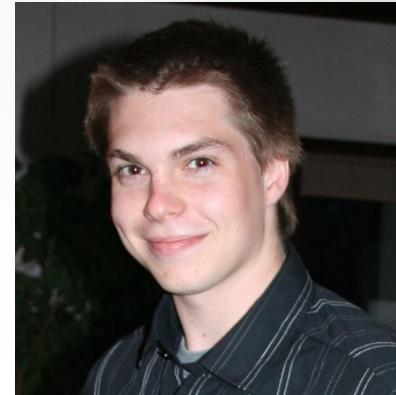


Développer mieux en PHP avec

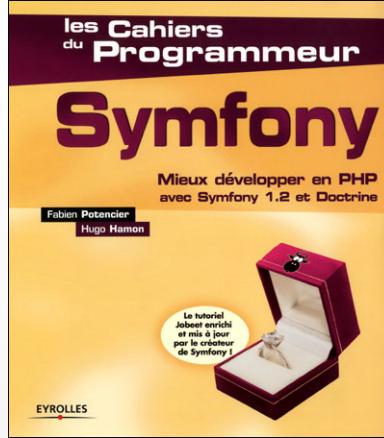
Forum PHP AFUP 2010

Qui suis-je ?

- ❖ **Hugo HAMON (@hhamon)**



- ❖ Responsable des formations à **SENSIO LABS** *
- ❖ 8 ans de PHP
- ❖ Secrétaire de l'AFUP
- ❖ Auteur du site Apprendre-PHP.com
- ❖ Coauteur & contributeur à des ouvrages Eyrolles



Symfony, un framework
professionnel !

Le projet symfony. . .

	symfony 1.0	symfony 1.4	Symfony 2.0
License		MIT	
Version actuelle	1.0.22	1.4.8	2.0.0 - Alpha
Date de sortie	Octobre 2005	Novembre 2009	Mars 2011
Support	Terminé	Fin 2012	?
Stabilité	Stable	Stable	Pas stable
Production	Oui	Oui	Bientôt
Documentation	Oui	Oui	En cours

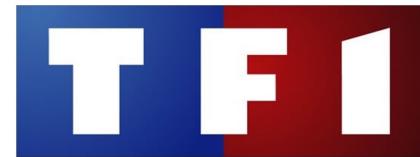


Un riche écosystème

- Documentation Open-Source
- API stable et fiable
- Communauté active
- Plugins Open-Source
- Développeurs sur le marché
- Formation & Consulting



Ils utilisent symfony



Dailymotion



Symfony pour résoudre
les problématiques du
développement web.



1.

