R.E.A.D

How to select the right modules

https://2015.midcamp.org/node/1106

Florida Drupal Camp 2015

#fldc15

Who You Are

- *New to Drupal.*
- *Want to improve habits.*
- *Session curious.*

Your Role

- *A Drupal developer.*

- *A site architect.*

- *Functionality decision maker.*

What it is all About

How to quickly make smart, informed functionality decisions.

What we will Cover

- *Steps to decide between a contrib, patched or custom module.*
- *Real world examples of R.E.AD*
- *Basics of a patch & Basics of a custom module.*

Michael Miles

From: Boston, MA

Work: Genuine @WeAreGenuine(.com)

Exp: Working with Drupal since 2008.

Recently named an Acquia M.V.P

Twitter: @mikemiles86 **Drupal.org:** mikemiles86
All the Places: mikemiles86

R.E.A.D

Research what exists.

Evaluate the options.

Analyze the gap.

Determine amount of change.

Research What Exists

Isolate Keywords

- *Read documentation, specs, etc...*
- *Pay attention to unique nouns and verbs.*
- *Ask questions!*

Perform Searches

- *30k+ Modules available.*
- *Favorite search engine "Drupal [keyword]".*
- *Search on Drupal.org*

Utilize the Community

- *Use IRC: #drupal, #drupal-support.*
- *Use Stack Exchange: drupal.stackexchange.com.*
- *Social Networks: G+, Facebook, LinkedIn.*
- *Even reddit! reddit.com/r/drupal.*

- Isolate Keywords.
- Perform Searches.
- Utilize Community.

Evaluate the Options

Read the Description

- *What does the module do?*
- *What does the module not do?*
- *What does the module depend on?*

Community Adoption

- *Downloads vs. Installs vs. Age.*
- *Activity of issue queue.*
- *Issues are good, not bad!*

Maintainer Activity

- *Participate in issue queue?*

- *Accepting of feedback?*

- *Regular commits and/or releases?*

- Read the description.
- Check community adoption.
- Check maintainer activity.

Analyze the Gap

Download and Test the Module

- *Gain a better understanding.*
- *Use a sandbox: simplytest.me.*
- *What is offered out of the box?*

Discover Missing Functionality

- *What does it not do?*
- *Missing 80%? Missing 20%?*
- *Bigger gap = Bigger effort.*

Check for Community Solutions

- *Look at the issue queue.*

- *Search "Drupal [module] [functionality]".*

- *Ask questions!*

- Download and test the module.
- Discover missing functionality.
- Check for comunity solutions.

Determine Change

Review the Module Code

- *Does it follow coding standards?*
- *Is it extendable?*
- *Can you figure out what does what?*

Estimate Effort

- *How much code to rewrite?*
- *How much code to add?*
- *How much time is there?*

Extend or Alter

- *Adding functionality?*
- *Changing functionality?*
- *Changing the modules goal?*

- Review module code.
- Estimate effort.
- Extend or alter?

…Flow Chart FTW!

Research. Find modules? —YES→ **Evaluate.** find best fit? —YES→ **Analyze.** is there a gap? —YES→ Community solutions exist?

Community solutions exist? —YES→ **Use community solutions.**

Research. Find modules? —NO→ **Build a custom module.**

Evaluate. find best fit? —NO→ **Build a custom module.**

Analyze. is there a gap? —NO→ **Use existing module.**

Community solutions exist? —NO→ **Determine.** big change?

Determine. big change? —YES→ **Build a custom module.**

Determine. big change? —NO→ **Patch.**

Examples

Outlines general concepts
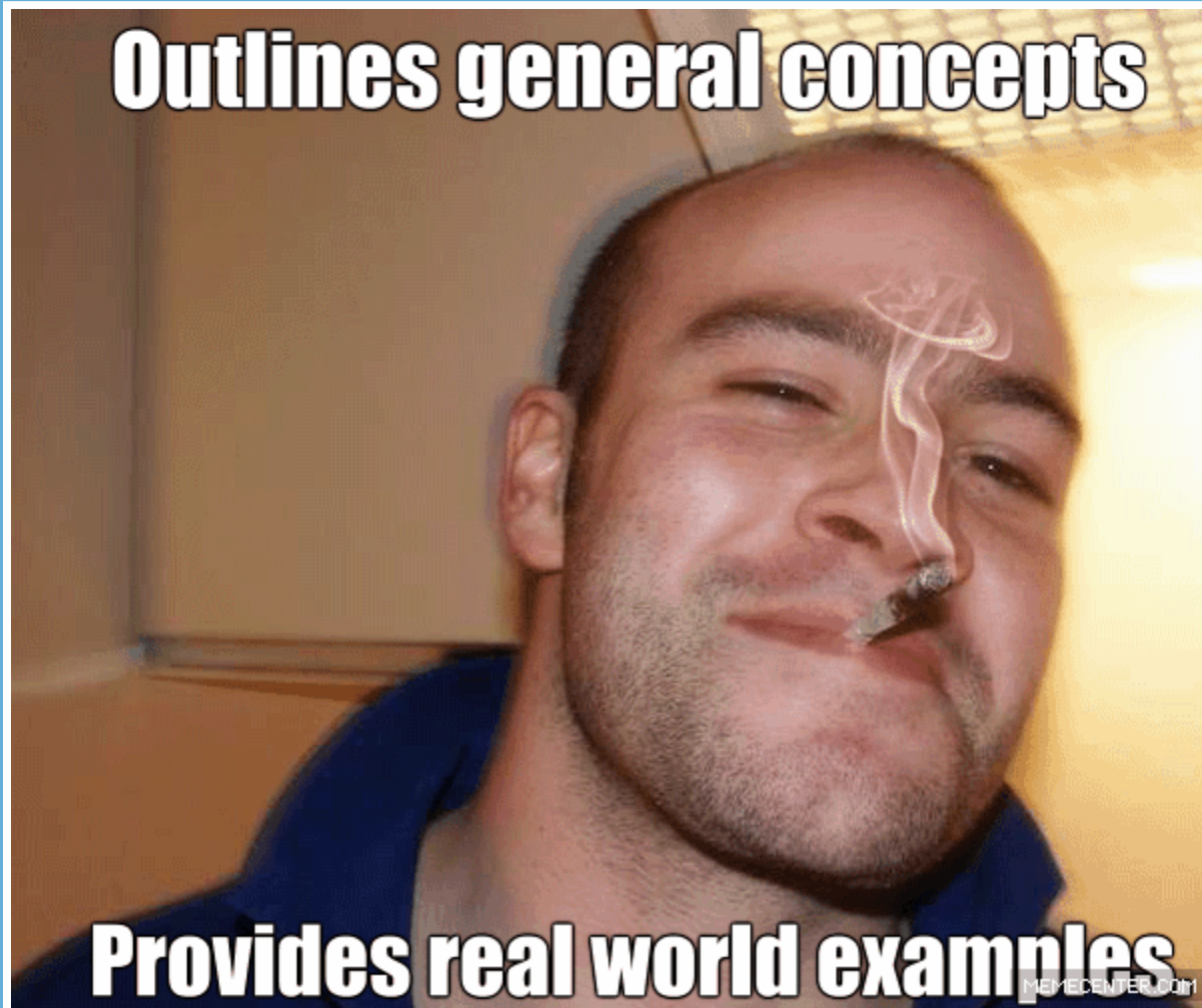
Provides real world examples

