

# backdrop



Backdrop CMS

Because there's a cost that comes with change.

@BackdropCMS @jenlampton @quicksketch



Who are we to judge?

# Who are we to judge?

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## Professional Drupal Trainers

- Combined we've taught over 1,500 students
- Each created materials for in-person training classes
- Each featured in Drupalize.me training videos
- Nate: Lullabot trainer since 2005
- Jen: Director of training at Chapter Three, 2010-2012
- Nate: Co-author O'Reilly book "Using Drupal"

# Who are we to judge?

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## Core Contributors

### Nate

- AJAX Framework & drag-and-drop systems in Drupal 6
- File & Image modules in Drupal 7
- Dialog system & CKEditor in Drupal 8

### Jen

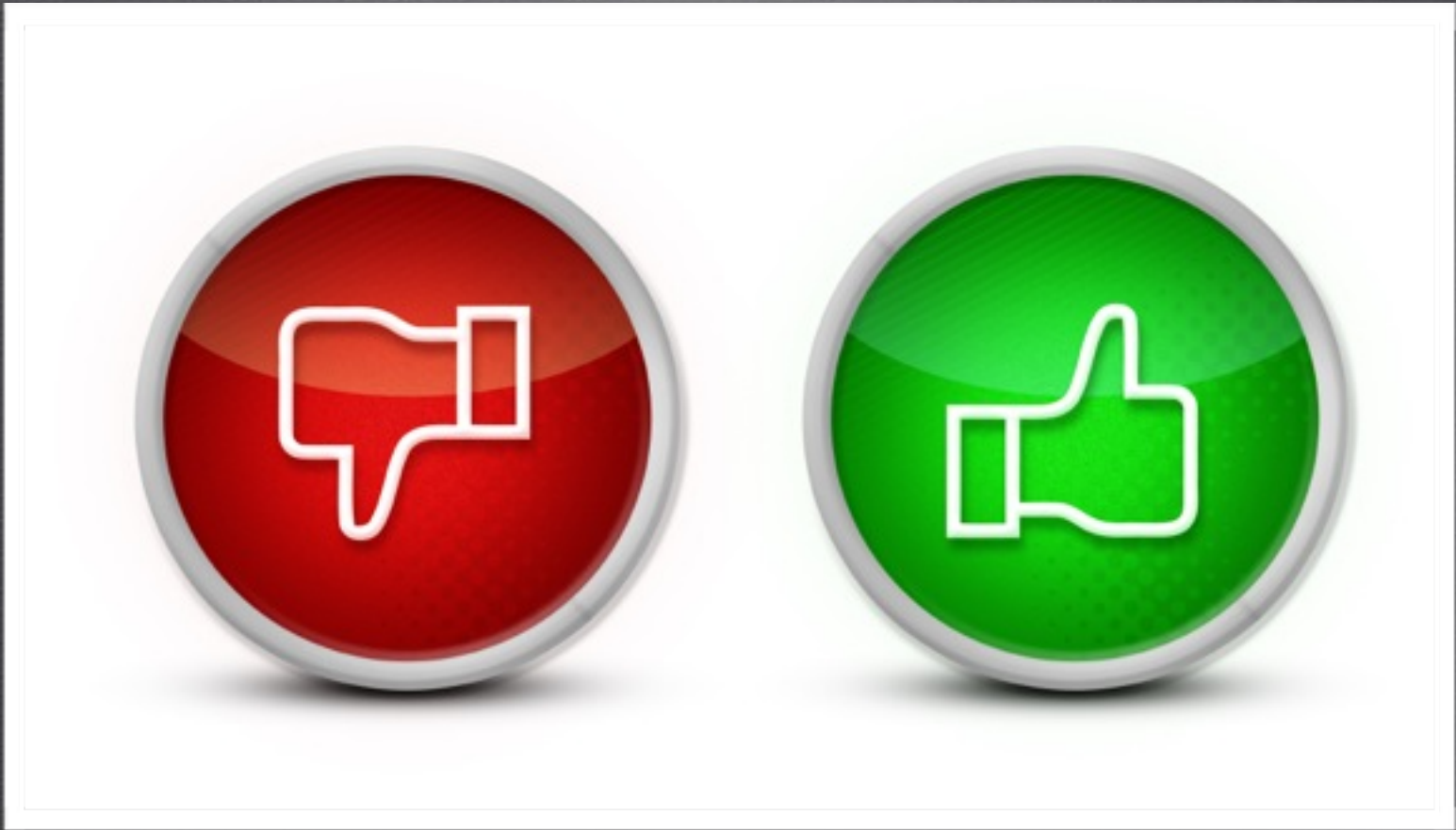
- First core patch included in Drupal 7.14
- Drupal core usability team member, D7 & D8
- Twig initiative lead, Drupal 8 (2011 - 2013)

# Who are we to judge?

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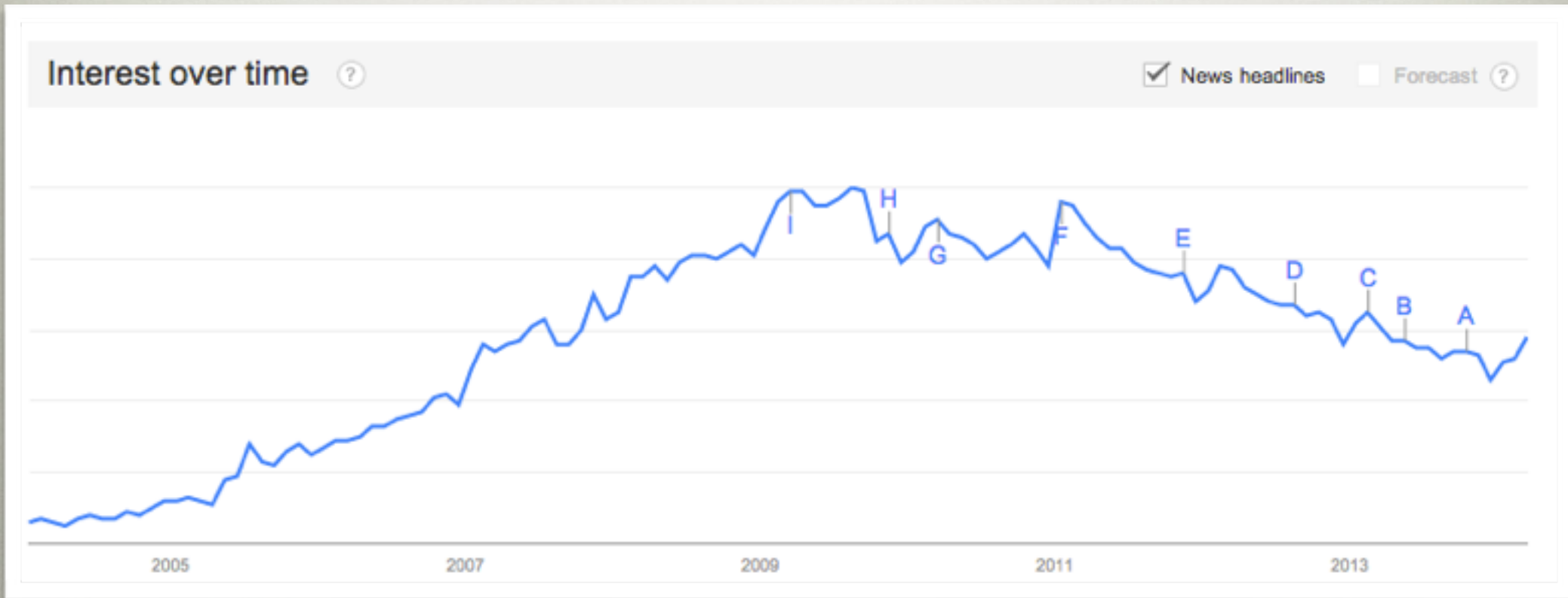
## Community Advocates

- Lead Organizer, BADCamp
- Organizing Committee, DrupalCon SF 2010
- Berkeley DUG member since 2006
- San Francisco DUG member since 2009
- East Bay DUG members since 2013
- **Spoken @ 70+ Drupal Camps & Cons, combined.**



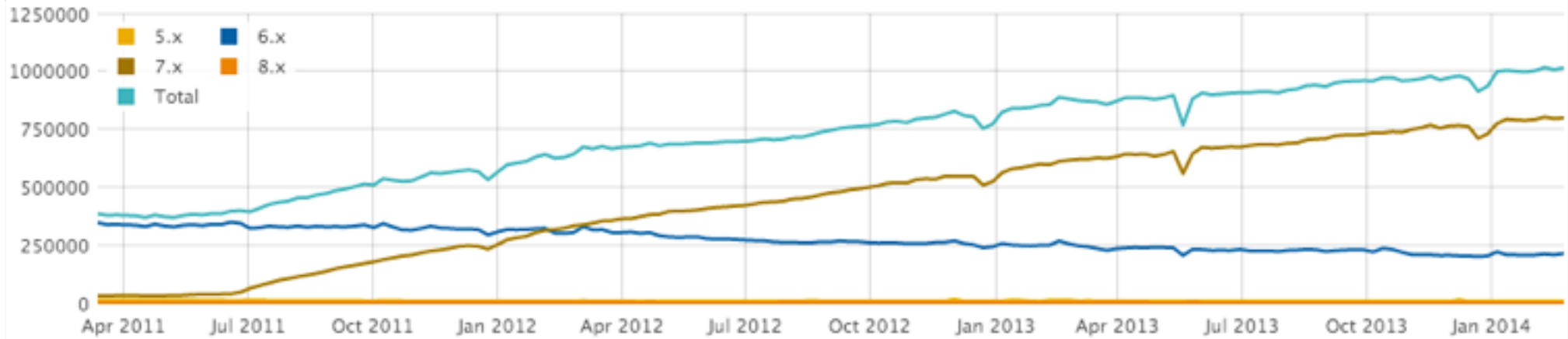
Drupal

# Google Trends



<http://bit.ly/google-cms-trends>

# Usage by version



- 68% of Drupal 6 sites haven't upgraded (yet)
- Creation of new sites not increasing (much)