Industrialiser les développements

Coût de développement

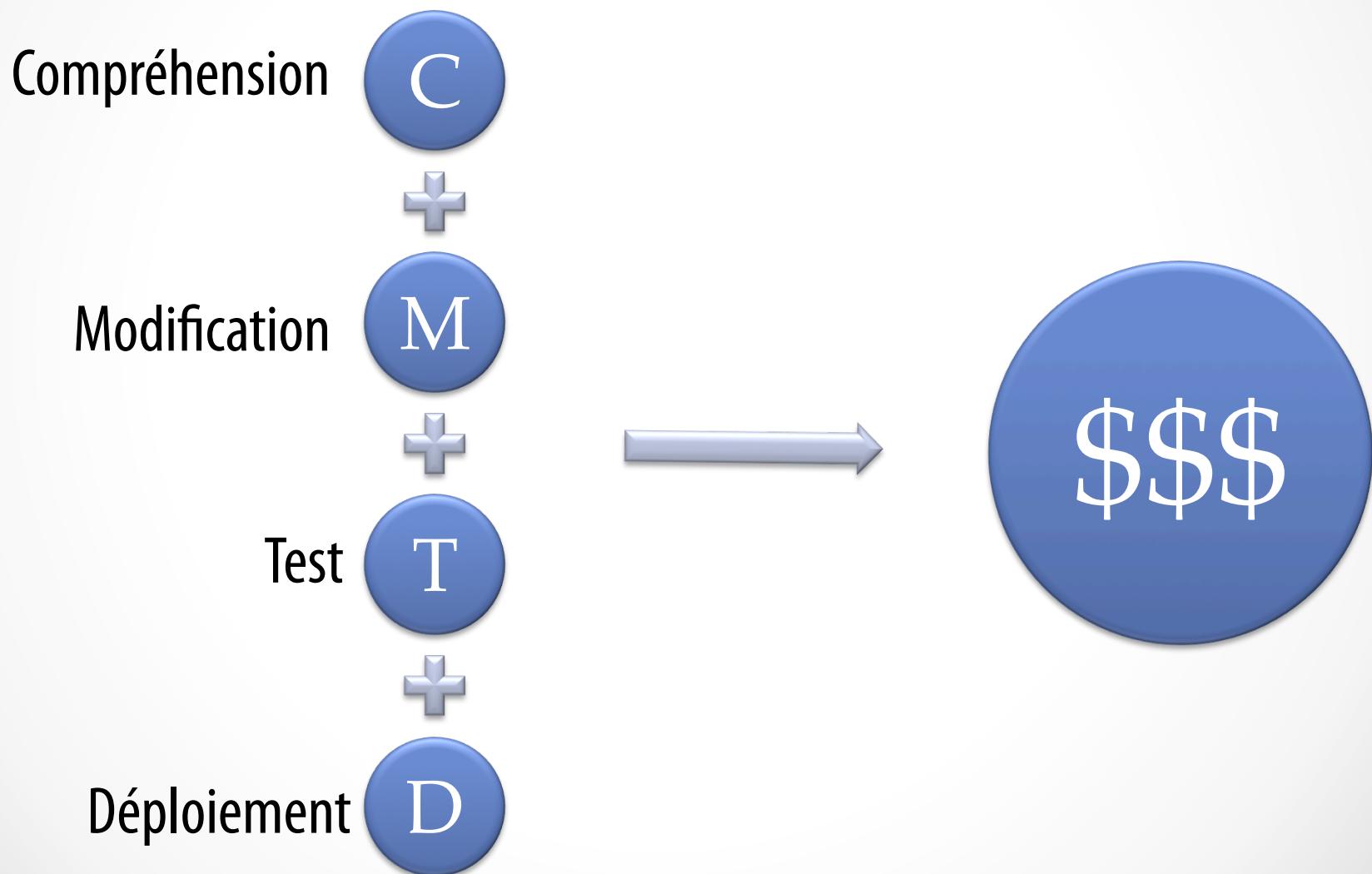
Développement



Test



Coût de maintenance



**Coût
Développement**

**Coût
Maintenance**

Déploiement

Test

Correction

Compréhension

Test

Développement



Objectifs ?

Moins de
Code

Moins de
complexité

Moins de
bogues

Plus de
Productivité

Plus de
temps

Automatiser des tâches pénibles

```
Hugo:sfShop Hugo$ ./symfony
```

Usage:

```
symfony [options] task_name [arguments]
```

Options:

--help	-H Display this help message.
--quiet	-q Do not log messages to standard output.
--trace	-t Turn on invoke/execute tracing, enable full backtrace.
--version	-V Display the program version.
--color	Forces ANSI color output.
--xml	To output help as XML

Available tasks:

:help	Displays help for a task
:list	Lists tasks
app	
:routes	Displays current routes for an application
cache	
:clear	Clears the cache (cc)
configure	
:author	Configure project author
:database	Configure database DSN
doctrine	
:migration	Run doctrine migrations

Déboguer plus vite

mega shop

Catalogue

Mon Compte

CGV

Sf 1.4.8 config view logs 7680.0 KB 780 ms 4

Web Debug Toolbar

Connexion

Login:

Password:

Brown Shoes

SHOES-12345 - 125,50 € - 10 produits disponibles



Sed lacus. Donec lectus. Nullam pretium nibh ut turpis. Nam bibendum. In nulla tortor, elementum vel, tempor at, varius non, purus.

Mauris vitae nisl nec consectetur. Donec ipsum. Proin imperdiet est. Phasellus dapibus semper urna. Pellentesque ornare, orci in consectetur hendrerit, urna elit eleifend nunc, ut consectetur nisl felis ac diam. Etiam non felis.

Men Shoes

SHOES-67890 - 98,00 € - Plus de stock



Sed lacus. Donec lectus. Nullam pretium nibh ut turpis. Nam bibendum. In nulla tortor, elementum vel, tempor at, varius non, purus. Mauris vitae nisl nec consectetur. Donec ipsum. Proin imperdiet est. Phasellus dapibus semper urna. Pellentesque ornare, orci in consectetur hendrerit, urna elit eleifend nunc, ut consectetur nisl felis ac diam. Etiam non felis.

Un Produit Au Hasard



Mauris vitae nisl nec metus placerat consectetur. Donec ipsum. Proin Imperdiet est...