Scenario #1

The Requirements

```
WHEN SAVING A FILE ENTITY
AND IT IS A JPEG IMAGE
THEN THE EXIF META DATA NEEDS TO BE CAPTURED
AND MAPPED TO CUSTOM FIELDS
AND THESE MAPPINGS NEED TO BE EXPORTABLE USING FEATURES
```

Research What Exists
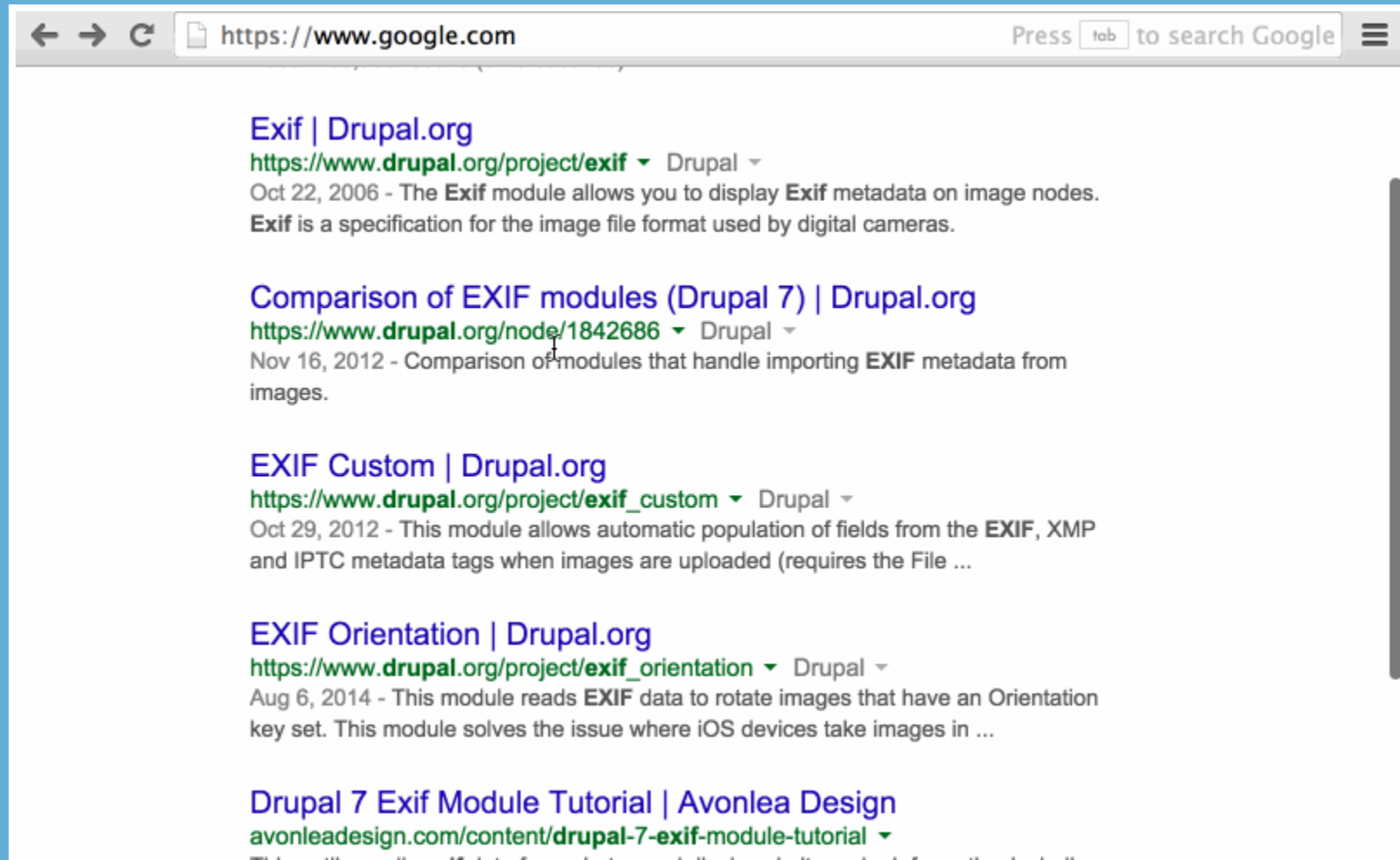
Isolate Keywords

```
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THEN THE EXIF META DATA NEEDS TO BE CAPTURED
AND MAPPED TO CUSTOM FIELDS
AND THESE MAPPINGS NEED TO BE EXPORTABLE USING FEATURES
```

Perform Search

We will focus on the keyword "Exif"

Search Google

Utilize the Community

Comparison of EXIF modules (Drupal 7)

View   Edit   Revisions

Last updated January 6, 2015. Created on November 16, 2012.
Edited by *pkej*, *edwbaker*. You can *edit this page*, too.