<https://drupal.org/project/usage/drupal>



# All commits on d.o

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Commits created by month

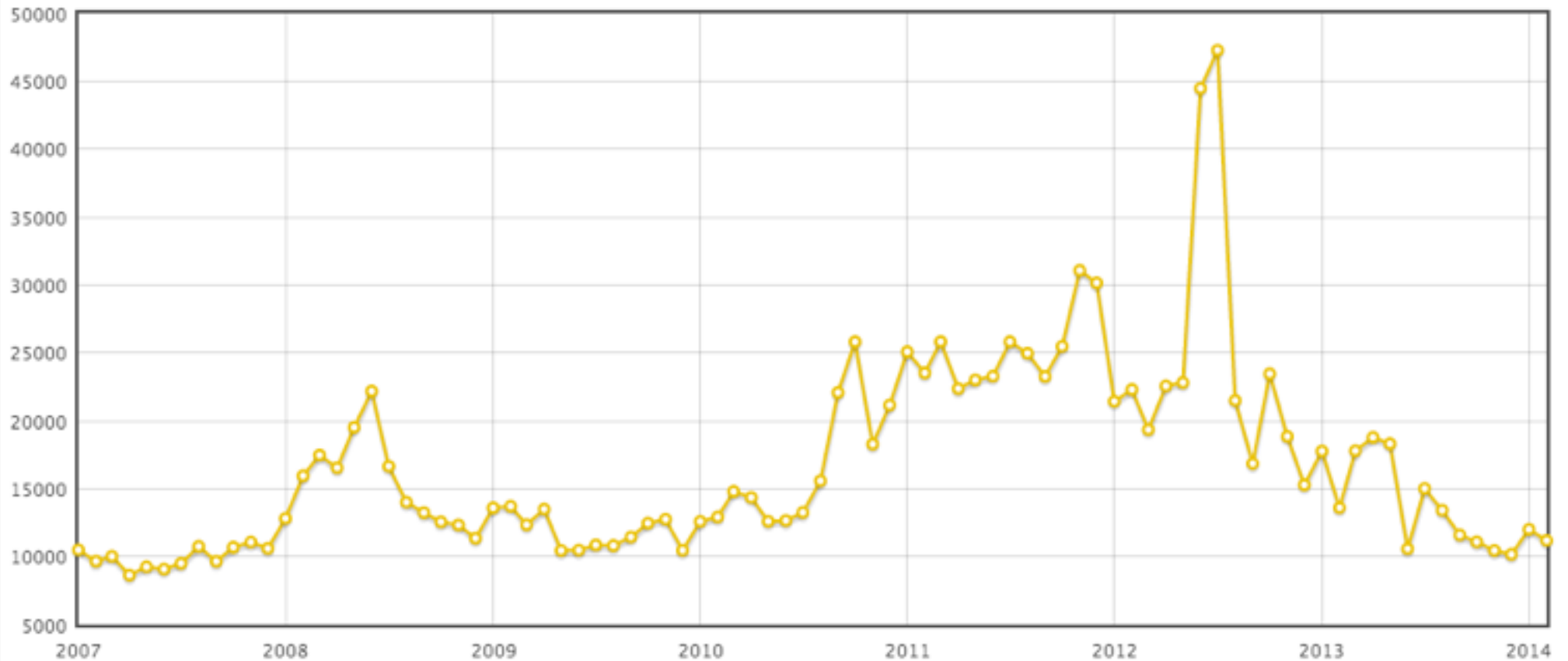


<https://drupal.org/metrics>

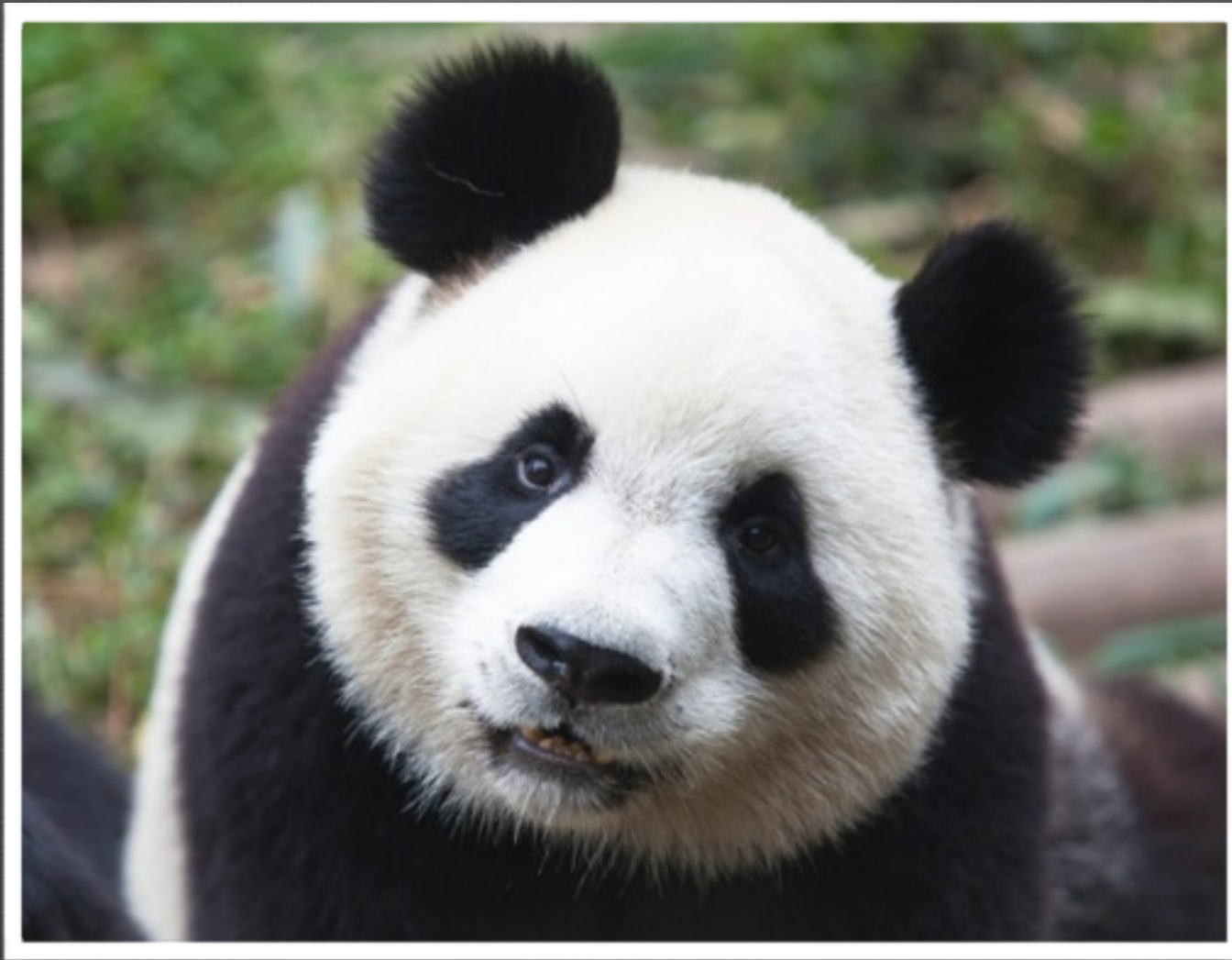
# New accounts on d.o

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Users created by month



<https://drupal.org/metrics>



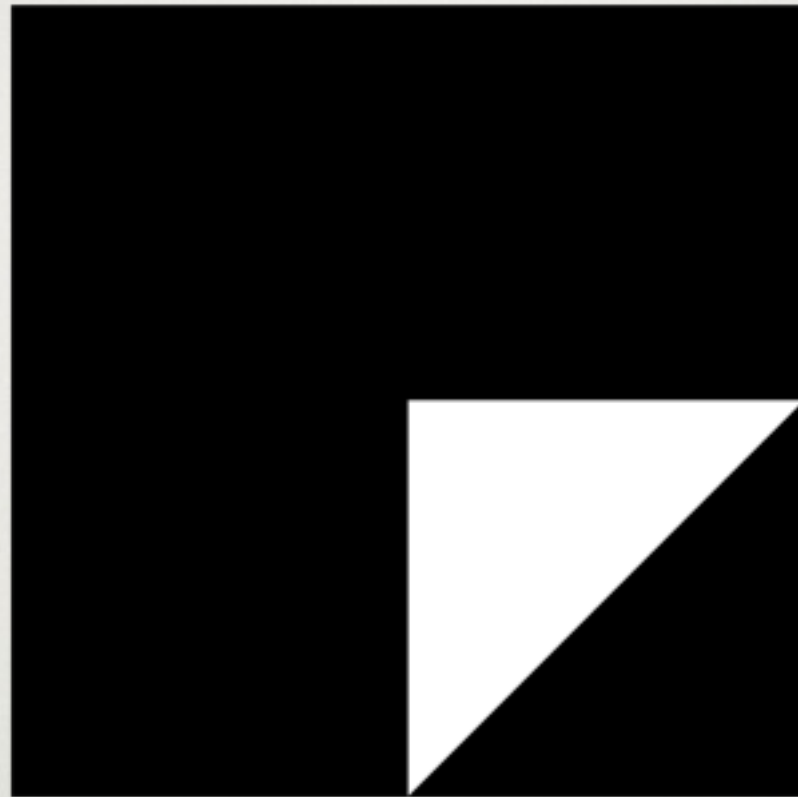
What do we do about it?

