

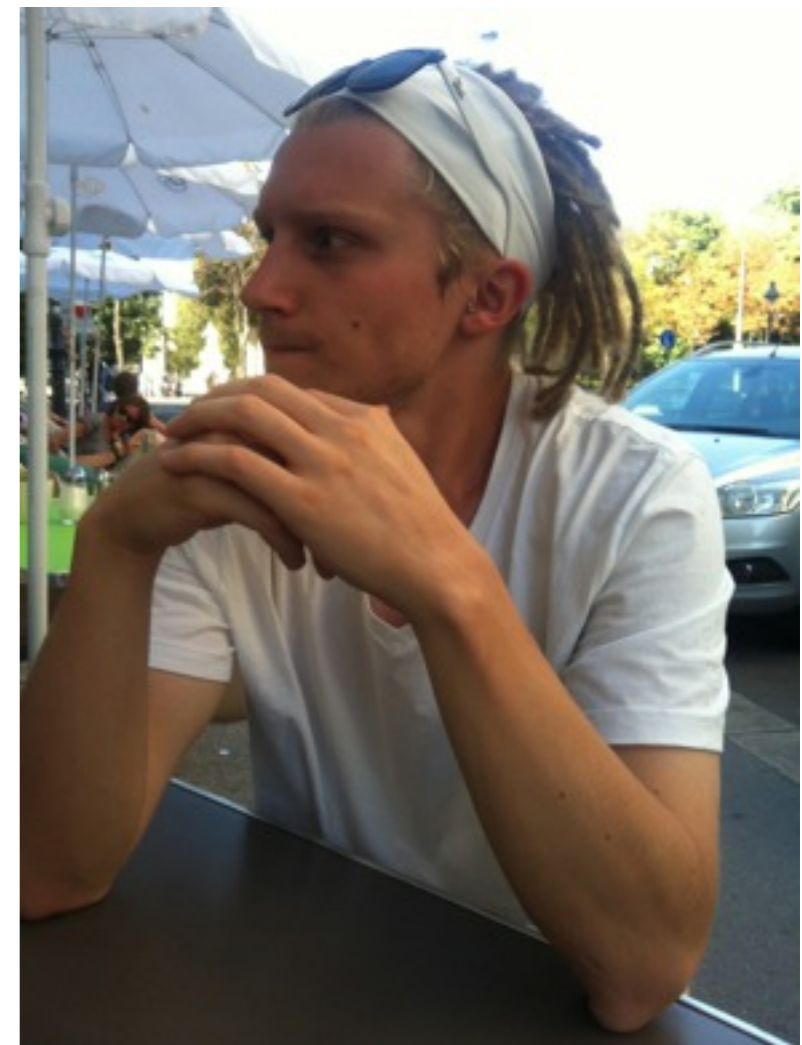
A person wearing a purple jacket is holding a large, multi-layered ice cream sundae. The sundae has several scoops of white and pink ice cream, topped with a cherry and a small white star-shaped decoration. The person is looking down at the sundae with a focused expression. The background is slightly blurred, showing what appears to be an outdoor setting with some wooden structures.