Comparison of modules that handle importing EXIF metadata from images.

	Reads EXIF	Reads IPTC	Map to custom file fields	Map to custom entity fields	Report via views without using custom fields
Exif	Yes	Yes	No	Yes	Not tested
EXIF Custom	Yes	Yes	Yes	No	No
GetID3()	Yes	Yes	No	No	Not tested

‹ Colorbox   up   EXIF Custom ›

Page status

Incomplete

Edit this page
Report to moderator

About this page

Drupal version
Drupal 7.x

Audience
Site builders

Evaluate the Options

Exif custom seems like best fit.

Read the Module Description

🔒 https://www.drupal.org/project/exif_custom

EXIF Custom

View   Version control   Revisions   Automated Testing

Posted by **edwbaker** on *October 29, 2012 at 7:23pm*

This module allows automatic population of fields from the EXIF, XMP and IPTC metadata tags when images are uploaded (requires the File Entity module).

Any number of custom mappings between image metadata tags and image fields can be created and saved and it is easy to manage what mapping is used on a site-wide and per-user basis.

To create a new mapping an example image file is uploaded – the available EXIF/XMP/IPTC fields are then listed and can be mapped to the fields attached to an image file entity.

Related Resources

- Installation instructions
- Comparison of image metadata modules
- Some example images for testing
- Some further example images for testing

References

- Baker, E. (2013) EXIF Custom: Automatic image metadata extraction for Scratchpads and Drupal *Biodiversity Data Journal* 1.

This module was developed as part of the eMonocot and Scratchpads projects.

Project Information

   Maintenance status: Actively maintained
   Development status: Under active development

   Module categories: Content

   Reported installs: 475 sites currently report using this module. View usage statistics.
   Downloads: 4,183
   Automated tests: Enabled
   Last modified: December 1, 2014

Maintainers for EXIF Custom

edwbaker – 23 commits
last: 3 months ago, first: 2 years ago

View all committers
View commits

Issues for EXIF Custom

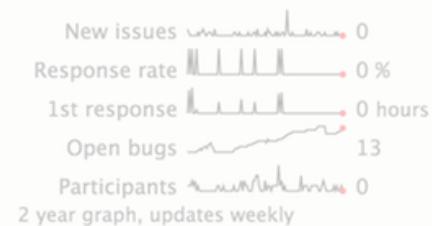To avoid duplicates, please search before submitting a new issue.
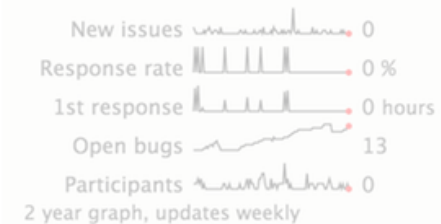
[Search field] Search

Advanced search

All issues
23 open, 51 total
Bug report
13 open, 31 total
Subscribe via e-mail
Statistics

   New issues ⟋⟍⟋⟍ 0
   Response rate ▍▍▍▍▍ 0 %
   1st response ▍▍▍▍ 0 hours
   Open bugs ⟋⟍⟋ 13
   Participants ⟋⟍⟋ 0
2 year graph, updates weekly

Look at Community Adoption

🔒 https://www.drupal.org/project/exif_custom

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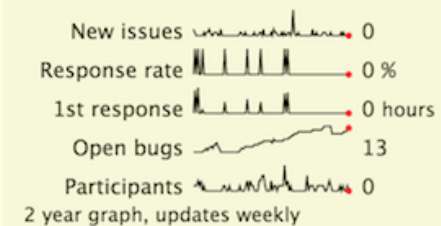
[   ] **Search**

Advanced search

All issues

23 open, 51 total

Bug report

13 open, 31 total
Subscribe via e-mail

Statistics

New issues   0
Response rate   0 %
1st response   0 hours
Open bugs   13
Participants   0
2 year graph, updates weekly

Look at Maintainer Activity

https://www.drupal.org/project/exif_custom

EXIF Custom

View Version control Revisions Automated Testing

Posted by edwbaker on *October 29, 2012 at 7:23pm*

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[_____] **Search**

Advanced search

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23 open, 51 total

Bug report

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Statistics

New issues 0
Response rate 0 %
1st response 0 hours
Open bugs 13
Participants 0
2 year graph, updates weekly

Analyze the Gap

Download and Test the Module

Discover Missing Functionality

Check for Solutions

Download & Extend Home   Drupal Core   Distributions   Modules   Themes

EXIF Custom

View   Version control   Revisions   Automated Testing

Posted by **edwbaker** on *October 29, 2012 at 7:23pm*

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View all committers
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Issues for EXIF Custom

To avoid duplicates, please search bef submitting a new issue.

