



PEAR Powerworkshop

International PHP Conference 2004 Frankfurt

Welcome!

Welcome to the PEAR Powerworkshop!

We hope you will have fun
and see some interesting stuff.

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&

Tobias Schlitt
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PEAR Powerworkshop

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Agenda

Introduction

What is PEAR?

Website overview

The project

Using PEAR

Practical -1-

Break -----

Developing PEAR

Practical -2-

Open discussion

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Tobias Schlitt

PEAR developer since 2002

PEAR Website Team and Core QA Team

Maintainer of Net_FTP, Log_Parser, Image_Text, Image_Tools

Student / Independent IT Consultant

(former Software Architect at Deutsche Bank AG)

Email: toby@php.net

Website: <http://www.schlitt.info>



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Lukas Smith

PEAR developer since 2002

Maintainer of MDB, MDB2, LiveUser and RDF

Co-founder of BackendMedia who specialize
in webbased application development

Email: smith@backendmedia.com

Website: <http://www.backendmedia.com>



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And who are you?

What is your name?

What is your line of work?

How well do you know PEAR?

Do you use PEAR?

If yes what packages?

What interests you in PEAR?

Anything else we should know?



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What is PEAR?

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Overview

Collection of high quality PHP components

360 packages and growing fast

Almost 200 package maintainers, 500 developers

100% open source (PHP, Apache, BSD, LGPL license)

Standardization institution

Founded by Stig S. Bakken in 1999



What is PEAR?

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Components?

Generic packages of PHP code

Avoiding code redundancy

Packaged by functionality

Object oriented

Flexible and extensible APIs



What is PEAR?

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High quality?

1000 eyes principle

Development standards

Proposal process

BC breakage prohibited

QA team



What is PEAR?

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Community

Maintainers freedom

Community process

Constructive discussion

Bundled PHP knowledge

Continuous progress



What is PEAR?

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Conclusion

PEAR is sexy.

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What is PEAR?

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PEAR Website

<http://pear.php.net>

Package Browsing

Manual

Support

Bug tracking system

PEPr



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PEAR Packages

Browsing by category

Package homepage contains:

- Summary, license, description, homepage

- Maintainers

- Download links and statistics

- Link to manual (optional) and API docs

- Link to view all open bugs and report new bugs

- Changelog for all releases

- Dependencies



What is PEAR?

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PEAR Manual

Multiple languages (English*, French, Japanese, Hungarian, Dutch, Russian)

*English is the primary language

HTML (download and online), .chm

DocBook based

Currently also contains PECL docs

We need more users contributing!



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Bug tracking system

<http://pear.php.net/bugs>

<http://pear.php.net/bugs/stats.php> (new!)

Bug reporting

Feature requests

Patches (don't send patches to mailinglists)



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PEPr

PEAR Proposal System

Package and RFC proposals

Phases of a proposal:

- draft

- proposed

- call for votes

- finished

Voting (open to all pear-dev members)

Anyone can get a pear proposal account



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What is PEAR?

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PEAR Support

Mailinglist: pear-general@lists.php.net

All other mailinglists and archives

IRC channel on efnet: #pear

Links resources: tutorials, forums etc

No official forum (however external PEAR forums are very welcome!)

PEAR logos :-)



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PEAR Dev

Most PEAR package maintainers

Mailinglist: pear-dev@lists.php.net

All development discussion takes place here

Non PEAR developers welcome, but not meant
for user support (use pear-general@lists.php.net)



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PEAR Doc

Manages the PEAR Manual

Mailinglist: pear-doc@lists.php.net

Users welcome (PHP manual was not mostly written by the actual developers!)

Most packages now have an entry in the manual



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PEAR QA

Quality Assurance team

Mailinglist: pear-qa@lists.php.net

Help developers with QA issues

Finds new maintainers for orphaned packages

Building tools to make quality transparent

Develops recommendations



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PEAR Core

Develops the core PEAR infrastructure

Mailinglist: pear-core@lists.php.net

PEAR base class

PEAR installer

PEAR web



What is PEAR?

