



# BARTACUS

#ViennaPHP / 2015-10-14

Created by @PatrikKarisch



**HELLO THERE**



I'M PATRIK





**WHAT'S TODAY?**



# **WHAT BARTACUS IS AND WHY**

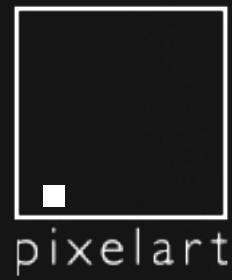
# PREREQUISITES

# CHALLENGES

# ADVANTAGES



# CODE EXAMPLES



# WHAT IS BARTACUS?

# **TYPO3 CMS MARRIED WITH SYMFONY**



**INTEGRATED DEEPLY  
INTO THE CORE**



**WITHOUT HACKING  
THE VENDOR CODE**

# WHY?



**OLD PI\_BASE  
EXTENSIONS ARE  
OUTDATED**



**EXTBASE AND  
FLUID IS AWFUL**

# WAIT, WHAT? NO GOOD ONLINE DOCUMENTATION?



**Manuel**  
@SchaumImOhr

7 Oct

Suche nach einem [#Typo3](#) [#Extbase](#) [#Fluid](#) [#Extension](#) [#Tutorial](#), dass die Entwicklung von Extensions ohne [#ExtBuilder](#) erläutert. Anybody?



**Alex Kellner**  
@einpraegsam

 Follow

@SchaumImOhr Kann nur [amazon.de/TYPO3-Extbase-](#)... oder eine Schulung empfehlen

