WRITING DRUPAL 7 PLUGINS …

READY FOR DRUPAL 8 !

- Who am I?
- What I do?
- Why ?

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Having fun at the European Commission

- Developing and maintaining an Intranet,
- Creating automatic deployment tools using Git, Gerrit, Jenkins and Aegir.

While developing Openlayers, I wanted something sustainable, reliable and nice for people to get into the code.

And as I'm lazy, I wanted something that I also can use in Drupal 8, as is.

This is how discovered Service Container.

CTools

- Written for Drupal 7 by Merlinofchaos (views, panels,... !!!)
- It works
- Documentation is not up to date
- Mix between procedural and OOP.

Service Container

- Written for Drupal 7 by Fabian Franz (fabianx), Daniel Wehner (dawehner) and me,
- Code coverage and tests,
- Only OOP.

Manage plugins with CTools in D7

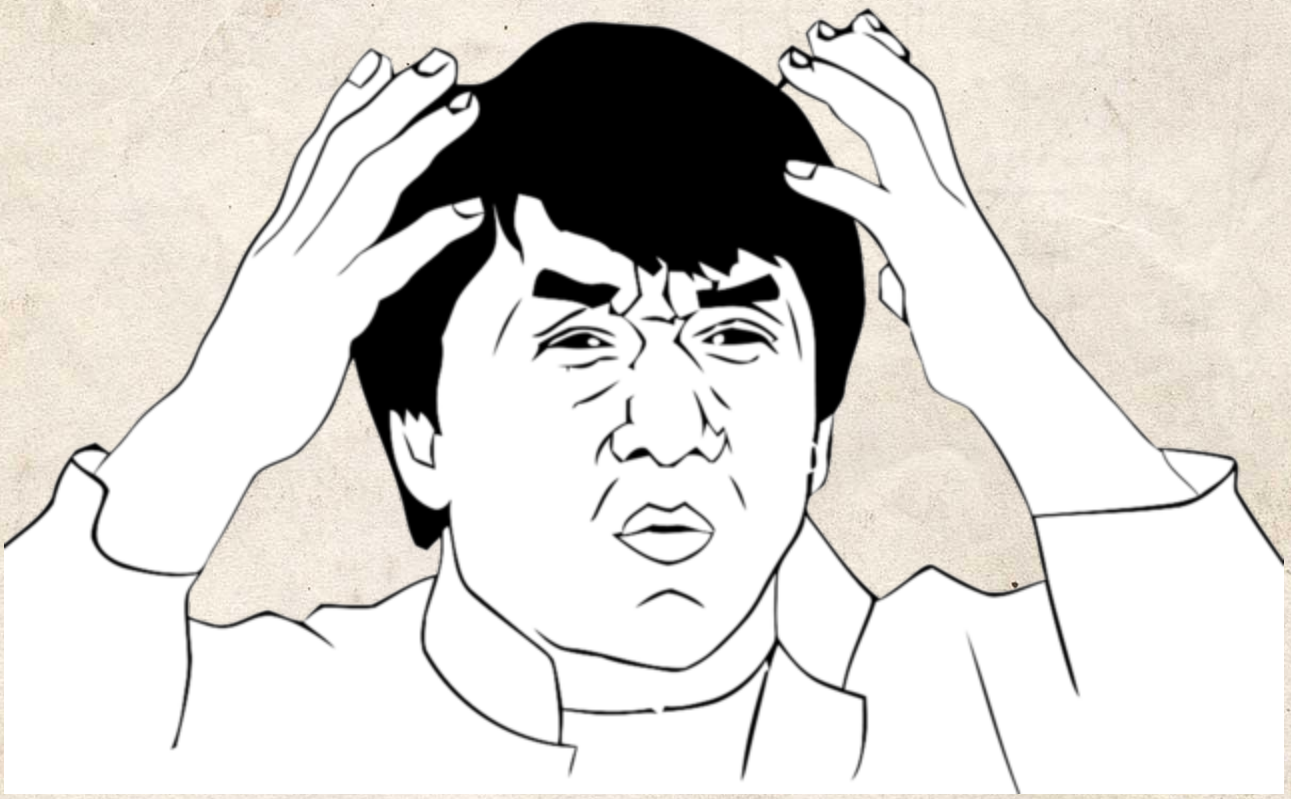
```
dependencies[] = ctools
```

Add the right dependencies to your module.

Manage plugins with CTools in D7

```php
/**
* Implements hook_ctools_plugin_type().
*/
function example_ctools_plugin_type() {
 return array(
   'operation' => array(
     'use hooks' => TRUE,
   ),
 );
}
```

Provide plugins with CTools in D7



Step 1: editing the info file

```
files[] = plugins/operation/example_sum_operation.inc
```

If the plugins are based on a class, you must define them.

