

The eZ Components Roundup

- International PHP Conference Spring Edition
- Ludwigsburg, 23rd of May 2007

Agenda

- The basics
- The components



About us – Kore

- **Kore Nordmann**
 - Studying computer science at the University Dortmund
 - Working for eZ systems on eZ components
 - Maintainer and Developer in multiple open source projects: Image_3D, KaForkl, KPortal, Business, PHPUnit



About us – Toby

- Tobias Schlitt
 - IT specialist
 - Studying computer science at the University Dortmund
 - Working for eZ systems on the eZ components project
 - Contributor to multiple open source projects: PHPUnit, Serendipity, Image_3D,...

The basics – Agenda

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

Release info

- **Current stable: 2006.2**
- **Next stable release around July**
- **Current beta: 2007.1beta1**
 - **Tons of additions to existing features**
 - **2 new components**

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

Setup

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

Licensing / Contributing

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

The components - Agenda

- Components short overview
 - ... many ...
- Components in deeper detail
 - Graph
 - ConsoleTools



Configuration

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



Mail

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

Template

- Compiling to PHP
- Scoping and includes
- Output contexts (XSS prevention)
- Custom extensions
 - Blocks
 - Functions
- Dynamic locations (**new**)

Cache

- **Multiple back-ends**
 - Plain file
 - PHP array
- **Attribute searching**
- **Multiple directory levels**



SignalSlot

- Qt inspired object communication system
- Enable plug-in designs
- Static and dynamic signals
- Slot priorities



Graph 1/2

- Data visualization and charting tool
- Different chart types
 - Bar, line, pie, radar (**new**)
- Fully customizable
- 3D effects

Graph 2/2

- Code browsing session...



Database

- Extends PDO
 - Unified exceptions
 - Identifier quoting
- SQL abstraction
 - Generates database independent SQL
 - Emulates LIMIT
- Support for MySQL, SQLite, Oracle, PostgreSQL, MS SQL (**new**)

DatabaseSchema

- Save schemas, database independent (XML)
- Create database schema from XML
- PEAR::MDB2 compliant schema
- Generate PersistentObject definitions and classes (**new**)

Archive

- Create / extract / manipulate archives
- Multiple formats
 - TAR
 - ZIP
- Multiple compressions through stream wrappers
 - GZ
 - BZIP₂

EventLog

- **Multiple back-ends**
 - File
 - Database
- **Severities**
- **Log filtering**



ImageConversion

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

UserInput

- Secures user input
- Built upon ext/filter
- Intuitive OO API



ConsoleTools 1/2

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

ConsoleTools 2/2

- Code browsing session...



Feed

- Parse and create feeds
- Multiple formats
 - RSS
 - Atom



Translation

- Store and retrieve translated content
- Uses Qt linguist files
- Filter system
- Caching

PersistentObject

- OR mapping on top of database
- No inheritance required
- Database independent support for
 - Relations
 - Cascading
- Definition and class stub (**new**) generation

Additions in 2007.1

- **Workflow**
 - Activity based workflow system
 - Definition and execution of workflow specifications
- **Authentication**
 - Unified authentication against different back-ends
 - Htpasswd / Database / OpenID / TypeKey / ...

The end

- Thanks for listening!
- We hope you enjoyed the talk
- Any questions left?
- Contact us:
 - Kore Nordmann <kore@php.net>
 - Tobias Schlitt <toby@php.net>
- eZ Components: <http://ez.no/ezcomponents>