Using the Code Review Module

Szeged

DrupalCon
Using the Code Review Module

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Using the Code Review Module

- Coder Module Overview

- History
- Developer Module, built for you (and me)
- What does it do?
- Why should you use it?

http://drupal.org/project/coder
Using the Code Review Module

• What is a Review?
  • Style Review
  • Comment Review
  • SQL Review
  • Security Reviews
  • Upgrade Reviews (4.7.x, 5.x, 6.x, 7.x)
  • Performance Reviews?
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• What does the **style review** check?
  • spaces, tabs, indentation
  • string concatenation (7.x will be different)
  • global variable names, camelCase
  • positioning of curly `{ }`
  • ... and more ...

• See [http://drupal.org/node/114774](http://drupal.org/node/114774)
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• What does the comment review check?
  • spacings and indentation within comments
  • $Id$
  • Some doxygen commenting standards
  • Other pedantic stuff (don't blame us)

• See http://drupal.org/node/318
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• What does the SQL review check?
  • capitalization of SQL keywords
  • brackets around {table}
  • SQL LIMIT instead of db_query_range()
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• What does the **security review** check?
  • SQL injection through variables t()
  • REQUEST_URI instead of request_url()
  • Still need your help...

• See http://drupal.org/node/28984
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• What does the **upgrade review** check?

  • FAPI
  • Menu
  • Schema API
  • Info File changes
  • ... much much more ...

• See http://drupal.org/node/114774
Using the Code Review Module

• How do I Use Coder?
  • Download from project page, install, and enable
  • Setup defaults on admin/settings/coder
  • http://localhost/coder - selection form
  • http://localhost/coder/defaults
  • http://localhost/coder/core - all of core
  • $ drush coder ...
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Coder provides helpful hints without false positives, but offers no guarantee for creating good code. You are the final arbitrator. If in doubt, read the Drupal documentation (see review links below and api.drupal.org).

Selection Form

Reviews

- Converting 4.6.x modules to 4.7.x
- Converting 4.7.x modules to 5.x
- Converting 5.x modules to 6.x
- Drupal Coding Standards (every developer should use)
- Drupal Commenting Standards (every developer should use)
- Drupal SQL Standards (new review, so use with caution)
- Drupal Security Checks (very basic, needs work, but what it finds is good)

apply the checked coding reviews

- minor (most)
- normal
- critical (fewest)

show warnings at or above the severity warning level.
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What to review

- active modules and themes
- core files (php, modules, and includes)
- include files (.inc and .php files)

Select Specific Modules

- aggregator (core)
- biblio
- block (active) (core)
- blog (core)
- blogapi (core)
- book (core)
- civicrm
- civicrm_activeuser
- civicrm_countblock
- civicrm_subscribe
- civicrm_theme
- drush_pm_wget
- drush_sql
- drush_tools
- editor
- faq
- fieldgroup (active)
- filter (active) (core)
- form_collect
- form_store
- forum (core)
- help (active) (core)
- panels_views
- panels_views Legacy
- path (core)
- phpass (active)
- ping (core)
- poll (core)
- profile (core)
- release
- releasemonitor
- retest
- search (active) (core)
-(shortform)
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• Drush – Drupal Shell

  • drush.php coder
    [summary]
    [security|sql|upgrade7x|upgrade47|comment]
    upgrade50|upgradex|style]
    [minor|major|critical]
    [active|core|all|default|<modules>|<patch>]
    [no-<module>]
  • drush.php coder style all
  • drush.php coder style http://example.com/my.patch
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• Drupal 5.x -> 6.x Upgrade Review
  • Run from Drupal 5
  • Run from Drupal 6 (recommended)
  • Catches Quite a Bit...
  • But it's just a tool that makes suggestions
  • You are Smarter than Coder
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• Coder Style Review of all of Drupal
  • cvs co DRUPAL-6-1 branches
  • Thousands of modules
  • Tens of thousands of warnings
  • http://www.civicactions.com/node/1266
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- Top 5 Most Common Errors
  1. Use an indent of 2 spaces, with no tabs
  2. no trailing spaces
  3. UPPERCASE PHP CONSTANTS
  4. curly braces { should end a line, not start one
  5. camelCase

Pretty much the same stuff as in Boston
See http://www.civicactions.com/node/1266
Using the Code Review Module

• Upgrade Review of all of Drupal
  • cvs co DRUPAL-6-1 branches
  • Same Thousands of modules
  • About 750 errors
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Top 9 Most Common Errors

1. Menu titles should not use t()
2. $form_state
3. Convert to Schema API
4. Convert to the menu API
5. hook_help arguments
6. _validate and _submit params
7. info file core = 6.x
8. do not use t('Submit')
9. translations move from ./po

See http://www.civicactions.com/node/1266
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• 1. Menu files should not use \$t()

```php
items['admin/settings/reindex'] = array( 
    'title' => t('Rebuild Search Index'),
    'description' => t('Interactively Rebuild the search index'),
    'page callback' => 'drupal_get_form',
    'page arguments' => array('reindex_settings_form'),
    'access arguments' => array('administer site configuration'),
);
```

should be

```php
'vetitle' => 'Rebuild Search Index',
'description' => 'Interactively Rebuild the search index',
```
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2. $form_state (just one example)

```php
function ad_multiple_delete_confirm_submit($form, &$form_state) {
    if ($form_state['values']['confirm']) {
        foreach ($form_state['values']['ads'] as $aid => $value) {
            node_delete($aid);
        }
        drupal_set_message(t('The ads have been deleted.'));
    }
    return 'admin/content/ad';
}

should be
- return 'admin/content/ad';
+ $form_state['redirect'] = 'admin/content/ad';
```
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• Patch Files
  • Run on your local computer
  • Run on d.o.? but is going to require project
  • Run on cron?
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• The Future of Coder
  • 7.x upgrade review
  • Improve security review
  • Improve comment review
  • Review JavaScript files, needs a coding standard
  • Know about Drupal Specific Callbacks
  • New rule type that uses parsed php, which makes code flow analysis possible
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http://drupal.org/project/coder

http://drupal.org/node/260140 – JavaScript Standards?
http://drupal.org/coding-standards
http://drupal.org/writing-secure-code