Symfony + Drupal = <3

Roman Lapin, Evercode Lab
@memphys, roma@evercode.com

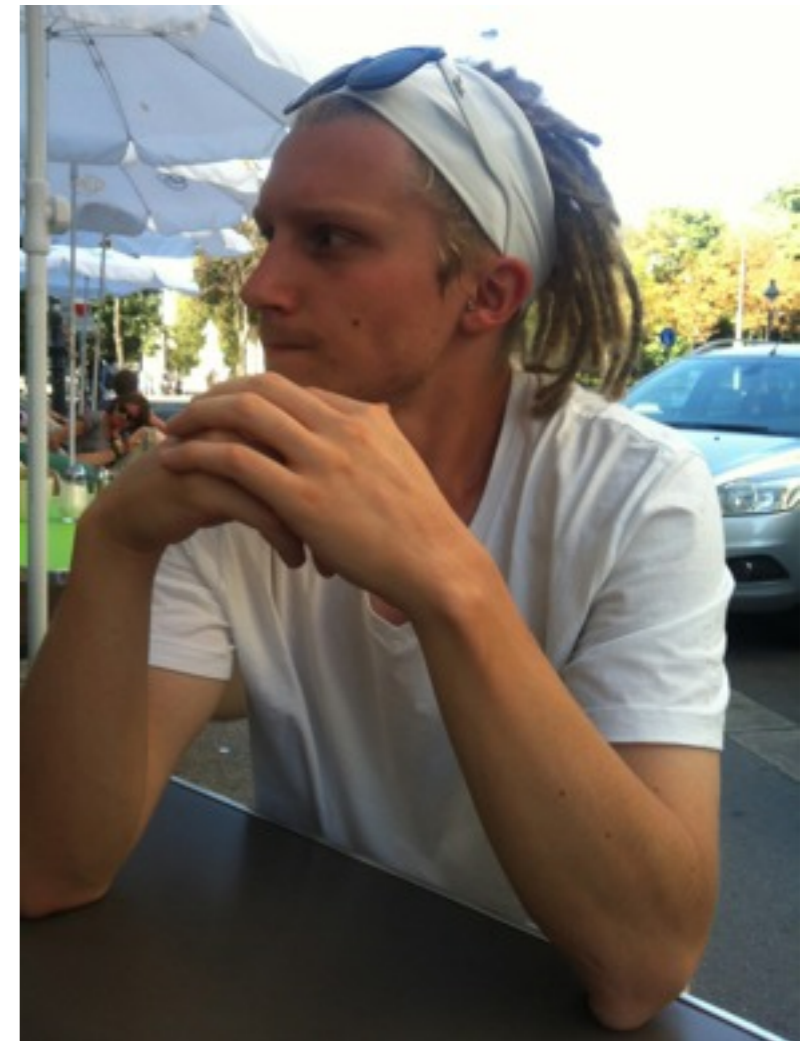
Who is this guy?

- **Web developer since 2005**
- **Evercode Lab – Co-founder and CEO**
- **Using Symfony2 since 2011**
- **Love foosball and comics**



Who is this guy?

- **Web developer since 2005**
- **Evercode Lab – Co-founder and CEO**
- **Using Symfony2 since 2011**
- **Love foosball and comics**
- **I don't know much about Drupal. Surprise!**



Who are you?



Who are you?

- **PHP developer?**

Who are you?

- **PHP developer?**
- **Drupal developer?**

Who are you?

- **PHP developer?**
- **Drupal developer?**
- **Symfony developer?**

Who are you?

- **PHP developer?**
- **Drupal developer?**
- **Symfony developer?**
- **I'm writing on Ruby on Rails and barely understand what I'm doing here.**

Today, I want to officially announce that Drupal will adopt some of the Symfony Components for their upcoming version 8. And I'm not talking about some minor components, they are embracing our vision and they will use the major components that will allow them to build a great low-level architecture for Drupal 8: HttpFoundation, HttpKernel, Routing, EventDispatcher, DependencyInjection, and ClassLoader.



<http://symfony.com/blog/symfony2-meets-drupal-8>

ter regum et dñs duancium gra
actiones pro posse fragilitat mee
tue tremende maiestati ac inese
rietati piissime ihu refero q sac
cororet...
numus au...
go te ut quicquid in me diabolus
tue voluntati contrarium iuenit
com...
quum sancti spiritus habitaculu
parietur. Et dulcissime ihu sic hoc
sacramentu...
auntas et dulce...
tas in oi tentatioe pro gaudiu in oi
tribulatione lumen et lux in oi vlt
et opere solamen et tu...
morte. ...
! de scripsit fr jo. de maghen...

**What Drupal-
developer should
know about
Symfony.**



PHP < 5.3

- **A lot of ready-to-use code (it's PHP, right?)**
- **Big and friendly community**
- **PEAR WTF**
- **Copy + Paste**
- **Many broken minds and wasted lives.**

PHP \geq 5.3

- **Namespaces (finally!)**
- **PHP Framework Interop Group**
- **Standards**
- **Composer**
- **GitHub domination!**

Dependencies in PHP?

- **Git**
- **Pear**
- **Custom solutions**
- **Composer**

Composer



Let it be clear

- ~~Git~~
- ~~Pear~~ — never again!
- ~~Custom solutions~~
- **Composer**



composer.json

```
{  
  "require": {  
    "symfony/console": "2.3.*",  
    "symfony/process": "2.3.*",  
    "symfony/finder": "2.3.*",  
    "symfony/form": "2.3.*",  
    "symfony/validator": "2.3.*",  
    "symfony/config": "2.3.*",  
    "symfony/translation": "2.3.*",  
    "symfony/security": "2.3.*"  
    ...  
  }  
}
```


Workflow

```
$ composer install
```

Workflow

```
$ composer install
```

```
<?php  
require_once __DIR__ . '/../vendor/autoload.php' ;
```

