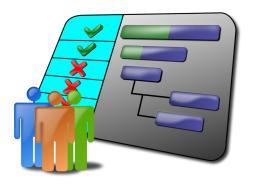
Plugin-Entwicklung

Für Fortgeschrittene?





Heutige

Agenda

- Übliche Probleme
 - Entschlackung
 - Unit-Tests
 - Komponenten
- Mögliche Lösungen
- CLI-Tools

Bestandsaufnahme



Überlaufende

Bootstrap

- viele Event-Subscriber
- viel Logik

- schlecht wartbar
- unübersichtlich
- kaum testbar



Wohin mit den Komponenten?

- Zend Namespaced Classes
- \Php\Namespaces
- require / include
- Shopware()->Resource()
- Abhängigkeiten?

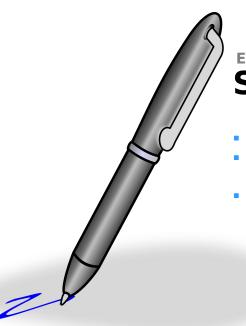




Was ist mit Tests?



Gegenmaßnahmen



Subscribern

- Seit 4.1.4
- Auslagerung von Event-Listenern
- Kompatibel mit dem Symfony SubscriberInterface

Subscriber: Registrierung



Subscriber: Registrierung



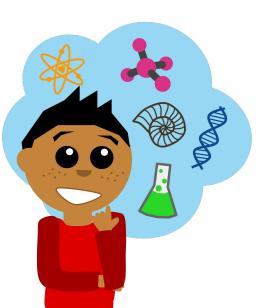
```
public function onStartDispatch(Enlight Event EventArgs $args)
   $subscribers = array(
        new \Shopware\SwagMyPlugin\Subscriber\Checkout()
    );
    foreach ($subscribers as $subscriber) {
        $this->Application()->Events()->addSubscriber($subscriber);
```

Subscriber: Implementierung



```
class Checkout implements \Enlight\Event\SubscriberInterface
    public static function getSubscribedEvents()
        return array(
             Enlight Controller Action PostDispatchSecure Backend Order' => 'extendOrderModule'.
    public function extendOrderModule(\Enlight Event EventArgs $arguments)
        $subject = $arguments->getSubject();
        $request = $subject->Request();
        $view = $subject->View();
```

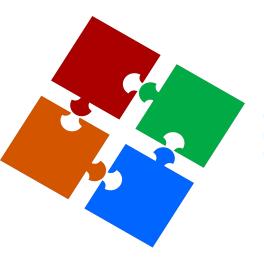
Subscriber







- Entschlackung der Bootstrap
- Lesbarkeit / Wartbarkeit
- Registrierung von Events ohne Neuinstallation
- Separation of concerns



Umgang mit Komponenten

- Wo ablegen?
- Wie registrieren?
- Wie global verfügbar machen?

Komponenten: Namespace registrieren



Komponenten: Namespace registrieren



engine\Shopware\Plugins\Local\Frontend\SwagMyPlugin\Controllers\Frontend\Test.php
namespace Shopware\Plugins\SwagScdExample\Components;

```
use Shopware\Components\Model\ModelManager;

class MyComponent
{
    private $em;

    public function __construct(ModelManager $em)
    {
```

\$this->em = \$em;

Komponenten: Namespace registrieren



Komponenten



Wie löse ich

Abhängigkeiten?

- Dependency Injection
- Regelung der Abhängigkeiten an einem Ort
 - Erweiterung über Event-System möglich

Komponenten: Abhängigkeiten



 $engine \label{local} In the local \cite{local} wag \cite{local} Swag \cite{local} wag \ci$

```
class Resources implements \Enlight\Event\SubscriberInterface
   public static function getSubscribedEvents()
      return array(
          'Enlight Bootstrap InitResource SwagScdExample MyComponent'
            => 'onInitResourceMyComponent',
          => 'onInitResourceAnotherComponent'
      );
```

Komponenten: Abhängigkeiten

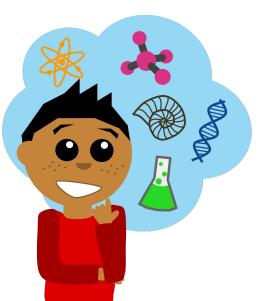


```
public function construct(Container $container) { ... }
public static function getSubscribedEvents() { ... }
public function onInitResourceMyComponent()
   return new MyComponent($this->container->get('models'));
public function onInitResourceAnotherComponent()
    return new AnotherComponent(
        $this->container->get('models'),
        $this->container->get('swagscdexample mycomponent')
```

class Resources implements \Enlight\Event\SubscriberInterface

Komponenten





Kleines Fazit

- Namespaces nutzen
- require / include vermeiden
- Auf Shopware()-Zugriffe verzichten
- DI-Container kann über Event-System angebunden werden
- Zukünftig: Eigene services.xml









Testen



- Finden von Regressionen
- Probleme:
 - Abhängigkeiten
 - Globaler State
 - Datenbank



Unittest: Ausgangslage



```
public function beforeCheckout(\Enlight Event EventArgs $args)
    $controller = $args->get('subject');
    $request = $controller->Request();
    if ($request->getActionName() != 'finish') {
        return;
    $amount = Shopware()->Modules()->Basket()->sGetAmount();
    $customerGroup = Shopware()->Session()->sUserGroup;
    if (\$customerGroup == 'EK' && \$amount * 1.1 <= 50) {
        $controller->forward('confirm');
```

