

symfony

Open Source Enterprise Framework

Introduction

- Ian P. Christian, aka 'pookey'
- This presentation is not flashy
 - No transition effects!
 - No animations
 - Not even a graphic of a sad face to put here :(
- Sorry, I'm going to have to rush!
 - Lots to get through
 - I won't even have time to read this bullet point out

Presentation Outline

- About symphony & its history
- Technical stuff
- Demonstration
- Case Studies
- The Future
- Questions and Answers

Main Selling Points

- Documentation
- Configurability
- Security
- Debugging Tools
- Functional Tests
- Deployment Tools
- Extensibility (plugins)
- Admin Generator
- OR/M
(Doctrine/Propel)
- i18n/l10n
- 1.0 will be maintained for a long time!

About symfony

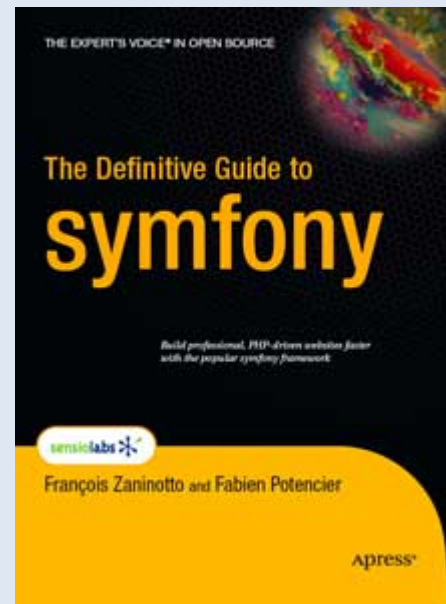
- Created by Sensio
 - Founded in 1998
 - 150 people
 - 30 people dedicated to web technologies
- Very free License: MIT
 - Do whatever you want with it
 - Just leave the copyrights
- PHP5 Framework
- Open Source
- Based on 9 years of Sensio experience
- Based on well-known projects (Mojovi, Propel, Prado)

symfony Goals

- Develop Faster!
 - Every line of code has a cost
 - Writing it
 - Testing it
 - Maintaining it
- Less code means less cost!

Documentation and the Community

- Growing community
- Open Source Documentation
- Active and friendly community



The Technical Stuff

Installing and Using symfony

Installing symfony

Installing couldn't be easier!