Yes, each of them. Don’t believe me ? Look at the Views info file ;-)

```
name = Views
description = Create customized lists and queries from your database.
package = Views
core = 7.x
php = 5.2

; Always available CSS
stylesheets[all][] = css/views.css

dependencies[] = ctools
; Handlers
files[] = handlers/views_handler_area.inc
files[] = handlers/views_handler_area_messages.inc
files[] = handlers/views_handler_area_result.inc
files[] = handlers/views_handler_area_text.inc
files[] = handlers/views_handler_area_text_custom.inc
files[] = handlers/views_handler_area_view.inc
files[] = handlers/views_handler_argument.inc
files[] = handlers/views_handler_argument_date.inc
files[] = handlers/views_handler_argument_formula.inc
files[] = handlers/views_handler_argument_many_to_one.inc
files[] = handlers/views_handler_argument_null.inc
files[] = handlers/views_handler_argument_numeric.inc
files[] = handlers/views_handler_argument_string.inc
files[] = handlers/views_handler_argument_group_by_numeric.inc
files[] = handlers/views_handler_field.inc
files[] = handlers/views_handler_field_counter.inc
files[] = handlers/views_handler_field_boolean.inc
files[] = handlers/views_handler_field_contextual_links.inc
files[] = handlers/views_handler_field_custom.inc
files[] = handlers/views_handler_field_date.inc
```

Step 2: hook_ctools_plugin_directory

```php
/**
* Implements hook_ctools_plugin_directory().
*/
function sum_ctools_plugin_directory($module, $plugin) {
 if (($module == 'example') && ($plugin == 'operation')) {
   return 'plugins/operation';
 }
}
```

Tell Drupal to look in a particular directory for plugins.

Step 3: Define the plugin(s)

```php
<?php

/**
* Operation plugin for Example module.
*
* Calculate sum of two numbers.
*/

$plugin = array(
 'label' => t('Sum'),
 'handler' => array(
   'class' => 'example_sum_operation',
 ),
);

class example_sum_operation extends example_operation {
 public function calculate() {
   return $this->a + $this->b;
 }
}
```

Plugins are important if you want to let users extend your own module in a nice and clean way.

Writing plugins should be easy, fast and fun.

Manage plugins with SC in D7

```
dependencies[] = service_container:service_container_symfony
dependencies[] = service_container:service_container_annotation_discovery
dependencies[] = registry_autoload
registry_autoload[] = PSR-4
```

Add the right dependencies to your module.

Manage plugins with SC in D7

```
parameters:
 annotated_plugins_auto_discovery.sc_example:
   - { owner: 'sc_example', type: 'Operation', directory: 'Plugin/Operation'}
```

Declare the plugins in a .services.yml file.

Yes, a .services.yml in YAML just like in Drupal 8.

Provide plugins with SC in D7

Step 1: editing the info file

```
registry_autoload[] = PSR-4
```

No need to define the plugin class, they will be automatically loaded on demand.

Note: Your classes needs to be in the src directory.
Yes, just like in Drupal 8.

Step 2: create your plugin

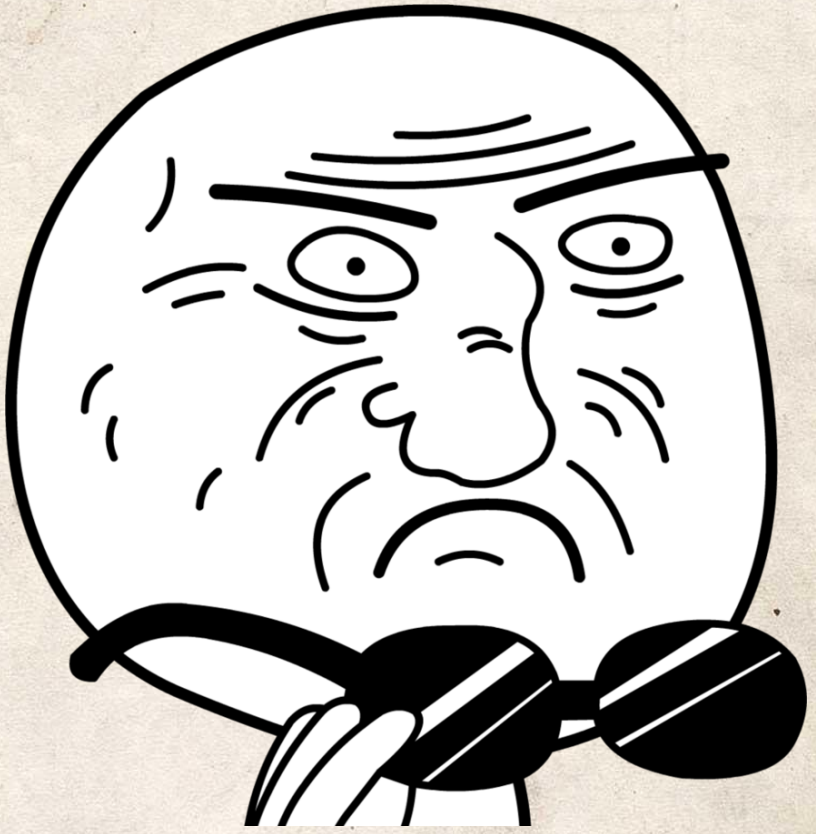
```php
<?php

/**
* Operation plugin for Example module.
*
* Calculate sum of two numbers.
*/

namespace Drupal\multiple_divide_sum\Plugin\Operation;
use Drupal\sc_example\sc_example_operation;

/**
* Class Sum.
*
* @Plugin(
*  id = "sum",
*  label = "Sum"
* )
*/
class Sum extends sc_example_operation {
 public function calculate() {
   return $this->a + $this->b;
 }
}
```

It’s done, profit.



Live demonstration

Questions? Ask me all the things!

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