Your Shopping Cart

Your cart is empty

DOCTRINE VERSION: 1.2.3

1. `SET NAMES 'UTF8'`

0.00s, "doctrine" connection

2. `SELECT COUNT(*) AS num_results FROM (SELECT s.id FROM shop_products s LEFT JOIN shop_product_photo s2 ON s.id = s2.product_id WHERE s.is_published = '1' GROUP BY s.id) dctrn_count_query`

0.00s, "doctrine" connection

3. `SELECT DISTINCT s3.id FROM shop_product s3 LEFT JOIN shop_product_photo s4 ON s3.id = s4.product_id WHERE s3.is_published = '1' LIMIT 10`

0.00s, "doctrine" connection

4. `SELECT s.id AS s__id, s.reference AS s__reference, s.name AS s__name, s.description AS s__description, s.stock AS s__stock, s.price AS s__price, s.is_published AS s__is_published, s.created_at AS s__created_at, s.updated_at AS s__updated_at, s.slug AS s__slug, s2.id AS s2__id, s2.product_id AS s2__product_id, s2.photo AS s2__photo, s2.created_at AS s2__created_at, s2.updated_at AS s2__updated_at FROM shop_product s LEFT JOIN shop_product_photo s2 ON s.id = s2.product_id WHERE s.id IN ('676', '677', '678', '680', '681', '682', '683', '684', '685', '686') AND (s.is_published = '1')`

0.48s, "doctrine" connection

❖ Requêtes SQL

❖ Logs

❖ Variables d'environnement (`$_GET`, `$_POST`, `$_COOKIE`...)

❖ Configuration de PHP

❖ Timers

❖ Variables de configuration de Symfony



Unable to find the ShopProduct object with the following parameters "array ('sf_culture' => 'fr', 'slug' => 'brown-shoes-xxx', 'sf_format' => 'html',)".

stack trace

```
1. at ()  
   in SF_ROOT_DIR/lib/vendor/symfony/lib/routing/sfObjectRoute.class.php line 111 ...  
  108.     // check the related object  
  109.     if (!($this->object = $this->getObjectForParameters($this->parameters)) && (!isset($this->option  
  110.     {  
  111.         throw new sfError404Exception(sprintf('Unable to find the %s object with the following paramet  
  112.     }  
  113.  
  114.     return $this->object;
```



2. at sfObjectRoute->getObject()
 in SF_ROOT_DIR/apps/frontend/modules/product/actions/actions.class.php line 31 ...
3. at productActions->executeShow(object('sfWebRequest'))
 in SF_ROOT_DIR/lib/vendor/symfony/lib/action/sfActions.class.php line 60 ...
4. at sfActions->execute(object('sfWebRequest'))
 in SF_ROOT_DIR/lib/vendor/symfony/lib/filter/sfExecutionFilter.class.php line 92 ...
5. at sfExecutionFilter->executeAction(object('productActions'))
 in SF_ROOT_DIR/lib/vendor/symfony/lib/filter/sfExecutionFilter.class.php line 78 ...
6. at sfExecutionFilter->handleAction(object('sfFilterChain'), object('productActions'))
 in SF_ROOT_DIR/lib/vendor/symfony/lib/filter/sfExecutionFilter.class.php line 42 ...
7. at sfExecutionFilter->execute(object('sfFilterChain'))
 in SF_ROOT_DIR/lib/vendor/symfony/lib/filter/sfFilterChain.class.php line 53 ...
8. at sfFilterChain->execute()
 in SF_ROOT_DIR/lib/vendor/symfony/lib/filter/sfRenderingFilter.class.php line 33 ...
9. at sfRenderingFilter->execute(object('sfFilterChain'))
 in SF_ROOT_DIR/lib/vendor/symfony/lib/filter/sfFilterChain.class.php line 53 ...
10. at sfFilterChain->execute()
 in SF_ROOT_DIR/lib/vendor/symfony/lib/controller/sfController.class.php line 238 ...
11. at sfController->forward('product', 'show')
 in SF_ROOT_DIR/lib/vendor/symfony/lib/controller/sfFrontWebController.class.php line 48 ...

Stack traces

Déboguer plus vite (Symfony2)

Symfony Profiler

http://www.sandbox.local:80/app_dev.php by Sun, 07 Nov 2010 13:11:46 +0100

symfony 2.0.0-DEV php 5.3.3|xdebug|accel app|dev|debug 4cd69782c4992 homepage|html|200{text/html} disabled 0 218 ms 9472 KB

Request

No GET parameters

No POST parameters

No cookies

Requests Headers

Key	Value
host	www.sandbox.local
user-agent	Mozilla/5.0 (Macintosh; U; Intel Mac OS X 10_6_4; fr-fr) AppleWebKit/533.18.1 (KHTML, like Gecko) Version/5.0.2 Safari/533.18.5
accept	application/xml,application/xhtml+xml,text/html;q=0.9,text/plain;q=0.8,image/png,*/*;q=0.5
accept-language	fr-fr
accept-encoding	gzip, deflate
connection	keep-alive