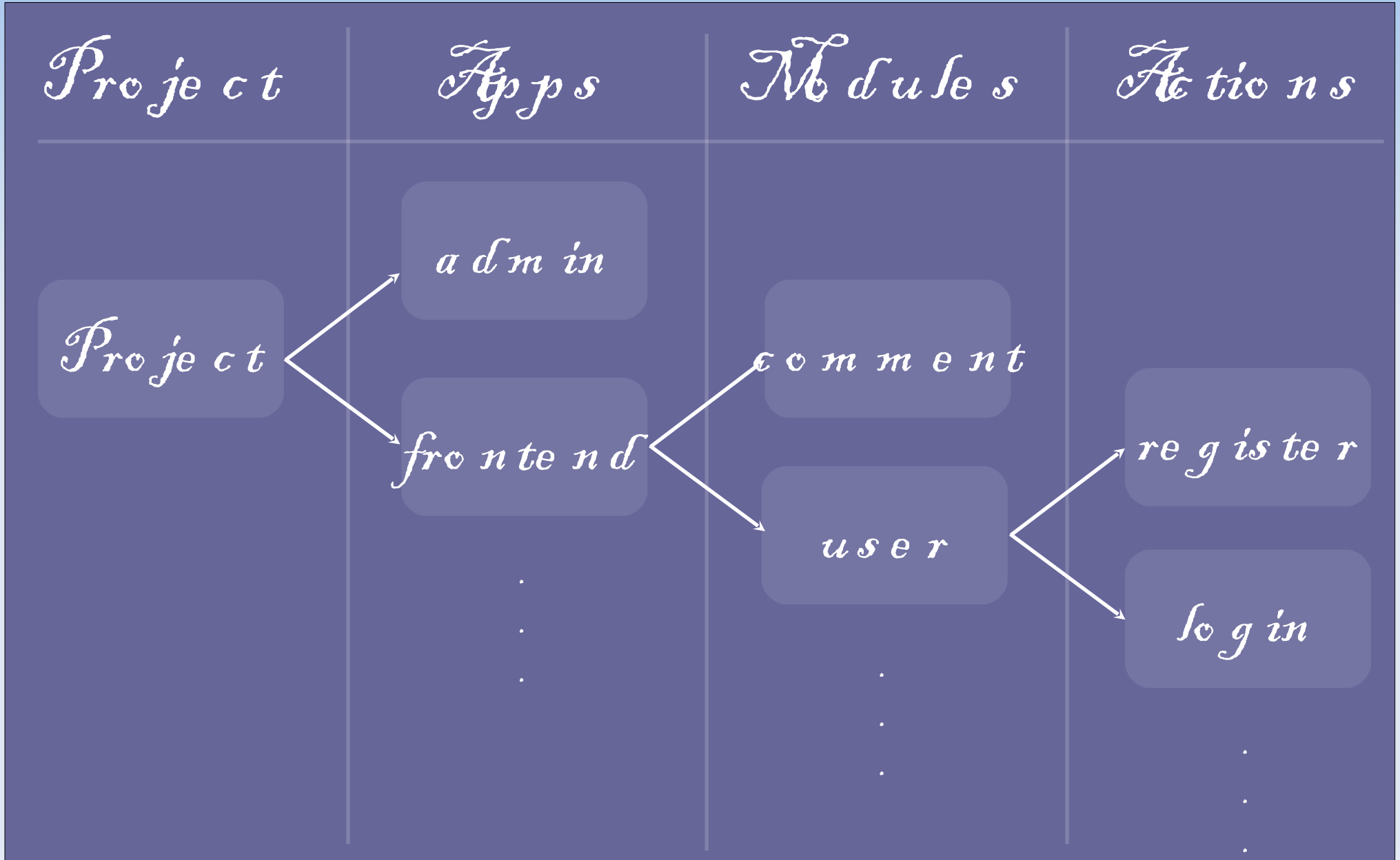
```
$ pear channel-discover pear.symfony-project.com
```

```
$ pear install symfony/symfony
```

Other installation methods:


- SVN
- Sandbox
- SuSE/Debian Packages

symfony Project Organisation



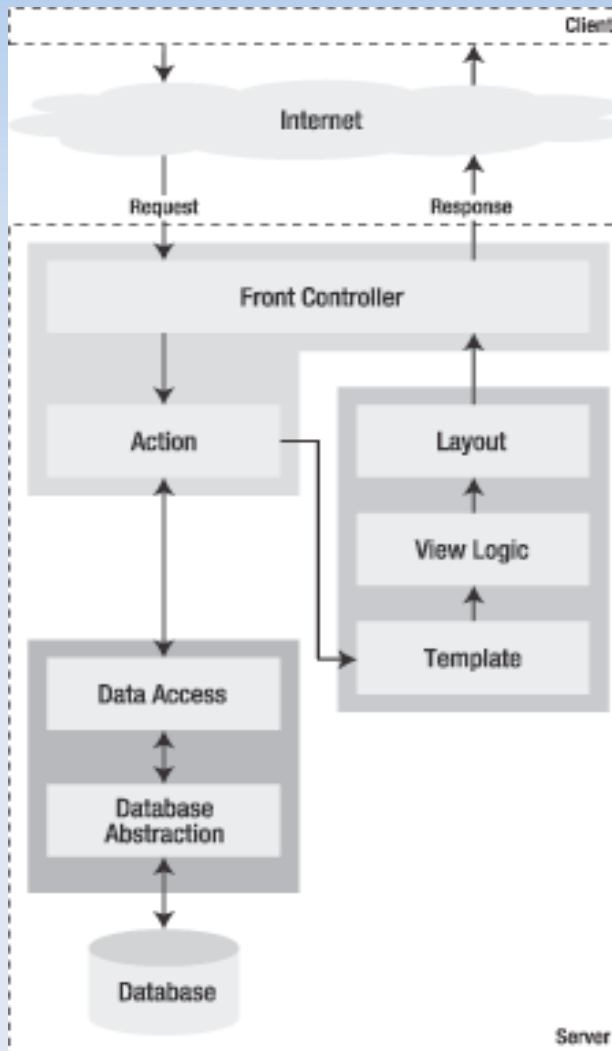
Directory Layout

```
project/  
  apps/  
    frontend/  
      config/  
      i18n/  
      lib/  
      modules/  
        comment/  
        user/  
          actions/  
            actions.class.php  
          config/  
          lib/  
          templates/  
            loginSuccess.php  
            registerSuccess.php  
          validate/  
        templates/  
          layout.php  
      backend/  
      batch/  
      cache/  
      config/  
      data/  
      doc/  
      lib/  
      log/  
      plugins/  
      test/  
      web/  
      symfony
```



```
<?php  
class userActions extends sfActions  
{  
    public function executeLogin()  
    {  
    }  
  
    public function executeRegister()  
    {  
    }  
}
```