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PEAR Webmaster

Manages pear.php.net

Mailinglist: pear-sys@php.net (Servers),
pear-webmaster@lists.php.net (Website)

Continuously tweaking the site for better navigation
and syndication (RSS)



What is PEAR?

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PEAR Group

PEAR steering committee

Mailinglist: pear-group@php.net

Handles outside relations

Mediates on problems within PEAR

Reserves a veto on all decisions, however does not have any real power beyond the trust the PEAR community has for them



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Obtaining packages

Easy to use installer

Shipped with PHP since 4.3.0

For lower versions:

Easy to obtain installer through <http://go-pear.org>

Different interfaces available:

CLI

Web

GTK

Using the PEAR installer

Important PEAR Installer commands

```
$> pear [un]install [PackageName]
```

```
$> pear upgrade[-all] [PackageName]
```

Use **-f** option to force action

Instead of PackageName point to package.xml
or tar.gz in the filesystem or URL

```
$> pear list[-upgradeable]
```

```
$> pear config-show
```

```
$> pear config-set
```

```
$> pear package[-validate] [package.xml]
```



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Development versions

Latest development version in CVS

Anonymous checkout possible

```
cvs -d :pserver:cvsread@cvs.php.net:/repository login  
cvs -d :pserver:cvsread@cvs.php.net:/repository checkout pear
```

Password: phpfi

CVS webinterface at <http://cvs.php.net>

Flat package structure in CVS

Every package has its own directory

Used to better control code ownership



What is PEAR?

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Startup with a package

Package structure:

PEAR/ (php_dir setting)

PEAR/docs/ (doc_dir setting)

PEAR/docs/examples/ (doc_dir setting)

PEAR/tests/ (test_dir setting)

PEAR/data/ (data_dir setting)

Find your settings with: **\$> pear config-show**

Inside the package sources



What is PEAR?

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Need help?

Online manual at <http://pear.php.net/manual/>

Direct link through package website

Thirdparty docs (magazines cover PEAR alot!)

Google!

IRC Channel: [#pear@efnet](#)

Mailinglist pear-general@lists.php.net



What is PEAR?

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Found a bug?

1st step: Check for newer version (read changelog)

2nd step: Check bug tracker link on package website

3rd step: Check CVS!

4th step: Mail pear-dev@lists.php.net

Patches welcome!



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Practical Stage1

Services_Ebay
XML_Serializer



What is PEAR?

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Practical Stage2

Cache_Lite

HTML_Quickform

MDB2



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What is PEAR?

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Developing PEAR

Submitting patches

Licenses: PHP, BSD, Apache, LGPL

package.xml

Release upload

Accounts

- PEAR account

- CVS account

- ... and what is this karma stuff?



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What is PEAR?

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Practical Stage3

Auth

CAPTCHA

PEAR Errorhandling

PEAR_Error

- Current standard

- Global error handler; overwrite locally

PEAR_ErrorStack

- Flexible use of PEAR_Error, Exceptions

- Can be used for Warnings

PEAR_Exception

- Based on native exceptions

- Adds nestable Exceptions, more context information, pretty output



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Practical Stage3

LiveUser

PEAR_Error

PEAR_ErrorStack



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The bitter end

Thanks for listening!

We hope you enjoyed and learned a bit.

Slides online: <http://pear.php.net/support.php>

Tobias Schlitt <toby@php.net>

Lukas Smith <lsmith@php.net>



What is PEAR?

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Useful links

PEAR

<http://pear.php.net>

PHP5

<http://de3.php.net/manual/en/language.oop5.php>

Exceptions

<http://de3.php.net/manual/en/language.oop5.exceptions.php>

http://wiki.ciaweb.net/yawiki/index.php?area=PEAR_Dev&page=RfcExceptionUse

eBay development

<http://developer.ebay.com/>

<http://developer.ebay.com/DevProgram/membership/join.asp>