Requests Server Parameters

Key	Value
UNIQUE_ID	TNaXgn8AAEAAAduRVsAAAAE
HTTP_HOST	www.sandbox.local
HTTP_USER_AGENT	Mozilla/5.0 (Macintosh; U; Intel Mac OS X 10_6_4; fr-fr) AppleWebKit/533.18.1 (KHTML, like Gecko) Version/5.0.2 Safari/533.18.5
HTTP_ACCEPT	application/xml,application/xhtml+xml,text/html;q=0.9,text/plain;q=0.8,image/png,*/*;q=0.5
HTTP_ACCEPT_LANGUAGE	fr-fr

Profiler

Search

IP

URL

Token

Limit

Admin

» Purge

» Export

» Import

Choisir le fichier aucun sélectionné

Journalisation des logs

```
Nov 06 10:10:52 symfony [info] {productActions} Call "productActions->executeShow()"  
Nov 06 10:10:52 symfony [info] {Doctrine_Connection_Mysql} exec : SET NAMES 'UTF8' - ()  
Nov 06 10:10:52 symfony [info] {Doctrine_Connection_Statement} execute : SELECT s.id AS s__id, s.reference AS s__reference, s.name AS s__name, s.description AS s__description, s.stock AS s__stock, s.price AS s__price, s.is_published AS s__is_published, s.created_at AS s__created_at, s.updated_at AS s__updated_at, s.slug AS s__slug, s2.id AS s2__id, s2.product_id AS s2__product_id, s2.photo AS s2__photo, s2.created_at AS s2__created_at, s2.updated_at AS s2__updated_at FROM shop_product s LEFT JOIN shop_product_photo s2 ON s.id = s2.product_id WHERE (s.is_published = ? AND s.slug = ?) - (1, brown-shoes-xxx)  
Nov 06 10:10:52 symfony [err] {sfError404Exception} Unable to find the ShopProduct object with the following parameters "array ( 'sf_culture' => 'fr', 'slug' => 'brown-shoes-xxx', 'sf_format' => 'html', )"  
. .  
Nov 06 10:10:52 symfony [info] {sfWebResponse} Send status "HTTP/1.1 404 Not Found"  
Nov 06 10:10:52 symfony [info] {sfWebResponse} Send header "Content-Type: text/html; charset=utf-8"  
Nov 06 10:10:52 symfony [info] {sfWebDebugLogger} Configuration 1.73 ms (8)  
Nov 06 10:10:52 symfony [info] {sfWebDebugLogger} Factories 8.74 ms (1)  
Nov 06 10:10:52 symfony [info] {sfWebDebugLogger} Action "product/show" 43.04 ms (1)  
Nov 06 10:10:52 symfony [info] {sfWebDebugLogger} Database (Doctrine) 0.01 ms (2)
```

❖ Requêtes SQL, en-têtes envoyés, exceptions attrapées...

Simplifier les déploiements

Déploiement automatisé avec une connexion RSYNC / SSH

```
$ php symfony project:deploy production --go
```

Configuration des serveurs de déploiement dans un fichier INI

```
[production]
host=123.456.7.8
user=hhamon
port=22
path=/var/www/www.monsite.com
```



2.