[   ] **Search**

Advanced search

All issues

23 open, 51 total

Bug report

13 open, 31 total

Subscribe via e–mail

Determine Change

Review Code

```php
468
469  function exif_custom_get_mapping(){
470      //First try and get users default
471      $mid = exif_custom_get_user_default();
472      //Else use site default or item 0
473      if($mid === FALSE){
474          $mid = exif_custom_get_mid(variable_get('exif_custom_default', ''));
475      }
476      $sql = "SELECT * FROM {exif_custom_mapped_fields} WHERE mid = :mid AND img_field != 'none'";
477      $return = db_query($sql, array(
478          ':mid' => $mid
479      ))->fetchAllAssoc('img_field');
480      return $return;
481  }
482
483  function exif_custom_get_exif_fields($uri, $concatenate_arrays = TRUE){
484      $fields = array();
485      //Get all of the EXIF tags
486      $exif = exif_read_data(drupal_realpath($uri), NULL, TRUE);
487      if(is_array($exif)){
488          foreach($exif as $name => $section){
489              foreach($section as $key => $value){
490                  if($concatenate_arrays && is_array($value)){
491                      $value = implode(', ', $value);
492                  }
493                  $fields['EXIF:' . $name . ':' . $key] = exif_custom_check_plain($value);
494              }
495          }
496      }
497      //XMP - test
498      $fields =  array_merge($fields, exif_custom_get_xmp(drupal_realpath($uri)));
499
500
501      //Look for IPTC data
502      $size = getimagesize(drupal_realpath($uri), $info);
```

Estimate Effort

- *Add Features integration.*

- *Alter primary key for mappings.*

- *Time is minimal.*

Extend or Alter

- *Adding features support.*
- *Not changing what module does.*
- *Extending.*

Which Path to Choose

- *Use module as is.*
- *Patch module.*
- *Write own module.*

Patch!

- *Module meets 90% of needs.*
- *Small gap, small effort.*
- *Extends module.*

Features integration

View   Edit   Revisions   **CLONE ISSUE**

Posted by **mikemiles86** on *November 21, 2013 at 11:47am*

It would be very helpful if this module had features integration so that mappings could be exported to code so that they could be managed. For example, sharing across development environments, or pushing field mapping updates to other environments.

Files:

Comment	File			
#1 mikemiles86	📄 exif_custom-features_integration-2141235-1.patch	10.26 KB	**REVIEW**	**SIMPLYTEST.ME**

Comments

mikemiles86 Credit *commented about a year ago*   #1

Status: ~~Active~~ » **Patch (to be ported)**

Status	File			
new	📄 exif_custom-features_integration-2141235-1.patch	10.26 KB	**REVIEW**	**SIMPLYTEST.ME**

Here is a patch that will add features integration into this module.

One thing worth noting that I changed was to have the 'exif_custom_default' variable store the name value instead of the serial id.

edit

Closed (fixed)

Project:	EXIF Custom
Version:	7.x-1.13
Component:	Code
Priority:	Normal
Category:	Feature request
Assigned:	Unassigned

Update this issue

Last updated on *Feb 4, 2014 at 9:40am*

Following   4 followers

Jump to:
Most recent comment
Most recent attachment
Add new comment
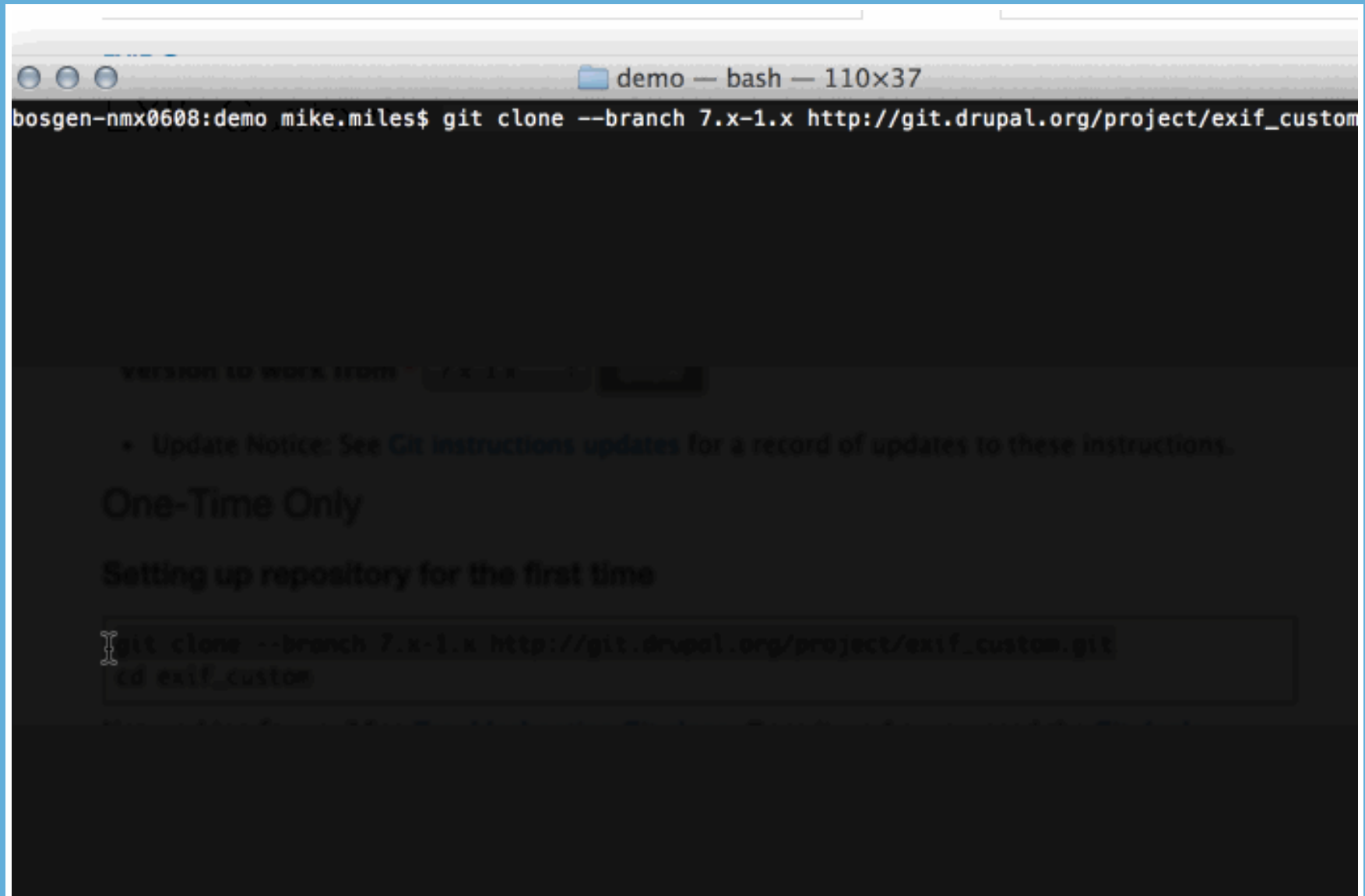
What is a Patch?

