipient												
Approve and deny subscriptions												
View, edit, allow or deny another user's subscription request												
Add user												
View, add and edit users to the group without approval												
Merge members												
View, view group roles and add new roles if group default roles are disabled. Warning: Give to shared roles only, this permission has security implications in the group context.												
Add roles												
View, view group roles and add new roles if group default roles are disabled. Warning: Give to shared roles only, this permission has security implications in the group context.												
Merge permissions												
View, view the group permission page and change permissions if group roles are disabled. Warning: Give to shared roles only, this permission has security implications in the group context.												

# The OG Permission Grid Of Doom™



# Considerations

- › Performance with multiple node access modules
- › Group context with multiple groups assigned to content
- › It's really easy to build a complicated content model and forget that all your end users wanted was “post” and “group”



## Videos

- › “drupalize.me organic groups”
- › “gizra og 7 drupalcon london”
- › [drupal.org/project/og](http://drupal.org/project/og)