Favoriser le travail en équipe

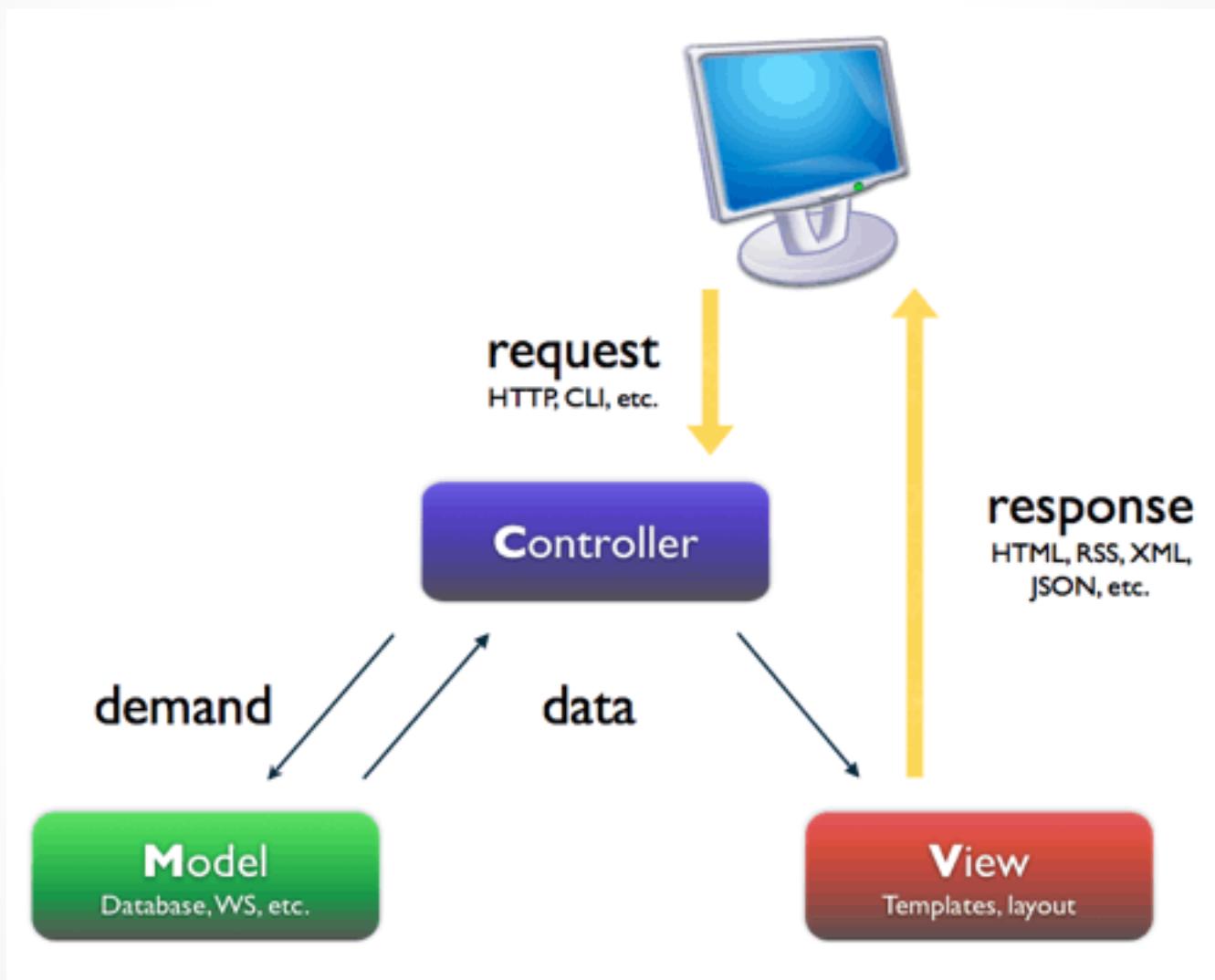
Arborescence connue

```
$ tree -L 1 -F
```

```
•  
| -- apps/  
| -- cache/  
| -- config/  
| -- data/  
| -- lib/  
| -- log/  
| -- plugins/  
| -- symfony*  
| -- test/  
`-- web/  
  
9 directories, 1 file
```

- Applications
- Cache
- Configuration globale
- Données du projet
- Classes PHP
- Journaux de logs
- Plugins installés
- Tests automatisés
- Fichiers publics

Architecture MVC



Couche Contrôleur :

```
# apps/frontend/modules/post/actions/actions.class.php
class postActions extends sfActions
{
    public function executeIndex(sfWebRequest $request)
    {
        $this->posts = PostTable::getInstance()->getMostRecent(10);
    }
}
```

Couche Vue :

```
# apps/frontend/modules/post/templates/indexSuccess.php
<?php foreach ($posts as $post) : ?>
<h2><?php echo $post->getTitle() ?></h2>
<div class="content">
    <?php echo simple_format_text($post->getContent()) ?>
</div>
<?php endforeach ?>
```

Couche Modèle (Doctrine ORM) :

```
# lib/model/doctrine/PostTable.class.php
class PostTable extends Doctrine_Table
{
    public function getMostRecent($limit)
    {
        return $this->
            createQuery('a')->
            where('a.is_published = ?', true)->
            orderBy('a.published_at desc')->
            limit($limit)->
            execute();
    }
}
```



3.

Ne pas réinventer la roue

Configuration des URLs

URL PHP

~~http://www.domain.tld/blog.php?action=show&id=12546~~

URL Symfony

http://www.domain.tld/blog/2010/11/09/symfony-rocks

- Optimisation pour les SEO
- Faciles à bookmarker, mémoriser ou échanger
- Masquent l'implémentation technique

Configuration YAML des URLs

signin:

```
url:   /:sf_culture/login
param: { module: authentication, action: login }
requirements: { sf_culture: (?:en|fr) }
```

signout:

```
url:   /:sf_culture/logout
param: { module: authentication, action: logout }
requirements: { sf_culture: (?:en|fr) }
```

my_account:

```
url:   /:sf_culture/account
param: { module: home, action: showAccount }
requirements: { sf_culture: (?:en|fr) }
```

products:

```
url:   /:sf_culture/shop/:page
param: { module: product, action: index, page: 1 }
requirements: { sf_culture: (?:en|fr), page: \d+ }
```