# Community response

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How have we adapted since 2011?

- Training: a world of available Drupal courses
- Community: more/bigger Drupal Camps & Cons
- Tools: switch to Git for version control
- Drupal companies contributing to core development
- Initiatives: establish priorities and responsibility
- Code: refactor & reuse (“Proudly found elsewhere”)
- **Product:** User/Developer experience ++



Backdrop CMS

# Backdrop CMS Roadmap

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1. Built-in Configuration Management
2. Built-in Views Module
3. Revamped Block/ Layout System
4. Built-in Rich-Text Editing
5. Improved Editorial Experience
6. Improved Mobile Support
7. HTML5 Markup and Fields
8. Improved Performance
9. Reduced theme system complexity
10. Improved Multilingual Support

# What's the Rub?

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Drupal™

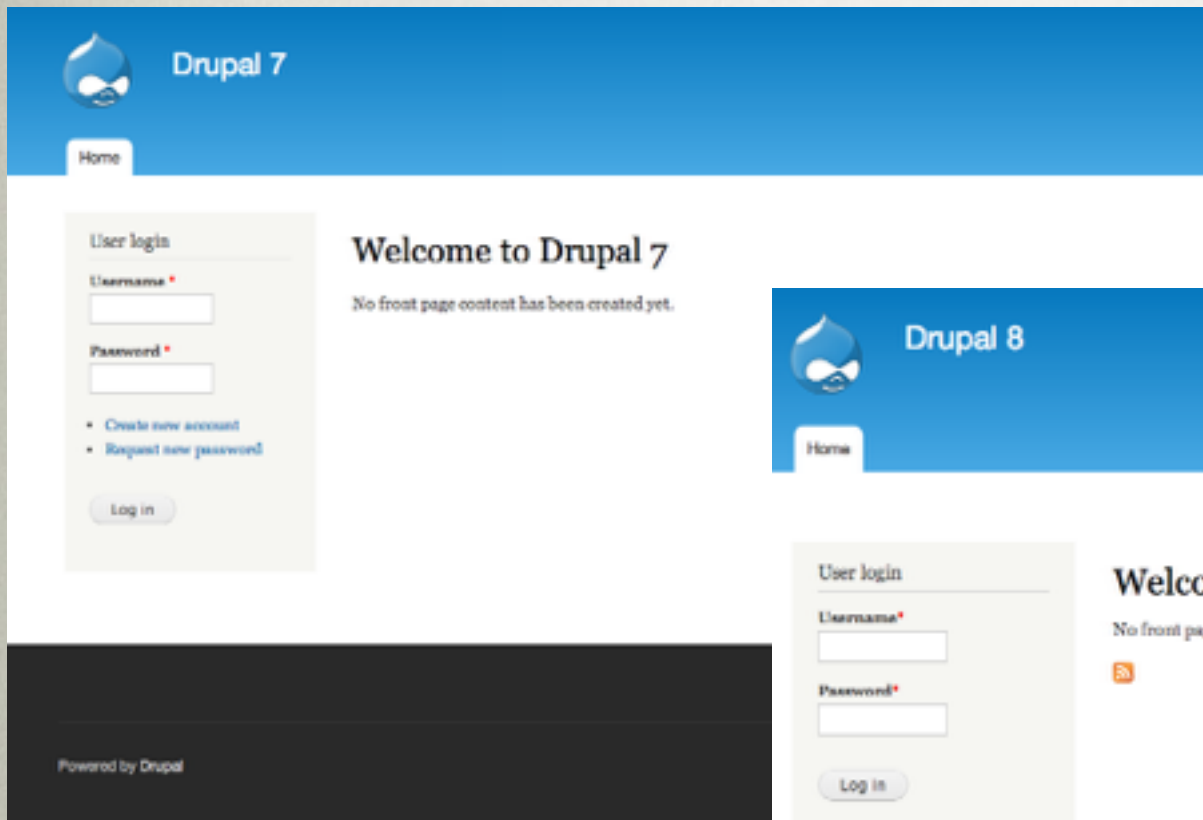
# What's the Rub?

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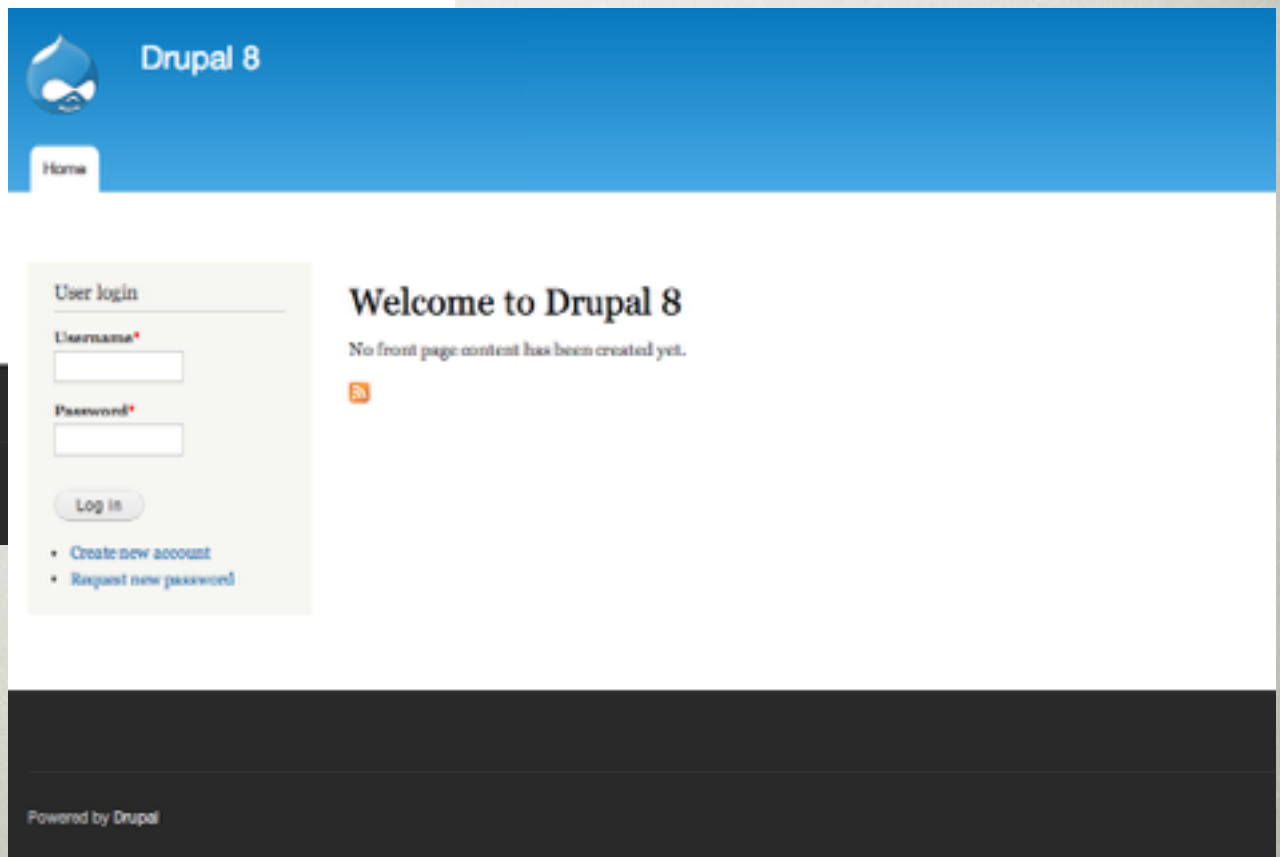
1. Difference from Drupal 7
2. Decision making process
3. Distress from existing community
4. Developer audience
5. Direction of project



# Difference from D7



The screenshot shows the Drupal 7 user login page. At the top, there is a blue header with the Drupal logo and the text "Drupal 7". Below the header is a "Home" button. The main content area features a "User login" form on the left with fields for "Username" and "Password", a "Log in" button, and links for "Create new account" and "Request new password". To the right of the form, the text "Welcome to Drupal 7" is displayed, followed by the message "No front page content has been created yet." At the bottom of the page, there is a dark footer with the text "Powered by Drupal".