Workflow

```
$ composer install
```

```
<?php  
require_once __DIR__ . '/../vendor/autoload.php' ;
```

```
$ composer update
```

Drupal composer.json

```
{
  "name": "drupal/drupal",
  "description": "Drupal is an open source content management platform powering millions
of websites and applications.",
  "type": "drupal-core",
  "license": "GPL-2.0+",
  "require": {
    "symfony/class-loader": "2.3.*",
    "symfony/dependency-injection": "2.3.*",
    "symfony/event-dispatcher": "2.3.*",
    "symfony/http-foundation": "2.3.*",
    "symfony/http-kernel": "2.3.*",
    "symfony/routing": "2.3.*",
    "symfony/serializer": "2.3.*",
    "symfony/validator": "2.3.*",
    "symfony/yaml": "2.3.*",
    "twig/twig": "1.12.*",
    "doctrine/common": "2.4.*@beta",
    "guzzle/http": "3.7.*",
    "kriswallsmith/assetic": "1.1.*@alpha",
    "symfony-cmf/routing": "1.1.*@alpha",
    "easyrdf/easyrdf": "0.8.*@beta",
    "phpunit/phpunit": "3.7.*",
    "zendframework/zend-feed": "2.2.*"
  },
  ...
}
```

PHP Standards Repository (PSR)

www.php-fig.org

PSR

- **PSR0 — name your classes, namespaces and directories in the healthy way**
- PSR1 — use this coding standards
- PSR2 — and this style guides
- PSR3 — let your loggers implement common interface

Symphony?

Symfony

symfony.com | @fabpot

Symfony2!



Symfony Components

Beside being a full-stack framework, Symfony is also a set of decoupled and standalone components.

Symfony Components implement common features needed to develop websites.



Symfony

Symfony Framework

Basically a Routing-Controller, Request-Response Flow (like almost any other framework).

With a lot of other cool but optional stuff.



Symfony

Components

ClassLoader

Config

DependencyInjection

EventDispatcher

HttpFoundation

HttpKernel

Routing

Templating

BrowserKit

Process

Console

Finder

CssSelector

DomCrawler

Form

Locale

Serializer

Yaml

Validator

Translation

Components in Drupal8

ClassLoader

DependencyInjection

EventDispatcher

HttpFoundation

HttpKernel

Routing

Process

Serializer

Yaml

Validator

Translation

HOW TO BUILD

Where else?

Behat

Doctrine

Propel

Drupal

phpBB

eZ publish

Magento (Twig)

Laravel

Joomla (Yaml)