- *drupal.org/patch.*
- *A structured list of changes to files.*
- *Re-appliable to files.*
- *Focused on a single change.*

Creating a Patch

Clone and branch module git repo.

Make changes to code.

Test your changes.

Generate patch file.
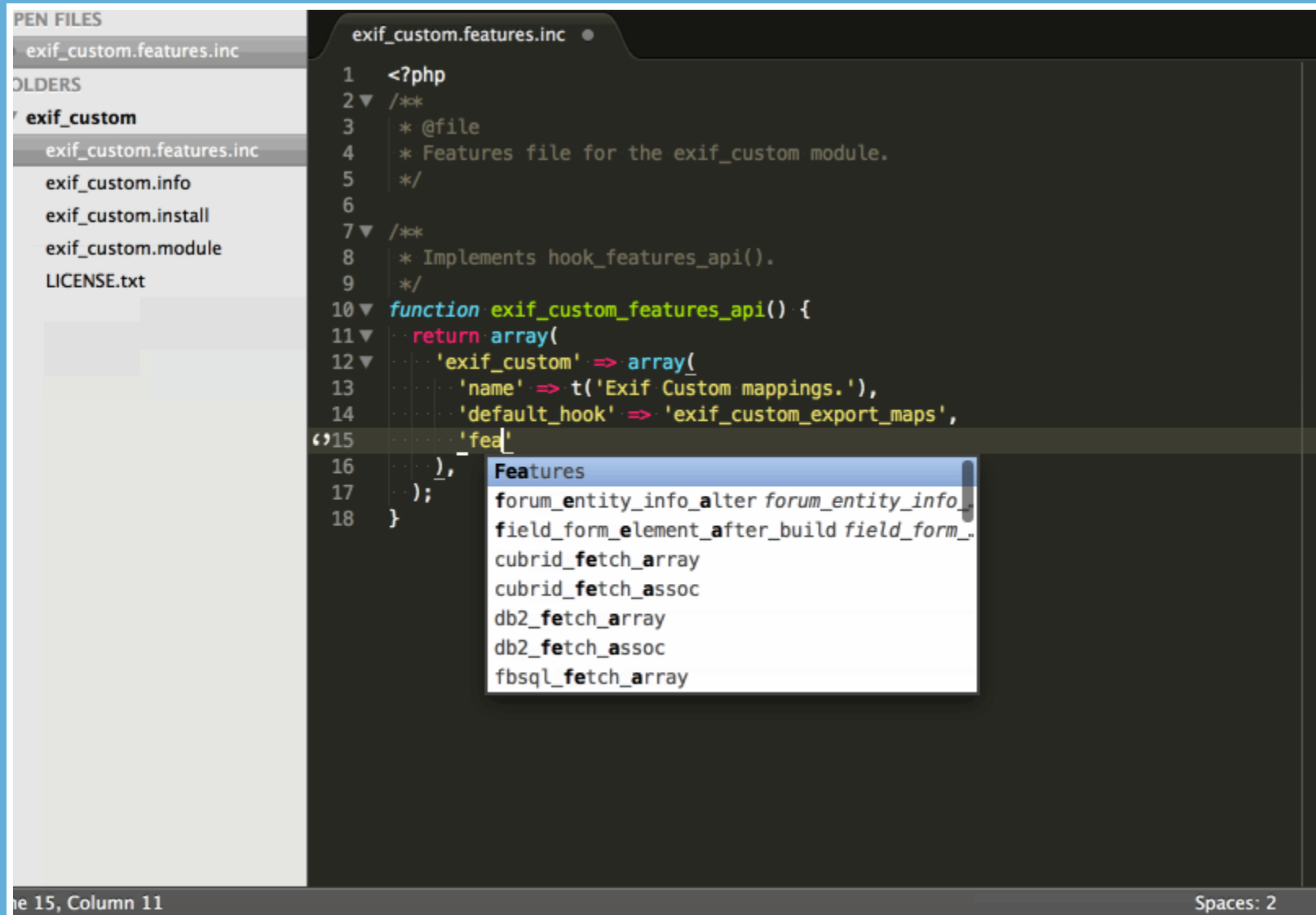
```
diff --git a/exif_custom.features.inc b/exif_custom.features.inc
new file mode 100644
index 0000000..243bbe2
--- /dev/null
+++ b/exif_custom.features.inc
@@ -0,0 +1,158 @@
+<?php
+/**
+ * @file
+ * Features file for the exif_custom module.
+ */
+
+/**
+ * Implements hook_features_api().
+ */
+function exif_custom_features_api() {
+  return array(
+    'exif_custom' => array(
+      'name'            => t('EXIF Custom mappings'),
+      'default_hook'    => 'exif_custom_export_maps',
+      'feature_source'  => TRUE,
+      'default_file'    => FEATURES_DEFAULTS_INCLUDED,
+      'file'            => drupal_get_path('module', 'exif_custom') . '/
+    ),
+  );
+}
```

Submitting a Patch

Create/comment on issue queue.