The screenshot shows the Drupal 8 user login page. At the top, there is a blue header with the Drupal logo and the text "Drupal 8". Below the header is a "Home" button. The main content area features a "User login" form on the left with fields for "Username" and "Password", a "Log in" button, and links for "Create new account" and "Request new password". To the right of the form, the text "Welcome to Drupal 8" is displayed, followed by the message "No front page content has been created yet." and a small orange icon. At the bottom of the page, there is a dark footer with the text "Powered by Drupal".

# Difference from D7

The image illustrates the differences between Drupal 7 and Drupal 8, focusing on the user login interface and the comment module's architecture.

**Drupal 7 (Top Left):** Shows the user login page with a "User login" section. The "comment" module is highlighted in the file system view.

**Drupal 8 (Middle Left):** Shows the user login page with a "User login" section. The "comment" module is highlighted in the file system view.

**Drupal 7 (Top Right):** Shows the file system view of the "comment" module. The "comment" folder is highlighted in red. The code snippet shows the `comment_entity_info()` function.

```
function comment_entity_info() {
  return array(
    'comment' => array(
      'label' => t('Comment'),
      'base table' => 'comment',
      'uri callback' => 'comment_url',
      'table' => TRUE,
      'controller class' => 'CommentController',
      'entity type' => array(
        'id' => 'comment',
        'bundle' => 'node_type',
        'table' => 'subject',
        'language' => 'language',
      ),
    ),
  );
}
```

**Drupal 8 (Middle Right):** Shows the file system view of the "comment" module. The "comment" folder is highlighted. The code snippet shows the `CommentManager` class.

```
class CommentManager implements CommentManagerInterface {
  // ...
  // The field info service...
  // The entity manager service...
  // The current user...
  // Whether the DRUPAL_AUTHENTICATED_R33 can post comments...
  // ...
}
```

# Difference from D7

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9,322

contributed modules

for Drupal 7 alone

(not including sandbox projects)

# Decision making

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# Do-acracy

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“Drupal is a do-ocracy, [...] things happen within the community because people are willing to do them.

[blog.nerdery.com/2013/02/do-ocracy-and-the-drupal-contrib-ecosystem/](http://blog.nerdery.com/2013/02/do-ocracy-and-the-drupal-contrib-ecosystem/)

- Andrea "zendoodles" Zoper

Drupal is a do-ocracy. People who act get recognized and become influential

<https://twitter.com/drupalcon/status/211012731434835969>

- Addi "add1sun" Berry

# Example (pro)

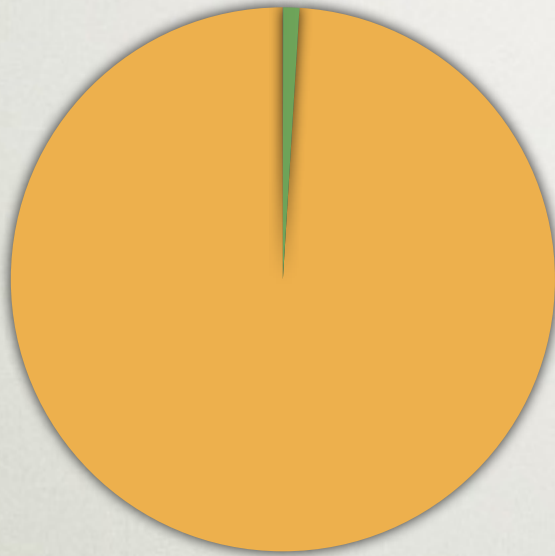
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**TWIG**



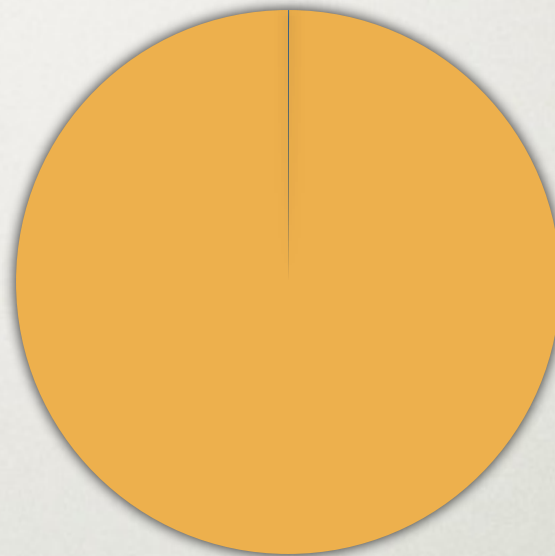
# Example (con)

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Alternate SQL

- Oracle 0.0001%
- MSSQL 0.9%
- MySQL / Postgres 99%



Alternate Field Storage

- MongoDB 0.0005%
- Riak, Combination, Per-bundle SQL 0.0001%
- Field SQL Storage 99.999%

# Distress

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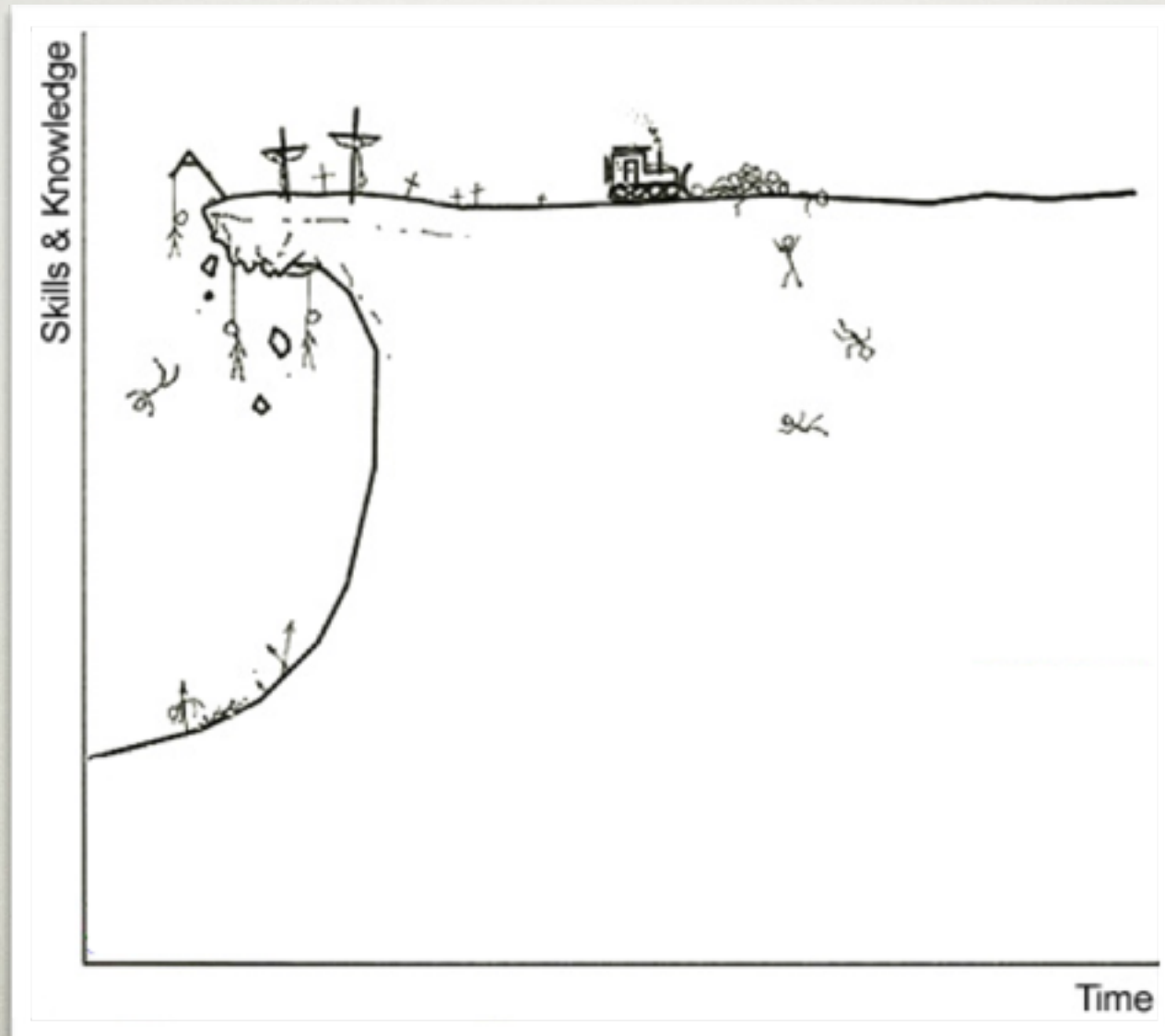


# Distress: Cost

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- software (free!)
- development
- hosting
- **maintenance**
- **upgrades**

