

# Hands on eZ Components – A practical guide

## Components overview

- International PHP Conference
- Möhrfelden, 4<sup>th</sup> of November 2007
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# Archive

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

# Authentication

- Multiple authentication back ends
- Internal services
  - Database
  - httpasswd
  - IMAP
- External services
  - OpenID
  - TypeKey

# Cache

- Multiple back-ends
  - Plain file
  - PHP array in file
  - APC (2007.2)
  - Memcache (2007.2)
- Attribute searching
- Multiple directory levels in file caches

# 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
    - Progress bar and more
  - Simple dialog system

# Database

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

# DatabaseSchema

- Save structure, database independent (XML)
- Create database schema from XML
- Diff between DB structures
- PEAR::MDB2 compliant schema
- Generate PersistentObject definitions and classes



# EventLog

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

# Execution

- “Catches” fatal errors
- Allows to display at least some info instead of a error to the user

# Feed

- Parse and create feeds
- Multiple formats
  - RSS
  - Atom
- Not stable so far, maybe 2007.2

# Graph

- Data visualization and charting tool
- Different chart types
  - Bar, line, pie, radar
- Fully customizable
- 3D effects
- Multiple output formats
  - SVG, PNG/JPEG/..., Flash



# ImageConversion

- Multiple back-ends
  - ext/GD
  - ImageMagick
- Transformation / filter architecture
- Supports filters like scale, crop, colorspace
- 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

- Object relational mapping on top of the Database component
- No inheritance required (similar to Java Hibernate)
- Database independent support for
  - Relations
  - Cascading
- Definition and class stub generation supported by DatabaseSchema

# SignalSlot

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



# Template

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

# Translation

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

# Tree

- Classes to represent tree structures
- Working with trees
  - Manipulation, Visiting, ...
- Storage backends
  - Memory, XML
- Tieins
  - Database, PersistentObject
- New in 2007.2

# UserInput

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



# Workflow

- Abstract workflow engine
- Define workflows in code or XML
- Run, suspend/resume workflows
- Allows graph orientied programming

# Webdav

- Allows online editing through HTTP
- Extension of the HTTP protocol
- Many applications support WebDAV
  - InternetExplorer
  - Nautilus
  - Konqueror
  - Finder
- New in 2007.2