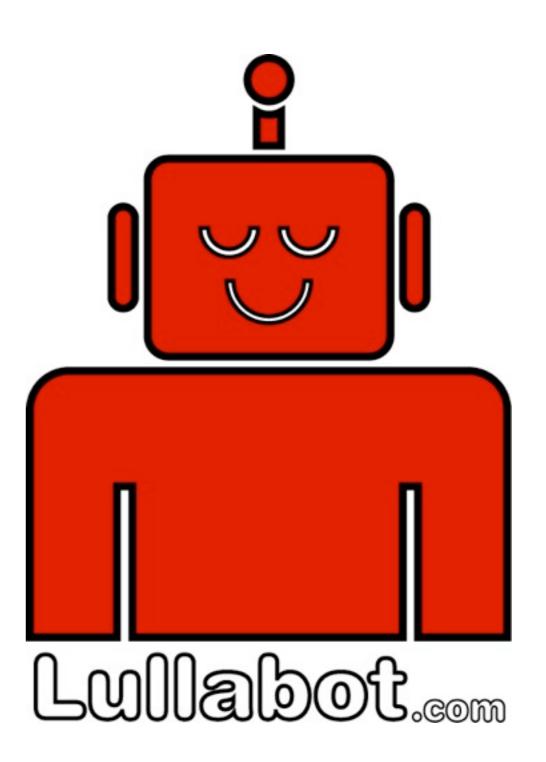
# 

Angela "webchick" Byron Drupalcon Paris September 2, 2009

### About Me

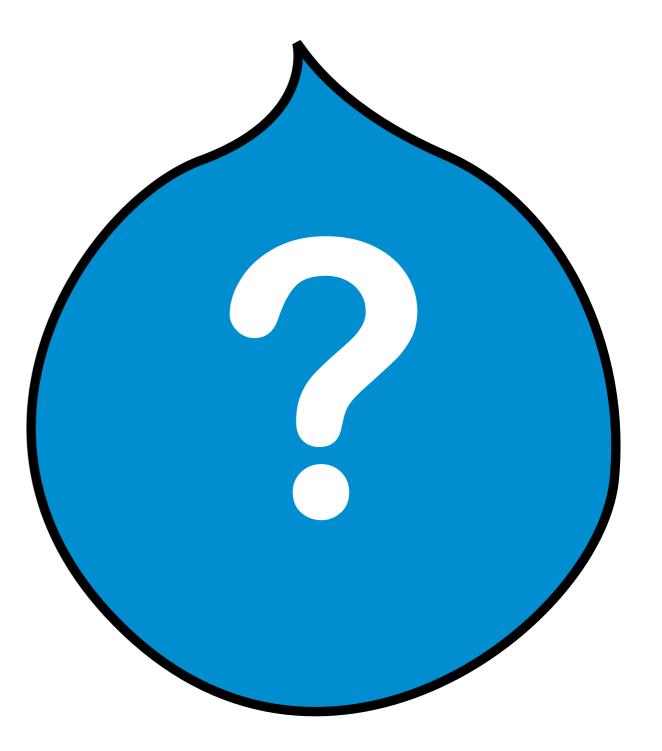
- Started Drupal in 2005 as Google Summer of Code student
- Obsessed with everything Drupal (especially getting new people involved!)
- Using Drupal co-author, Drupal Association board member, Drupal 7 comaintainer
- Work at Lullabot doing Drupal consulting and education



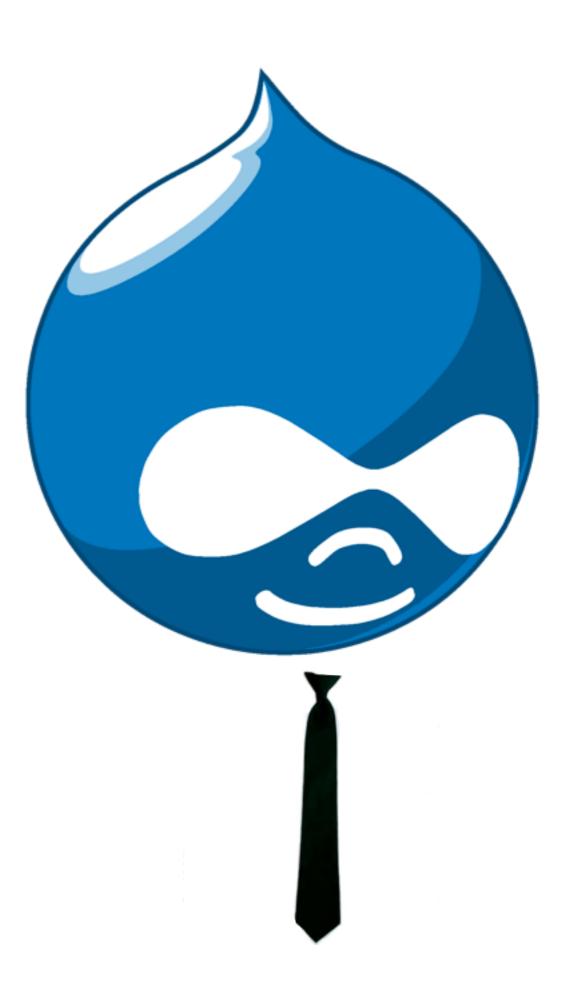
## Agenda

- Talk about how much Drupal 7 is going to rock your face off.
- Talk about how YOU can help get Drupal 7 out the door so we can start building even more awesome sites!

# What's new in Drupal 7?



### Changes for end-users and clients



## Usability improvements



UB USABILITY TESTING Results from Usability Testing at the University of Baltimore 2009

"Sort of like COBOL. In small applications it's more work than it's worth, in big applications it's gonna be more useful"

### Home

| 1 | C. | -   | h  | 2 |  |
|---|----|-----|----|---|--|
|   | 26 | arc | 'n | 2 |  |

Videos are currently being rendered and compressed and uploaded. They will be available shortly. Videos currently available: Participant 1, Particpant 10, and Particpant 11. Stay tuned for more! Slides from our presentation are

### PARTICIPANTS

- Participant: 1
- Participant: 2
- Participant: 3
- Participant: 4
- Participant: 5
- · Participant: 6
- Participant: 7
- Participant: 8
- Participant: 9
- Participant: 10
- Participant: 11

ISSUE CATEGORIES available for download here, the video of the presentation is available here.

### **UB 2009 Usability Testing**

Setup taxonomy for workshops

| Issue  | Issue | Criticality | Drupal7 |
|--|-------|-------------|---------|
| Users asked to enter pointless information -                           | Link  |             |         |
| Terms listed alphabetically, not in creation order -                   | Link  | Critical    | Open    |
| Taxonomy help text is too long -                                       | Link  | Critical    | Open    |
| Users Fill Out Advanced Settings For Terms (but they are never used) - |       | Critical    | Open    |
| Taxonomy example content can look like table header -                  | ,     | Critical    | Open    |
| Terms liste http://drupalusability.org/                                |       | Critical    | Open    |

Tuesday, September 15, 2009

### Password checker

lude

### Drupal 6

### Password:

.

Password strength: Low

**Confirm password:** 

| •••                       | Passwords match: No  |
|---------------------------|--|
| It is recommended to choo | se a password that contains at least six characters. It should inc |
| numbers, punctuation, and | both upper and lowercase letters.                                  |

To change the current user password, enter the new password in both fields.

### Drupal 7

| Password   | Confirm password    |
|--|---------------------|
| ••••   |                     |
| Password strength:                               | Passwords match: no |
| To make your password strong                     | ger:                |
| <ul> <li>Make it at least 6 character</li> </ul> | ers                 |
| <ul> <li>Add uppercase letters</li> </ul>        |                     |
| <ul> <li>Add numbers</li> </ul>                  |                     |
| C 411 1 1  |                     |

Add punctuation

To change the current user password, enter the new password in both fields.

### Text format selector

### Drupal 6

### Input format

### Filtered HTML

O Web page addresses and e-mail addresses turn into links automatically.

O Allowed HTML tags: <a> <em> <strong> <cite> <code> <u|> <o|> <d|> <dt> <dd>

O Lines and paragraphs break automatically.

### G Full HTML

O Web page addresses and e-mail addresses turn into links automatically.

O Lines and paragraphs break automatically.

### More information about formatting options

### Drupal 7

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> <dl> <dt> <dd> Lines and paragraphs break automatically.

### Vertical tabs

| Ľ   | Drupal 6              |  |  |  |  |
|-----|-----------------------|--|--|--|--|
| - > | Revision information  |  |  |  |  |
| -0  | Comment settings      |  |  |  |  |
| -⊳  | File attachments      |  |  |  |  |
| - > | Authoring information |  |  |  |  |
| ->  | Publishing options    |  |  |  |  |



| Menu settings<br>Not in menu                               |
|--|
| Revision information<br>No revision                        |
| URL path settings<br>No alias                              |
| Comment settings<br>Open                                   |
| Authoring information<br>By a                              |
| Publishing options<br>Published, Promoted to front<br>page |

### Menu link title

The link text corresponding to this item that should appear in the menu. Leave blank if you do not wish to add this post to the menu.

+

### **Parent item**

### <Main menu>

The maximum depth for an item and all its children is fixed at 9. Some menu items may not be available as parents if selecting them would exceed this limit.

### Weight

0 🛟

Optional. In the menu, the heavier items will sink and the lighter items will be positioned nearer the top.

### Permission screen

| PERMISSION  | ANONYMOUS<br>USER | AUTHENTICATED<br>USER | ADMINISTRATOR |
|---|-------------------|-----------------------|---------------|
| Block   |                   |                       |               |
| Administer blocks<br>Select which blocks are displayed, and arrange them on the<br>page.              | >                 |                       |               |
| Comment   |                   |                       |               |
| Administer comments<br>Manage and approve comments, and configure comment<br>administration settings. |                   |                       |               |
| Access comments<br>View comments attached to content.   |                   |                       |               |
| Post comments<br>Add comments to content (approval required).   |                   |                       | $\checkmark$  |

# Default front page

### Drupal 6

### Welcome to your new Drupal website!

Please follow these steps to set up and start using your website:

### 1. Configure your website

Once logged in, visit the administration section, where you can customize and configure all aspects of your website.

### 2. Enable additional functionality

Next, visit the module list and enable features which suit your specific needs. You can find additional modules in the Drupal modules download section.

### Drupal 7

### 3. Customize your website design

To change the "look and feel" of your website, visit the themes section. themes or download additional themes from the Drupal themes download

### 4. Start posting content

Finally, you can create content for your website. This message will disar the front page.

For more information, please refer to the help section, or the online Drupal

Drupal forum, or view the wide range of other support options available.

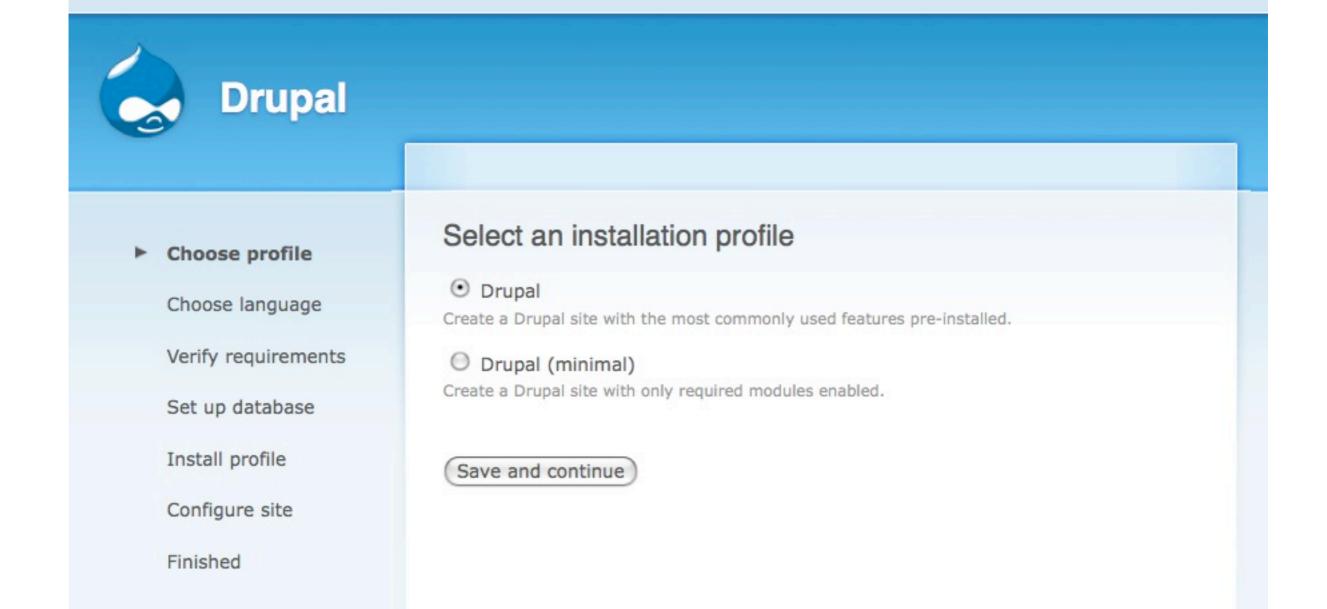
### Tuesday, September 15, 2009

### Welcome to localhost

No front page content has been created yet.