Accès aux bases de données



- Projets matures
- Pilotés par F. Zaninotto & J. Wage
- Abstraction de BDD & ORM

- Couche basse : PDO
- Nombreuses BDD supportées
- Génération de code et behaviors
- API abstraite et OO de requêtes SQL
- Migrations

ORM / Active Record

```
$speaker = new Speaker();
$speaker->setFirstName('Hugo');
$speaker->setLastName('Hamon');
```

```
$conference = new Conference();
$conference->setSpeaker($speaker);
$conference->setTitle('Introduction à symfony');
$conference->setSchedule('2010-11-10 09:00:00');
$conference->save();
```

Sauvegarde des deux enregistrements en BDD

Traitement des formulaires

- Simplifier la création et la validation des formulaires
- API entièrement orientée objet
- Flexible et extensible
- Intégration avec les ORMs
- Nombreux validateurs et « widgets » livrés
- Simplicité d'utilisation pour les intégrateurs web

```
class ContactForm extends sfForm
{
    public function configure()
    {
        $this->setWidgets(array(
            'email'    => new sfWidgetFormInputText(),
            'message'  => new sfWidgetFormTextarea()
        ));

        $this->setValidators(array(
            'email'    => new sfValidatorEmail(),
            'message'  => new sfValidatorString()
        ));
    }

    $this->widgetSchema->setNameFormat('contact[%s]');
}
```

```
class contactActions extends sfActions
{
    public function executeProcessForm(sfWebRequest $request)
    {
        $this->forward404Unless($request->getMethod('post'));

        $this->form = new ContactForm();
        $this->form->bind($request->getParameter('contact'));

        if ($this->form->isValid())
        {
            $values = $this->form->getValues();

            // ... do something

            $this->redirect('contact/thankYou');
        }
    }
}
```

I18N & L10N

- Sites multilingues
- Formatage de dates, monnaies, nombres...
- Gestion des pluriels
- Localisation des chaînes de l'interface
- Support des tables I18N par les ORMs
- Gestion automatique de la culture de l'utilisateur



I18N & L10N

```
<p>
  <?php echo __('Hello, my name is %name%', array(
    '%name%' => 'Hugo'
  )) ?>.
</p>

<p>
  It costs <?php echo format_currency(125990, 'EUR') ?>.
</p>

<p>
  There are <?php echo format_number(1350) ?> people here.
</p>
```

Authentification et ACLs

- Authentification de l'utilisateur

```
$user->setAuthenticated(true);  
$user->isAuthenticated();
```

- Gestion des droits d'accès

```
$user->addCredentials(array('AUTHOR', 'PUBLISHER'));  
$user->hasCredential('PUBLISHER');
```



Envoi d'emails

- Intégration de Swift Mailer
- API orientée objet
- Flexible et extensible
- Support des files d'attente de mails
- Entièrement configurable
- Intégration avec les ORMs



Envoi d'emails

```
$mail = $this->getMailer()->compose(  
    'you@example.com',  
    'me@example.com',  
    'Hell You!',  
    "Hey guy, what's up ?"  
);  
  
$mail->setPriority(3);  
$mail->attach(Swift_Attachment::fromPath('file.pdf'));  
  
$this->getMailer()->send($mail);
```

Le mailer est entièrement configurable

XSS privilege
escalation

CSRF

SQL injection

4.

Sécurité de l'application

Sécurité

- ❑ Echappement automatique des variables de vue
- ❑ Sécurisation des formulaires avec des jetons uniques
- ❑ Requêtes préparées par les ORMs

```
$speaker = Doctrine_Query::create()->  
from('Speaker s')->  
where('s.last_name LIKE ?', '%Hamon%')->  
fetchOne();
```

Configuration d'Apache

□ Accès au répertoire web/ depuis un navigateur

```
<VirtualHost *:80>
    ServerName www.my-domain.com
    DocumentRoot "/path/to/SymfonyProject/web"
    <Directory "/path/to/SymfonyProject/web">
        AllowOverride All
        Allow from All
    </Directory>

    Alias /sf /path/to/SymfonyProject/lib/vendor/symfony/data/web/sf
    <Directory "/path/to/SymfonyProject/lib/vendor/symfony/data/web/sf">
        AllowOverride All
        Allow from All
    </Directory>
</VirtualHost>
```