# Distress: Difficulty



# Developer Audience



# Developer Audience

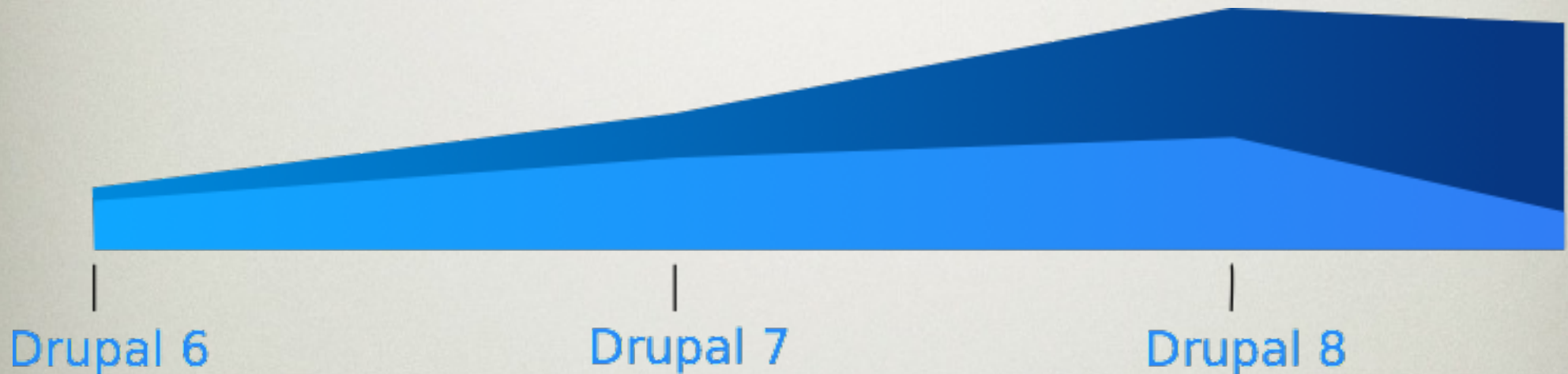
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I think there are two kinds of developers — I'm generalizing — in the Drupal world,

1. There's the self-taught Drupal developer and Drupal is how they learn to program.
2. And then there are the professionally trained developers [...] that went through college or had some sort of training...

# Drupal Usage

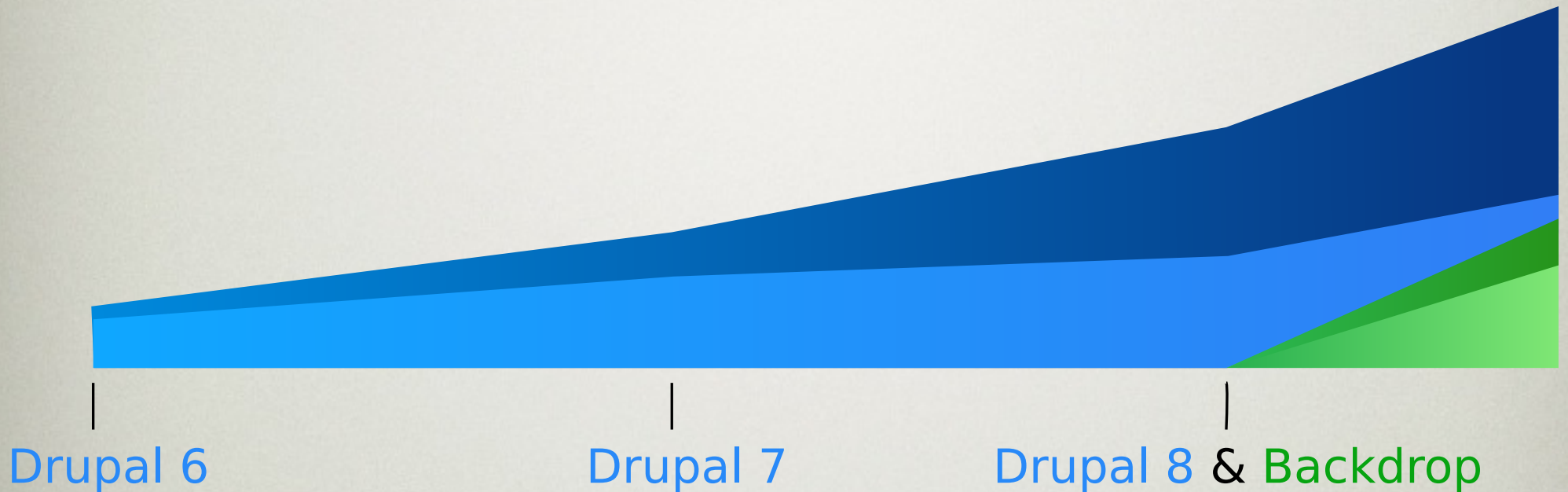
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- Drupal 8 successfully grows the "professional" market
- But compromises the self-taught "amateur" market

# Drupal Usage

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**Legend**



Drupal professionals



Drupal amateurs



Backdrop professionals



Backdrop amateurs

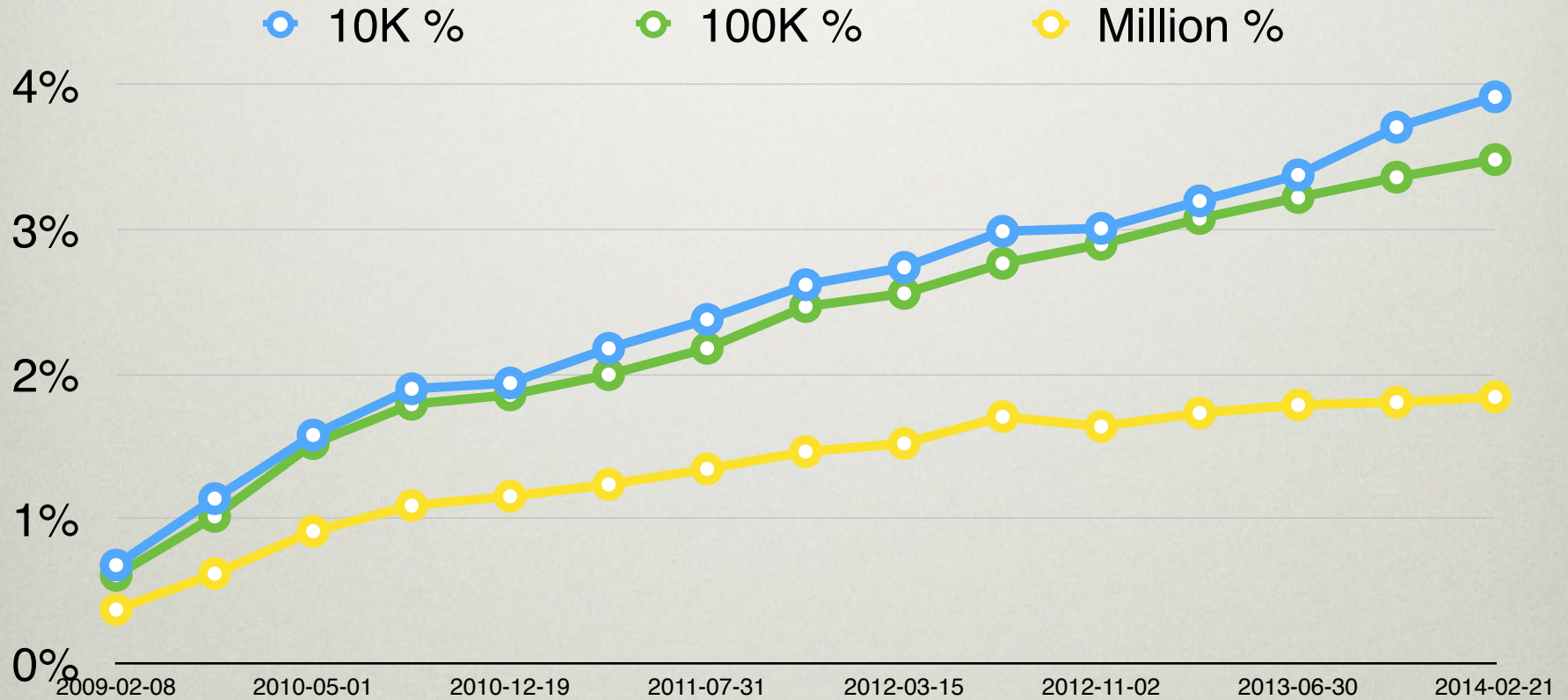
Backdrop CMS fills the down-market gap

# Direction

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# Direction



Drupal marketshare by site traffic



# Direction

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- Larger codebase
- More dependencies (on external libraries)
- Symfony-framework based HTTP Kernel
- All\* OOP code & design patterns
- Dependency Injection
- Going enterprise



A different direction

# Meritocracy

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“ Meritocracy is a philosophy that holds:  
power should be vested in individuals  
according to merit.

**Backdrop CMS will be evaluating  
ideas  
based on merit.**

<http://en.wikipedia.org/wiki/Meritocracy>

# Evaluating “Merit”

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Who decides what has merit?

What criteria are evaluated  
to decide merit?