- Create content
- Change the default front page

### Default/Minimal Profile



## Default profile

| localhost   | Add a main menu link<br>Add a secondary menu link | > |
|---|---|---|
|   | Home > Create content                             |   |
| а   | Create Article                                    |   |
| <ul> <li>My account</li> </ul>                                    | Title: *  |   |
| <ul> <li>Create content</li> <li>Article</li> <li>Page</li> </ul> | Tags:   |   |
| Administer  | Enter a comma-separated list of words.            |   |
| <ul> <li>Log out</li> </ul>                                       | Body:   |   |

# D7UX Drupal 7 User Experience Project

About Project Framework

Our UX Principles: 1. Make the most frequent tasks easy and less frequent tasks achievable. 2. Design for the 80% 3. Privilege the Content Creator 4. Make the default settings smart

| Media Lil              | orary Microproject - Update &  |
|------------------------|--|
| Feedback               | Please!  |
| Posted: July 3rd. 2009 | Author: Leisa Reichelt   Filed under: 4.0 Content, designing together   Tags: media, media |

Posted: July 3rd, 2009 | Author: Leisa Reichelt | Filed under: 4.0 Content, designing together | Tags: media, media library, microprojects | 10 Comments »



Tuesday, September 15, 2009

### New Information Architecture

- New IA separates administrative tasks into "contexts":
  - I'm dealing with content.
  - I'm building out site structure.
  - I'm changing my site's appearance.
  - I'm managing the people who come to my site.
  - I'm configuring modules and settings.

### Drupal 4.x IA

- administer
  - access control
  - aggregator
  - blocks
  - categories
  - comments
  - contact form
  - content
  - forums
  - input formats
  - localization
  - Iogs
  - menus
  - modules
  - settings
    - aggregator
    - blogapi
    - content types
    - drupal
    - menus
    - posts
    - profiles
    - search
    - statistics
    - throttle
    - upload
    - users
  - themes
  - url aliases
  - users

### Drupal 4.x IA

| ad | Iminister       |
|----|-----------------|
| 0  | access control  |
| 0  | aggregator      |
| 0  | blocks          |
| 0  | categories      |
| 0  | comments        |
| 0  | contact form    |
| 0  | content         |
| ٥  | forums          |
| ٥  | input formats   |
| 0  | localization    |
| •  | logs            |
| 0  | menus           |
| 0  | modules         |
| •  | settings        |
|    | • aggregator    |
|    | • blogapi       |
|    | • content types |
|    | • drupal        |
|    | • menus         |
|    | • posts         |
|    | • profiles      |
|    | • search        |
|    | • statistics    |
|    | • throttle      |
|    | • upload        |
|    | • users         |
| 0  | themes          |
| 0  | uriallases      |
| 0  |                 |

User management

permissions for roles.

List, edit, or add user roles.

List, add, and edit users.

site features.

Access rules

Permissions

User settings

pictures.

Profiles

Roles

Users

Reports

information.

Recent hits

Recent log entries

Manage your site's users, groups and access to

List and create rules to disallow usernames,

Determine access to features by selecting

Create customizable fields for your users.

Configure default behavior of users, including

registration requirements, e-mails, and user

View reports from system logs and other status

View events that have recently been logged.

View pages that have recently been visited.

e-mail addresses, and IP addresses.

### Content management

Manage your site's content.

### Books

Manage your site's book outlines.

### Comments

List and edit site comments and the comment moderation queue.

### Content

View, edit, and delete your site's content.

### Content types

Manage posts by content type, including default status, front page promotion, etc.

### Feed aggregator

Configure which content your site aggregates from other sites, how often it polls them, and how they're categorized.

### Forums

Control forums and their hierarchy and change forum settings.

### Post settings

Control posting behavior, such as teaser length, requiring previews before posting, and the number of posts on the front page.

### **RSS** publishing

Configure the number of items per feed and whether feeds should be titles/teasers /full-text.

### Taxonomy

Manage tagging, categorization, and classification of your content.

### Site building

Control how your site looks and feels.

### Blocks Configure what block content appears in y

site's sidebars and other regions.

### Contact form

Create a system contact form and set up categories for the form to use.

### Menus

Control your site's navigation menu, prima links and secondary links, as well as renar

and reorganize menu items.

### Modules

Enable or disable add-on modules for your site.

### Themes

Change which theme your site uses or allo users to set.

### Translate interface

### Translate the built in interface and optiona

other text.

### Triggers

Tell Drupal when to execute actions.

### URL aliases

Change your site's URL paths by aliasing t

### Views

Views are customized lists of content on y system; they are highly configurable and you control over how lists of content are presented.

### Top 'page not found' errors View 'page not found' errors (404s).

View 'access denied' errors (403s).

Top 'access denied' errors

Top referrers

### Site configuration

Adjust basic site configuration options.

### Actions

Manage the actions defined for your site.

### Administration theme

Settings for how your administrative pages should look.

### Blog API

Configure the content types available to external blogging clients.

### Clean URLs

Enable or disable clean URLs for your site.

### Date and time

Settings for how Drupal displays date and time, as well as the system's default timezone.

### Error reporting

Control how Drupal deals with errors including 403/404 errors as well as PHP error reporting.

### File system

Tell Drupal where to store uploaded files and how they are accessed.

### File uploads

Control how files may be attached to content.

### Image toolkit

Choose which image toolkit to use if you have installed optional toolkits.

### ImageAPI

Configure ImageAPI.

### Input formats

Configure how content input by users is filtered, including allowed HTML tags. Also allows enabling of module-provided filters.

### Languages

(this list goes on forever...)

Tuesday, September 15, 2009

### Content management

### Site building

Top 'page not found' errors

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List, edit, or add user roles.

List, add, and edit users.

site features.

Access rules

Permissions

User settings

pictures.

Profiles

Roles

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### Languages

(this list goes on forever...)

Tuesday, September 15, 2009

### Content management

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| Books<br>Manage your site's book outlines.   |
|--|
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(this list goes on forever...)

### Drupal 7 IA

### Content

View, edit, and delete your site's content and comments.

### Appearance

Select and configure your site theme.

### People

Find and manage people interacting with your site.

### Reports

Recent log entries View events that have recently been logged.

Field list Overview of fields on all object types.

Top 'access denied' errors View 'access denied' errors (403s).

Top 'page not found' errors View 'page not found' errors (404s).

Top search phrases View most popular search phrases.

### Available updates

Get a status report about available updates for your installed modules and themes.

### Structure

### Blocks

Configure what block content appears in your site's sidebars and other regions.

### Content types

Manage posts by content type, including default status, front page promotion, comment settings, etc.

### 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.

### Configuration and modules

Regional and language Regional settings, localization and translation.

### People and permissions Configure user accounts, roles and permissions.

Search and metadata Local site search, metadata and SEO.

### Web services

Tools related to web services.

### Content authoring Settings related to formatting and authoring content.

Development Development tools.

Status report

### Drupal 7 IA

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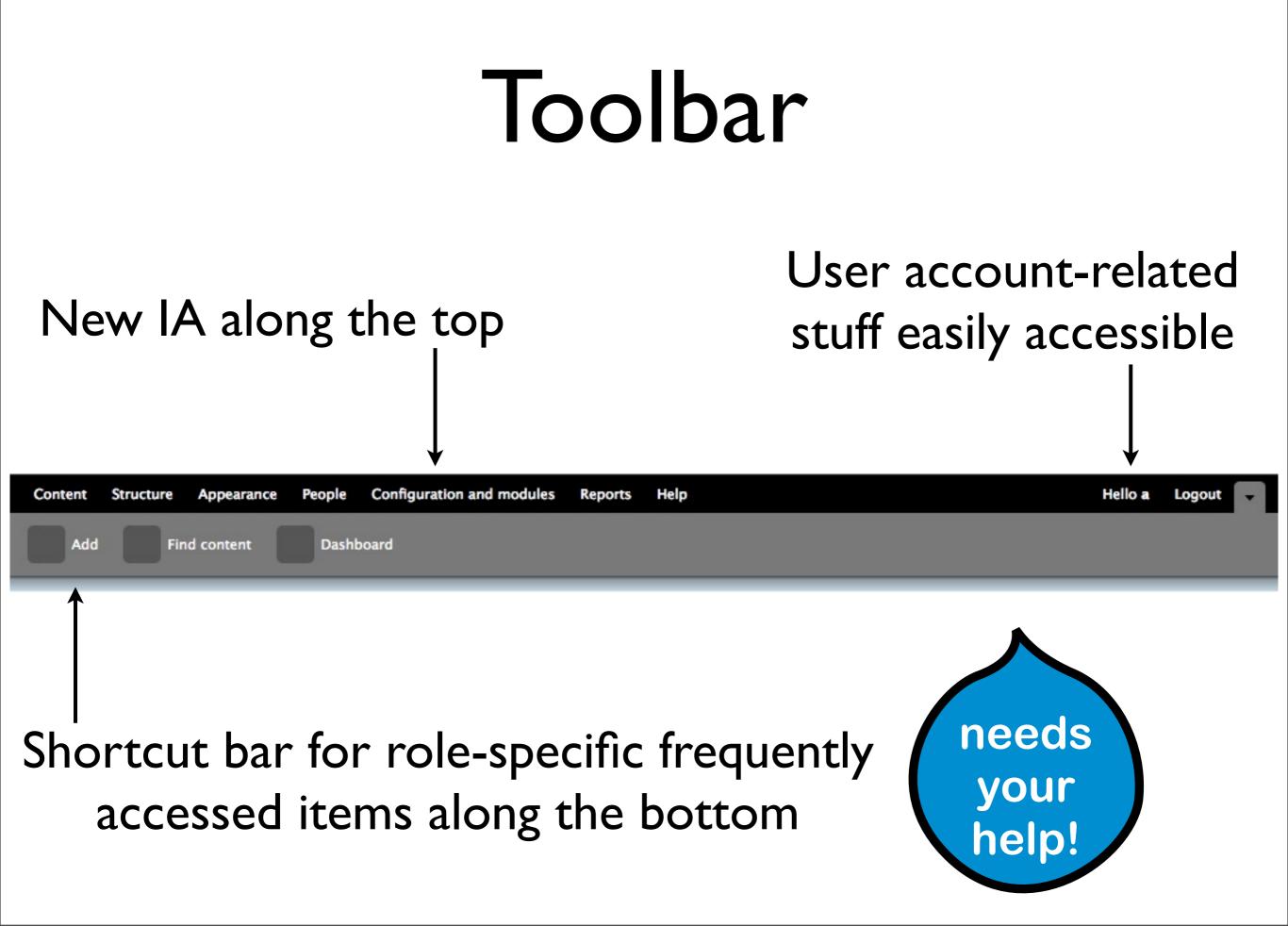
earch and metadata Local site search, metadata and SEO.

Veb services Tools related to web services

Settings related to formatting and authoring content.

Development Development tools.

Status report



### Admin Theme: "Seven"

| Home » | Administer                     |            |        |           |                    |         |          |
|--------|--------------------------------|------------|--------|-----------|--------------------|---------|----------|
| Cont   | ent                            |            |        |           |                    | CONTENT | COMMENTS |
| + Add  | new content                    |            |        |           |                    |         |          |
| SHO    | W ONLY ITEMS WE                | HERE       |        |           |                    |         |          |
| ⊙ st   | atus is p                      | ublished 🗾 | Filter |           |                    |         |          |
| Oty    | A                              | - rticle   |        |           |                    |         |          |
| Put    | ATE OPTIONS<br>olish<br>Jpdate |            |        |           |                    |         |          |
|        | TITLE                          | ТҮРЕ       | AUTHOR | STATUS    | UPDATED            |         | ERATIONS |
|        | A piece of content             | t Article  | a      | published | 08/30/2009 - 17:18 | edi     | t        |
|        | A page!                        | Page       | a      | published | 08/30/2009 - 17:19 | edi     | t        |