symfony Workflow



symfony

and now.....

....the demo!

(this is where I might have to rush!)

create a project

```
$ symfony init-project phplondon
```

```
$ symfony init-application frontend
```

```
$ symfony init-module frontend reason
```

The welcome screen



Symfony Project Created

Congratulations! You have successfully created your symfony project.




Project setup successful

This project uses the symfony libraries. If you see no image in this page, you may need to configure your web server so that it gains access to the `symfony_data/web/sf/` directory.

This is a temporary page

This page is part of the symfony default module. It will disappear as soon as you define a homepage route in your `routing.yml`.

What's next

-  Create your data model
-  Customize the layout of the generated templates
-  [Learn more from the online documentation](#)

Module created!







Module "task" created

Congratulations! You have successfully created a symfony module.

This is a temporary page

This page is part of the symfony default module. It will disappear as soon as you override the `index` action in the new module.

What's next

-  Browse to the `apps/frontend/modules/task/` directory
-  In `actions/actions.class.php`, edit the `executeIndex()` method and remove the final forward
-  Customize the `templates/indexSuccess.php` template
-  [Learn more from the online documentation](#)

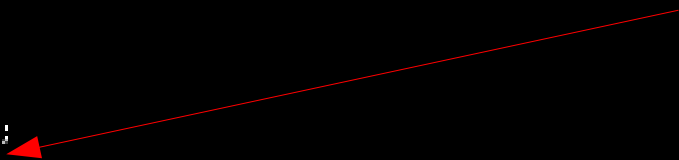
Model (Propel)

```
+ test.php
<?php

# lib/model/Author.php
class Author extends BaseAuthor
{
    function getFullName()
    {
        return $this->getFirstName() . ' ' . $this->getLastName();
    }
}

$author = new Author();
$author->setFirstName('Ian');
$author->setLastName('Christian');
$author->save();

$task = new Task();
$task->setTitle('phplondon');
$task->setAuthor($author);
$task->setDescription('Finish my slides sometime before friday');
$task->save();
~
~
```



View/Template

```
a/f/m/r/t/viewSuccess.php
1 <h1 class="title">
2   <?php echo $reason->getTitle(); ?>
3 </h1>
4
5 <h2>
6   Created By: <?php echo $task->getAuthor()->getFullName(); ?>
7 </h2>
8
9 <p>
10  <?php echo $reason->getDescription(ESC_RAW); ?>
11 </p>
~
~
~
~
~
~
~
~
~
~
~
<es/reason/templates/viewSuccess.php" [New] 11L, 197C written 10,49  All
```

Automatically escaped

Not escaped

Functional Tests

```
pookey@emo /var/www/www3.pookey.co.uk/htdocs $ php test/functional/frontend/reasonActionsTest.php
# get /reason/view/id/1
not ok 1 - status code is 200
#     Failed test (/usr/share/php/symfony/test/sfTestBrowser.class.php at line 160)
#         got: 404
#         expected: 200
ok 2 - request parameter module is reason
ok 3 - request parameter action is view
not ok 4 - response selector h1.title matches regex /phplondon/
#     Failed test (/usr/share/php/symfony/test/sfTestBrowser.class.php at line 287)
#         ..
#         doesn't match '/phplondon/'
1..4
Looks like you failed 2 tests of 4.
pookey@emo /var/www/www3.pookey.co.uk/htdocs $
```

Create the Database

```
pookey@emo /var/www/www3.pookey.co.uk/htdocs $ cat config/schema.yml
propel:
  reason:
    id:
    title: varchar(255)
    description: longvarchar
    user_id:
  user:
    id:
    first_name: varchar(255)
    last_name: varchar(255)
    password: varchar(64)
pookey@emo /var/www/www3.pookey.co.uk/htdocs $ █
```