USER LIST

<input type="checkbox"/> Username	Created at	Updated at	Last login	Actions
<input type="checkbox"/> hugo	29 octobre 2010 12:39	7 novembre 2010 16:41	7 novembre 2010 16:41	 Modifier Supprimer
<input type="checkbox"/> staff	29 octobre 2010 14:30	29 octobre 2010 14:39	29 octobre 2010 14:39	 Modifier Supprimer
<input type="checkbox"/> commercial	29 octobre 2010 14:30	29 octobre 2010 14:50	29 octobre 2010 14:50	 Modifier Supprimer
<input type="checkbox"/> stagiaire	29 octobre 2010 14:31	29 octobre 2010 14:51	29 octobre 2010 14:51	 Modifier Supprimer

4 résultats

Choisir une action

Nouveau

First name	<input type="text"/>
	<input type="checkbox"/> is empty
Last name	<input type="text"/>
	<input type="checkbox"/> is empty
Email address	<input type="text"/>
Username	<input type="text"/>
Algorithm	<input type="text"/>
Salt	<input type="text"/>
	<input type="checkbox"/> is empty
Password	<input type="text"/>
	<input type="checkbox"/> is empty
Is active	<input type="text"/> yes or no
Is super admin	<input type="text"/> yes or no
Last login	from <input type="text"/> / <input type="text"/> / <input type="text"/> to <input type="text"/> / <input type="text"/> / <input type="text"/>
	<input type="checkbox"/> is empty

5.

Générer des backoffices

Admin Generator

- Génération de backoffice
- Filtres de recherche
- Liste
- Pagination
- Ajout
- Entièrement configurable
- Modification
- Gestion des droits d'accès
- Suppression

Admin Generator

```
$ php symfony doctrine:generate-admin backend Product
```

GESTION DES PRODUITS

Bienvenue sur l'administration des produits.

<input type="checkbox"/> Nom du produit	Référence	Prix	Stock	Actions
<input type="checkbox"/> Men shoes (SHOES-67890) – Stock (0) – Prix: 98.00 euro.				Détacher Supprimer
Sed lacus. Donec lectus. Nullam pretium nibh ut turpis. Nam bibendum. In nulla tortor, elementum vel, tempor at, varius non, purus. Mauris vitae nisl nec consectetur. Donec ipsum. Proin imperdier est. Phasellus dapibus semper urna. Pellentesque ornare, orci in consectetur hendrerit, urna elit eleifend nunc, ut consectetur nisl felis ac diam. Etiam non felis.	Shoes for men			

<input type="checkbox"/> Black pants (PANTS-45273) – Stock (2) – Prix: 34.90 euro.	Sed lacus. Donec lectus. Nullam pretium nibh ut turpis. Nam bibendum. In nulla tortor, elementum vel, tempor at, varius non, purus. Mauris vitae nisl nec consectetur. Donec ipsum. Proin imperdier est. Phasellus dapibus semper urna. Pellentesque ornare, orci in consectetur hendrerit, urna elit eleifend nunc, ut consectetur nisl felis ac diam. Etiam non felis.	Détacher Supprimer

Nom du produit	<input type="text"/>
Référence	<input type="text"/>
Stock	<input type="text"/>
Prix	<input type="text"/>
Catégories	<input type="checkbox"/> Shoes for girls <input type="checkbox"/> Shoes for men <input type="checkbox"/> Jackets <input type="checkbox"/> Pants and Jea
<input type="button" value="Effacer"/> <input type="button" value="Filtrer"/>	

Configuration en YAML

```
generator:
  class: sfDoctrineGenerator
param:
# ...
config:
  actions:
    _edit: { credentials: [ADMIN_PRODUCTS] }
  fields:
    name: { label: Nom du produit }
    reference: { label: Référence }
    price: { label: Prix }
    is_published: { label: Publication ? }
    categories_list: { label: Catégories }
  list:
    batch_actions:
      unlinkCategories:
        credentials: [[ADMIN_PRODUCTS, EDIT_PRODUCT]]
        label: Rendre orphelins
    _delete:
      credentials: [ADMIN_PRODUCTS]
```

6.

Etendre les fonctionnalités



Ligne de commandes

- Le framework de tâches automatisées peut accueillir de nouvelles commandes personnalisées.

```
generate
:app           Generates a new application
:module        Generates a new module
:project       Generates a new project
:task          Creates a skeleton class for a new task

guard
:add-group    Adds a group to a user
:add-permission Adds a permission to a user
:change-password Changes the password of the user
:create-user   Creates a user
:promote       Promotes a user as a super administrator

i18n
:extract      Extracts i18n strings from php files
:find         Finds non "i18n ready" strings in an application
```

Ligne de commandes

```
class sfGuardAddPermissionTask extends sfBaseTask
{
    protected function configure()
    {
        // ...

        $this->namespace = 'guard';
        $this->name = 'add-permission';
        $this->briefDescription = 'Adds a new permission';
    }

    protected function execute($arguments = array(),
        $options = array())
    {
        // ...
    }
}
```

