



# PEAR Session

PHP Quebec Conference 2005

Welcome!

Welcome to the PEAR Session!

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

## Agenda

- Introduction
- What is PEAR?
- Project institutions
- Obtaining PEAR
- The PEAR installer
- Using PEAR
- Future outlook

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## Tobias Schlitt

- PEAR developer since 2002
  - PEAR Website Team and Core QA Team
  - Maintainer of Net\_FTP, Image\_Text, Image\_Tools, Services\_Trackback
  - Student / Independent IT Consultant  
(former Software Architect at Deutsche Bank AG)
- 
- Email: [toby@php.net](mailto:toby@php.net)
  - Website: <http://www.schlitt.info>

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## What is PEAR?

- Collection of high quality PHP components
- Nearly 300 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

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## PEAR Website

- <http://pear.php.net>
- Package Browsing
- Manual
- Support
- Bug tracking system
- PEPs





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## PEAR Website II

Excuse to the PEAR website....

(as long as the WiFi works... ;)

## PEAR Mailinglists

- [pear-general@lists.php.net](mailto:pear-general@lists.php.net)
  - Support
  - User-2-user help
- [pear-dev@lists.php.net](mailto:pear-dev@lists.php.net)
  - Technical discussions
  - Project coordination
- [pear-qa@lists.php.net](mailto:pear-qa@lists.php.net)
  - Quality assurance
- [pear-doc@lists.php.net](mailto:pear-doc@lists.php.net)
  - Documentation team
- [pear-webmaster@lists.php.net](mailto:pear-webmaster@lists.php.net)
  - Website & Co.

IRC:  
[#pear@EFNet](#)

## PEAR Group

- PEAR steering committee
- Mailinglist: [pear-group@php.net](mailto: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 PEAR

- PEAR installer shipped with PHP since 4.3.0
- Automatically installed on Windows
- Per default activated when compiling on \*nix  
(do not use "--without-pear")
- For earlier PHP versions bootstrap from <http://go-pear.org>  
On \*nix try `lynx -source http://pear.php.net/go-pear | php -q`  
On Windows, save source and call PHP manually
- Tip: Ensure, that your PEAR path is added to the `include_path` directive in `php.ini`!

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## The PEAR Installer

- Different interfaces:
  - Console (build in)
  - Web
  - GTK
- Easy usage
- Perform a lot of actions on packages:
  - List local/remote
  - Install/Uninstall/Upgrade directly from the web
  - Get package information
  - Dependencies
  - Package packages
  - Test packages

## PEAR Installer Commands

- 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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## PEAR Installer Live

Live demonstration of the PEAR installer.

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## Basics on using PEAR

- Important precondition:
  - `include_path` must contain the correct path to PEAR!
- Packages contain a main file, which has to be included (no others).
- Package names map to their location in PEAR:
  - `DB` --> `DB.php`
  - `Net_FTP` --> `Net/FTP.php`
  - ...
- Class names map to package names:
  - `DB` --> `DB()`
  - `Net_FTP` --> `Net_FTP()`
  - (attention, most packages do not use direct instantiation)

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## Outlook

- PEAR 1.4 is currently in alpha stadium with exciting new features:
  - Channel support
  - Automatic dependency resolving
  - Remote-installation support
  - New package.xml format
  - ...
- Hopefully ready by the end of May.  
(do not count on that, you know, it's open source)

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The end

## Final conclusion

- PEAR offers you:
  - A huge collection of high quality PHP components to make your development:
    - ... more comfortable
    - ... more secure
    - ... much faster
  - A unified backend to install PHP classes and C extensions.
  - A distribution way for your PHP code.
  - Standards for PHP development.
  - A lot of PHP knowledge bundled in one place.

## Discussion

•Do you have:

- Questions?
- Critics?
- Ideas?
- Comments?

Please state them now!



Thank you for...

- ... listening to my bad English.
- ... your interest in PEAR and PHP in general.
- ... coming to the PHP Quebec Conference 2005

I hope you enjoyed the workshop  
and wish you much fun here at the Conference!

Tobias Schlitt <[toby@php.net](mailto:toby@php.net)>

## Usefull links

- These slides online:
  - <http://pear.php.net/support.php>
- The PHP Quebec website:
  - <http://www.phpquebec.com>
- Actual PHP news:
  - <http://www.planet-php.net>