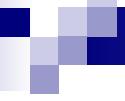


Introduction to the Zend Framework

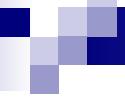
By Rob Allen

West Midlands PHP User Group
8th February 2007



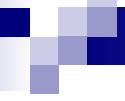
What this presentation will cover

- Overview of the Zend Framework
- Introduction to the ZF MVC System
- Hello World example
- The other ZF components



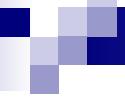
Who am I?

- Software engineer since 1995
- Started with PHP3 in 1999
- Contributor to the Zend Framework
- Written intro tutorial on www.akrabat.com
- Writing a book on the Zend Framework



Why Use the Zend Framework?

- (Will be) A full-stack framework
- Modern design: OO PHP 5
- Easy to learn
- Rapid development



Why Use the Zend Framework?

- Documented
- Vibrant community
- BSD license
- Free from IP disagreements

What's in the Zend Framework?

Core:

Zend_Controller
Zend_View
Zend_Db
Zend_Config
Zend_Filter
Zend_Session
Zend_Acl
Zend_Auth

Http

Zend_Http_Client/Server
Zend_Uri

Internationalization:

Zend_Date
Zend_Locale

Web Services

Zend_Feed
Zend_Gdata
Zend_Service_Amazon/Flickr/
Yahoo

Inter-application communication

Zend_Json
Zend_XmlRpc
Zend_Soap
Zend_Rest

Advanced

Zend_Cache
Zend_Search
Zend_Pdf
Zend_Mail/Zend_Mime

M-V-C

- Separation of control, display and business logic
- **M**odel: The "business logic"
- **V**iew: The pretty bit!
- **C**ontroller: The “glue”

M: Zend_Db_Table

- Table gateway
- Not an ActiveRecord!
- Uses Zend_Db abstraction layer

V: Zend_View

- PHP based like Savant
- Form Helpers
- Security via escape()
- Trivial to implement Smarty/PHPTAL

C: Zend_Controller_Front

- Front Controller pattern
- Request & Response provided
- URLs: /controller/action/p1/v1/p2/v2
- Flex points
 - RewriteRouter
 - Module support
 - Dispatcher

Show me some code!

- Highlights from *the Tutorial*
- Simple Music Album application
 - List albums
 - Add/edit/delete albums

Directory Structure

```
this_site/  
  /application  
    /controllers  
    /models  
    /views  
  /library  
    /Zend  
  /public  
    /images  
    /scripts  
    /styles
```

Bootstrap: index.php

```
// load configuration
$config = new Zend_Config_Ini('./application/config.ini',
    'general');
Zend::register('config', $config);

// setup database
$db = Zend_Db::factory($config->db->adapter,
    $config->db->config->asArray());
Zend_Db_Table::setDefaultAdapter($db);

// register the view we are going to use
$view = new Zend_View();
$view->setScriptPath('./application/views');
Zend::register('view', $view);
```

Aside: Config.ini

```
[general]
debug = false
db.adapter = PDO_MYSQL
db.config.host = localhost
db.config.username = rob
db.config.password = 123456
db.config.dbname = zftest
[dev : general]
debug = true
```

- Inherited Sections
- Nested namespaces: \$config->db->adapter

Bootstrap: index.php

```
// setup controller
$front = Zend_Controller_Front::getInstance();
$front->setControllerDirectory(
    './application/controllers');
$front->throwExceptions(true);

// run!
$front->dispatch();
```

Controller: IndexController.php

```
Class IndexController extends Zend_Controller_Action
{
    function indexAction()
    {
        $view = Zend::registry('view');
        $view->title = "My Albums";

        $album = new Album();
        $view->albums = $album->fetchAll();

        $view->actionTemplate = 'index/index.tpl.php';
        $this->_response->setBody(
            $view->render('site.tpl.php')) ;
    }
}
```

View: site.tpl.php

```
<html>
<head>
    <title><?php echo $this->escape($this->title); ?></title>
    <link rel="stylesheet" type="text/css" media="screen"
          href="/zf-tutorial/public/styles/site.css" />
</head>
<body>
    <div id="content">
        <?php echo $this->render($this->actionTemplate); ?>
    </div>
</body>
</html>
```

View: index/index.tpl.php

```
<h1><?php echo $this->escape($this->title); ?></h1>
<p><a href="/zf-tutorial/index/add">Add new album</a></p>
<table>
<tr><th>Title</th><th>Artist</th><th>&nbsp;</th></tr>
<?php foreach($this->albums as $album) : ?>
<tr>
    <td><?php echo $this->escape($album->title); ?></td>
    <td><?php echo $this->escape($album->artist); ?></td>
    <td><?php echo $this->EditandDelLinks($album->id); ?>
    </td>
</tr>
<?php endforeach; ?>
</table>
```

View Helper: Money

```
class Zend_View_Helper_money
{
    public function money($value)
    {
        $output = '';
        $value = trim($value);
        if(is_numeric($value)) {
            if($value >= 0) {
                $output = '&pound;' . number_format($value, 2);
            } else {
                $output = '-&pound;' .
                    number_format(substr($value, 1), 2);
            }
        }
        return $output;
    }
}
```

Model: Album.php

```
<?php  
class Album extends Zend_Db_Table  
{  
}  
}
```

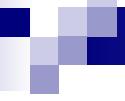
That's All!

The results

A screenshot of a Mozilla Firefox browser window titled "My Albums - Mozilla Firefox". The address bar shows the URL <http://localhost/zf-tutorial/>. The main content area displays a table of albums:

Title	Artist	
James Morrison	Undiscovered!	Edit Delete
Snow Patrol	Eyes Open	Edit Delete

At the bottom of the browser window, there is a status bar with the word "Done".



The other components

- Authentication
- Search
- PDF
- Email
- Caching
- Localisation
- Web Services
 - Google, Amazon, Yahoo! Flickr, etc