# Evaluating "Merit"

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# PMC

Project Management Committee



<http://www.apache.org/dev/pmc.html>

# Project Management Committee (PMC)

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Escalated Issues

Core Committers



Daily Code Review and Merging

# Evaluating "Merit"

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Who decides what has merit?

What criteria are evaluated  
to decide merit?

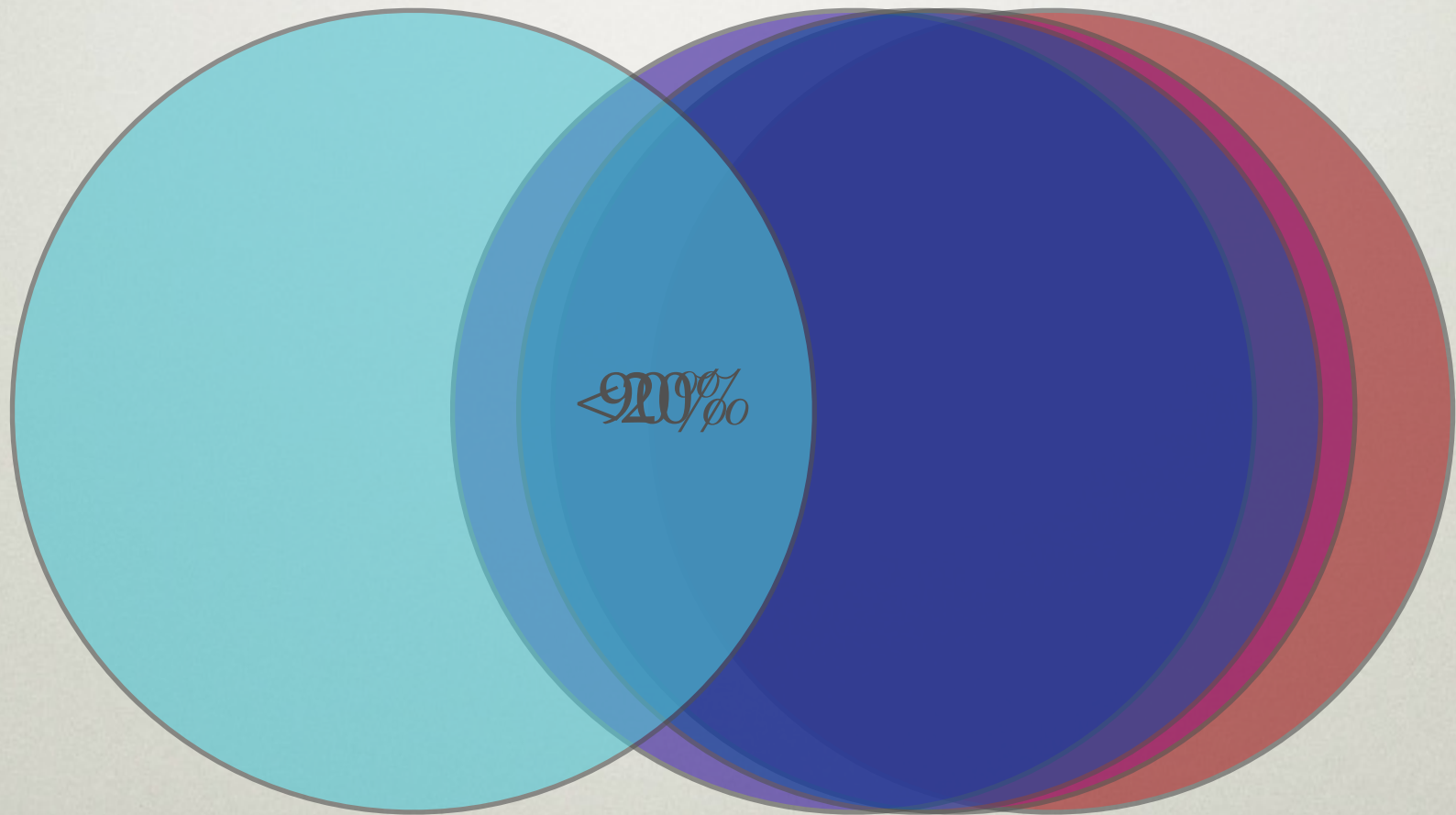
# Backdrop CMS Philosophy

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1. Keep change to a **minimum**
2. Architect for the **majority** (code style)
3. Design for the **majority** (features & UI)
4. Provide **extensibility** (for the minority)
5. Keep **low system requirements**
6. Issue **planned and measured** releases
7. Always remain free and **Open Source**



# Keep change to a minimum



# Architect for the Majority

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- Use basic language patterns
- Choose direct implementation over abstraction

**Better code isn't necessarily  
better for the community**

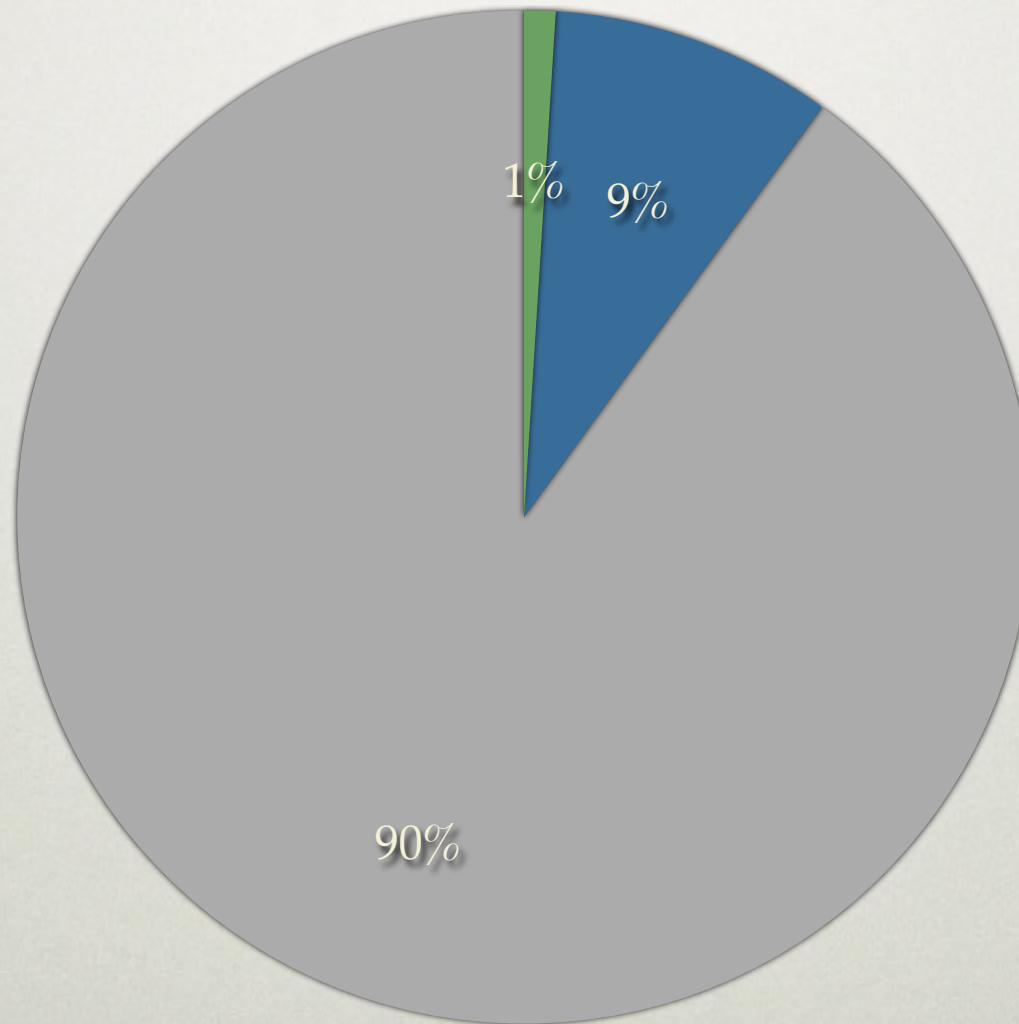
# Design for the Majority

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- Features in core should apply to 80% of all sites.
- **Remove** modules that don't meet this criteria.
- Only **Add** modules that do.