Unittest: Alternative



 $engine \label{local} Front end \label{local} SwagScdExample \label{local} Subscriber \label{local} Basket. php \\$

```
public static function getSubscribedEvents() { ... }
public function beforeCheckout(\Enlight Event EventArgs $args)
    $controller = $args->get('subject');
    $request = $controller->Request();
    if ($request->getActionName() != 'finish') {
        return;
    }
    if (!$this->checkoutAllowed()) {
        $controller->forward('confirm');
```

Unittest: Alternative



 $engine \label{local} Frontend \label{local} SwagScdExample \label{local} Subscriber \label{local} Basket. php \\$

```
public static function getSubscribedEvents() { ... }
public function beforeCheckout() { ... }
public function checkoutAllowed()
    if (this->customerGroup == 'EK' && this->amount * 1.1 <= 50) {
        return false;
    return true;
```

Unittest: phpunit.xml



Unittest: Plugins laden



```
class PluginTest extends Shopware\Components\Test\Plugin\TestCase
     * Ensure that the plugin is installed and loaded
    protected static $ensureLoadedPlugins = array(
        'SwagScdExample' => array()
    );
```

Unittest: Namespace registrieren



engine\Shopware\Plugins\Local\Frontend\SwagScdExample\tests\Test.php

```
class PluginTest extends Shopware\Components\Test\Plugin\TestCase
{
    protected static $ensureLoadedPlugins = array(...);
    public static function setUpBeforeClass()
        parent::setUpBeforeClass();
        $helper = \TestHelper::Instance();
        $loader = $helper->Loader();
        $loader->registerNamespace(
            'Shopware\Plugins\SwagScdExample',
            dirname( DIR ) . '/'
```

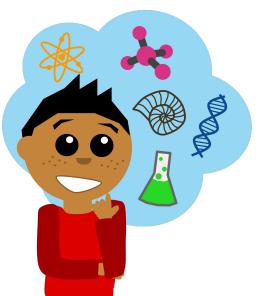
Unittest: Test implementieren



```
class PluginTest extends Shopware\Components\Test\Plugin\TestCase
    protected static $ensureLoadedPlugins = array(...);
    public static function setUpBeforeClass() { ... }
    public function testCheckoutAllowedShouldAllow()
        $subscriber = new \Shopware\Plugins\SwagScdExample\Subscriber\Basket(50, 'EK');
        $result = $subscriber->checkoutAllowed();
        $this->assertEquals(true, $result);
```

Unittests





Kleines Fazit

- Logik möglichst atomar
- Globalen State immer injecten
- Über Shopware-Testsuite stehen viele Helfer zur Verfügung



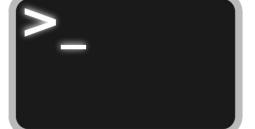




- Setzen auf den Symfony Console Tools auf
- "Shopware für die Kommandozeile"
- Einfach zu integrieren







- Plugins (de)installieren
- Generierung von Thumbnails
- Leeren des Caches
- Snippet-Handling

CLI-Tools: Benutzen



Anfrage:

php bin/console sw:plugin:install SwagLiveShopping

Antwort:

The plugin SwagLiveShopping is already installed.

Anfrage:

php bin/console sw:plugin:config:set SwagLiveShopping displayRating 0

Antwort:

Plugin configuration for Plugin SwagLiveShopping saved

CLI-Tools: Registrieren

public function install()



engine\Shopware\Plugins\Local\Frontend\SwagScdExample\Bootstrap.php

```
$this->subscribeEvent(
        'Shopware Console Add Command',
        'onAddConsoleCommand'
    [...]
public function onAddConsoleCommand()
    $this->registerDefaultSubscriber();
    return new SwagScdExampleCommand();
```

CLI-Tools: Implementieren

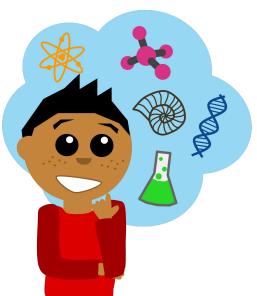
engine\Shopware\Plugins\Local\Frontend\SwaqScdExample\Commands\SwaqScdExampleCommand.php class SwagScdExampleCommand extends ShopwareCommand protected function configure() \$this->setName('swagscdexample:example') ->setDescription('Run example command.') ->addArgument('name'. InputArgument::REQUIRED, 'Your name'

CLI-Tools: Implementieren

```
class SwagScdExampleCommand extends ShopwareCommand
{
    protected function configure() { ... }
    protected function execute(InputInterface $input, OutputInterface $output)
        $name = $input->getArgument('name');
        $output->writeln("<info>{$name}</info>");
        $this->container->get('swagscdexample mycomponent')->doStuff();
```

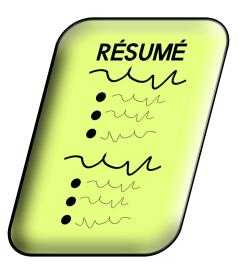
CLI-Tools





Kleines Fazit

- SW über Konsole ansprechen
- Wiederverwendung bestehender Komponenten





Großes Fazit

- Use it!
- Plugins als Mini-Applikation in Shopware
 - Beispiel bei GitHub