

CCK Configuration Changes in Code

(I want version control of my config changes!)

What I Want

pull cck structure into code

apply updates to fields,
add fields,
delete fields

change data too?

CCK Type Export

modules/test/cck/test.reaction.inc

```
<?php
```

```
function _test_cck_nodedef() {  
    $content['type'] = array (  
        'name' => 'ReAction',  
        'type' => 'reaction',  
        'description' => 'Almost an action but it is a reactiond',  
        'title_label' => 'ReAction',  
        'body_label' => 'Description',  
        'min_word_count' => '0',  
        ...  
    );  
    return $content;  
}
```

Create a CCK Type From Export

modules/test/test.module

```
function test_install_cck_node($type_name) {
  // load the CCK node types to be created from a file
  module_load_include('inc', 'test', 'cck/test.' . $type_name);
  $content = _test_cck_nodedef(); // in modulename.ccktype.inc

  // CCK content_copy.module may not be enabled, so make sure it is included
  require_once './' . drupal_get_path('module', 'content') .
    '/modules/content_copy/content_copy.module';
  $form_state['values']['type_name'] = '<create>';
  $form_state['values']['macro'] = '$content = ' . var_export($content, TRUE) . ' ';

  // form provided by content_copy.module
  drupal_execute('content_copy_import_form', $form_state);
  content_clear_type_cache();
  return '';
}
```

modules/test/test.install

```
// first release creates a cck type
function test_update_6000() {
  test_install_cck_node('reaction');
  return array();
}
```

How to Update

modules/test/test.module

```
function test_cckupdate1() {  
    $path = drupal_get_path('module','content') . '/includes/content.crud.inc';  
  
    include_once($path);  
    $full = content_field_instance_read(  
        array('type_name' => 'action',  
            'field_name' => 'field_resistance')  
    );  
    $field = array_pop($full);  
  
    // make changes to the $field array  
    // e.g. change the name of the field  
    $field['widget']['label'] = 'Influencer';  
  
    content_field_instance_update($field);  
    drupal_flush_all_caches();  
}
```

Updating an Existing CCK Field (for one CCK Type)

Easy to Change

modules/test/test.module

```
$field['widget']['label'] = 'Priority';
$field['widget']['default_value'][0]['value'] = -1;
$field['widget']['default_value_php'] = "return array(0 => array('value' => 1, 'format' => 0))";
$field['widget']['description'] = "new desc.";
$field['widget']['type'] = 'text_textfield';

$field['text_processing'] = 1; // e.g. plain or filtered text
$field['max_length'] = 100;
$field['allowed_values'] = "2|Fun
0|Neutral
-1|Boring";

$field['allowed_values_php'] = "return -1";
// sets number of values field to where 1 = unlimited, 2=2 etc.
$field['multiple'] = 2;

// WOW! This locks the field so it can not be configured or removed!!!!
$field['locked'] = 0;
```

Updating an Existing CCK Field (for one CCK Type)

Easy to Change

modules/test/test.module

Display Settings

```
$field['display_settings']['label']['format'] = 'above';  
// i am unsure what this does, did not seem to affect admin/content/node-type/action/display  
$field['display_settings']['label']['exclude'] = '1';  
  
$field['display_settings']['teaser']['format'] = 'trimmed';  
$field['display_settings']['teaser']['exclude'] = 1;  
  
$field['display_settings']['full']['format'] = 'trimmed';  
$field['display_settings']['full']['exclude'] = 1;  
  
// rss: admin/content/node-type/action/display/rss  
$field['display_settings'][4]['format'] = 'trimmed';  
$field['display_settings'][4]['exclude'] = 1;  
  
// search index: admin/content/node-type/action/display/search  
$field['display_settings'][2]['format'] = 'trimmed';  
$field['display_settings'][2]['exclude'] = 1;  
  
// search result: admin/content/node-type/action/display/search  
$field['display_settings'][3]['format'] = 'trimmed';  
$field['display_settings'][3]['exclude'] = 1;  
$field['required'] = 1;
```

What is Not Easy to Change using content_field_instance_update()

modules/test/test.module

```
// $field['field_name'] = 'field_influencer';
// $field['widget_active'] = 1;
// $field['type'] = 'integer'; //causes error

// $field['db_storage'] = 1; // cck manages this one
// cck manages this one, you can not change the type of module with this update module
// $field['module'] = 'integer';
// whoa, this one is really bad to change
// $field['active'] = 1;

/* $field[columns] => Array // i don't know what this represents
   (
     [value] => Array
       (
         [type] => text
         [size] => big
         [not null] =>
         [sortable] => 1
         [views] => 1
       )
     )
   [widget] => Array
     (
       [weight] => 3 // um...can not tell
       [module] => optionwidgets // can not change
     )
   )
*/

// what about token? http://test6.local/admin/content/node-type/action/display/token
```

Add a Field

modules/test/test.module

```
function test_cck_field_add($field_name) {  
  module_load_include('inc', 'test', 'cck/test.' . $field_name . '.field');  
  module_load_include('inc', 'content', 'includes/content.crud');  
  $field = _test_cck_field(); // in modulename.fieldname.field.inc  
  content_field_instance_create($field);  
}
```

modules/test/cck/test.futile.field.inc

```
function _test_cck_field() {  
  $field = array (  
    'field_name' => 'field_futile',  
    'type_name' => 'reaction',  
    'display_settings' =>  
    ...  
  );  
  return $field;  
}
```

modules/test/test.install

```
function test_update_6100() {  
  test_cck_field_add('field_futile');  
  test_cck_field_delete('field_resistance');  
  return array();  
}
```

Delete a Field

modules/test/test.module

```
function test_cck_field_delete() {  
  $field_name = 'field_resistance';  
  $type_name = 'reaction';  
  module_load_include('inc', 'content', 'includes/content.crud');  
  content_field_instance_delete($field_name, $type_name);  
}
```

modules/test/test.install

```
function test_update_6200() {  
  test_cck_field_delete('field_resistance');  
  return array();  
}
```

Change Data

Help heyrocker with **deploy**: <http://drupal.org/project/deploy>

References

Modules Used

- content (cck)
- content_copy
- test

Slides and Code

<http://rebcreative.com/node/112>

twitter: RobinBarre

username: robeano

Questions