# Web: 1% Rule

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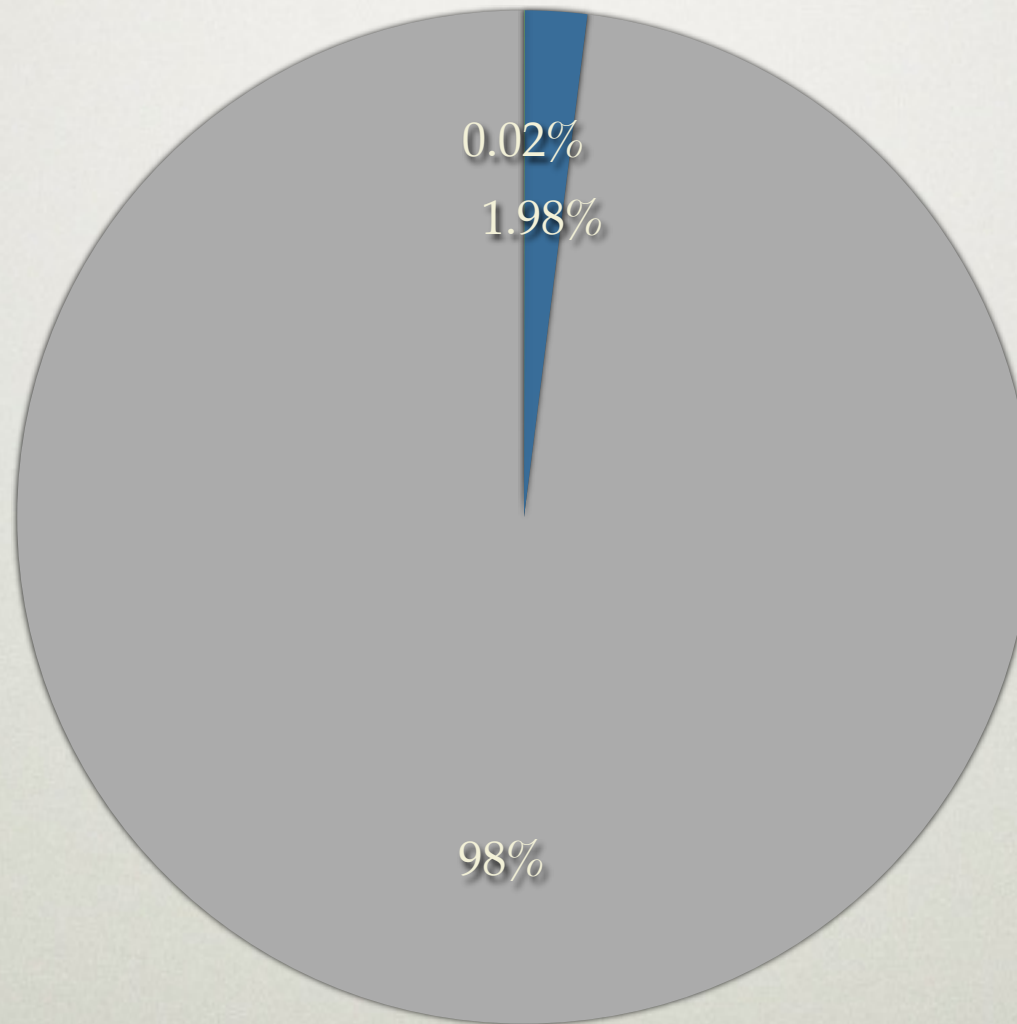
● Creators

● Contributors

● Lurkers

# In Drupal it's 0.02%

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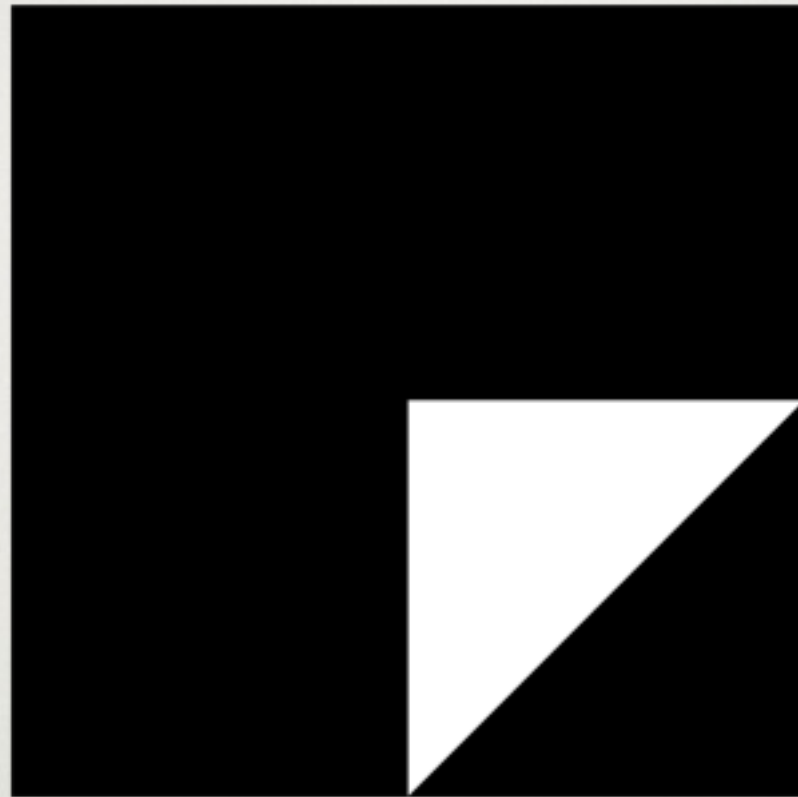
● Core developers ● Active contributors ● Consumers

# Provide Extensibility

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- Maintain stable APIs (even across major releases) \*
- The minority can turn to contributed code for their solutions.
- Improve the software iteratively with regular minor releases.

\* approximately 90% code compatible



Where are we now?

# Removed from core

---

- aggregator
- dashboard
- forum
- help
- openID
- overlay
- PHP
- poll
- RDF
- shortcut
- statistics
- tracker
- trigger
- toolbar
- xml-rpc
- SQLite support
- Postgres support



# Configuration Management

This form allows you to synchronize configuration between sites, such as in development, staging, and production servers. This page shows you the current differences between your current configuration and changes that have been staged for deployment.

## 4 configurations changed

NAME	MODIFIED TIME	OPERATIONS
admin_menu.settings	07/17/2014 - 20:23	<a href="#">View differences</a>
image.styles.large	07/17/2014 - 20:23	<a href="#">View differences</a>
menu.settings	07/17/2014 - 20:23	<a href="#">View differences</a>
system.cron	07/17/2014 - 20:23	<a href="#">View differences</a>

## 1 new configuration

NAME	MODIFIED TIME	OPERATIONS
image.styles.super	07/17/2014 - 20:23	<a href="#">View differences</a>

## 1 configuration removed

NAME	OPERATIONS
image.styles.thumbnail	<a href="#">View differences</a>

Import all

# Views (in core)

Modify the display(s) of your view below or add new displays.

## Displays

[Page](#)
[Block](#)
[+ Add](#)
[edit view name/description](#)

---

Display name: [Page](#) [view Page](#)

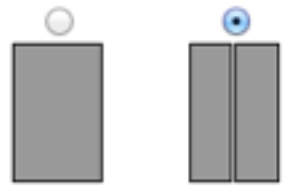
<p><b>TITLE</b></p> <p>Title: <a href="#">Recent comments</a></p> <p><b>FORMAT</b></p> <p>Format: <a href="#">HTML list</a>   <a href="#">Settings</a></p> <p>Show: <a href="#">Fields</a>   <a href="#">Settings</a></p> <p><b>FIELDS</b> <a href="#">Add</a></p> <p>(Content) <a href="#">Content: Title (Reply to)</a></p> <p><a href="#">Comment: Updated date</a></p> <p><a href="#">Comment: Title</a></p> <p><a href="#">Comment: Comment</a></p> <p><b>FILTER CRITERIA</b> <a href="#">Add</a></p> <p>(Content) <a href="#">Content: Published or admin</a></p> <p><b>SORT CRITERIA</b> <a href="#">Add</a></p> <p><a href="#">Comment: Updated date (desc)</a></p>	<p><b>PAGE SETTINGS</b></p> <p>Path: <a href="#">/comments/recent</a></p> <p>Menu: <a href="#">No menu</a></p> <p>Access: <a href="#">None</a></p> <p><b>HEADER</b> <a href="#">Add</a></p> <p><b>FOOTER</b> <a href="#">Add</a></p> <p><b>PAGER</b></p> <p>Use pager: <a href="#">Display a specified number of items</a>   <a href="#">5 items</a></p> <p>More link: <a href="#">Yes</a></p>	<p><b>CONTEXTUAL FILTERS</b> <a href="#">Add</a></p> <p><b>RELATIONSHIPS</b> <a href="#">Add</a></p> <p><a href="#">Comment: Content</a></p> <p><b>NO RESULTS BEHAVIOR</b> <a href="#">Add</a></p> <p><b>EXPOSED FORM</b></p> <p>Exposed form in block: <a href="#">No</a></p> <p>Exposed form style: <a href="#">Basic</a>   <a href="#">Settings</a></p> <p><b>OTHER</b></p> <p>Machine Name: <a href="#">page</a></p> <p><a href="#">Comment: No comment</a></p> <p>Use AJAX: <a href="#">No</a></p> <p>Hide attachments in summary: <a href="#">No</a></p> <p>Hide contextual links: <a href="#">No</a></p> <p>Use aggregation: <a href="#">No</a></p> <p>Query settings: <a href="#">Settings</a></p>
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# Blocks & Layouts Revamp

### Layout title

Article Content Machine name: article\_content [Edit]

### Layout



Single column Two column

### Path

node/%

Use the "%" (percent) symbol to indicate a wildcard in the path. i.e. "node/%" or "node/%/edit".

### Contexts

CONEXT	TYPE
Position 2: node/%	Node from path

Contexts define what blocks are available within this layout. Most wildcards in the path will be associated with a context automatically.

