twitter: @akrabat

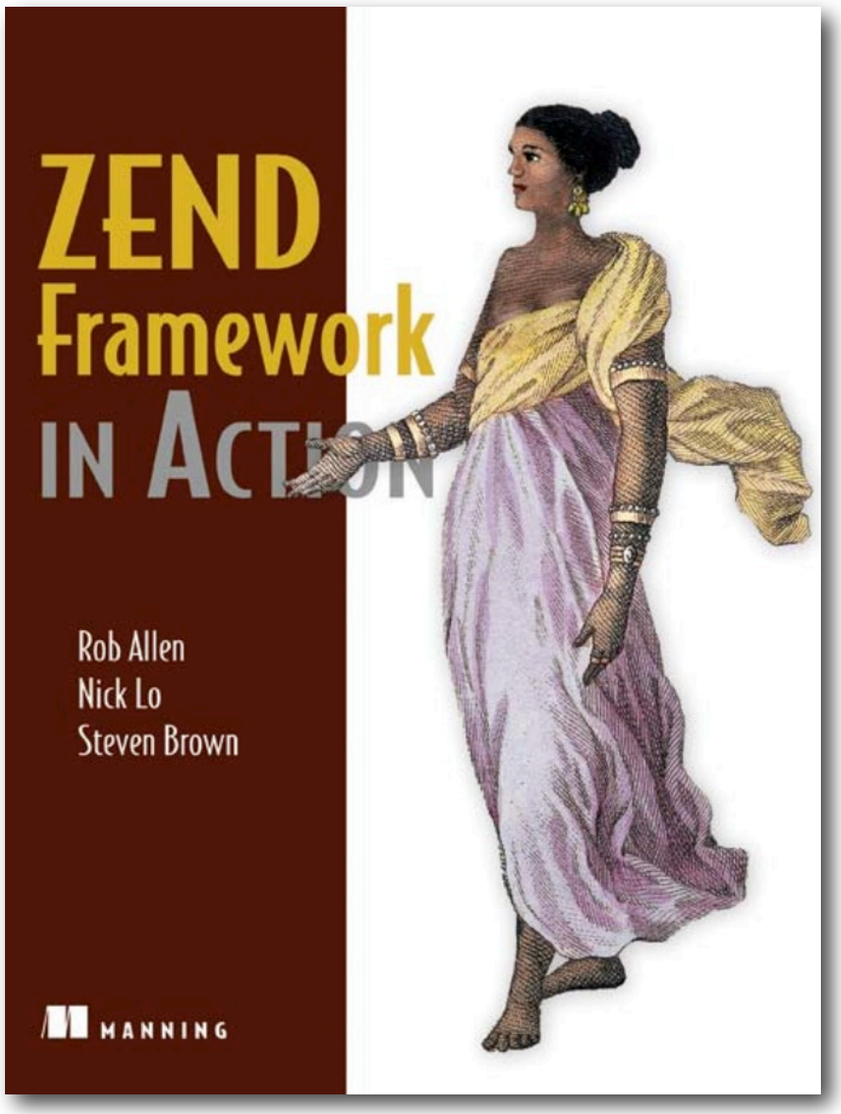
Zend Framework 2.0 What's new?

Rob Allen

PHPBenelux January 2011

Rob Allen?

- PHP developer since 1999
- Wrote Zend_Config
- Tutorial at akrabat.com
- Zend Framework in Action!



Next book!

Zend Framework 2 in Action

(with Ryan Mauger)

Zend Framework 1.0

How we got here

- Announced October 2005
- Mar 2006: v0.1 released: not a lot!
- July 2007: v 1.0: MVC + cool stuff!
- Mar 2008: v1.5: Form, Layout, Context
- Apr 2009: v1.8: Application, Tool, Nav
- Oct 2010: v1.11: To be released

Where we are today

- Zend Framework 1 core is complete
- New components, adapters and plugins are being added
- Widespread usage
- Plenty of help available

Problems with ZF1

- Learning curve
- Performance
- Too much “magic”
- Inconsistency between components

Zend Framework 2.0

“The primary thrust of ZF 2.0 is to make a more consistent, well-documented product, improving developer productivity and runtime performance.”