## Overlays

needs

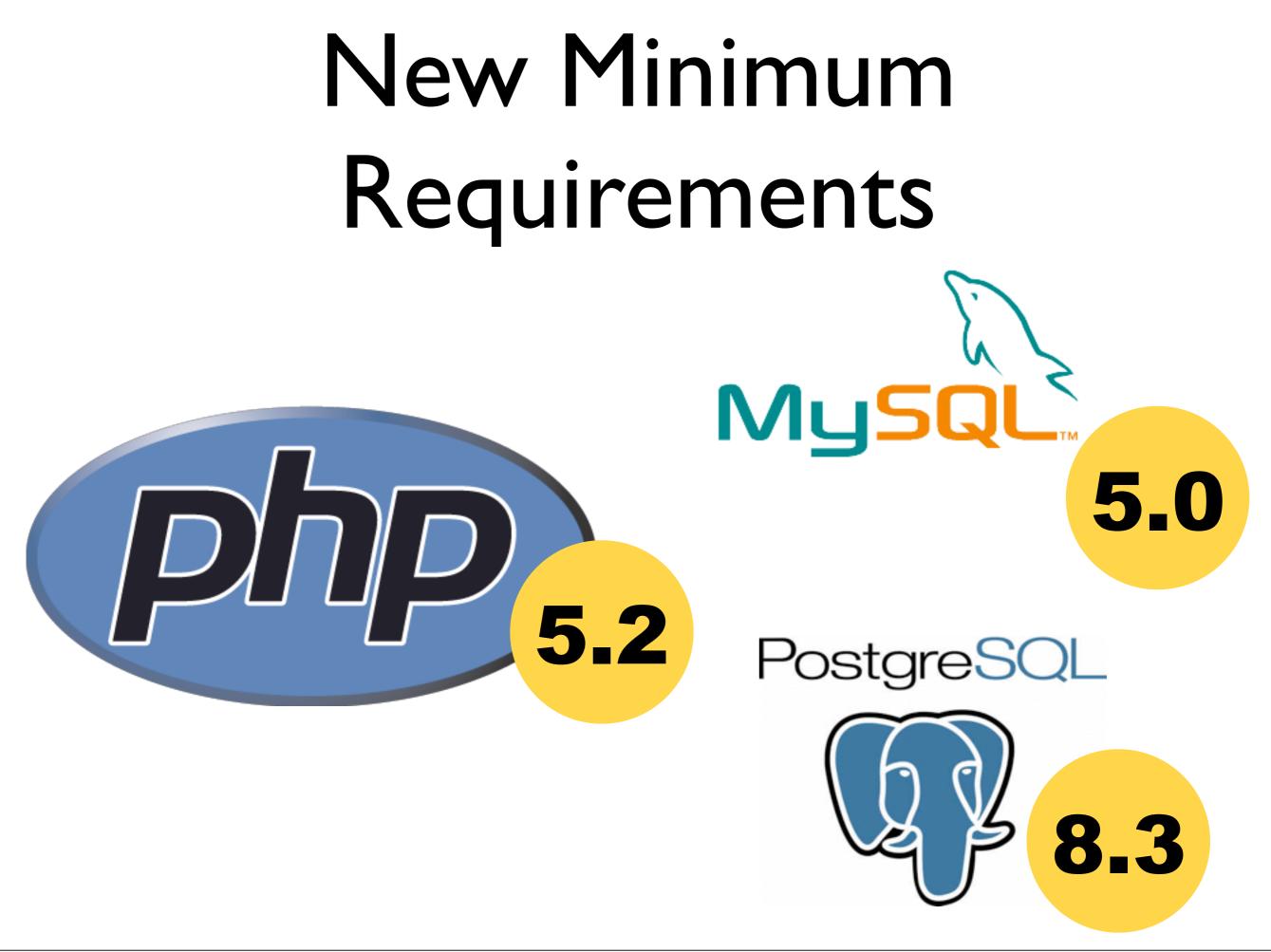
your

|         | Cont  | ent           |             |        |           |                    |      | COMMENTS | in menu li |
|---------|-------|---------------|-------------|--------|-----------|--------------------|------|----------|------------|
|         |       |               |             |        |           |                    |      |          | ×<br>Log o |
|         | + Add | d new content |             |        |           |                    |      |          |            |
|         | SHO   | OW ONLY ITE   | MS WHERE    |        |           |                    |      |          |            |
| lission | 1.10  | status        | is publishe | d      | Filter    |                    |      |          |            |
|         |       | ype<br>erm    | Article     |        | -         |                    |      |          |            |
| x       |       | DATE OPTION   | IS          |        |           |                    |      |          |            |
| 09/01,  |       | iblish        | <u> </u>    |        |           |                    |      |          |            |
|         |       | Update        |             |        |           |                    |      |          |            |
| lead m  |       | TITLE         | ТҮРЕ        | AUTHOR | STATUS    | UPDATED            | ▼ OP | ERATIONS | У          |
|         |       | Yeehaw        | Article     | a      | published | 09/01/2009 - 22:48 | edi  | t        |            |
|         |       |               |             |        |           |                    |      |          |            |

|  | Edit in place   | needs                               |
|--|---|-------------------------------------|
| Content Structure Appearance Add Find content Content Drupal | Basels Old surfacestics Configuration and modules Departs Hale  | your<br>help!<br>My account Log out |
| Search this site<br>Search<br>Management<br>Add new content  | Testing<br>Wed, 08/19/2009 - 04:34 – cwgordon7<br>This is a test.<br>This is a test.<br>This is a test. |                                     |
|  | This is a test 1 2 3 4 5 6 7 8 9 10   |                                     |
| Inactive, but<br>editable items<br>with dashed<br>borders.   | Read more Add new comment   |                                     |

# Changes for site builders





# Timezone and Country support

Home » Administer » Configuration and modules » Regional and language

### **Regional settings**

| LOCALE   |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| Default country  |  |  |  |  |  |  |
| France   |  |  |  |  |  |  |
| First day of week  |  |  |  |  |  |  |
| Sunday 💌   |  |  |  |  |  |  |
| TIME ZONES   |  |  |  |  |  |  |
| Default time zone  |  |  |  |  |  |  |
| Europe/Paris: Wednesday, September 2, 2009 - 00:48 +0200 |  |  |  |  |  |  |
| ☑ Users may set their own time zone.                     |  |  |  |  |  |  |
| Remind users at login if their time zone is not set.     |  |  |  |  |  |  |
| Time zone for new users                                  |  |  |  |  |  |  |
| ⊙ Default time zone.                                     |  |  |  |  |  |  |
| ⊖ Empty time zone.                                       |  |  |  |  |  |  |
| OUsers may set their own time zone at registration.      |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

# Users can cancel own

### accounts

| and will only be used if you wis | h to receive a new password or wish to receive certain news or notifications by e-mail. |
|----------------------------------|---|
| Password:                        | Confirm password:   |
| Password strength:               |   |

| Blocked                 | Are you sure you want to cancel your account?  |
|-------------------------|--|
| Active                  | When cancelling your account:  |
|                         | <ul> <li>Disable the account and keep all content.</li> </ul>  |
| Locale setti            | O Disable the account and unpublish all content.   |
| our time zone s         | O Delete the account and make all content belong to the Anonymous user.                              |
| me zone:<br>America New | O Delete the account and all content.  |
| lect the desired        | Select the method to cancel the account above. This action cannot be undone<br>Cancel account Cancel |

### Mix and Match Public and Private files

Home » Administer » Configuration and modules » Media

File system

### Public file system path

### sites/default/files

A local file system path where public files will be stored. This directory must exist and be writable by Drupal. This directory must be relative to the Drupal installation directory and be accessible over the web.

### Private file system path

/Users/webchick/private\_files

A local file system path where private files will be stored. This directory must exist and be writable by Drupal. This directory should not be accessible over the web.

### Internationalization

- New translation interface
- Search module supports language-aware searches
- Fields are translatable
- Support for message contexts (msgctxt) to make translation of short words like "View" much easier.



# Native image handling

### Image style name \*

### thumbnail

The name is used in URLs for generated images. Use only lowercase alphanumeric characters, underscores (), and hyphens (-).

| EFFECT                      | OPERATIONS |        |
|-----------------------------|------------|--------|
| + Scale and crop 85x85      | edit       | delete |
| + Desaturate                |            | delete |
| Select a new effect <a></a> |            |        |

Preview







### Security

- Prompted for e-mail notifications of security updates upon installation.
- PHP filter module now global "kill-switch" for "enter some PHP here" functionality.
- Cron.php requires key in URL to be run.
- New permission for running site updates.
- Limit login attempts, better flood control.
- Stronger, pluggable password hashing algorithm.

### #smallcore

- Modules removed:
  - Blog API
  - Ping
  - Throttle
  - Upload
- Block module made optional
- Access rules removed

- Minimum # of words in Body removed
- User-selectable themes removed
- Related terms, and taxonomy +, URL arguments removed
- Comment display options removed

# #largecore

- Contributed modules moved to core:
  - Admin Role
  - Feed API (some of it, anyway...)
  - FileField
  - Image
  - ImageAPI

- ImageCache
- ImageField (soon...?)
- Install Profile API (some of it, anyway...)
- Poormanscron
- Token

# #largecore

- Contributed modules moved to core:
  - Admin Role
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  - FileField
  - Image
  - ImageAPI

- ImageCache
- ImageField (soon...?)
- Install Profile API (some of it, anyway...)
- Poormanscron
- Token
- Oh, yeah. And...





# Field Types in Core

- Boolean
- Decimal/Float/Integer
- File
- List
- Text/Textarea
- Taxonomy term
- Node Body

• Nodes (duh)

- Nodes (duh)
- Users (bye, Content Profile)

- Nodes (duh)
- Users (bye, Content Profile)
- Comments (bye, Node Comment and Comment Upload)

- Nodes (duh)
- Users (bye, Content Profile)
- Comments (bye, Node Comment and Comment Upload)
- Taxonomy terms (bye, Taxonomy Image)

- Nodes (duh)
- Users (bye, Content Profile)
- Comments (bye, Node Comment and Comment Upload)
- Taxonomy terms (bye, Taxonomy Image)
- ...and that's just in core! :)

# Changes for designers and front-end developers



# All butt-ugly, tablebased themes removed from core!

| SCREENSHOT   | NAME  | VERSION | ENABLED | DEFAULT | OPERATIONS |
|--|---|---------|---------|---------|------------|
| Garland – Fluid Width  | Garland<br>Tableless, recolorable, multi-column, fluid width theme.   | 7.0-dev |         | •       | configure  |
| Minnelli – Fixed Width   | Minnelli<br>Tableless, recolorable, multi-column, fixed width theme.  | 7.0-dev |         | 0       |            |
| Material State       Description         Description       Description <td>Seven<br/>/ simple one-column, tableless, fluid width<br/>Idministration theme.</td> <td>7.0-dev</td> <td></td> <td>0</td> <td>configure</td> | Seven<br>/ simple one-column, tableless, fluid width<br>Idministration theme.   | 7.0-dev |         | 0       | configure  |
| Stark >  | Stark<br>This theme demonstrates Drupal's default HTML markup<br>and CSS styles. To learn how to build your own theme<br>and override Drupal's default code, you should start | 7.0-dev |         | 0       |            |

Tuesday, September 15, 2009

# Many page elements are now blocks/regions

| Block                  | Region                 | Operations       |
|------------------------|------------------------|------------------|
| Header                 |                        |                  |
| 🕂 User login           | Header                 | configure        |
| Left sidebar           |                        |                  |
| + Navigation           | Left sidebar           | configure        |
| Right sidebar          |                        |                  |
| No blocks in this regi | חכ                     |                  |
| Highlighted conten     | t                      |                  |
| Hission stateme        | nt Highlighted content | configure delete |
| Help                   |                        |                  |
| + System help          | Help                   | configure        |
| Content                |                        |                  |
| 🕂 Main page conte      | nt Content             | configure        |
| Footer                 |                        |                  |
| + Footer message       | Footer                 | configure delete |
| + Powered by Dru       | pal Footer             | configure        |

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 100 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML+RDFa 1.0//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml 101 "http://www.w3.org/MarkUp/DTD/xhtml-rdfa-1.dtd">
<html xmlns="http://www.w3.org/1999/xhtm 102 <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="<?
>language ?>" lang="<?php print $languag • >language; ?>" dir="<?php print $language->dir; ?>"
$language->dir ?>">
                                               <?php print $rdf_namespaces; ?>>
                                          103
                                          104
<head>
                                         105 <head profile="<?php print $grddl_profile; ?>">
 <?php print $head; ?>
                                          106 <title><?php print $head_title; ?></title>
 <title><?php print $head_title; ?></ti 107 <?php print $head; ?>
                                          108 <?php print $styles; ?>
 <?php print $styles; ?>
                                               <?php print $scripts; ?>
 <?php print $scripts; ?>
                                         109
 <script type="text/javascript"><?php / 110 </head>
                                         111 <body class="<?php print $classes; ?>">
Content in IE */ ?> </script>
                                         112
</head>
                                               <?php print $page_top; ?>
<body class="<?php print $body_classes;</pre>
                                         113
                                         114
 <div id="page">
                                         115
                                               <div id="page-wrapper"><div id="page">
    <div id="header">
                                         116
      <div id="logo-title">
                                         117
                                                  <div id="header"><div class="section clearfix">
                                         118
        <?php if (!empty($logo)): ?>
          <a href="<?php print $front_pa 119
                                                   <?php if ($logo): ?>
                                                      <a href="<?php print $front_page; ?>" title="<?</pre>
                                         120
t('Home'); ?>" rel="home" id="logo">

• >" rel="home" id="logo">

            <img src="<?php print $logo;</pre>
>" />
                                          121
                                                        <img src="<?php print $logo; ?>" alt="<?php p</pre>
                                          122
```

Tuesday, September 15, 2009

```
<body class="<?php print $body_classes; ?>">
                                                84 <body class="<?php print $body_classes; ?>">
  <div id="page">
                                                85
    <div id="header">
                                                     <div id="page-wrapper"><div id="page">
                                                86
      <div id="logo-title">
                                                87
                                                88
                                                       <div id="header"><div class="section clearfix">
        <?php if (!empty($logo)): ?>
                                                89
          <a href="<?php print $front_page;</pre>
                                                          <?php if ($logo): ?>
                                                90
id="logo">
                                                91
                                                            <a href="<?php print $front_page; ?>" title="<?php</pre>
            <img src="<?php print $logo; ?>'

 id="logo">

          </a>
                                                92
                                                              <img src="<?php print $logo; ?>" alt="<?php print</pre>
        <?php endif; ?>
                                                93
                                                            </a>
                                                         <?php endif; ?>
                                                94
        <div id="name-and-slogan">
                                                95
          <?php if (!empty($site_name)): ?>
                                                96
                                                          <?php if ($site_name || $site_slogan): ?>
            <h1 id="site-name">
                                                97
                                                            <div id="name-and-slogan">
              <a href="<?php print $front_pc</pre>
                                                98
                                                              <?php if ($site_name): ?>
rel="home"><span><?php print $site_name; ?><</pre>
                                                99
                                                                <?php if ($title): ?>
            </h1>
                                               100
                                                                  <div id="site-name"><strona>
          <?php endif; ?>
                                                                    <a href="<?php print $front_page; ?>" title
                                               101
                                                  • rel="home"><span><?php print $site_name; ?></span></a>
          <?php if (!empty($site_slogan)):</pre>
                                               102
                                                                  </strong></div>
            <div id="site-slogan"><?php prir</pre>
                                               103
                                                                <?php else: /* Use h1 when the content title is
          <?php endif; ?>
                                                                  <h1 id="site-name">
                                               104
        </div> <!-- /name-and-slogan -->
                                               105
                                                                    <a href="<?php print $front_page; ?>" title
      </div> <!-- /logo-title -->

    rel="home"><span><?php print $site_name; ?></span></a>

                                               106
                                                                  </h1>
      <?php if (lempty($search box)): ?>
                                               107
```

