



Up-2-date: State of eZ Components

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About me

- Tobias Schlitt <toby@php.net>
- Qualified IT Specialist
- Studying CS at the TU Dortmund
- PHP since more than 7 years
- Open Source addicted and active
 - eZ Components
 - PEAR (currently inactive)
 - PHP / PHP projects in general

Agenda

- The basics
- Component overview
- Q/A – Discussion

The basics – Agenda

- Release info
- Target
- Project goals
- Licensing / contributing
- Setup

Release info

- Current stable: 2007.2
 - Next stable release mid of June
- Current beta: 2008.1beta1
 - Hot! Released yesterday!
 - Many additions to existing packages
 - 3 new components

Project target

- Migration to PHP 5.X (5.1.1)
- Thoroughly plan to get a top notch API
- Test driven development approach
- Proper docs from the start
- Flexibility and openness for the future

Project goals

- Solid platform for PHP application development
- Not a framework (don't force a structure)
- Clean and simple API
- Excellent docs
- Clean IP
- Open Source friendly

Licensing / Contributing

- New BSD
 - Open Source
 - Very permissive
 - GPL compatible
- CLA
 - Needs to be signed to contribute
 - Guarantees clean IP rights

Setup

- Retrieval
 - Download (<http://ez.no/ezcomponents/download>)
 - PEAR (channel: components.ez.no)
- Installation
 - Declare autoload function
 - Simply use the classes you want

Setup - Example

- Easy (without custom autoloading)

```
// Package
// require 'Base/src/ezc_bootstrap.php';
// PEAR
require 'Base/ezc_bootstrap.php';
```

- Easy, too (custom autoloading possible)

```
// Package
require 'Base/src/base.php';

function __autoload( $className )
{
    ezcBase::autoload( $className );
}
```

Components short overview

- Cache
- Configuration
- ConsoleTools
- Database
- Document
- Feed
- ImageConversion
- Mail
- PersistentObject
- Search
- Templates

Cache

- Multiple back-ends
 - File (serialize, var_export())
 - Memory (APC, Memcached)
- Hierarchical caching (2008.1)
 - Think about CPU caches

Cache example

```
$stack = new ezcCacheStack( 'stack' );

$stack->pushStorage(                                     // ezcCacheStorageFileArray
    new ezcCacheStackStorageConfiguration(
        'file', $fileStorage, 1000000, .5
    )
);

$stack->pushStorage(                                     // ezcCacheStorageApcPlain
    new ezcCacheStackStorageConfiguration(
        'apc', $apcStorage, 1000, .3
    )
);

$stack->options->replacementStrategy =
    'ezcCacheStackLfuReplacementStrategy';

$stack->store( 'id_1', 'id_1_data' );
$data = $stack->restore( 'id_1' );
```

Configuration

- Read & write config files
- Flexible back-end design
 - INI
 - PHP Array
- Maintains comments

ConsoleTools

- Class suite for console applications
 - Output / format text
 - Table generation
 - Status widget rendering
 - Simple dialog system

Database

- Extends PDO
 - Unified exceptions
 - Identifier quoting
- SQL abstraction
 - Generates database independent SQL
 - Emulates LIMIT and other neat stuff
- Support for MySQL, SQLite, Oracle, PostgreSQL, MSSQL

Document (2008.1)

- Parse different document formats
 - RST
 - Planned: HTML, Wiki, ODF,...
- Idea:
 - Parser for each format
 - All must be ex- / importable from DocBook
 - Shortcuts optional
- **Only alpha in 2008.1!**

Document example

```
$rstFile = dirname( __FILE__ ) . '/test.rst';  
$htmlFile = dirname( __FILE__ ) . '/test.html';  
  
$document = new ezcDocumentRst();  
$document->loadFile( $rstFile );  
  
$xhtml = $document->getAsXhtml();  
$xml    = $xhtml->save();  
  
file_put_contents( $htmlFile, $xml );
```

Feed (2008.1)

- Parse and create feeds
- Multiple formats
 - RSS 1 / 2
 - Atom
- Module support
 - iTunes
 - CreativeCommons