12:34 PM - 7 Oct 2015

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RECAP

# WHAT BARTACUS IS

RECAP

# **WHAT BARTACUS IS**

## **TYPO3 CMS + Symfony**

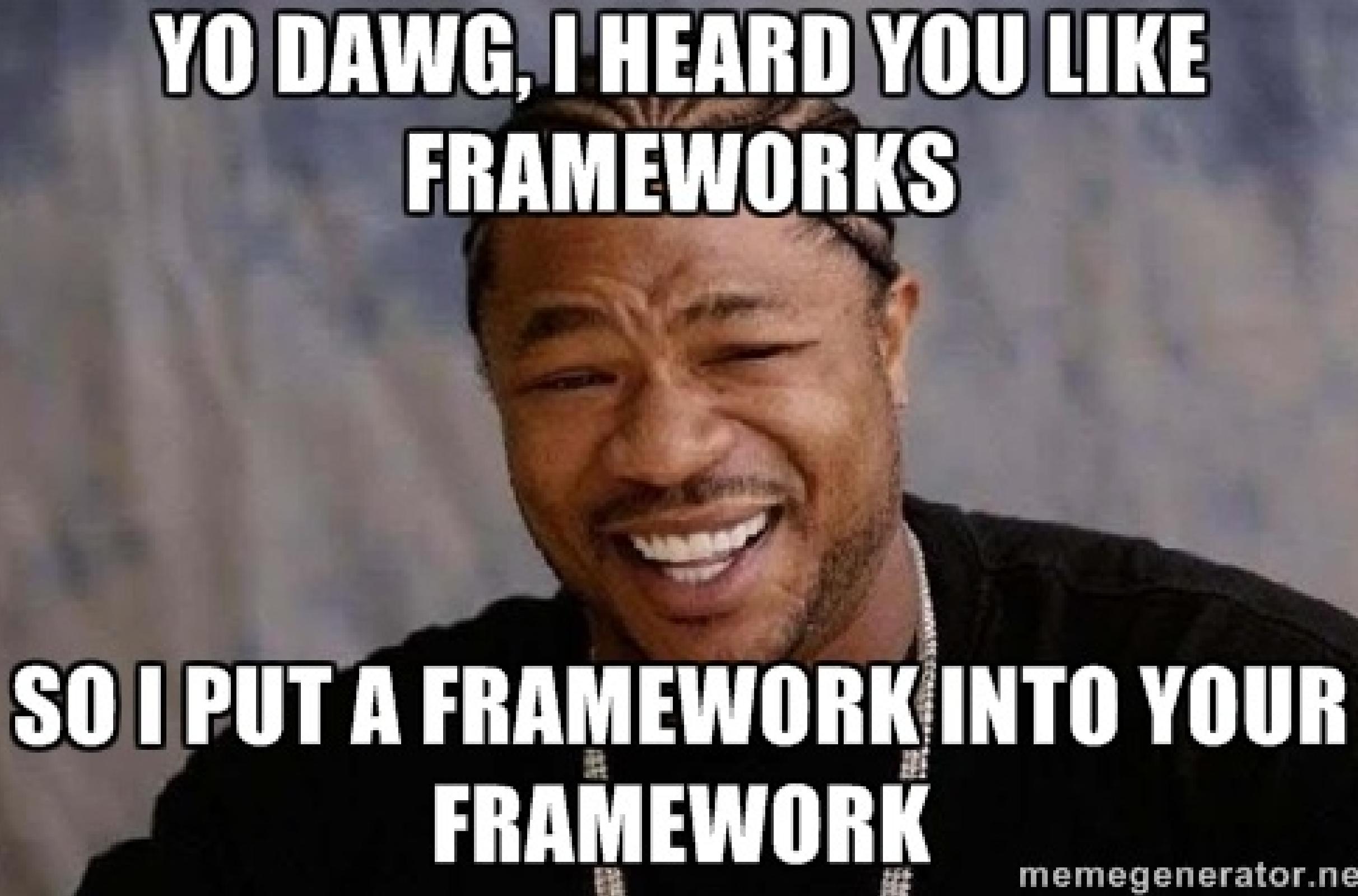
RECAP

**WHAT BARTACUS IS**  
**TYPO3 CMS + Symfony**  
**Deep in the core**

RECAP

**WHAT BARTACUS IS**  
**TYPO3 CMS + Symfony**  
**Deep in the core**  
**No vendor hacks**

**YO DAWG, I HEARD YOU LIKE  
FRAMEWORKS**



**SO I PUT A FRAMEWORK INTO YOUR  
FRAMEWORK**

RECAP

**WHAT BARTACUS IS**  
**TYPO3 CMS + Symfony**  
**Deep in the core**  
**No vendor hacks**  
**No more Extbase/Fluid**

# PREREQUISITES



**YOU KNOW  
NOTHING**



**GET TO KNOW  
SYMFONY IN ITS  
DEEP**



**DEBUG THROUGH  
EVERY EDGE OF  
TYPO3**



# STEP BY STEP

RECAP

# PREREQUISITES

RECAP

# PREREQUISITES

You know nothing

RECAP

# PREREQUISITES

You know nothing  
Really know Symfony

RECAP

## PREREQUISITES

You know nothing  
Really know Symfony  
xdebug is your friend

RECAP

# PREREQUISITES

You know nothing  
Really know Symfony  
xdebug is your friend  
Step by step



# CHALLENGES

# BOOTSTRAPPING



# TYPOSRIPT

# **STATIC CALLS**

## **(The GeneralUtility hell)**



**MYSELF**

RECAP

# CHALLENGES

RECAP

# CHALLENGES

## Bootstrapping

RECAP

# CHALLENGES

Bootstrapping  
TypoScript

RECAP

# CHALLENGES

**Bootstrapping  
TypoScript  
Static calls**

RECAP

# CHALLENGES

**Bootstrapping**

**TypoScript**

**Static calls**

**Myself**

# ADVANTAGES

# DI CONTAINER



# **TWIG RENDERING**



# **BETTER TRANSLATOR**

**(for static text snippets)**

# **CONTENT ELEMENTS AS SYMFONY CONTROLLER ACTIONS**

# SERVICES IN TYPOSCRIPT

```
template = USER
template.userFunc = helper.controller_template->renderController
template.controller = PixelartBaselayout:Template:master
```