Plugins communautaires

- Près d'un millier de plugins disponibles
- Faciles à installer et à utiliser



sfErrorNotifierPlugin
MIT sf 1.4 sf 1.3 sf 1.2

53 users

Sends email notifications when application errors (exceptions) occur. Its easy configuration allows you to set which environments to enable for the notifications. The details about the thrown exceptions are sent via email.



sfFacebookConnectPlugin
MIT sf 1.4 sf 1.3 sf 1.2 sf 1.1 sf 1.0

52 users

The sfFacebookConnectPlugin provides multiples functionalities geared both at making Facebook Connect integration in a symfony website easy and also help develop Facebook applications. This is achieved by smoothly connecting sfGuard (Doctrine AND Propel) with Facebook and helping developers program without worrying about whether the application is FBML or IFrame/Facebook Connect.



7.

Garantir la qualité du code.

Tests unitaires

- ❑ Symfony 1.x : Lime
- ❑ Symfony 2.x : PHPUnit 3.5
- ❑ Vérifier que le code est correct
- ❑ Faciliter la détection des bogues et des régressions
- ❑ Documenter le code

Tests unitaires

```
Hugo:sfShop Hugo$ ./symfony test:unit
model/doctrine/ShopProductTableTest.....ok
model/doctrine/ShopProductTest.....ok
myUserTest.....not ok
      Failed tests: 7
Failed Test          Stat  Total   Fail  Errors  List of Failed
-----
myUserTest           0     14      1      0    7
Failed 1/3 test scripts, 66.67% okay. 1/26 subtests failed, 96.15% okay.
Hugo:sfShop Hugo$ |
```

```
Hugo:sfShop Hugo$ ./symfony test:unit
model/doctrine/ShopProductTableTest.....ok
model/doctrine/ShopProductTest.....ok
myUserTest.....ok
All tests successful.
Files=3, Tests=26
Hugo:sfShop Hugo$ |
```

Tests fonctionnels

- ❑ Vérifier les fonctionnalités de l'application
- ❑ Simuler un scénario de navigation sur le site
- ❑ Tester toutes les couches (request, response, user...)
- ❑ API qui simule un véritable navigateur web
- ❑ Syntaxe verbeuse et intuitive

Tests fonctionnels

```
include(dirname(__FILE__).'/../../bootstrap/functional.php');

$browser = new sfTestFunctional(new sfBrowser());

$browser->
    get('/en/contact')->

    with('response')->isStatusCode(200)->

    click('send', array(
        'contact' => array(
            'name' => '',
            'email' => 'foo',
            'message' => 'Lorem ipsum...'
        )
    ), array('_with_csrf' => true));
```

Tests fonctionnels

```
# get /en/contact
ok 1 - status code is 200
ok 2 - response selector h1 matches regex /Contact/
# post /en/contact
ok 3 - the submitted form has some errors.
ok 4 - the submitted form has a name error (required).
ok 5 - the submitted form has a email error (invalid).
# post /en/contact
ok 6 - the submitted form is valid.
ok 7 - mailer sent 1 email(s).
ok 8 - email body matches /Lorem ipsum/
ok 9 - ShopContactMessage objects that matches the criteria have been found
ok 10 - page redirected to http://localhost/index.php/en/contact
ok 11 - response selector #content div.notice exists
1..11
# Looks like everything went fine.
Hugo:sfShop Hugo$ |
```



8.

Performances & scalabilité

Rôle du cache de symfony

- ❑ Cache de la configuration YAML
- ❑ Cache des dictionnaires de traduction XLIFF
- ❑ Cache des pages HTML
- ❑ Cache des requêtes SQL (Doctrine)
- ❑ => Répondre plus vite à une requête HTTP

Cache de Symfony2

- ❑ Cache HTTP
- ❑ Très performant
- ❑ Plus flexible
- ❑ Performances accrues avec un Reverse Proxy
- ❑ Support des ESI – Edge Side Includes – RFC 2616

Surcharge du cœur

- ❑ Possibilité de redéfinir la configuration de symfony
- ❑ Ex : Request, Response, User, Cache, I18N, Mailer...

```
dev:  
  mailer:  
    param:  
      delivery_strategy: none  
    transport:  
      class: Swift_NullTransport
```



9.

Contribuer à Symfony

Contribuer au projet

- Documentation (blog, traductions...)
- Canaux de discussion (IRC, forums, mailing lists, twitter)
- Code source (patch, bogues)
- Plugins
- Conférences
- Bouche à oreille



On recrute !

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