### Conditions

User has the role administrator [Remove](#) [Configure](#)

+ Add condition

Conditions allow this layout to selectively apply to different situations, such as different types of content at the same wildcard path.

Save settings

# Edit layout settings

LAYOUT

SETTINGS

## Title type

Default title

### Left side

Add content

User menu

Configure

Syndicate

Configure

### Right side

Add content

User login

Configure

Search

Configure

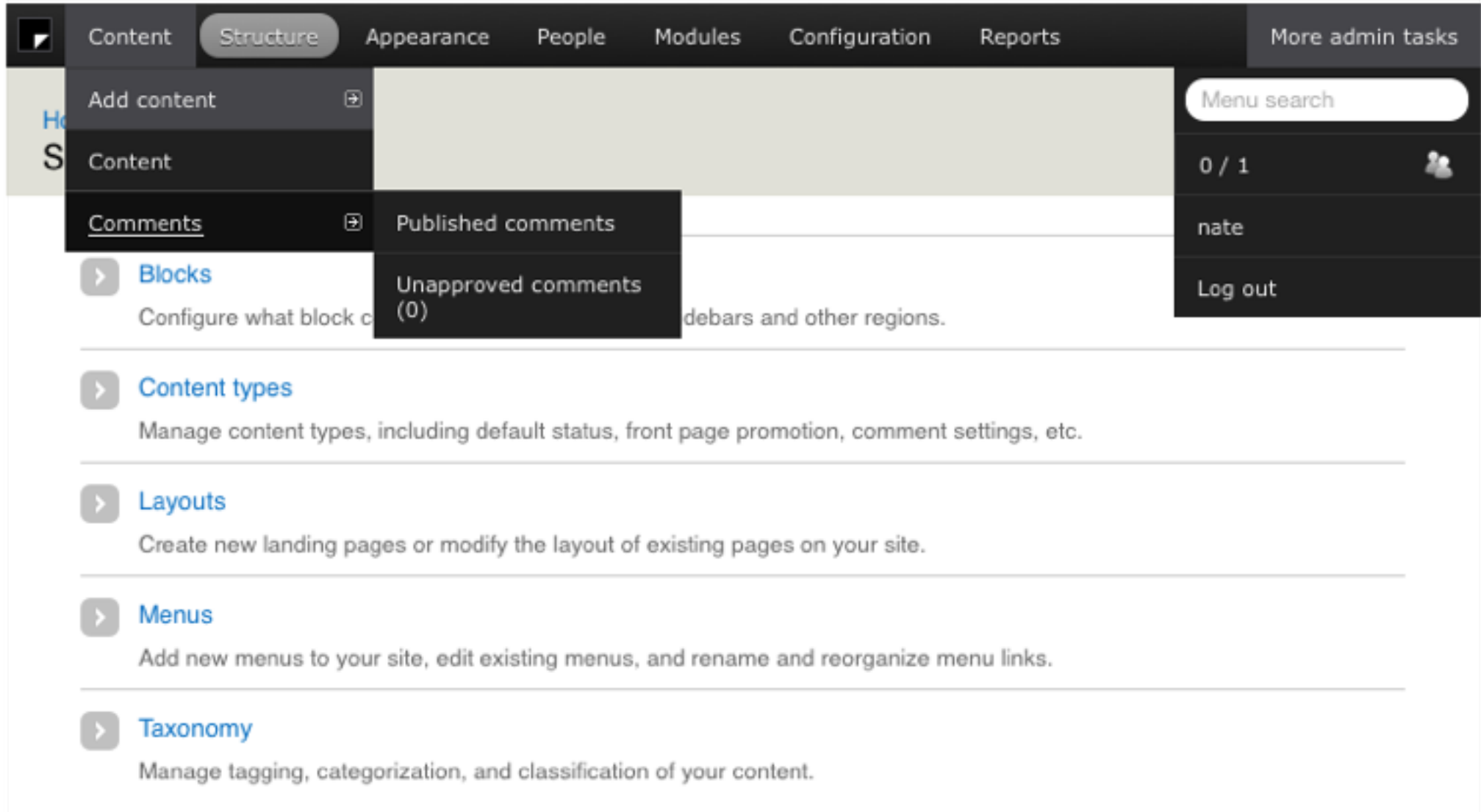
Powered by Backdrop

Configure

Save layout

Cancel

# Improved Mobile Support



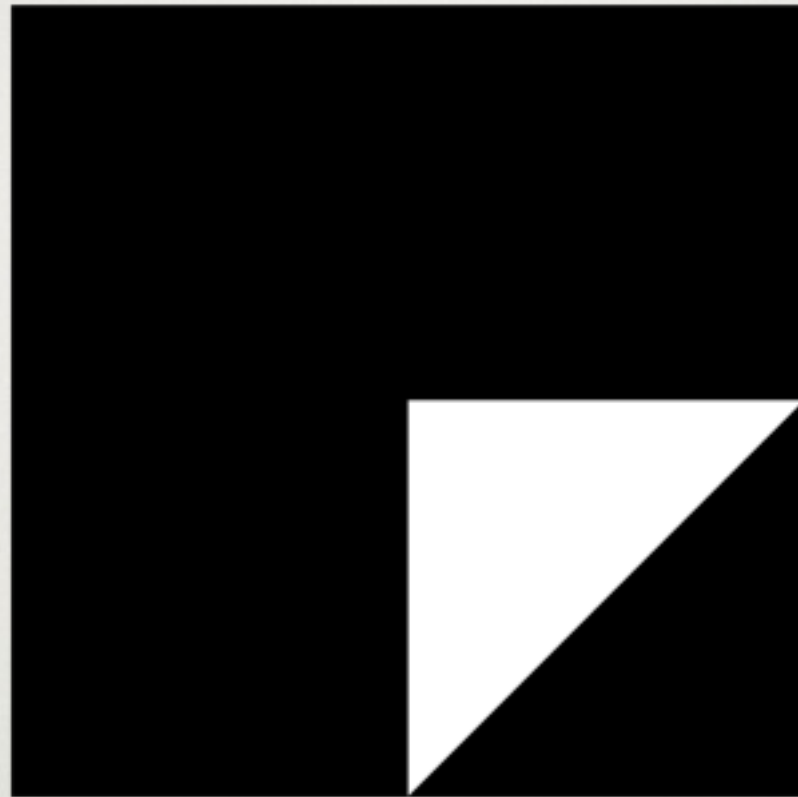
The screenshot displays a mobile web interface for a Drupal administration site. At the top, there is a navigation bar with tabs for 'Content', 'Structure', 'Appearance', 'People', 'Modules', 'Configuration', 'Reports', and 'More admin tasks'. The 'Structure' tab is currently selected. Below the navigation bar, a dropdown menu is open, showing options: 'Add content', 'Content', 'Comments', 'Blocks', 'Content types', 'Layouts', 'Menus', and 'Taxonomy'. The 'Comments' option is expanded, showing sub-options: 'Published comments' and 'Unapproved comments (0)'. On the right side, there is a 'More admin tasks' panel with a search bar, a user count '0 / 1', a user profile icon, the name 'nate', and a 'Log out' button. The main content area lists several administrative tasks with descriptions:

- Blocks**: Configure what block c... debars and other regions.
- Content types**: Manage content types, including default status, front page promotion, comment settings, etc.
- Layouts**: Create new landing pages or modify the layout of existing pages on your site.
- Menus**: Add new menus to your site, edit existing menus, and rename and reorganize menu links.
- Taxonomy**: Manage tagging, categorization, and classification of your content.

# Backdrop CMS Roadmap

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- ✓ 1. Built-in Configuration Management
- ✓ 2. Built-in Views Module
- ✓ 3. Revamped Block/ Layout System
4. Built-in Rich-Text Editing
- ✓ 5. Improved Editorial Experience
- ✓ 6. Improved Mobile Support
- ✓ 7. HTML5 Markup and Fields
- ✓ 8. Improved Performance
- ✓ 9. Reduced theme system complexity
- ✓ 10. Improved Multilingual Support



When will it be released?

# Backdrop CMS

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Coming

~~Summer 2014~~

Fall 2014.



# Get involved

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Google Hangouts every Thursday 1pm PT

Sprints every Thursday #backdrop

IRC: #backdrop

<http://backdropcms.org>

[github.com/backdrop/backdrop](https://github.com/backdrop/backdrop)

@BackdropCMS @jenlampton @quicksketch

# Questions?

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IRC: #backdrop

<http://backdropcms.org>

[github.com/backdrop/backdrop](https://github.com/backdrop/backdrop)

@BackdropCMS @jenlampton @quicksketch

# backdrop



A CMS for small-medium business & non-profits.

IRC: #backdrop

<http://backdropcms.org>

[github.com/backdrop/backdrop](https://github.com/backdrop/backdrop)

@BackdropCMS @jenlampton @quicksketch

# Image credits

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- Scales:  
<http://thescifichristian.com/2013/09/tng-theology-remember-me>
- Raised hands:  
<http://frenchspin.com/en/site/everything/articles>
- Distress:  
<http://www.salvilaw.com/practice-areas/personal-injury-lawyers/emotional-distress>
- USS Enterprise:  
<http://thescifichristian.com/2013/09/tng-theology-remember-me>