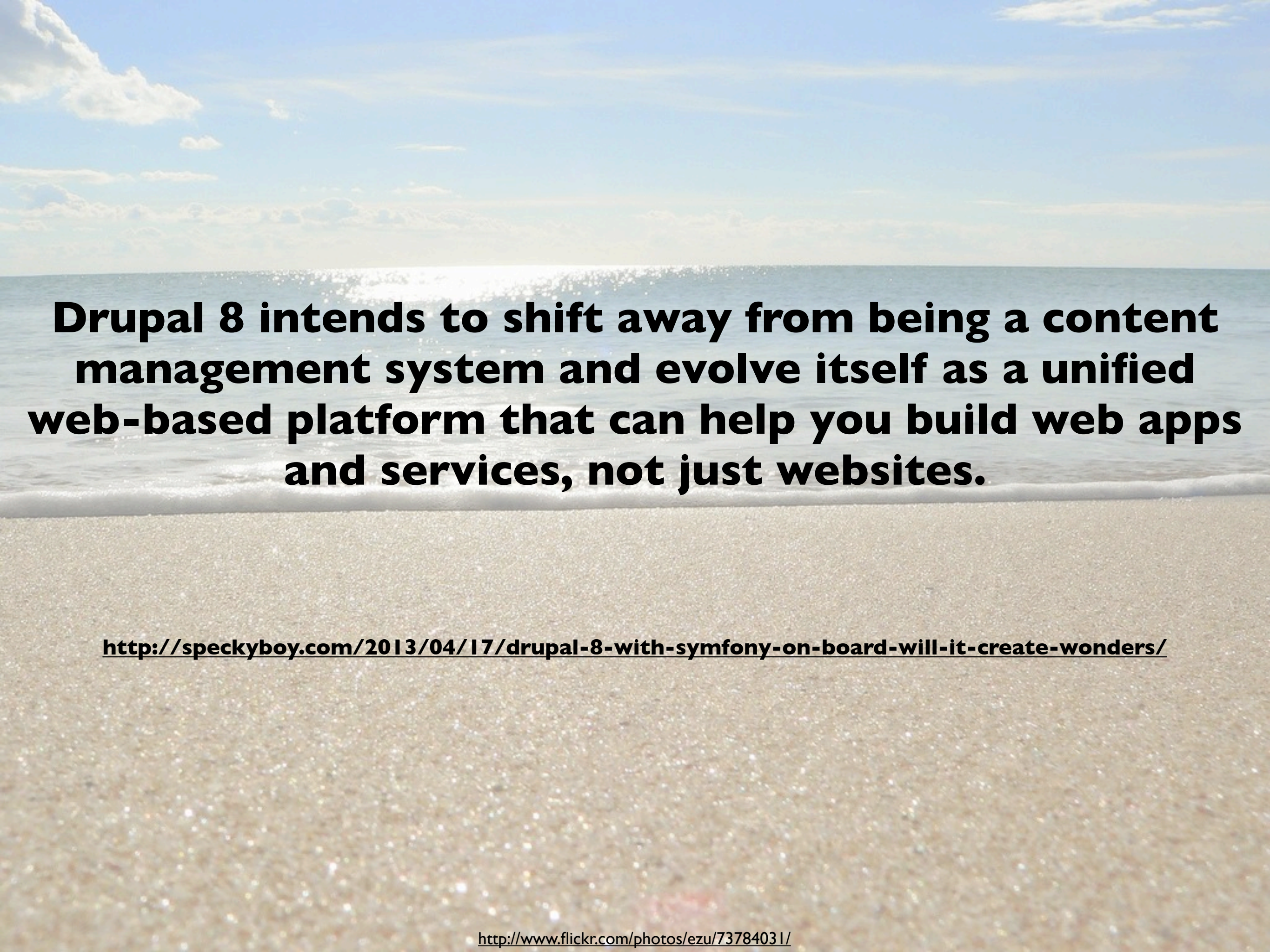
Flow3

Why use them?

- **Decoupled and Standalone**
- **Highly tested**
- **Clean API**
- **Audited for security issues by an independent company**
- **There are people (great community)**

Why use them in Drupal

- **Refactoring towards a "framework" core**
- **Focus on the CMS, not core functionality.**
- **Challenge enterprise web solutions**
- **Interact with outside products**
- **Grow communities**



Drupal 8 intends to shift away from being a content management system and evolve itself as a unified web-based platform that can help you build web apps and services, not just websites.

<http://speckyboy.com/2013/04/17/drupal-8-with-symfony-on-board-will-it-create-wonders/>



The biggest structural changes ever introduced to the CMS.

<http://www.duoconsulting.com/blog/drupal-8-developer's-view>

ClassLoader

The ClassLoader Component loads your project classes automatically if they follow some standard PHP conventions.

```
{  
    "require": {  
        "symfony/class-loader": "2.3.*",  
    }  
}
```

ClassLoader

```
require_once '/path/to/src/Symfony/Component/ClassLoader/UniversalClassLoader.php';
```

```
use Symfony\Component\ClassLoader\UniversalClassLoader;
```

```
$loader = new UniversalClassLoader();
```

```
// You can search the include_path as a last resort.
```

```
$loader->useIncludePath(true);
```

```
// ... register namespaces and prefixes here - see below
```

```
$loader->register();
```

ClassLoader

```
$loader->registerNamespaces( array(  
    'Symfony' => __DIR__ . '/../vendor/symfony/symfony/src' ,  
    'Monolog' => __DIR__ . '/../vendor/monolog/monolog/src' ,  
));
```

```
$loader->registerPrefixes( array(  
    'Swift_' => __DIR__ . '/vendor/swiftmailer/swiftmailer/  
lib/classes' ,  
    'Twig_' => __DIR__ . '/vendor/twig/twig/lib' ,  
));
```

HttpFoundation

The Symfony2 HttpFoundation component replaces default PHP global variables and functions by an Object-Oriented layer.

```
{  
    "require": {  
        "symfony/http-foundation": "2.3.*"  
    }  
}
```

HttpFoundation

```
use Symfony\Component\HttpFoundation\Request;

$request = Request::createFromGlobals();

$input = $request->get('name', 'World');

// the URI minus any query parameters
$request->getPathInfo();

// retrieve SERVER variables
$request->server->get('HTTP_HOST');

// retrieves an instance of UploadedFile identified by foo
$request->files->get('foo');
```