Create the layout

```
+ a/f/t/layout.php
1 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3
2 <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
3 <head>
4
5 <?php include_http_metas() ?>
6 <?php include_metas() ?>
7
8 <?php include_title() ?>
9
10 <link rel="shortcut icon" href="/favicon.ico" />
11
12 </head>
13 <body>
14
15 <div id="wrap">
16   <h1>Is My framework better then yours?</h1>
17
18   <?php echo $sf_data->getRaw('sf_content') ?>
19
20 </div>
21
22 </body>
23 </html>
"apps/frontend/templates/layout.php" [converted] 24L, 482C 3,1 All
```

Configuring the View

```
a/f/c/view.yml
1 default:
2   http metas:
3     content-type: text/html
4
5   metas:
6     title:      phplondon
7     robots:    index, follow
8     description: symfony project demo
9     keywords:  symfony, project, phplondon
10    language:   en
11
12  stylesheets:  [main]
13
14  javascripts:  []
15
16  has_layout:  on
17  layout:      layout
~
~
~
~
~
~
~
"apps/frontend/config/view.yml" [converted] 17L, 322C          9,5          All
```


Oh no! An error



Oops! An Error Occurred

The server returned a "500 Internal Server Error".

Something is broken

Please e-mail us at [email] and let us know what you were doing when this error occurred. We will fix it as soon as possible. Sorry for any inconvenience caused.

What's next

[Back to previous page](#)

[Go to Homepage](#)

Debugging

Log and debug messages | 1.0.8 | vars & config | logs & msgs | 1 | 2015.3 KB | 24 ms

[all] [none] [green] [yellow] [red] | sfAction | sfContext | sfController | sfCreole | sfFilter | sfRequest | sfRouting | sfView

#	type	message
1	Context	initialization
2	Controller	initialization
3	Routing	match route [default_index] <code>"/:module"</code>
4	Request	request parameters array ('module' => 'task', 'action' => 'index',)
5	Controller	dispatch request
6	Filter	executing filter <code>"sfRenderingFilter"</code>
7	Filter	executing filter <code>"sfWebDebugFilter"</code>
8	Filter	executing filter <code>"sfCommonFilter"</code>
9	Filter	executing filter <code>"sfFlashFilter"</code>
10	Filter	executing filter <code>"sfExecutionFilter"</code>
11	Action	call <code>"taskActions->executeIndex()"</code>
12	Creole	<code>connect():</code> DSN: array ('database' => '****', 'encoding' => '****', 'hostspec' => '****', 'password' => '****', 'persistent' => '****', 'phptype' => '****', 'port' => '****', 'protocol' => '****', 'username' => '****',), FLAGS: 0
13	Creole	<code>prepareStatement():</code> <code>SELECT task.ID, task.TITLE, task.DESCRPTION FROM task</code>
14	Creole	<code>executeQuery():</code> [0.13 ms] <code>SELECT task.ID, task.TITLE, task.DESCRPTION FROM task</code>
15	View	initialize view for <code>"task/index"</code>
16	View	render <code>"sf_app_dir/modules/task/templates/indexSuccess.php"</code>
17	View	decorate content with <code>"sf_app_dir/templates/layout.php"</code>
18	View	render <code>"sf_app_dir/templates/layout.php"</code>

The List Template

```
a/f/m/t/t/indexSuccess.php
1 <h2>Reasons why <?php echo sfConfig::get('app_frameworkname'); ?> rocks:-</h2>
2
3 <?php if (!count($reasons)): ?>
4 <p>
5     There are currently no reasons (which is shockingly untrue! quickly, add some!
6 </p>
7 <?php else: ?>
8 <ol>
9     <?php foreach($reasons as $reason): ?>
10    <li>
11        <?php echo $reason->getDescription(); ?>
12        <span class="actions">
13            <?php echo link_to('edit', 'task/edit?id='.$reason->getId()); ?>
14            /
15            <?php echo link_to('delete',
16                'task/delete?id='.$reason->getId(),
17                'confirm="Are you sure?");
18            ?>
19        </span>
20    </li>
21    <?php endforeach; ?>
22 </ol>
23 <?php endif; ?>
24
25 <?php echo form_tag('task/edit', 'method=get'); ?>
26 <p><input type="submit" value="Add New Reason" /></p>
27 </form>
```