```
<body class="<?php print $body_classes; ?>">
                                               84 <body class="<?php print $body_classes; ?>">
 <div id="page">
                                               85
    <div id="header">
                                                     <div id="page-wrapper"><div id="page">
                                               86
      <div id="logo-title">
                                               87
                                               88
                                                       <div id="header"><div class="section clearfix">
        <?php if (!empty($logo)): ?>
                                               89
          <a href="<?php print $front_page;</pre>
                                                         <?php if ($logo): ?>
                                               90
id="logo">
                                               91
                                                           <a href="<?php print $front_page; ?>" title="<?php</pre>
            <img src="<?php print $logo; ?>'
                                                · id="logo">
          </a>
                                                             <img src="<?php print $logo; ?>" alt="<?php print:
                                               92
        <?php endif; ?>
                                               93
                                                          </a>
                                               94
                                                         <?php endif: ?>
        <div id="name-and-slogan">
                                               95
          <?php if (!empty($site_name)): ?>
                                               96
                                                         <?php if ($site_name || $site_slogan): ?>
            <h1 id="site-name">
                                                           <div id="name-and-slogan">
                                               97
              <a href="<?php print $front_pc
                                               98
                                                             <?php if ($site_name): ?>
rel="home"><span><?php print $site_name; ?><
                                                               <?php if ($title): ?>
                                               99
            </h1>
                                              100
                                                                 <div id="site-name"><strong>
          <?php endif; ?>
                                                                   <a href="<?php print $front_page; ?>" title
                                              101
                                                 • rel="home"><span><?php print $site_name; ?></span></a>
          <?php if (!empty($site_slogan)):
                                              102
                                                                 </strong></div>
            <div id="site-slogan"><?php prir</pre>
                                              103
                                                               <?php else: /* Use h1 when the content title is
          <?php endif; ?>
                                                                 <h1 id="site-name">
                                              104
        </div> <!-- /name-and-slogan -->
                                                                   <a href="<?php print $front_page; ?>" title
                                              105
      </div> <!-- /logo-title -->
                                                 • rel="home"><span><?php print $site_name; ?></span></a>
                                              106
                                                                 </h1>
      <?php if (lempty($search box)): ?>
                                              107
```

```
<body class="<?php print $body_classes; ?>">
                                             84 <body class="<?php print $body_classes; ?>">
 <div id="page">
                                             85
   <div id="header">
                                                  <div id="page-wrapper"><div id="page">
                                             86
      <div id="logo-title">
                                             87
              Re-engineered XHTML structure to facilitate
           CSS-only design. 90
                                                      <?php if ($logo): ?>
id="logo">
                                                        <a href="<?php print $front_page; ?>" title="<?php</pre>

 id="logo">

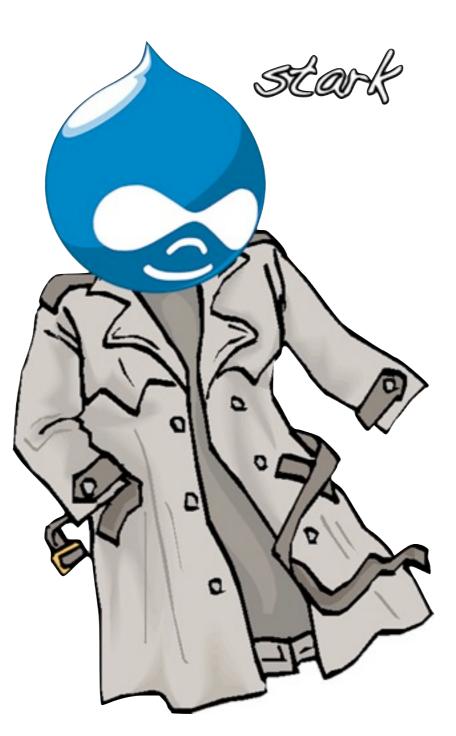
         </a>
                                                          <img src="<?php print $logo; ?>" alt="<?php print:
                                             92
       <?php endif: ?>
                                             93
                                                        </a>
                                                      <?php endif; ?>
                                             94
       <div id="name-and-slogan">
                                             95
         <?php if (!empty($site_name)): ?>
                                             96
                                                      <?php if ($site_name || $site_slogan): ?>
           <h1 id="site-name">
                                             97
                                                        <div id="name-and-slogan">
             <a href="<?php print $front_pc
                                             98
                                                          <?php if ($site_name): ?>
rel="home"><span><?php print $site_name; ?><
                                                            <?php if ($title): ?>
                                             99
           </h1>
                                            100
                                                              <div id="site-name"><strong>
         <?php endif; ?>
                                                                <a href="<?php print $front_page; ?>" title
                                            101
                                              • rel="home"><span><?php print $site_name; ?></span></a>
         <?php if (!empty($site_slogan)):
                                            102
                                                              </strong></div>
           <div id="site-slogan"><?php prir</pre>
                                            103
                                                            <?php else: /* Use h1 when the content title is
         <?php endif; ?>
                                                              <h1 id="site-name">
                                            104
       </div> <!-- /name-and-slogan -->
                                            105
                                                                <a href="<?php print $front_page; ?>" title
      </div> <!-- /logo-title -->
                                              • rel="home"><span><?php print $site_name; ?></span></a>
                                            106
                                                              </h1>
      <?php if (lempty($search box)): ?:
                                            107
```

| <body class="&lt;?php print \$body_classes; ?&gt;"></body>  | 84   | <body class="&lt;?php print \$body_classes; ?&gt;"></body>  |
|---|------|---|
| <div id="page"></div>   | 85   |   |
| <div id="header"></div>   | 86   | <pre><div id="page-wrapper"><div id="page"></div></div></pre>   |
| <div id="logo-title"></div>   | 87   |   |
|   |      | TML structure to facilitate   |
| id="logo"> CSS-only design<br><img \$logo;="" <?php="" ?="" print="" src="&lt;?php print \$front_page;&lt;br&gt;&lt;img src="/> '   | 90   | php if (\$logo): ?  |
| <pre>cima src="<?php print \$loop:</pre></pre>  | • 91 | <pre><a href="&lt;?php print \$front_page; ?&gt;" loco";<="" pre="" title="&lt;?php ; id "></a></pre> |
|   |      |   |
| Condard coman   | 102  | class/ID names (.section,   |
| • Standard, Seman   | 94   | Classing names (.section,   |
| <pre><div id-frame-and-sloan"=""></div></pre>   | 95   | sipilp clicity is   |
| #navigation, etc.   | 96   | <pre><?php if (\$site_name    \$site_slogan): ?></pre>  |
| <h1 id="site-name"></h1>  | 97   | <div id="name-and-slogan"></div>  |
| <a home"="" href="&lt;?php print \$front_pc&lt;/th&gt;&lt;th&gt;98&lt;/th&gt;&lt;th&gt;&lt;pre&gt;&lt;?php if (\$site_name): ?&gt;&lt;/pre&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;pre&gt;rel="><span><?php print \$site_name; ?>&lt;</span></a> | 99   | php if (\$title): ?   |
|   | 100  | <pre><div id="site-name"><strong></strong></div></pre>  |
| php endif; ?  | 101  | <pre><a href="&lt;?php print \$front_page; ?&gt;" pre="" title<=""></a></pre>                         |
|   |      | <pre>rel="home"&gt;<span><?php print \$site_name; ?></span></pre>                                     |
| <pre><?php if (!empty(\$site_slogan)): ?</pre></pre>  | 102  |   |
| <div id="site-slogan"><?php prir</th><th>103</th><th><pre><?php else: /* Use h1 when the content title is</pre></pre></th></div>  | 103  | <pre><?php else: /* Use h1 when the content title is</pre></pre>                                      |
| php endif; ?  | 104  | <h1 id="site-name"></h1>  |
| /name-and-slogan  | 105  | <pre><a href="&lt;?php print \$front_page; ?&gt;" pre="" title<=""></a></pre>                         |
| /logo-title   |      | <pre>rel="home"&gt;<span><?php print \$site_name; ?></span></pre>                                     |
|   | 106  |   |
| <pre><?php if (lemptv(\$search box)): ?></pre>  | 107  | -2nhn andif: 2  |

| <body class="&lt;?php print \$body_classes; ?&gt;"></body>   | 84       | <body class="&lt;?php print \$body_classes; ?&gt;"></body>   |  |            |
|--|----------|--|--|------------|
| <div id="page"></div>  | 85       |  |  |            |
| <div id="header"></div>  | 86       | <pre><div id="page-wrapper"><div id="page"></div></div></pre>  |  |            |
| <div id="logo-title"></div>  | 87       |  |  |            |
|  |          | TML structure to facilitate  |  |            |
| id="logo"> CSS-only design<br><img \$logo;="" <?php="" ?="" print="" src="&lt;?php print \$front_page;&lt;br&gt;&lt;img src="/>  | 90<br>91 | <pre><?php if (\$logo): ?>     <a \$logo;="" <?php="" ?="" href="&lt;?php print \$front_page; ?&gt;" print="" title="&lt;?php ;&lt;/pre&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;img src=">'</a></pre> |  | id="logo"> |
|  |          |  |  |            |
| <ul> <li>Standard, seman</li> </ul>  | tic      | class/ID names (.section,  |  |            |
| #navigation, etc.  | 95       | John 15 (taite name 11 taite alegen), 2  |  |            |
| <h1 id="site-name"></h1>   | 90       | <pre><?php if (\$site_name    \$site_slogan): ?>    <div id="name-and-slogan"></div></pre>   |  |            |
|  | 97       | <pre></pre>  |  |            |
| rel="home">Open Print \$front_pc   | ste      | ncy throughout.  |  |            |
|  | 100      | <pre><div id="site-name"><strong></strong></div></pre>   |  |            |
| php endif; ?   | 101      | <pre><a href="&lt;?php print \$front_page; ?&gt;" pre="" title<=""></a></pre>  |  |            |
|  |          | rel="home"> <span><?php print \$site_name; ?></span>   |  |            |
| <pre><?php if (!empty(\$site_slogan)): ?</pre></pre>   | 102      |  |  |            |
| <div id="site-slogan"><?php prir</th><th>103</th><th><pre><?php else: /* Use h1 when the content title is</pre></pre></th></div> | 103      | <pre><?php else: /* Use h1 when the content title is</pre></pre>   |  |            |
| php endif; ?   | 104      | <h1 id="site-name"></h1>   |  |            |
| /name-and-slogan   | 105      | <pre><a href="&lt;?php print \$front_page; ?&gt;" pre="" title<=""></a></pre>  |  |            |
| /logo-title  |          | <pre>rel="home"&gt;<span><?php print \$site_name; ?></span></pre>  |  |            |
| Julia 16 Chample (Chample 1997) - 2  | 106      |  |  |            |
| Tuesday September 15, 2009   | 107      | 22nhn andif: 22  |  |            |

| <pre><body class="&lt;?php print \$body_classes; ?&gt; &lt;div id=" page"=""></body></pre> |                                | body class=" php print \$body_classes; ? ">  |
|--|--------------------------------|--|
| <div id="header"></div>  | 85<br>86                       | <div id="page-wrapper"><div id="page"></div></div>   |
| <div id="logo-title"></div>  | 87                             |  |
| Re-engineered  | XH                             | TML structure to facilitate  |
| id="logo"> CSS-only desig  | ; 90<br><b>n.</b> 91<br>>' · i | <pre><?php if (\$logo): ?>      <a href="&lt;?php print \$front_page; ?&gt;" logo"="" title="&lt;?php ] d="></a></pre> |
| Standard, sema   |                                | class/ID names (.section,  |
| <pre>#navigation, etc<br/></pre>   | 95<br>96<br>97                 | <pre><?php if (\$site_name    \$site_slogan): ?>    <div id="name-and-slogan"></div></pre>                             |
| rel="home">@par mproved cons   | ister                          | ncy throughout.  |
| php endif; ?   | 100                            | <pre><div id="site-name"><strong> </strong></div></pre>  |
| Enables designed   | erst                           | o create beautiful, CSS-   |
| only themes w  | ithou                          | It touching PHP h1 when the content title is   |
| /name-and-slogan   | 105                            | <pre><a href="&lt;?php print \$front_page; ?&gt;" pre="" title<=""></a></pre>  |
| /logo-title  |                                | el="home"> <span><?php print \$site_name; ?></span>  |
| php if (lemptv(\$search box)): ?   | 106                            |  |

### And to show it off...



# Stark: "Naked" Drupal



#### **localhost**

Add a main menu link

#### a

#### Welcome to your new Drupal website!

Please follow these steps to set up and start using your website:

- · My account
- Create content
- Administer
- Log out

#### 1. Configure your website

Once logged in, visit the <u>administration section</u>, where you can <u>customize and configure</u> all aspects of your website.

#### 2. Enable additional functionality

Next, visit the <u>module list</u> and enable features which suit your specific needs. You can find additional modules in the <u>Drupal modules download section</u>.

#### 3. Customize your website design

To change the "look and feel" of your website, visit the themes section. You may choose from one of

# Granular theming of content

Orupal 6
<div class="content clear-block">

<div class="content clear-block"> <?php print \$content ?> </div>

- \$content is a big string of XHTML.
- Fine-grained control over where \*one\* part of content goes means being responsible for \*all\* parts of content. Security nightmare.
- Comments are smooshed in here, too.

#### Drupal 7

```
<div class="content clearfix">
    <?php
    // We hide the comments and links now so that we can render them later.
    hide($content['comments']);
    hide($content['links']);
    print render($content);
    ?>
  </div>
```

```
<?php if (!empty($content['links'])): ?>
    <div class="links"><?php print render($content['links']); ?></div>
<?php endif; ?>
```

. . .