HttpFoundation

```
// COOKIE value  
$request->cookies->get( 'PHPSESSID' );  
  
// HTTP request header  
$request->headers->get( 'host' );  
  
$request->getMethod();    // GET, POST, PUT, DELETE, HEAD  
  
// simulate a request  
$request = Request::create( '/awesome.php?say=woohooo' );
```

HttpFoundation

```
use Symfony\Component\HttpFoundation\Response;

$response = new Response();


$response->setContent("What's up, Doc?");
$response->setStatusCode(200);
$response->headers->set('Content-Type', 'text/html');

// HTTP cache headers
$response->setMaxAge(10);
```


Yaml

**The YAML Component loads and dumps
YAML files.**

```
{  
  "require": {  
    "symfony/yaml": "2.3.*",  
  }  
}
```



Creating yaml files for Drupal promises to reduce deployment headaches by eliminating the need for db configurations through the feature module, or by completing manual configurations through the administrative backend.

<http://www.duoconsulting.com/blog/drupal-8-developer's-view>

Routing

The Routing Component maps an HTTP request to a set of configuration variables.

```
{  
    "require": {  
        "symfony/routing": "2.3.*",  
    }  
}
```

Routing

```
use Symfony\Component\Routing\RouteCollection;
use Symfony\Component\Routing\Route;

$route = new Route(
    '/archive/{month}', // path
    array('controller' => 'showArchive'), // default values
    array('month' => '[0-9]{4}-[0-9]{2}'), // requirements
    array() // options
);
$routes = new RouteCollection();
$routes->add('route_name', $route);
```

Routing

```
use Symfony\Component\Routing\Matcher\UrlMatcher;  
use Symfony\Component\Routing\RequestContext;  
  
$context = new RequestContext($_SERVER['REQUEST_URI']);  
  
$matcher = new UrlMatcher($routes, $context);  
$parameters = $matcher->match('/archive/2012-01');  
// array('controller' => 'showArchive', '_route' =>  
'route_name')
```


routing.yml

```
action_admin:  
  pattern: '/admin/config/system/actions'  
  defaults:  
    _entity_list: 'action'  
  requirements:  
    _permission: 'administer actions'  
  
action_admin_add:  
  pattern: '/admin/config/system/actions/add/{action_id}'  
  defaults:  
    _entity_form: 'action.add'  
  requirements:  
    _permission: 'administer actions'
```

HttpKernel

HttpKernel provides the building blocks to create flexible and fast HTTP-based frameworks.

```
{  
    "require": {  
        "symfony/http-kernel": "2.3.*",  
    }  
}
```



By adopting HttpKernel, Drupal and Symfony projects will become more interoperable. It means that you will be able to easily integrate your custom Symfony applications with Drupal.. and vice-versa.

<http://symfony.com/blog/symfony2-meets-drupal-8>

HttpKernelInterface

```
interface HttpKernelInterface
{
    /**
     * Handles a Request to convert it to a Response.
     *
     * @param Request $request A Request instance
     *
     * @return Response A Response instance
     */
    function handle(Request $request, $type =
self::MASTER_REQUEST, $catch = true);
}
```

HttpKernel

```
$routes = new RouteCollection();
$routes->add('hello', new Route('/hello', array('_controller' =>
    function (Request $request) {
        return new Response(sprintf("Hello %s", $request->get('name')));
    }
)));

$request = Request::createFromGlobals();

$context = new RequestContext();
$context->fromRequest($request);

$matcher = new UrlMatcher($routes, $context);

$dispatcher = new EventDispatcher();
$dispatcher->addSubscriber(new RouterListener($matcher));

$resolver = new ControllerResolver();

$kernel = new HttpKernel($dispatcher, $resolver);

$kernel->handle($request)->send();
```

What else?

- **EventDispatcher**
- **Dependency Injection**
- **<http://symfony.com/components>**

A person is shown from the side, focused on writing in a notebook at a desk. A desk lamp with a colorful, patterned base is positioned to the right, casting light on the desk. A clock is also visible on the desk. The background is slightly blurred, showing a window and a chair.