EXIF Custom » Issues

Features integration

View   Edit   Revisions   **CLONE ISSUE**

Posted by **mikemiles86** on *November 21, 2013 at 11:47am*
It would be very helpful if this module had features integration so that mappings could be exported to code so that they could be managed. For example, sharing across development environments, or pushing field mapping updates to other environments.

Comments

Active	
Project:	EXIF Custom
Version:	7.x-1.13
Component:	Code
Priority:	Normal
Category:	Feature request
Assigned:	Unassigned

Update this issue

Attach your patch.

Follow patch naming standards
[module]-[description]-[issue-number]-[comment-number].patch

Comments

#1

Posted by **mikemiles86** on *November 21, 2013 at 4:21pm*

| Status: | Active | » Patch (to be ported) |

Status	File		
new	📄 **exif_custom-features_integration-2141235-1.patch**	10.26 KB	**REVIEW** **SIMPLYTEST.ME**

Here is a patch that will add features integration into this module.

One thing worth noting that I changed was to have the 'exif_custom_default' variable store the name value instead of the serial id.

edit

Watch for feedback.

#2

Posted by **danquah** on *December 17, 2013 at 5:42am*

Status:	Patch (to be ported)	» Reviewed & tested by the community

Just tested it and it works as advertised!

Should probably be tested a bit more as features integration has a tendency to be tricky, but for now it works like a charm.

report spam

Wait for merge. *(hopefully)*

#3

Posted by **edwbaker** on *January 21, 2014 at 9:34am*

| Status: | Reviewed & tested by the community | » Fixed |

Fantastic – thanks for this. In 7.x–1.x branch for next release.

report spam

Giving back to the community

Feels good man

Scenario #2

The Requirements

```
WHEN SITE USES WORKBENCH TO MODERATE CONTENT
THEN CAN CREATE MULTIPLE TRANSITIONS BETWEEN STATES
AND TRANSITIONS ARE EXPORTABLE USING FEATURES

WHEN EDITNG A CONTENT REVISION
THEN CAN SCHEDULE A TRANSITION
AND CAN SELECT DATE FOR FIRST STATE
AND CAN SELECT DATE FOR SECOND STATE
```

Research What Exists

Isolate Keywords

```
WHEN SITE USES WORKBENCH TO MODERATE CONTENT
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WHEN EDITNG A CONTENT REVISION
THEN CAN SCHEDULE A TRANSITION
AND CAN SELECT DATE FOR FIRST STATE
AND CAN SELECT DATE FOR SECOND STATE
```

Search for Existing Modules

We will focus on the keywords "workbench schedule"

Search Drupal

Evaluate the Options

Look at Scheduler Workbench Integration.

Read the Module Description

https://www.drupal.org/project/scheduler_workbench

Scheduler Workbench Integration

View   Version control   Revisions   Automated Testing

Posted by wwhurley on *June 20, 2012 at 3:01pm*

Scheduler Workbench Integration

Provides integration between the Scheduler module and the Workbench Moderation module to set a moderation state when Scheduler triggers automatic publication unpublication of a module. It also adds a field to capture a default value for unpublication and adds a permission to determine which users can override this default value.

Requirements

- Scheduler (version 7.x–1.1 or higher)
- Workbench Moderation

Thanks

Sponsored by Forum One Communications

Project Information

Maintenance status: Actively maintained
Development status: Under active development

Module categories: Administration , Utility

Reported installs: **1,854** sites currently report using this module. View usage statistics.
Downloads: 13,994
Last modified: December 1, 2014

Maintainers for Scheduler Workbench Integration

wwhurley – 2 commits
last: 1 year ago, first: 2 years ago

View all committers
View commits

Issues for Scheduler Workbench Integration

To avoid duplicates, please search be submitting a new issue.