JS confirmation

1,1 All

The Edit code

```
+ a/f/m/t/a/actions.class.php
22
23 public function executeEdit() {
24     $id = $this->getRequestParameter('id');
25     $this->task = $this->getTaskOrCreate($id);
26 }
27
28 public function getTaskOrCreate($id) {
29     $task = TaskPeer::retrieveByPk($id);
30     if (!$task)
31         $task = new Task();
32     return $task;
33 }
34 public function executeSave() {
35     $id = $this->getRequestParameter('id');
36     $task = $this->getTaskOrCreate($id);
37     $task->setDescription($this->getRequestParameter('description'));
38     $task->save();
39     $this->redirect('@homepage'); ← Named Route
40 }
41
42 public function handleErrorSave() {
43     $this->forward('task', 'edit'); ← Error Handler
44 }
-- INSERT --
```

39, 34 65%

The Validation

```
a/f/m/t/v/save.yml
```

```
1 fillin:
2   enabled: true
3
4 fields:
5   description:
6     required:
7       msg: You must provide a description
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
```

```
<rontend/modules/task/validate/save.yml" [converted] 7L, 105C 1,1
```

```
All
```

The Edit Template

```
a/f/m/t/t/editSuccess.php
1 <h2>Edit Reason / Add Reason</h2>
2
3 <?php if ($sf_request->hasErrors()): ?>
4   ERROR: <?php echo $sf_request->getError('description'); ?>
5 <?php endif; ?>
6
7 <?php echo form_tag('task/save'); ?>
8   <?php echo input_hidden_tag('id', $task->getId()); ?>
9   <?php echo input_tag('description', $task->getDescription(), 'size=50'); ?>
10  <?php echo submit_tag('Submit'); ?>
11 </form>
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
~
<modules/task/templates/editSuccess.php" [converted] 11L, 370C 7,1 All
```

The Delete code

```
+ a/f/m/t/a/actions.class.php
51
52
53 public function executeDelete()
54 {
55     $id = $this->getRequestParameter('id');
56     $task = TaskPeer::retrieveByPk($id);
57     $this->forward404Unless($task);
58     $task->delete();
59     $this->redirect('@homepage');
60 }
61
62 }
~
~
~
~
~
~
~
~
~
~
-- INSERT --
```

51,3 Bot

And now, the even easier way!

```
$ ./symfony propel-init-admin frontend Reason reason
```



The Admin Generator

Is My framework better than yours?

Task list

Id	Title	Description
1		moo
2		moo
3		moo
4		test
5		<h1>HTML!</h1>

5 results

 create

What I've not covered

- Routing
- Security
- i18n/l10n
- Doctrine
- View components
- View slots
- Autoloader
- Deployment Tools
- Filter Chain
- Admin generator
- CRUD generator
- Task system
- Caching
- 'AJAX' support
- Debugging

A quick note about plugins!

- sfGuardPlugin
- sfFacebookPlugin
- sfSimpleBlogPlugin
- sfSimpleForumPlugin
- sfSimpleCMSPlugin
- sfSimpleNewsPlugin
- sfFeedPlugin
- sfDoctrinePlugin
- sfXsltViewPlugin
- sfAuthroizeNetPlugin

Case Studies?

- VoIP
- Gradwell
- Yahoo!

The future – symfony 1.1!

- Many singletons removed
 - Allows for better unit testing (nearly 8000 tests!)
 - More flexibility
 - Removed dependencies between core classes
- Factories.yml allows you to swap out core components
- New Form/Validation framework
- Upgrade path from SF1.0
- compat_10

Thanks & Useful Links

Thanks goes to...

- Fabien Potencier / Sensio -
Parts of this presentation was based on his slides!
- Stefan Koopmanschap /
iBuildings – additional inspiration
- Joshua May – for letting me steal some slides
- Peter Bowyer / Maple Design
– proof reading
- VoIP.co.uk – for letting me have the day off work!

Useful Links

- pookey.co.uk
- pookey.co.uk/blog
- www.symfony-project.com
- blog.symfony-project.com