**How to expand your
comfort zone.
(Do your homework)**



http://gifstumblr.com/images/iron-man-youre-doing-it-right_790.gif

phptherightway.com

Try Silex



**Or individual
components**

Create your own framework... on top of the Symfony2 Components (part 1)

Fabien Potencier

January 03, 2012

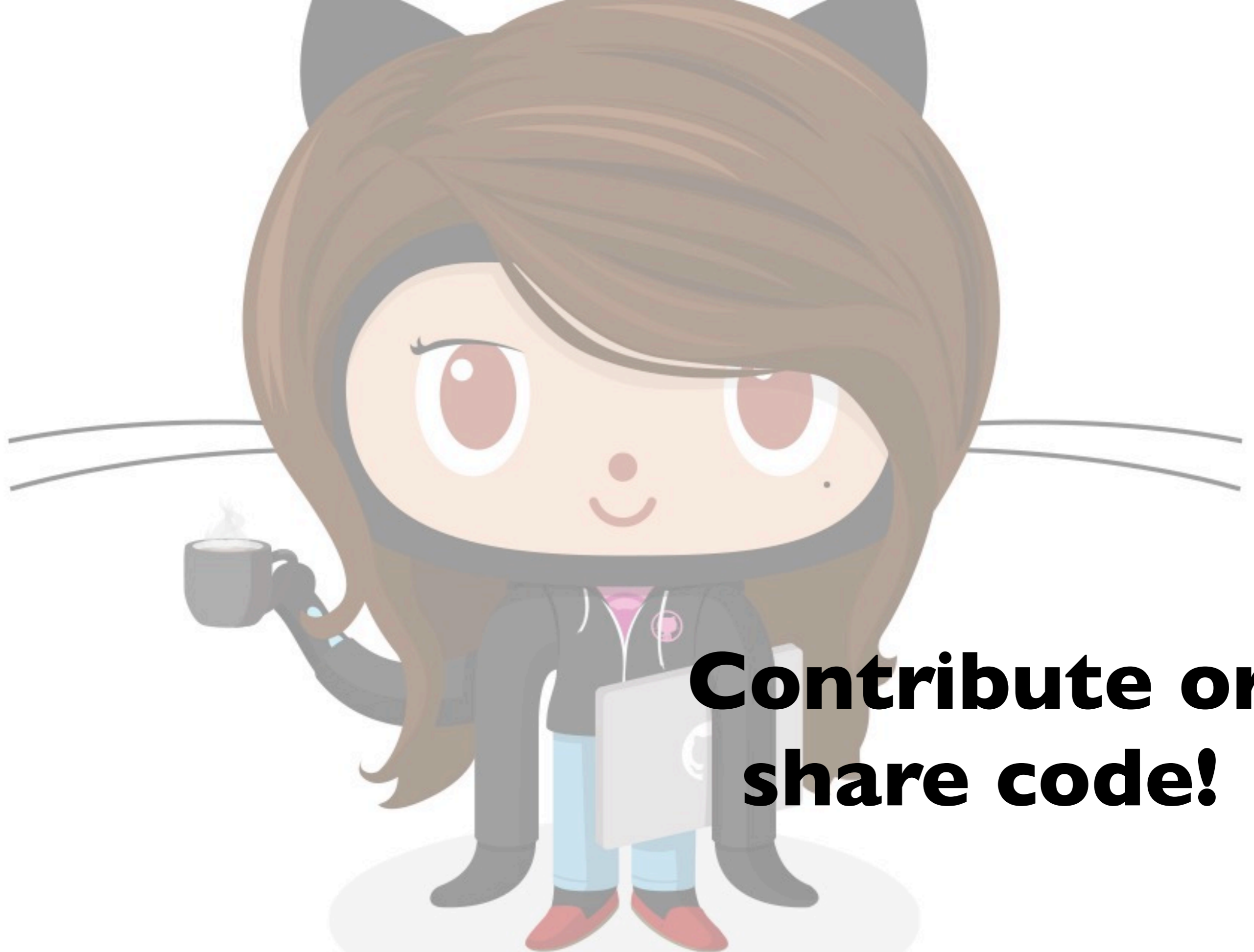
- 📖 This article is part of a series of articles that explains how to create a framework with the Symfony2 Components: [1](#), [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#).






Knp University
PHP Tutorial Screencasts





**Contribute or
share code!**

A wooden tray holds several small white bowls containing different types of beer, ranging from light to dark. In the foreground, a large glass of dark beer with a thick white head of foam is prominent. The background is softly blurred, showing more of the tray and the wooden surface.

**Give a high five to
symfony developer
today! Or buy him
a beer ;)**

Thank you!

Roma Lapin
Evercode Lab

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@memphys
@evercode