**FULL STACK  
ROUTING BESIDE  
TYPO3**

**(coming soon)**



# **SEO URLs WITH SYMFONY (CMF) ROUTING**

**(coming soon)**

RECAP

# ADVANTAGES

RECAP

# ADVANTAGES

## DI container

RECAP

# ADVANTAGES

**DI container**

**Twig rendering**

RECAP

# ADVANTAGES

**DI container**

**Twig rendering**

**Better translations**

RECAP

## ADVANTAGES

**DI container**

**Twig rendering**

**Better translations**

**Content elements -> Controllers**

RECAP

## ADVANTAGES

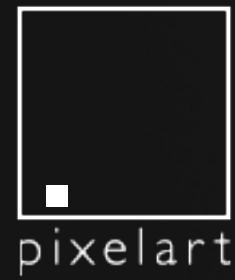
**DI container**

**Twig rendering**

**Better translations**

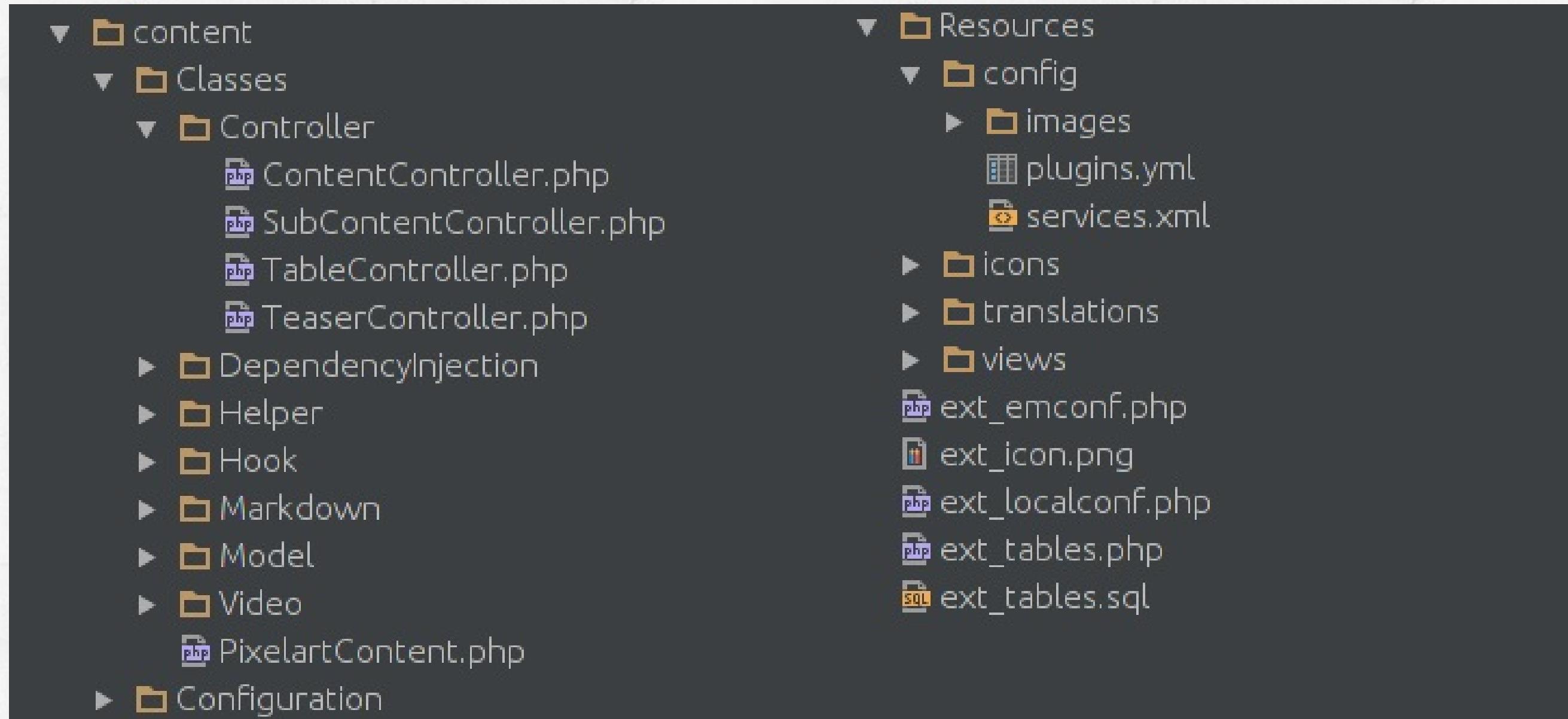
**Content elements -> Controllers**

**Services in TypoScript**



# CODE EXAMPLES

# BASIC EXTENSION STRUCTURE



# SIMPLE CONTROLLER

```
class ContentController extends Controller
{
    public function downloadsAction($data)
    {
        /* @var $fileRepository FileRepository */
        $fileRepository = $this->get('typo3')
            ->makeInstance('TYPO3\\CMS\\Core\\Resource\\FileRepository');

        $data['files'] = $fileRepository->findByRelation(
            'tt_content',
            'downloads',
            $data['uid']
        );

        return $this->render(
            'PixelartContent:Downloads:downloads.html.twig',
            $data
        );
    }
}
```

# CONTENT ELEMENT CONFIG

```
# fileadmin/app/config/plugins.yml

contact:
    resource: @PixelartContent/Resources/config/plugins.yml
    prefix: /content
```

```
# typo3/ext/content/Resources/config/plugins.yml

contact_show:
    path: /downloads
    defaults: { _controller: PixelartContent:Content:downloads }
```

# UNCACHED CONTENT ELEMENT

```
# typo3/ext/contact/Resources/config/plugins.yml

contact_show:
    path: /contact
    defaults:
        - _controller: PixelartContact>Contact:show
        - _cached: false
```

# FORMS? WHY NOT

```
class ContactController extends Controller
{
    public function showAction($data, Request $request)
    {
        $form = $this->createForm(new ContactType(), new Contact());

        $form->handleRequest($request);