Feed example - Create

```
$feed = new ezcFeed( 'rss2' );  
  
$feed->title = 'Flight of the RC plane';  
$feed->description = 'A podcast for fans of remote-control ...';  
  
$author = $feed->add( 'author' );  
$author->name = 'Captain Balu';  
$author->email = 'captain.balu@example.com';  
  
$link = $feed->add( 'link' );  
$link->href = 'http://rcplanes.examples.com/';
```

Feed example – Add iTunes

```
$iTunes = $feed->addModule( 'iTunes' );  
  
$iTunes->keywords = 'RC planes,gadgets,flying';  
$iTunes->explicit = 'yes';  
$iTunes->subtitle = 'Competitions, tutorials and tips...';  
  
$image = $iTunes->add( 'image' );  
$image->link = 'http://rcplanes.example.com/images/plane.jpg';  
  
$category = $iTunes->add( 'category' );  
$category->text = 'Technology';  
  
$subCategory = $category->add( 'category' );  
$subCategory->text = 'Gadgets';
```

Feed example – Add items

```
$item = $feed->add( 'item' );
```

```
$item->title = 'Flying an RC plane indoors';
```

```
$item->description = 'In this episode, ...';
```

```
$item->published = 'Fri, 04 Jan 2008 11:18:34 +0100';
```

```
$author = $item->add( 'author' );
```

```
$author->name = 'Captain Balu';
```

```
$author->email = 'captain.balu@example.com';
```

```
$link = $item->add( 'link' );
```

```
$link->href = 'http://rcplanes.example.com/articles/...';
```

```
$enclosure = $item->add( 'enclosure' );
```

```
$enclosure->url = 'http://rcplanes.example.com/media/003.mp3';
```

```
$enclosure->length = 49099054;
```

```
$enclosure->type = 'audio/x-mp3';
```

Feed example – Add iTunes items

```
$iTunes = $item->addModule( 'iTunes' );  
  
$iTunes->duration = '29:20';  
$iTunes->keywords = 'RC planes,office,flying,enemies';  
  
// Generate the feed  
  
$xml = $feed->generate( 'rss2' );  
file_put_contents( 'feeds/news.xml', $xml );
```

ImageConversion

- Multiple back-ends
 - ext/GD
 - ImageMagick
- Transformation / filter architecture
- Supports filters like scale, crop, colorspace
- Supports effects like watermark, border, noise, swirl

Mail

- Create & parse mail
 - Plain Text / HTML / Attachments / Digest / ...
 - Report / delivery status
- Send mail
 - SMTP / mail()
- Retrieve mail
 - POP / IMAP / MBOX / File / Variable

PersistentObject

- OR mapping on top of database
- No inheritance required
- Database independent support for
 - Relations
 - Multi-Relations (2008.1)
 - Cascading

Search (2008.1)

- Unified access to search backends
- Currently implemented
 - Apache Solr
- Modelled after PersistentObject

Search example

```
$solr = new ezcSearchSolrHandler;
$session = new ezcSearchSession(
    $solr, new ezcSearchEmbeddedManager()
);
$q = $session->createFindQuery( 'ezcSearchSimpleArticle' );
$searchWords = split( ' ', $searchWord );
foreach( $searchWords as $searchWord )
{
    $q->where(
        $q->lOr(
            $q->eq( 'body', $searchWord ),
            $q->eq( 'title', $searchWord )
        )
    );
}
$q->limit( 10 );
$r = $session->find( $q );
```

Template

- Compiling to PHP
- Scoping and includes
- Output contexts (XSS prevention)
- Custom extensions
 - Blocks / Functions
- Cache blocks (2007.2)
- Translation integration (2008.1)

Open Part

- Questions and answers
- Critiques?
- Ideas?
- Contributions?

The end

- Thanks for listening!
- We hope you enjoyed the talk
- Slides will be online
 - Watch: <http://blog.schlitt.info>
- Further questions: Tobias Schlitt <ts@ez.no>

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