```
<?php print render($content['comments']); ?>
```

- \$content is now an array of page properties that keeps track of what's been printed so far.
- Selectively hide parts until you're ready to print them where YOU want.

### Other awesomeness

- You can now preprocess theme functions as well as template files
- Human-readable block IDs (block-useronline vs. block-user-3)
- Template-specific classes now compressed into one \$classes string, and also available as \$classes\_array for raw values
- RDFa support

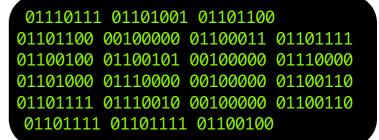
# JavaScript improvements

- jQuery I.3
- jQuery Forms 2.2
- jQuery UI 1.7
- drupal\_add\_library() for adding related JS/ CSS files
- New CTools AJAX framework in core
- Can use jQuery alongside other JS frameworks (Prototype, etc.)

# drupal\_add\_js/css() improvements

- Now pass in \$options rather than 500 function arguments
- Uses actual weighting rather than awkward 'core' vs. 'module' vs. 'theme' types.
- Add external files to the page.
- Alter CSS/JS array

# Changes for coders



# Warning: Things are about to get...geeky.



# TESTING

I FIND YOUR LACK OF TESTS DISTURBING.

#### Testing

Tests

nome > Administer > Site building

My account

a

- Create content
- ▽ Administer
  - Content management
  - ▽ Site building
    - Blocks
    - Content types
    - Menus
    - Modules
    - Testing
    - Themes
  - Site configuration
  - User management
  - Reports
  - Help
- Log out

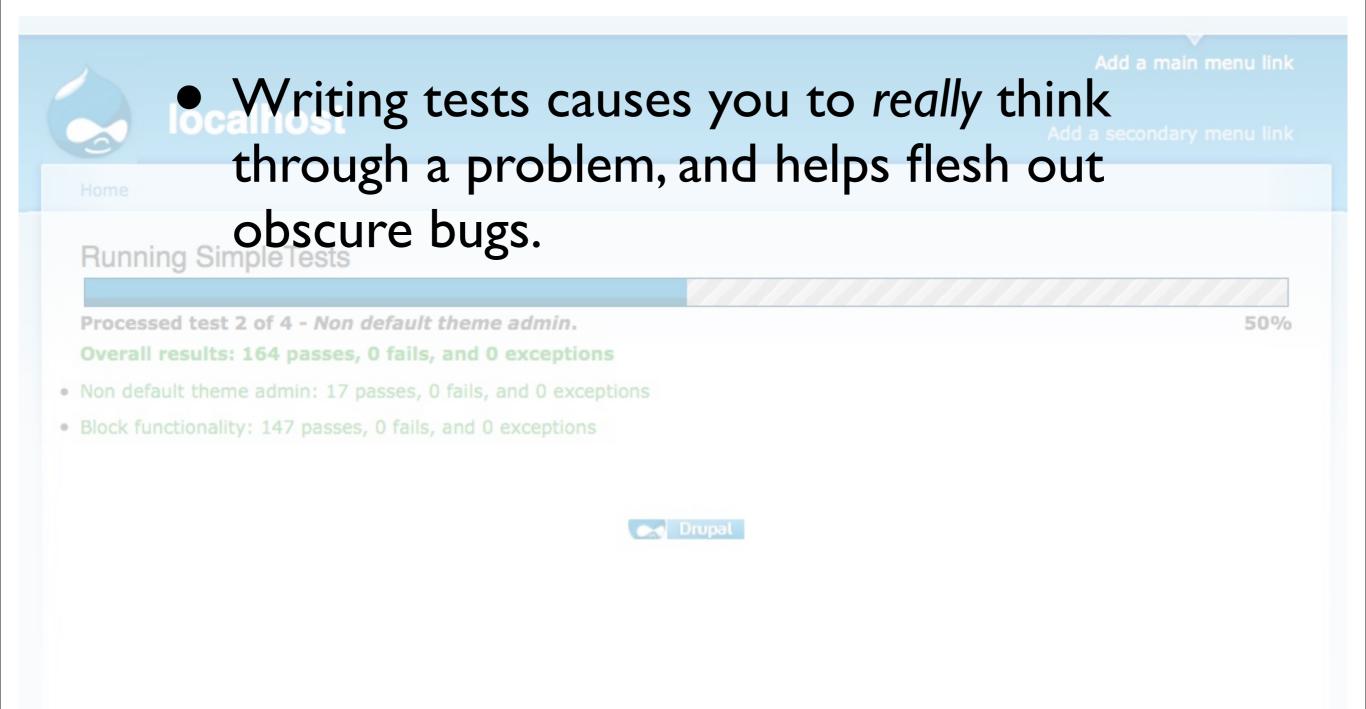
| Select the tests | you would | like to run, | and click | Run tests. |
|------------------|-----------|--------------|-----------|------------|
|------------------|-----------|--------------|-----------|------------|

|   | Test                    | Description   |
|---|-------------------------|---|
|   | Aggregator              |   |
| 1 | - Block                 |   |
|   | Block functionality     | Add, edit and delete custom block. Configure and move a module-defined block. |
|   | Non default theme admin | Check the administer page for non default theme.                              |
|   | Blog                    |   |
|   | Blog API                |   |
|   | Book                    |   |
|   | Bootstrap               |   |
|   | Cache                   |   |
|   | Comment                 |   |

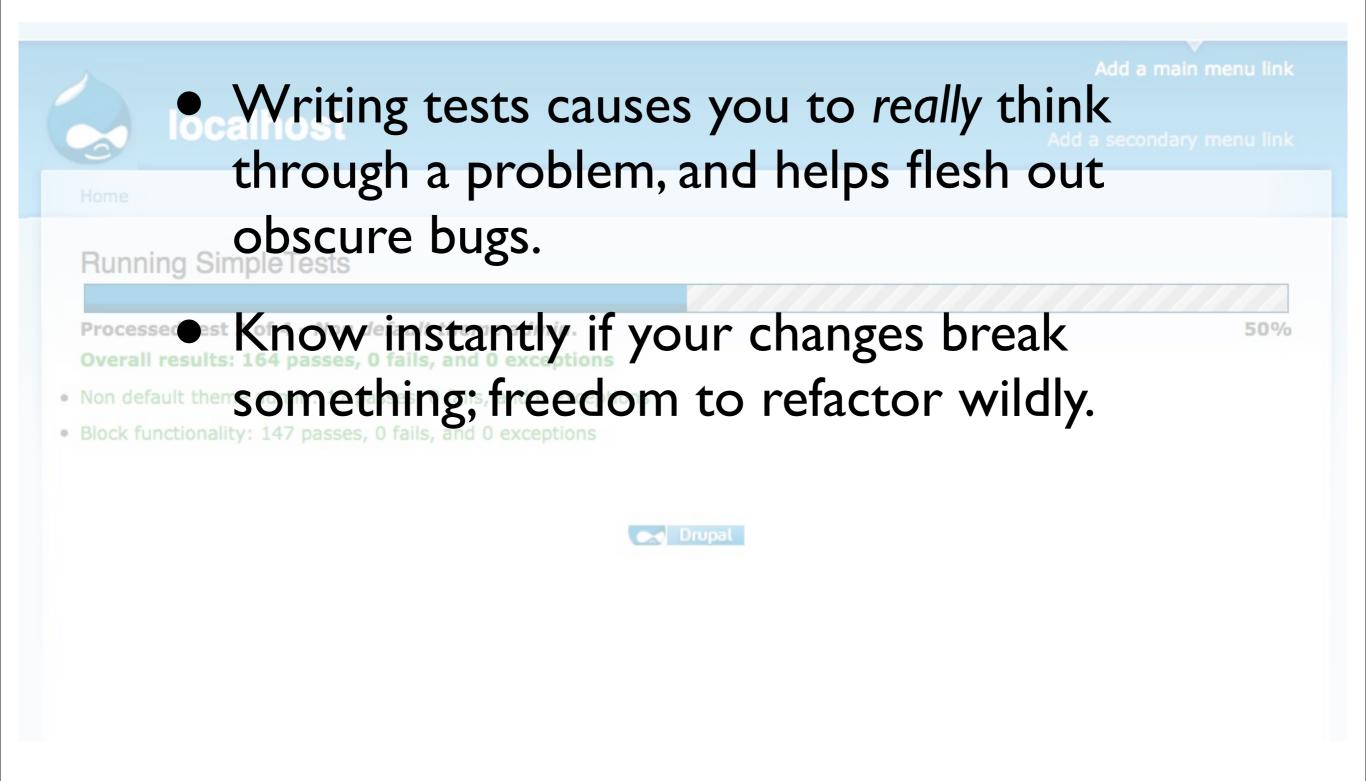
|  | Add a main menu link      |
|--|---------------------------|
| localhost  | Add a secondary menu link |
| Home   |                           |
| Running SimpleTests  |                           |
|  |                           |
| Processed test 2 of 4 - Non default theme admin.<br>Overall results: 164 passes, 0 fails, and 0 exceptions | 50%                       |
| <ul> <li>Non default theme admin: 17 passes, 0 fails, and 0 exceptions</li> </ul>                          |                           |
| <ul> <li>Block functionality: 147 passes, 0 fails, and 0 exceptions</li> </ul>                             |                           |
|  |                           |
| Drupal   |                           |
|  |                           |
|  |                           |
|  |                           |
|  |                           |
|  |                           |

|  | Add a main menu link      |
|--|---------------------------|
| localhost  | Add a secondary menu link |
| Home   |                           |
| Running SimpleTests  |                           |
|  |                           |
| Processed test 2 of 4 - Non default theme admin.<br>Overall results: 164 passes, 0 fails, and 0 exceptions | 50%                       |
| <ul> <li>Non default theme admin: 17 passes, 0 fails, and 0 exceptions</li> </ul>                          |                           |
| <ul> <li>Block functionality: 147 passes, 0 fails, and 0 exceptions</li> </ul>                             |                           |
|  |                           |
| Drupal   |                           |
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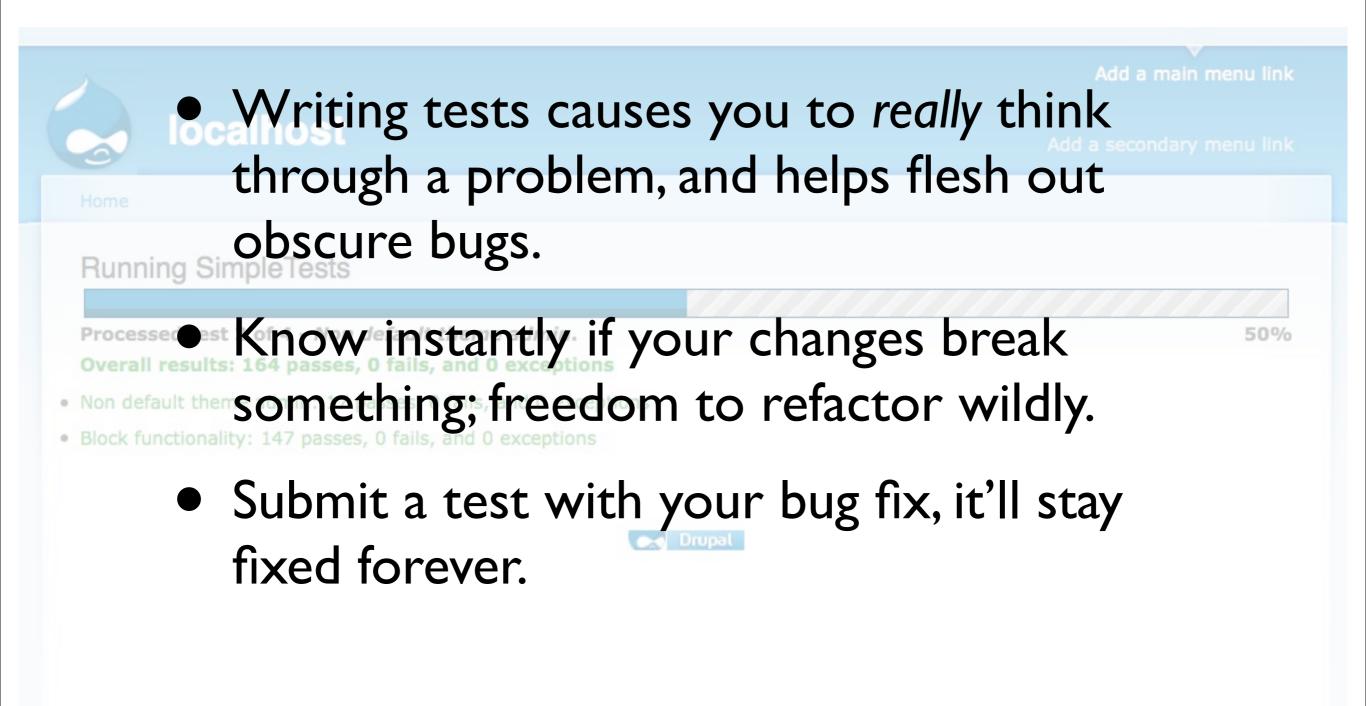
|   | Add a main menu link |
|---|----------------------|
| localhost   |                      |
| Home  |                      |
| Running SimpleTests   |                      |
|   |                      |
| Processed test 2 of 4 - Non default theme admin.                                  | 50%                  |
| Overall results: 164 passes, 0 fails, and 0 exceptions                            |                      |
| <ul> <li>Non default theme admin: 17 passes, 0 fails, and 0 exceptions</li> </ul> |                      |
| <ul> <li>Block functionality: 147 passes, 0 fails, and 0 exceptions</li> </ul>    |                      |
|   |                      |
|   |                      |
| Drupal  |                      |
|   |                      |
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|   |                      |
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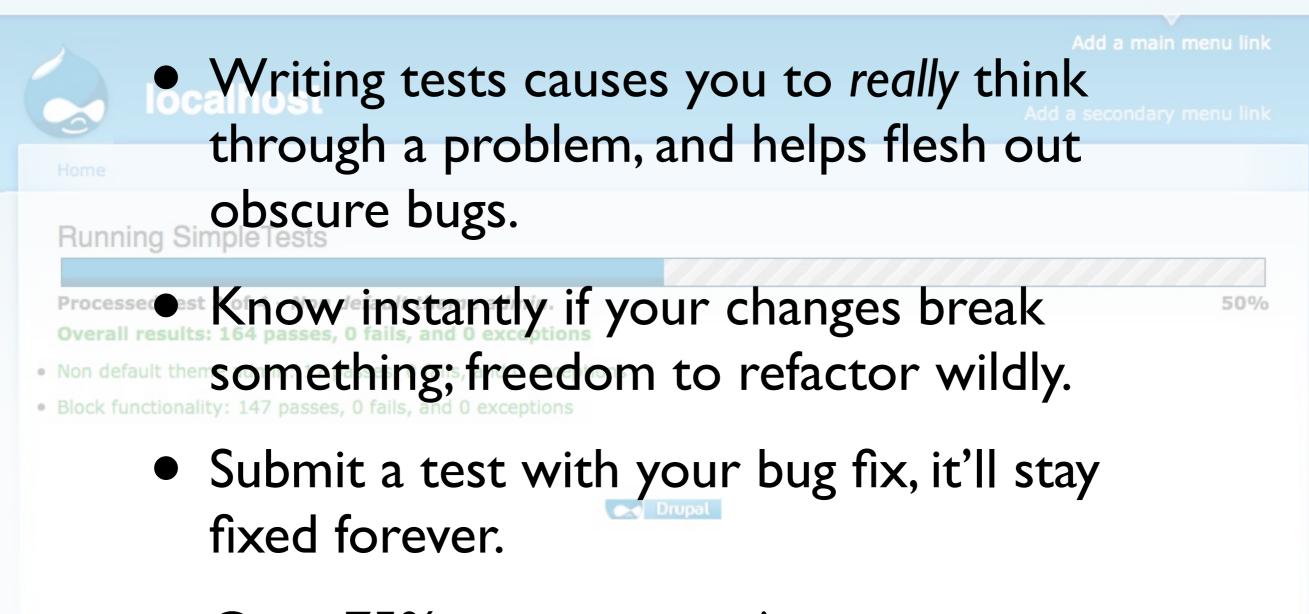
### SimpleTest



### SimpleTest



### SimpleTest



• Over 75% test coverage!

| testing.dr   | Main Status Stats Log Issues Development Contact   |
|--|--|
|  | Home   |
| 4677 patches tested!   | Stats<br>Testing result breakdown  |
| Query:     Search     ATS Development     \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | Passed tests.<br>Failed tests.<br>Failed to install HEAD.<br>Drupal is a registered trademark of Dries Buytaert.<br>18995 tests run! |

| #1<br>webchick - December | 23, 2008 - 20:11   |   |      |
|---------------------------|--------------------|---|------|
| Here, try this patch.     |                    |   |      |
| Attachment                | Size               |   |      |
| awesome_patch.            | patch 13.46 KB     |   |      |
| Testbed results           |                    |   |      |
| awesome_patch.pa          | tch failed Failed: | passes, 1 fail, 0 exceptions Detailed results |      |
|                           |                    | delete · edit                                 | repl |

#2 System Message - January 8, 2009 - 08:15 Status: patch (code needs review) » patch (code needs work)

The last submitted patch failed testing.

delete · edit · reply

#3 webchick - January 8, 2009 - 16:23 Status: patch (code needs work) » patch (code needs review) Oops! Right you are, testing bot. Attachment Size more\_awesomer\_patch.patch 13.46 KB Testbed results more\_awesomer\_patch.patch passed Passed: 10270 passes, 0 fails, 0 exceptions Detailed results

| #1<br>webchick - December | 23, 2008 - 20:11   |   |      |
|---------------------------|--------------------|---|------|
| Here, try this patch.     |                    |   |      |
| Attachment                | Size               |   |      |
| awesome_patch.            | patch 13.46 KB     |   |      |
| Testbed results           |                    |   |      |
| awesome_patch.pa          | tch failed Failed: | passes, 1 fail, 0 exceptions Detailed results |      |
|                           |                    | delete · edit                                 | repl |

#2 System Message - January 8, 2009 - 08:15 Status: patch (code needs review) » patch (code needs work)

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delete · edit · reply

#3 webchick - January 8, 2009 - 16:23 Status: patch (code needs work) » patch (code needs review) Oops! Right you are, testing bot. Attachment Size more\_awesomer\_patch.patch 13.46 KB Testbed results more\_awesomer\_patch.patch passed Passed: 10270 passes, 0 fails, 0 exceptions Detailed results

| #1<br>webchick - December |                    |   |
|---------------------------|--------------------|---|
| Here, try this patch.     |                    |   |
| Attachment                | Size               |   |
| awesome_patch.            | patch 13.46 KB     |   |
| Testbed results           |                    |   |
| awesome_patch.pa          | tch failed Failed: | , 1 fail, 0 exceptions Detailed results |
|                           |                    | delete · edit · rep                     |