        if ($form->isValid()) {
            /** @var Contact $contact */
            $contact = $form->getData();
            $this->saveAndSendMail($contact)

            $template = 'PixelartForms>Contact:thanks.html.twig';
        } else {
            $template = 'PixelartForms>Contact:show.html.twig';
        }

        return $this->render($template, [
            // stuff..
            'form' => $form->createView(),
        ]);
    }
}
```

# TYPOSCRIPT TEMPLATE

```
site.10 = TEMPLATE
site.10 {
    template = USER
    template.userFunc = helper.controller_template->renderController
    template.controller = PixelartBaselayout:Template:master
    marks {
        SUBTEMPLATE = TEMPLATE
        SUBTEMPLATE {
            template = USER
            template.userFunc = helper.controller_template->getLayout
            marks {
                CONTENT0 < styles.content.get
                CONTENT1 < styles.content.get
                CONTENT1.select.where = colPos=1
            }
        }
    }
}
```

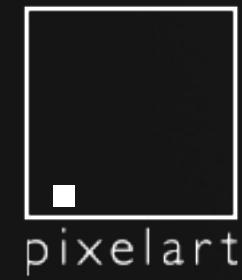


# RENDER CONTROLLER IN TWIG

```
<div id="navigation" class="multi-sticky">
    {{ include('PixelartBaselayout:Menu:menu.html.twig') }}
</div>

<div id="wrapper" class="infoportal">
    {{ render(controller('PixelartSlider:Slider:show', {'data': data})) }}
</div>

<div id="footer">
    {{ include('PixelartBaselayout:Footer:footer.html.twig') }}
</div>
```



# FINALLY, THE GLUE CODE

```
// typo3conf/AdditionalConfiguration.php

use Doctrine\Common\Annotations\AnnotationRegistry;
use TYPO3\CMS\Core\Utility\GeneralUtility;
use TYPO3\CMS\Core\Core\Bootstrap;

$loader = Bootstrap::getInstance()
    ->getEarlyInstance('Composer\\Autoload\\ClassLoader')
;
AnnotationRegistry::registerLoader([$loader, 'loadClass']);

require_once PATH_site.'fileadmin/app/AppKernel.php';

$kernel = new AppKernel(
    (string)GeneralUtility::getApplicationContext() ,
    GeneralUtility::getApplicationContext()->isDevelopment()
);
$kernel->boot();
```

# THANKS

<http://bartacus.readthedocs.com>

@PatrikKarisch