[   ] Search

Advanced search

All issues

12 open, 29 total

Bug report

6 open, 16 total
Subscribe via e-mail

Statistics

Look at Community Adoption

https://www.drupal.org/project/scheduler_workbench

Scheduler Workbench Integration

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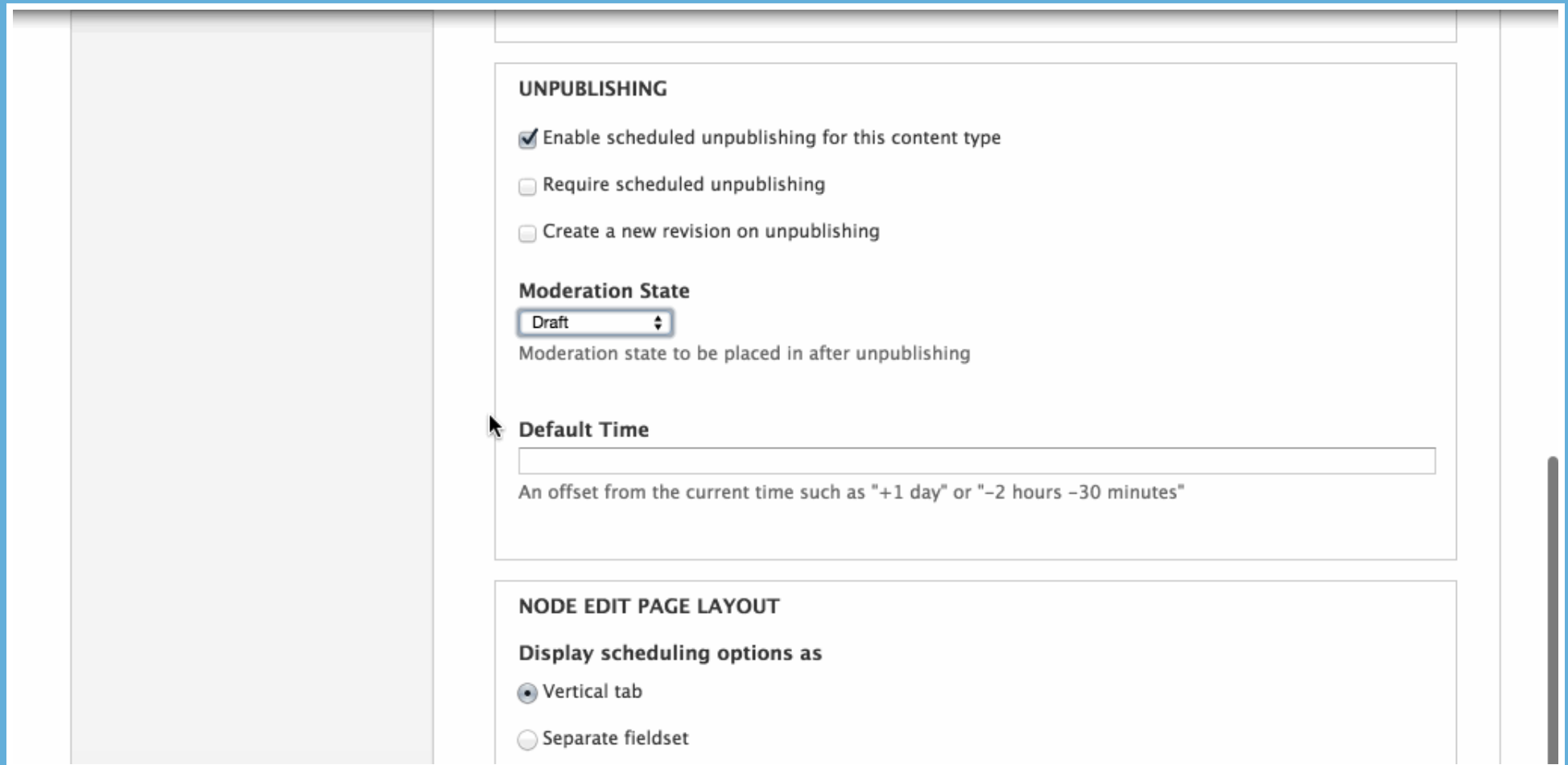### Issues for Scheduler Workbench Integration

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Advanced search

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12 open, 29 total

Bug report

6 open, 16 total
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Statistics

Look at Maintainer Activity

Analyze the Gap

Download and Test the Module

UNPUBLISHING

☑ Enable scheduled unpublishing for this content type

☐ Require scheduled unpublishing

☐ Create a new revision on unpublishing

Moderation State

Draft ⇕

Moderation state to be placed in after unpublishing

Default Time

An offset from the current time such as "+1 day" or "–2 hours –30 minutes"

NODE EDIT PAGE LAYOUT

Display scheduling options as

◉ Vertical tab

◯ Separate fieldset

Discover Missing Functionality

- *Unable to create different transitions per type.*
- *Unable to select per revision.*
- *No features support.*

Determine Change

Review Code

```php
153    * @param string $action
154    *    Action being performed on node
155   */
156  function scheduler_workbench_scheduler_api(&$node, $action) {
157    if (!workbench_moderation_node_type_moderated($node->type)) {
158      return;
159    }
160
161    $func = "_scheduler_workbench_scheduler_{$action}";
162    if (function_exists($func)) {
163      $func($node);
164    }
165  }
166
167  /**
168   * Handles when scheduler unpublishes a node.
169   *
170   * @param stdClass $node
171   *    Node being unpublished
172   */
173  function _scheduler_workbench_scheduler_unpublish(&$node) {
174    if ($state = variable_get('scheduler_unpublish_moderation_state_' .
175      workbench_moderation_moderate($node, $state);
176    }
177  }
178
179  /**
180   * Handles when scheduler publishes a node.
181   *
182   * @param stdClass $node
183   *    Node being published
184   */
185  function _scheduler_workbench_scheduler_pre_publish(&$node) {
186    if ($state = variable_get('scheduler_publish_moderation_state_' . $
187      $node->workbench_moderation_state_current = $node->workbench_mode
188      $node->workbench_moderation_state_new = $state;
189    }
190  }
191
```

Estimate Effort

- *Refactor creating schedules & transitions.*
- *Decouple transitions from content types.*
- *Add Features integration.*
- *Will take time.*

Extend or Alter

- *Changing how transitions/schedules are created.*
- *Changing purpose of module.*
- *Altering.*

Which path to choose?

- *Use module as is.*
- *Patch module.*
- *Write own module.*

Build a custom module!

- *Too big/complicated to be a patch.*

- *Would alter module goals.*

- *No other module exists to support use cases.*

Workbench Scheduler

View   Version control

Workbench scheduler provides users with the ability to create schedules that change moderated content from one workbench moderation state to another. When editing moderated content, users can select a schedule and set the start and end dates for when it should be applied.

A simple example of when this can be helpful is to have a content revision set to be published on a specific date, and unpublished at another.

Users with the correct permissions can create custom workbench schedules where they specify:

- The moderation state to be set when content reaches the "start date"
- The moderation state to be set when content reaches the "end date"
- Which content types should be able to use the schedule

When editing content, users with the correct permissions can select which schedule to apply to their content and set the start and end dates from the "Workbench Scheduler" settings of the node edit form.

It is possible to select only a start or end date, so that only the respective state change will be applied.

Workbench scheduler comes packaged with views support to allow the creation of custom dashboards.

Workbench scheduler comes packaged with features support to allow exporting of schedules.