```
#2
System Message - January 8, 2009 - 08:15
Status: patch (code needs review) >> patch (code needs work)
```

The last submitted patch failed testing.

delete · edit · reply





 webchick - January 8, 2009 - 16:23

 Status:
 patch (code needs work) » patch (code needs review)

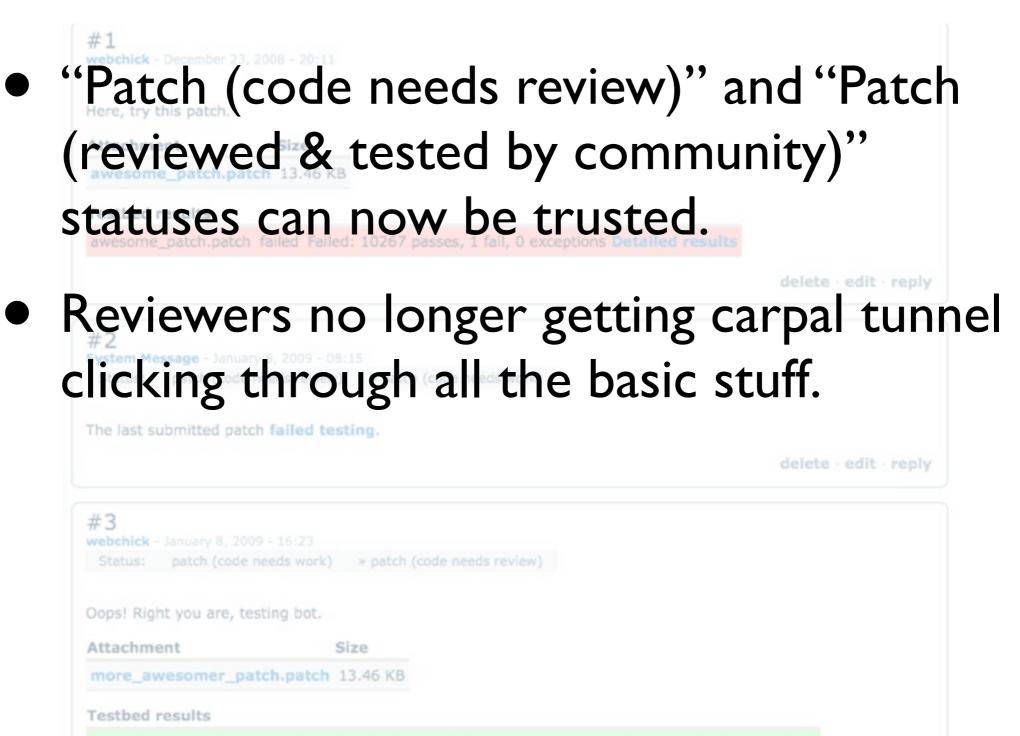
 Oops! Right you are, testing bot.

 Attachment
 Size

 more\_awesomer\_patch.patch
 13.46 KB

 Testbed results

 more\_awesomer\_patch.patch
 passed: 10270 passes, 0 fails, 0 exceptions Detailed results



more\_awesomer\_patch.patch passed Passed: 10270 passes, 0 fails, 0 exceptions Detailed results

"Patch (code needs review)" and "Patch (reviewed & tested by community)" statuses can now be trusted. delete · edit · reply Reviewers no longer getting carpal tunnel clicking through all the basic stuff. Running the full test suite takes a long time; let a computer do it for you!

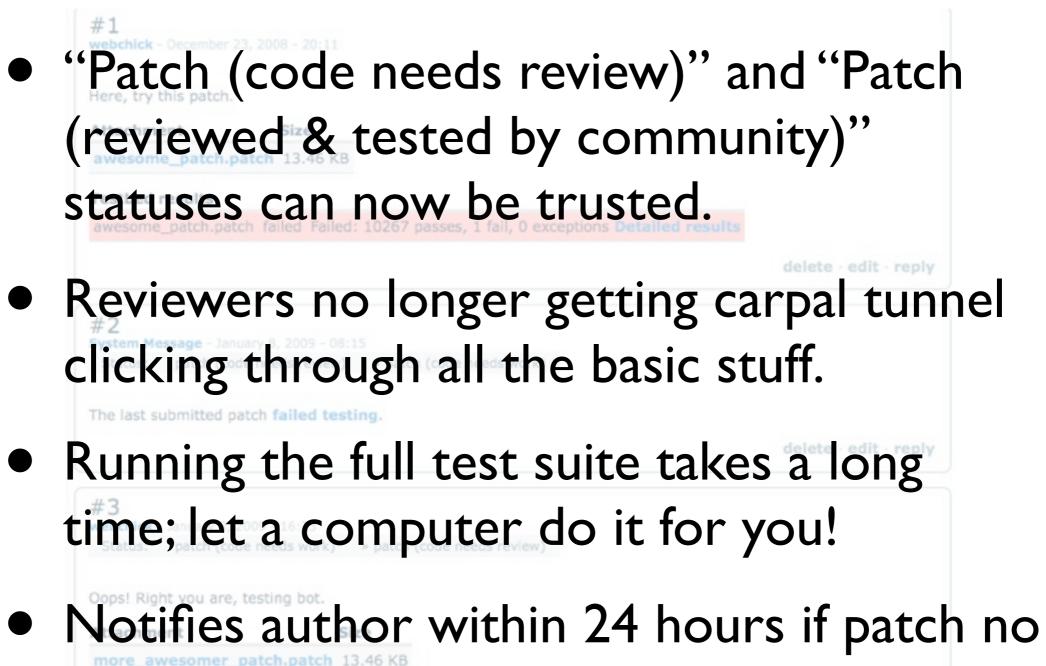
 Oops! Right you are, testing bot.

 Attachment
 Size

 more\_awesomer\_patch.patch
 13.46 KB

 Testbed results

 more\_awesomer\_patch.patch
 passed Passed: 10270 passes, 0 fails, 0 exceptions Detailed results



longer applies or breaks tests.

more\_awesomer\_patch.patch passed Passed: 10270 passes, 0 fails, 0 exceptions Detailed results





Tuesday, September 15, 2009

# The who in the what now?

- Database abstraction layer utilizing PHP's Data Objects (PDO)
- Theoretical support for any database PHP supports; mysql, sqlite, and pgsql drivers in D7.
- Support for master/slave replication, transactions, multi-insert queries, delayed inserts, and other features.
- Summary: Everything that ever sucked about our DB abstraction layer is now fixed.;)

### Static Select Queries

#### Drupal 6:

```
$result = db_query("SELECT nid, title FROM {node} WHERE
type = '%s' AND nid = %d", array($type, $nid));
$node = db fetch object($result);
```

#### Drupal 7:

```
$node = db_query('SELECT nid, title FROM {node} WHERE
type = :type AND nid = :nid', array(':type' => $type,
':nid' => $nid))->fetchObject();
```

### Dynamic Select Queries

#### Drupal 6:

\$result = pager\_query(db\_rewrite\_sql('SELECT n.nid FROM {node} n
WHERE n.promote = 1 AND n.status = 1 ORDER BY n.sticky DESC,
n.created DESC'), variable\_get('default\_nodes\_main', 10));

#### Drupal 7:

```
$select = db_select('node', 'n')
->fields('n', array('nid'))
->condition('promote', 1)
->condition('status', 1)
->orderBy('sticky', 'DESC')
->orderBy('created', 'DESC')
->extend('PagerDefault')
->limit(variable_get('default_nodes_main', 10))
->addTag('node_access');
```

### Other Queries

#### Insert

```
$nid = db_insert('node')
->fields(array('title', 'uid'))
->values(array(
    'title' => 'Example',
    'uid' => 1,
))
->execute();
```

#### Delete

```
$num_deleted = db_delete('node')
   ->condition('nid', 5)
   ->execute();
```

#### Update

```
$num_updated = db_update('node')
->fields(array(
    'uid' => 5,
    'status' => 1,
))
->condition('created', REQUEST_TIME - 3600, '>=')
->execute();
```

# hook\_query\_alter()

#### Drupal 6:

```
function hook_db_rewrite_sql($query, $primary_table, $primary_field, $args) {
    switch ($primary_field) {
        case 'nid':
            $return = array();
            if ($primary_table != 'n') {
                 $return['join'] = "LEFT JOIN {node} n ON $primary_table.nid = n.nid";
            }
            $return['where'] = 'created >' . time() - 3600;
            return $return;
            break;
}
```

#### Drupal 7:

```
function hook_query_alter(&$query) {
    if ($query->hasTag('node_access')) {
        $query->condition('created', time() - 3600, '>');
    }
}
```

# Field API

om/photos/piper

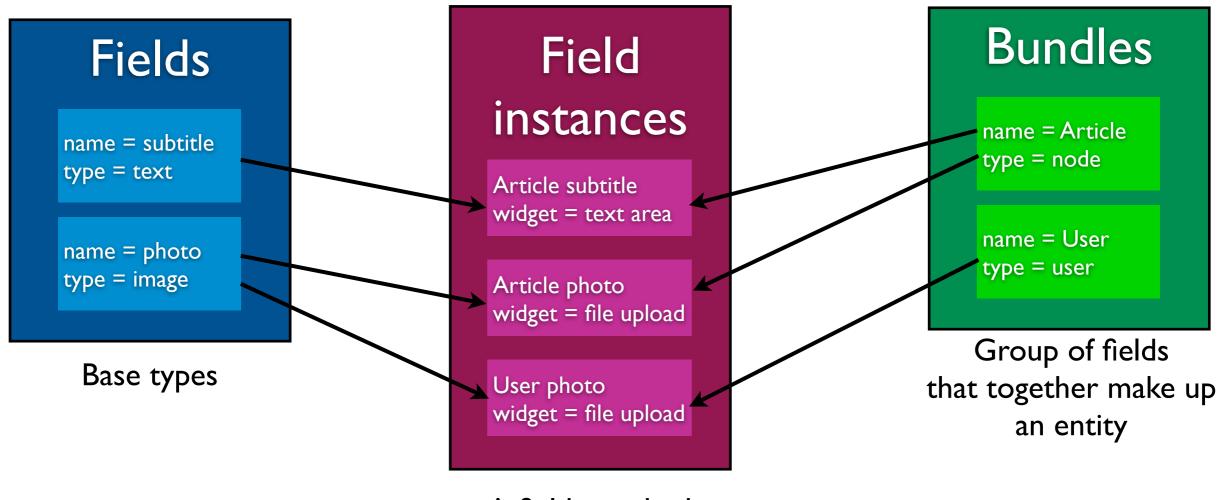
http://www

# About Field API



- No longer node-specific: can attach fields to users, potentially other objects.
- Declare any entity in Drupal as "fieldable"
- Swappable storage back-ends (currently, SQL but potentially web services, etc.)
- Supports translatable content.

### Overview

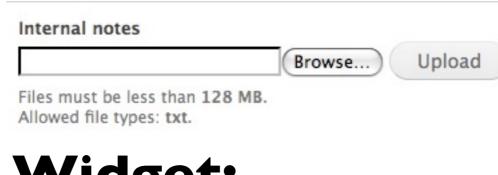


A field attached to a particular bundle

### Overview

| body_value | body_summary | body_format |  |  |
|------------|--------------|-------------|--|--|
|            |              |             |  |  |
| woot       | woot         | 1           |  |  |
| sdfdsf     | SSS          | 1           |  |  |

**Field:** How data is stored in database



#### Widget: How field is presented on add/edit

Internal notes: CHANGELOG.txt

**Formatter:** How field is presented on view

### File System

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Tuesday, September 15, 2009

### File API improvements

- Files are now first-class objects
- hook\_file\_load(), hook\_file\_save(), hook\_file\_move(), etc.
- Files are managed automatically; no need to deal with {files} table yourself
- hook\_file\_url\_alter() for CDN support

### Stream Wrapper Support

- Rather than referencing files by path, you now reference them by URI: schema://file/path/file.ext
- Allows you to change location of files directory without a DB update.
- public://, private://, temp:// supported in core.
- Contrib can also create s3://, flickr://, etc.

### Image API

- Image toolkits now implemented as modules, rather than .inc files that users need to copy over.
- Supports image manipulation effects: scale, crop, resize, rotate...
- Can combine these into "image styles" that can be applied to any image (user pictures, file uploads...)

# 90 140 -160100 Performance 180 110

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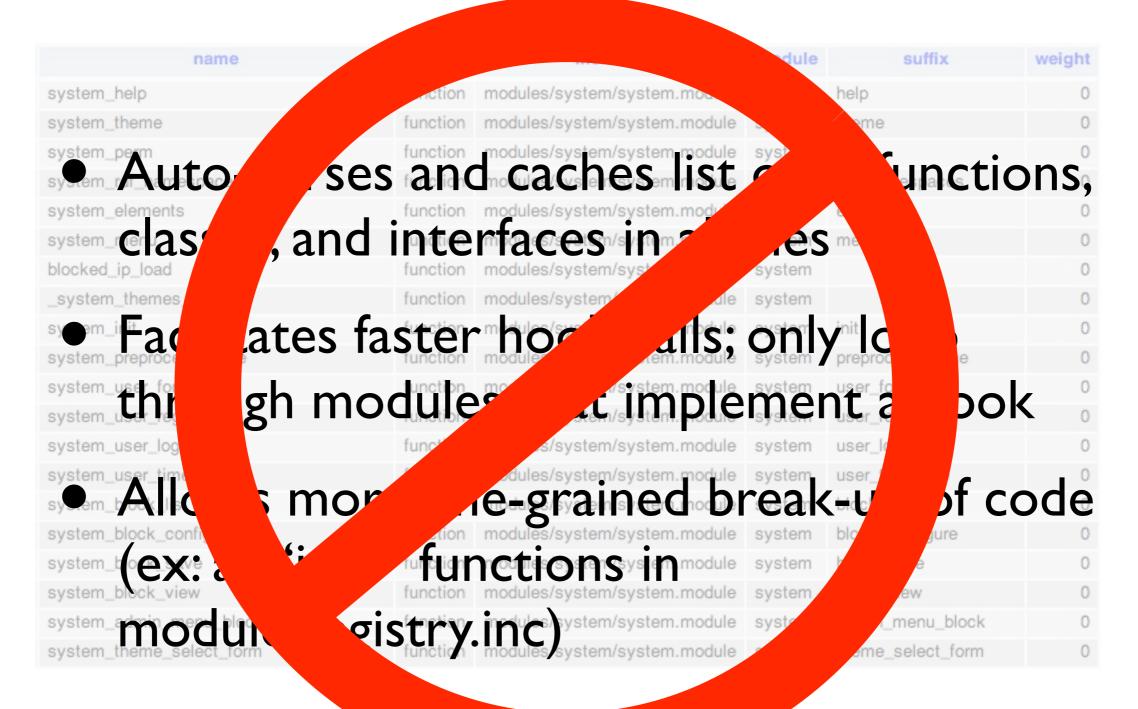
| name                     | type     | filename                     | module | suffix            | weight |
|--------------------------|----------|------------------------------|--------|-------------------|--------|
| system_help              | function | modules/system/system.module | system | help              | 0      |
| system_theme             | function | modules/system/system.module | system | theme             | 0      |
| system_perm              | function | modules/system/system.module | system | perm              | 0      |
| system_rdf_namespaces    | function | modules/system/system.module | system | rdf_namespaces    | 0      |
| system_elements          | function | modules/system/system.module | system | elements          | 0      |
| system_menu              | function | modules/system/system.module | system | menu              | 0      |
| blocked_ip_load          | function | modules/system/system.module | system |                   | 0      |
| _system_themes_access    | function | modules/system/system.module | system |                   | 0      |
| system_init              | function | modules/system/system.module | system | init              | 0      |
| system_preprocess_page   | function | modules/system/system.module | system | preprocess_page   | 0      |
| system_user_form         | function | modules/system/system.module | system | user_form         | 0      |
| system_user_register     | function | modules/system/system.module | system | user_register     | 0      |
| system_user_login        | function | modules/system/system.module | system | user_login        | 0      |
| system_user_timezone     | function | modules/system/system.module | system | user_timezone     | 0      |
| system_block_list        | function | modules/system/system.module | system | block_list        | 0      |
| system_block_configure   | function | modules/system/system.module | system | block_configure   | 0      |
| system_block_save        | function | modules/system/system.module | system | block_save        | 0      |
| system_block_view        | function | modules/system/system.module | system | block_view        | 0      |
| system_admin_menu_block  | function | modules/system/system.module | system | admin_menu_block  | 0      |
| system_theme_select_form | function | modules/system/system.module | system | theme_select_form | 0      |

| name                     | type     | filename                     | module | suffix            | weight |
|--------------------------|----------|------------------------------|--------|-------------------|--------|
| system_help              | function | modules/system/system.module | system | help              | 0      |
| system_theme             | function | modules/system/system.module | system | theme             | 0      |
| system_perm              | function | modules/system/system.module | system | perm              | 0      |
| system_rdf_namespaces    | function | modules/system/system.module | system | rdf_namespaces    | 0      |
| system_elements          | function | modules/system/system.module | system | elements          | 0      |
| system_menu              | function | modules/system/system.module | system | menu              | 0      |
| blocked_ip_load          | function | modules/system/system.module | system |                   | 0      |
| _system_themes_access    | function | modules/system/system.module | system |                   | 0      |
| system_init              | function | modules/system/system.module | system | init              | 0      |
| system_preprocess_page   | function | modules/system/system.module | system | preprocess_page   | 0      |
| system_user_form         | function | modules/system/system.module | system | user_form         | 0      |
| system_user_register     | function | modules/system/system.module | system | user_register     | 0      |
| system_user_login        | function | modules/system/system.module | system | user_login        | 0      |
| system_user_timezone     | function | modules/system/system.module | system | user_timezone     | 0      |
| system_block_list        | function | modules/system/system.module | system | block_list        | 0      |
| system_block_configure   | function | modules/system/system.module | system | block_configure   | 0      |
| system_block_save        | function | modules/system/system.module | system | block_save        | 0      |
| system_block_view        | function | modules/system/system.module | system | block_view        | 0      |
| system_admin_menu_block  | function | modules/system/system.module | system | admin_menu_block  | 0      |
| system_theme_select_form | function | modules/system/system.module | system | theme_select_form | 0      |

| name                                    | type     | filename                     | module  | suffix            | weight |
|---|----------|------------------------------|---------|-------------------|--------|
| system_help                             | function | modules/system/system.module | system  | help              | 0      |
| system_theme                            | function | modules/system/system.module | system  | theme             | 0      |
| system_perm                             | function | modules/system/system module | system  | lerm <b>c</b>     | 0      |
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|   |          |                              |         |                   | 0      |
| system_elements<br>system_renasses, and | Inte     | rtaces in all                | tiles   | menu              | 0      |
| blocked_ip_load                         | function | modules/system/system.module | system  |                   | 0      |
| _system_themes_access                   | function | modules/system/system.module | system  |                   | 0      |
| system_init                             | function | modules/system/system.module | system  | init              | 0      |
| system_preprocess_page                  | function | modules/system/system.module | system  | preprocess_page   | 0      |
| system_user_form                        | function | modules/system/system.module | system  | user_form         | 0      |
| system_user_register                    | function | modules/system/system.module | system  | user_register     | 0      |
| system_user_login                       | function | modules/system/system.module | system  | user_login        | 0      |
| system_user_timezone                    | function | modules/system/system.module | system  | user_timezone     | 0      |
| system_block_list                       | function | modules/system/system.module | system  | block_list        | 0      |
| system_block_configure                  | function | modules/system/system.module | system  | block_configure   | 0      |
| system_block_save                       | function | modules/system/system.module | system  | block_save        | 0      |
| system_block_view                       | function | modules/system/system.module | system  | block_view        | 0      |
| system_admin_menu_block                 | function | modules/system/system.module | system  | admin_menu_block  | 0      |
| system_theme_select_form                | function | modules/system/system.module | system  | theme_select_form | 0      |

| name                     | type     | filename                     | module | suffix            | weight |
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| system_theme             | function | modules/system/system.module | system | theme             | 0      |
| system_perm              | function | modules/system/system module | system | perm c            | 0      |
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|                          |          |                              |        |                   | 0      |
| system_Classes. and      | i inte   | modules/system/system.module | tiles  | menu              | 0      |
| blocked_ip_load          | function | modules/system/system.module | system |                   | 0      |
| _system_themes_access    |          | modules/system/system.module |        | _                 | 0      |
| system_preprocess_page   | faster   | hook calls;                  | only   |                   | 0      |
| system_through me        | odule    | es that imple                | mer    | nt a hool         | < °    |
| system_user_login        | function | modules/system/system.module | system | user_login        | 0      |
| system_user_timezone     | function | modules/system/system.module | system | user_timezone     | 0      |
| system_block_list        | function | modules/system/system.module | system | block_list        | 0      |
| system_block_configure   | function | modules/system/system.module | system | block_configure   | 0      |
| system_block_save        | function | modules/system/system.module | system | block_save        | 0      |
| system_block_view        | function | modules/system/system.module | system | block_view        | 0      |
| system_admin_menu_block  | function | modules/system/system.module | system | admin_menu_block  | 0      |
| system_theme_select_form | function | modules/system/system.module | system | theme_select_form | 0      |

| name   | type           | filename                     | module | suffix            | weight |
|--|----------------|------------------------------|--------|-------------------|--------|
| system_help  | function       | modules/system/system.module | system | help              | 0      |
| system_theme   | function       | modules/system/system.module | system | theme             | 0      |
| system_perm  | function       | modules/system/system module | system | perm _            | 0      |
| Auto-parses  | and            | J Caches Hst                 |        | II TUNCTIC        | ons,   |
|  |                |                              |        |                   | 0      |
| system_elements<br>system_rClasses, and                              | inte           | rtaces in all                | tiles  | menu              | 0      |
| blocked_ip_load  | function       | modules/system/system.module | system |                   | 0      |
| _system_themes_access  | function       |                              | system | _                 | 0      |
| Facilitates fa   | ster           | hook calls:                  | only   |                   | 0      |
| system_preprocess_page   | function       | modules/system/system.module | system | preprocess_page   | 0      |
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| system_user_login  | function       | modules/system/system.module | system | user_login        | 0      |
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| system_block_configure   | function       | modules/system/system.module | system | block_configure   | 0      |
| system_block_conligure<br>system_block_view                          | function       | <b>Ctions</b> yInmodule      | system | block_save        | 0      |
| system_block_view  | function       | modules/system/system.module | system | block_view        | 0      |
| system_module.regis  | strv           | madules/system/system.module | system | admin_menu_block  | 0      |
| system_theme_select_form   | function       | modules/system/system.module | system | theme_select_form | 0      |



### Class registry

- Auto-parses and caches list of all classes and interfaces in all files
- Allows you to do:

\$something = new Something;

- ...from anywhere
- Need to register all files in .info:

```
files[] = example.module
files[] = example.install
```

### Multi-load! \$queries--;

- node\_load\_multiple()
- file\_load\_multiple()
- taxonomy\_term\_load\_multiple()
- taxonomy\_vocabulary\_load\_multiple()
- user\_load\_multiple()

## Faster, more scalable needs Drupal

- Proxy and reverse-proxy support: serve anon page requests entirely via proxy
- Tons of micro-optimizations caught by XDebug profiling
- Smarter look-ahead system for grabbing path aliases
- InnoDB default storage system
- CDN support for files

# HOOKS AND APIS

http://flickr.com/photos/yabanji/

# New Hooks in D7

- hook\_modules\_X(): installed, enabled, disabled, uninstalled
- hook\_taxonomy\_term\_X(): load, insert, update, delete
- hook\_taxonomy\_vocabulary\_X(): load, insert, update, delete
- hook\_aggregator\_X(): fetch, parse, process, remove
- hook\_user\_role\_X(): delete, update, insert

# No more \$op

- hook\_nodeapi(), hook\_user(), hook\_block(), etc. are no longer "mega" hooks:
  - hook\_node\_load(), hook\_node\_update()
  - hook\_user\_register(), hook\_user\_login()
  - hook\_block\_list(), hook\_block\_view()
  - hook\_form\_FORM\_ID\_alter()

# \$page object

```
$page['left']['blocks']['user-navigation']['#block'] = (block
object);
$page['content']['message']['#markup'] = 'Welcome to a big list of
nodes.';
$page['content']['nodes'] = (array of node objects keyed by node ID);
$page['content']['pager']['#markup'] = (HTML markup of pager);
$page['footer']['blocks']['system-powered-by']['#block'] = (block
object);
```

### The most unholy hook of all... hock\_page\_alter()

```
function evilmodule_page_alter(&$page) {
    // Screw you, hippie. The page is what _I_ say it is!
    $page = array();
    $page['content']['main']['#markup'] = '
    <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
        "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
```

```
';
}
```

### The most unholy hook of all... hock\_page\_alter()

```
function evilmodule_page_alter(&$page) {
    // Screw you, hippie. The page is what _I_ say it is!
    $page = array();
    $page['content']['main']['#markup'] = '
    <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
        "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
```

```
···;
}
```

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| ; i i i ###############################      |  |          |
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| ####<br>                                     |  |          |
| ;;;;;G####;;                                 |  |          |
| 1000   |  |          |
|  |  |          |
| Welcome to Drupal!                           |  |          |

### The most unholy hook of all... hock\_page\_alter()

```
···;
}
```

| Ê, DI                                   |       |  |  |  |  |
|---|-------|--|--|--|--|
| #ii,                                    |       |  |  |  |  |
| ,#Diiii,                                |       |  |  |  |  |
| ###Diiiiii,                             |       |  |  |  |  |
| K###Diiiiiii                            | i     |  |  |  |  |
| ###Diiiiiiiiiiii                        | ii    |  |  |  |  |
| ,#DDiiiiiiiiiiii                        | ii,   |  |  |  |  |
| 111111111111111111                      | ii;   |  |  |  |  |
| , 11111111111111111                     | i:::. |  |  |  |  |
| 111111111111111111                      | 1333  |  |  |  |  |
| 1111111111111111111                     | aa aa |  |  |  |  |
| 11111111111111111;                      | 1111  |  |  |  |  |
| iiiiiD#####iii;;                        |       |  |  |  |  |
| iiiii#######i;;#                        |       |  |  |  |  |
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| iii########;;;;#                        |       |  |  |  |  |
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|   |       |  |  |  |  |
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|   |       |  |  |  |  |
|   |       |  |  |  |  |
| Welcome to Drupa                        | 11    |  |  |  |  |

#### http://webchick.net/node/60

### Oh hai, APIs!

- Roles/Permissions API
- Filter/Format API
- Centralized static caching mechanism
- Locking framework
- Job queue

# Node Access Improvements

- "administer nodes" and "bypass node access" two separate permissions
- Alter hook\_node\_grants and hook\_node\_access\_records
- Node access applies to unpublished nodes
- hook\_node\_access() allows modules to influence access on nodes defined by other modules

**Drupal 6** 

#### **Drupal 6**

#### default.profile

```
function PROFILE_profile_modules() {
  return array('module1', 'module2');
}
function PROFILE_profile_details() {
  return array(
    'name' => 'Example',
    'description' => 'Description.',
  );
}
function PROFILE_profile_task_list() {
}
function PROFILE_profile_tasks(...) {
  // Start-up tasks...
}
function PROFILE_form_alter(...) {
  // Alterations to set-up form...
```

}

#### **Drupal 6**

#### **Drupal 7**

#### default.profile

```
function PROFILE_profile_modules() {
   return array('module1', 'module2');
}
function PROFILE_profile_details() {
```

```
return array(
    'name' => 'Example',
    'description' => 'Description.',
    );
}
function PROFILE_profile_task_list() {
    function PROFILE_profile_tasks(...) {
        // Start-up tasks...
}
```

```
function PROFILE_form_alter(...) {
    // Alterations to set-up form...
```

```
}
```

#### **Drupal 6**

#### default.profile

```
function PROFILE_profile_modules() {
   return array('module1', 'module2');
}
```

```
function PROFILE_profile_details() {
    return array(
        'name' => 'Example',
        'description' => 'Description.',
    );
}
function PROFILE_profile_task_list() {
    function PROFILE_profile_tasks(...) {
        // Start-up tasks...
}
```

### function PROFILE\_form\_alter(...) { // Alterations to set-up form... }

#### Drupal 7

#### default.info

name = Example
description = Description
core = 7.x
dependencies[] = module1
dependencies[] = module2 (>2.4-beta2)
files[] = example.profile

# default.install function PROFILE\_install() { // Start-up tasks... }

#### default.profile

```
function PROFILE_form_alter(...) {
    // Alterations to set-up form...
}
```

# Get the full list of changes

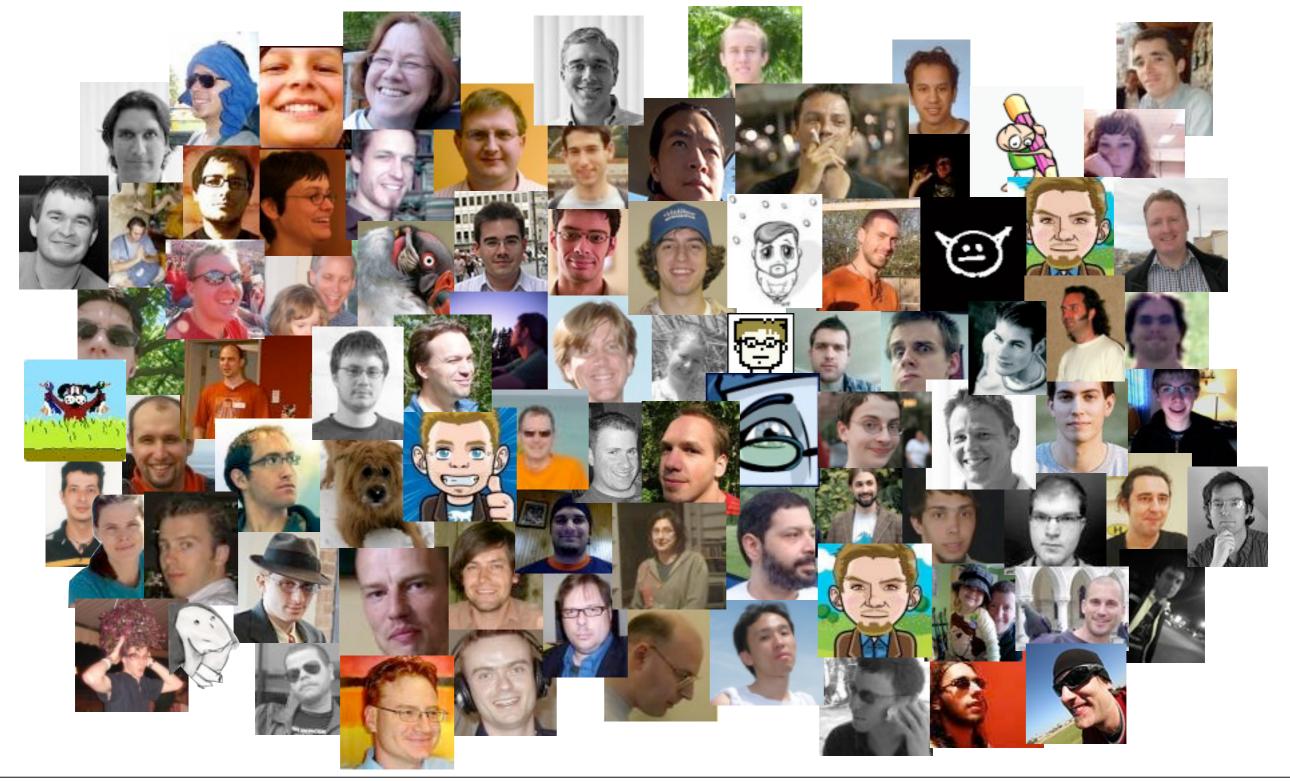
- CHANGELOG.txt
- http://drupal.org/update/modules/6/7
- http://drupal.org/update/theme/6/7
- <u>http://drupal.org/project/coder</u>

#### Let's hear it for Drupal 7!

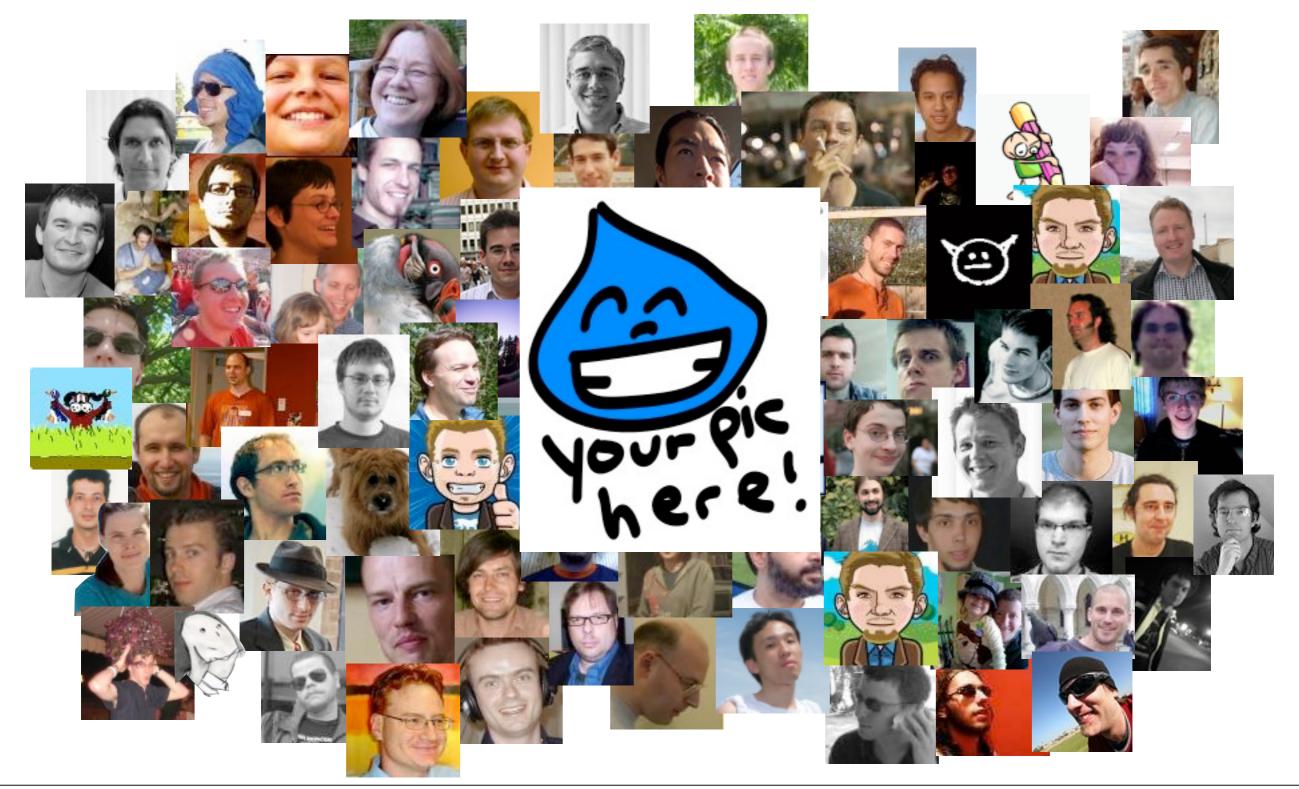


Nearly 500 contributors to Drupal 7 so far

### (some of) Team Drupal 7



### (some of) Team Drupal 7



# How YOU can help!

- Mark non-critical issues as non-critical
- Write automated tests
- Fix bugs
- Hold local bug-fix sprints
- Help with critical freezeextension issues
- Test and review patches

- Port modules and themes to D7 to flesh out API issues
- Help with Coder module
- Fix user-facing strings
- Update documentation
- Come to the sprint on Saturday! :)

# #D7CX

#### **Backup and Migrate**

By ronan on the 3rd of November, 2007

**#D7CX**: I pledge that Backup and Migrate will have a full Drupal 7 release on the day that Drupal 7 is released.

Backup and Migrate simplifies the task of backing up and restoring your Drupal database

### Take the pledge.

http://cyrve.com/d7cx

# Go find out more!

#### Sept 2

#### 13:40 - 14:30:

Explore the glory of Drupal 7's improved render and theming systems Moshe Weitzman

#### 16:10 - 17:00:

Taxonomy Everywhere: D7 Core Overhaul and the Expanding Contrib Universe Benjamin Melançon

I7:15 - 18:00:Intro to the Field API for ModuleDevelopersBarry Jaspan

#### Sept 3

**11:20 - 12:10:** The state of RDF in Drupal 7 Stephane Corlosquet

II:20 - I2:10: Image module in core: it's <strike>almost</strike> real! Nate Haug

#### Sept 4

II:20 - I2:10: Introduction to testing with Drupal: SimpleTest Jimmy Berry



### Let's make Drupal 7 ROCK!