Matthew Weier O’Phinney

Think evolution,
not revolution

Zend Framework 2

Key goals

Ease learning curve

- Create better documentation
  - Cohesive tutorials
  - Reference manual
- Address API consistency
  - Options
  - Language

Easier extension

- Remove singletons
- Interfaces over abstract classes
- Remove hard-coded dependancies

Improve performance

- Aiming for 200%+ over ZF 1
- Deployment tools
  - Optimise for production
- Documentation

Simplify

- Focus on core components
- Make code readable
- Consistent APIs

Zend Framework 2

Key changes

"The general theme throughout these milestones is narrowing the scope of components, and ensuring a proper separation of concerns between components."

Matthew Weier O'Phinney

PHP 5.3 support

- Advance the use of PHP 5.3
- Namespaces
- Closures over create_function()

Namespaces

```php
// library/Nennius/Controller/Plugin/InitAdminLayout.php
<?php
namespace Nennius\Controller\Plugin;
use \Zend\Controller\Request\AbstractRequest as Request;
use \Zend\Controller\Plugin\AbstractPlugin as Plugin;

class InitAdminLayout extends Plugin
{
  public function dispatchLoopStartup(Request $request)
  {
    $fc = \Zend\Controller\Front::getInstance();
    $bootstrap = $fc->getParam('bootstrap');
    $layout = $bootstrap->layout;
    $controllerName = $request->getControllerName();
    if (substr($controllerName, 0, 5) == 'admin') {
        $layout->setLayout('admin');
    }
}
```

Autoloading

- No more require_once!
- Opt 1: Explicit namespace=>path pairs
  - doesn’t use of include path
  - ~40% performance gain!
- Opt 2: Classmap files
  - pre-built array map (for deployment)
  - ~150% performance gain!

Plugin loading

- Alias autoloading
  - map ‘alias’ to class that it represents
    - Interface for consistency (clients)
- Plugin broker (central operations)
- Mapping is simpler to explain!
- Much more performant! (up to 5x!)

Plugin loading

```
$broker = new Zend\View\HelperBroker();
$loader = $broker->getPluginLoader();

$loader->register('url', 'My\View\Helper\Url');

// get a Zend\View\Helper\BaseUrl
$baseUrlHelper = $broker->load('baseUrl');

// get a My\View\Helper\Url
$urlHelper  = $broker->load('url');
```

Exception handling

- Use SPL exceptions for specific catches
- Use an interface for component catches
- Can catch \Exception if you don’t care :)

Exceptions

```php
namespace My;
interface ExceptionInterface {}
class Exception implements ExceptionInterface {}
class InvalidArgument extends InvalidArgumentException
    implements ExceptionInterface {}
```

```php
try {
    $a = new A();
    $a->b($c);
}
catch (InvalidArgument $e) {
    die("Invalid arg happened\n");
}
catch (ExceptionInterface $e) {
    die("Some error happened\n");
}
```

MVC

- Refactor
  - Controller, dispatcher, hook points
  - View
- For performance and flexibility

Internationalisation

- Improve performance
- Use DateTime
- Fix inconsistencies with PHP's APIs
- Remove statics and global states

Zend Framework 2

Development process

git

- Smaller barrier to contribution
- Better branching and merging
- ZF's git guide: http://bit.ly/zfgit

Unit testing

- Write to /tmp only
- Separate out test asset classes
- Consistent usage of _files directory
- Lower memory/CPU usage

Community Review team

- Smooth the proposal process
- Assist new contributors
- “Fix” orphaned components
- Contact:
  - IRC: #zftalk.dev on freenode
  - Email: cr-team@zend.com

Milestones

- Autoloading & plugin loading [done]
- Exceptions [done]
- MVC [in progress]
- Testing
- Documentation [proposals in place]
- Internationalisation

When?

I have no idea!

Summary

- Play with the ZF2 snapshots
- Contribute
  - Report bugs!
  - Comment on proposals: http://bit.ly/zf2wiki
- Need help?
  - IRC: #zftalk on freenode
  - Mailing list
- Buy **Zend Framework 2 in Action**

  (when released!)

Questions?

feedback: http://joind.in/2487
email: rob@akrabat.com
twitter: @akrabat

Thank you

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