Dependencies

This module is dependent on the following modules:

Maintainers for Workbench Scheduler

mikemiles86 – **12 commits**
last: 3 weeks ago, first: 1 year ago

lpeabody – **2 commits**
last: 2 months ago, first: 2 months ago

partdigital – **8 commits**
last: 2 months ago, first: 6 months ago

View all committers
View commits

Issues for Workbench Scheduler

To avoid duplicates, please search before submitting a new issue.
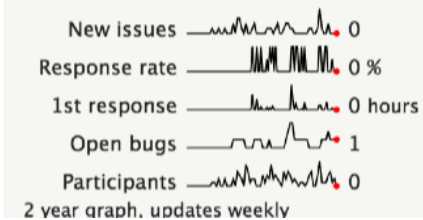Advanced search

All issues
8 open, 41 total

Bug report
1 open, 15 total
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Statistics

New issues ⎯⎯⌇⌇⎯⌇⌇⎯ 0
Response rate ⎯⌇▌▌⌇▌▌⌇ 0 %
1st response ⎯⌇⌇⎯⌇⌇⎯ 0 hours
Open bugs ⎯⎯⌇⌇⎯⌇⌇ 1
Participants ⎯⌇⌇⌇⌇⌇⌇ 0
2 year graph, updates weekly

Writing a Module

- drupal.org/developing/modules.
- *Follow Drupal coding standards.*
- *Make use of hooks and APIs.*
- *Test your code!*

Contributing a Module

Ask yourself:

**Could others use this?
Seriously, is it abstracted enough?**

Name module appropriately.

- *Namespace based on dependencies.*
- *Be clear, not clever.*
- *Should indicate what module does.*

Workbench Scheduler

Posted by mikemiles86 on *October 4, 2013 at 2:03pm*

Workbench scheduler provides users with the ability to create schedules that change moderated content from one workbench moderation state to another. When editing moderated content, users can select a schedule and set the start and end dates for when it should be applied.

A simple example of when this can be helpful is to have a content revision set to be published on a specific date, and unpublished at another.

Users with the correct permissions can create custom workbench schedules where they specify:

- The moderation state to be set when content reaches the "start date"
- The moderation state to be set when content reaches the "end date"
- Which content types should be able to use the schedule

When editing content, users with the correct permissions can select which schedule to apply to their content and set the start and end dates from the "Workbench Scheduler" settings of the node edit form.

It is possible to select only a start or end date, so that only the respective state change will be applied.

Workbench scheduler comes packaged with views support to allow the creation of custom dashboards.

Maintainers for Workbench Scheduler

mikemiles86 – 12 commits
last: 2 weeks ago, first: 1 year ago

lpeabody – 2 commits
last: 1 month ago, first: 1 month ago

partdigital – 8 commits
last: 1 month ago, first: 5 months ago

View all committers
View commits

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Provide a detailed description.

- *Explain what module does and does not do.*
- *Outline any dependencies.*
- *Help fellow R.E.A.D-ers.*

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Workbench scheduler comes packaged with views support to allow the creation of custom dashboards.

Workbench scheduler comes packaged with features support to allow exporting of schedules.

Dependencies

This module is dependent on the following modules:

- workbench moderation
- Date
- Date_popup

Be a good maintainer.

- *Bugs are badges not bruises.*

- *Participate in the issue queue.*

- *Update, release and improve.*

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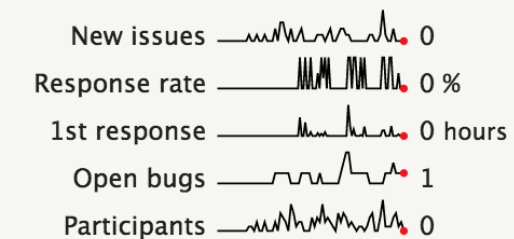
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Let's review
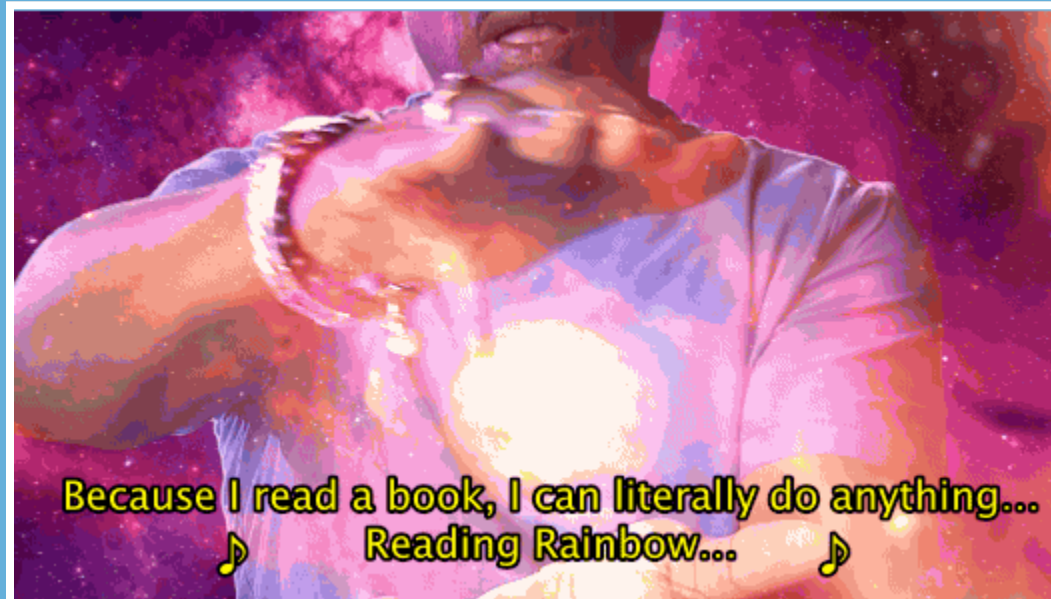
Remember to R.E.A.D

Research what exists.

Evaluate the options.

Analyze the gap.

Determine amount of change.

Slides & Notes

- bit.ly/fldcREAD
- bit.ly/fldcREADslides
- bit.ly/drupalREAD

Feedback

@mikemiles86

#fldc15

Thank You!

R.E.A.D / Michael Miles