

# Using the Code Review Module

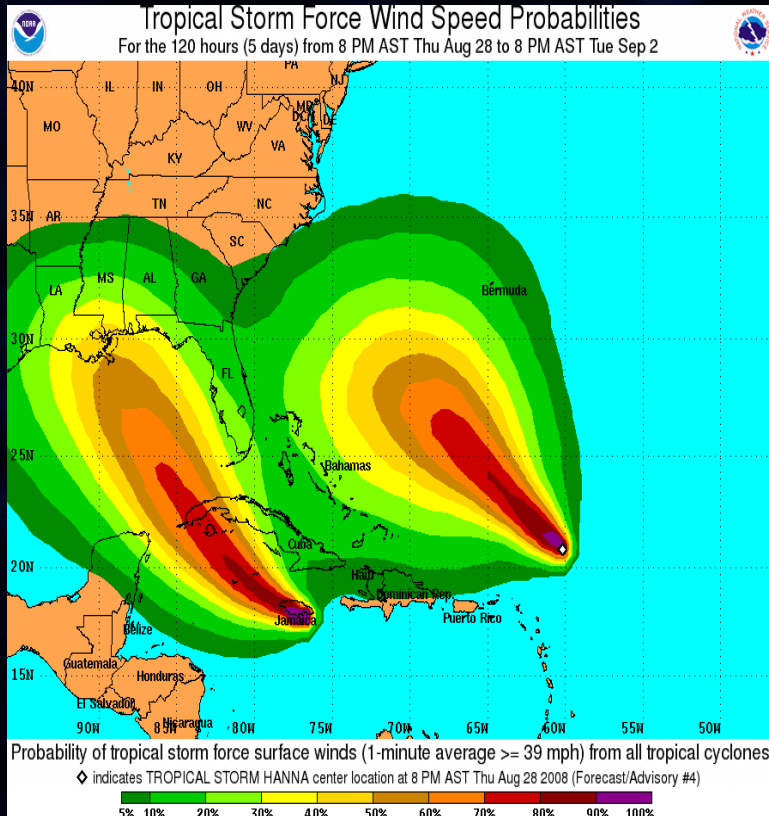


**Szeged**  
**DrupalCon**

# 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?

# Using the Code Review Module

- 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>



# Using the Code Review Module

- 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>

# Using the Code Review Module

- What does the SQL review check?
  - capitalization of SQL keywords
  - brackets around {table}
  - SQL LIMIT instead of db\_query\_range()

# Using the Code Review Module

- 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>



# Using the Code Review Module

- 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 ...

# Using the Code Review Module

**Code review** Selection Form Default Active Core All

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](http://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

# Using the Code Review Module

What to review

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

Select Specific Modules

<input type="checkbox"/> aggregator (core)	<input type="checkbox"/> drush_pm_wget	<input type="checkbox"/> panels_views
<input type="checkbox"/> biblio	<input type="checkbox"/> drush_sql	<input type="checkbox"/> panels_views_legacy
<input type="checkbox"/> block (active) (core)	<input type="checkbox"/> drush_tools	<input type="checkbox"/> path (core)
<input type="checkbox"/> blog (core)	<input type="checkbox"/> editor	<input type="checkbox"/> phpass (active)
<input type="checkbox"/> blogapi (core)	<input type="checkbox"/> faq	<input type="checkbox"/> ping (core)
<input type="checkbox"/> book (core)	<input type="checkbox"/> fieldgroup (active)	<input type="checkbox"/> poll (core)
<input type="checkbox"/> civicrm	<input type="checkbox"/> filter (active) (core)	<input type="checkbox"/> profile (core)
<input type="checkbox"/> civicrm_activeuser	<input type="checkbox"/> form_collect	<input type="checkbox"/> releasemonitor
<input type="checkbox"/> civicrm_countblock	<input type="checkbox"/> form_store	<input type="checkbox"/> reelease
<input type="checkbox"/> civicrm_subscribe	<input type="checkbox"/> forum (core)	<input type="checkbox"/> search (active) (core)
<input type="checkbox"/> civicrm_theme	<input type="checkbox"/> help (active) (core)	<input type="checkbox"/> shortform

# Using the Code Review Module

- 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>



# Using the Code Review Module

- 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

# Using the Code Review Module

- 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>

# Using the Code Review Module

- 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.civicaactions.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

# Using the Code Review Module

- 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>



# Using the Code Review Module

- 1. Menu files should not use t()

```
$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

```
'title' => 'Rebuild Search Index',  
'description' => 'Interactively Rebuild the search index',
```

# Using the Code Review Module

## • 2. \$form\_state (just one example)

```
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';
```

# Using the Code Review Module

- Patch Files
  - Run on your local computer
  - Run on d.o.? but is going to require project
  - Run on cron?

# Using the Code Review Module

- 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>