ÍNDICE

2
3
10
11
13
14
20
20
20
21
21
22
23
24
24
25
26

CAPÍTULO 3. EL PROYECTO PEAR

El proyecto *PEAR "PHP* Extension and Application Repository" es un poderoso sistema de distribución y entorno de trabajo para componentes *PHP*. En castellano, las siglas *PEAR* significan Repositorio de Aplicación y Extensión *PHP*.

Stig S. Bakken fundó el proyecto *PEAR* a finales del año 1999 con el objetivo de promocionar la reutilización de código que implementara funcionalidades habituales. En enero de 2000 el proyecto se presentó en la reunión de desarrolladores de *PHP* en Israel y comenzó su verdadera andadura, llegando a la primera versión estable en diciembre de 2002, lanzamiento que coincidió con la versión 4.3.0 de *PHP*. A partir de dicha versión, *PEAR* se ha incluido con todas las versiones de *PHP*.

El crecimiento del proyecto, tanto en paquetes de código, en desarrolladores y en usuarios, ha sido tal que en agosto de 2003 se formó el *PEAR Group*, un organismo encargado de supervisar las decisiones respecto al proyecto. En definitiva, el proyecto *PEAR* ha crecido hasta convertirse en algo más que un conjunto de librerías agrupadas en paquetes:

- Cada paquete, es en si mismo un proyecto autocontenido, con su equipo de desarrollo encargado de versionar el mismo y mantener la documentación.
- La importancia que el proyecto PEAR da a la calidad es máxima, por lo que cada paquete PEAR debe adaptarse a un estricto estándar de codificación, el PCS (PEAR Coding Standards), que ha sido adoptado por proyectos ajenos a PEAR.
- Es un sistema de distribución y mantenimiento centralizado en la Web de PEAR (http://pear.php.net). A través de la herramienta PPM, PEAR package manager, podemos mantener y distribuir paquetes.

• Es una comunidad compuesta por más de 1000 miembros en todo el mundo, que son los principales protagonistas del proyecto manteniendo la calidad del mismo a un alto nivel, y haciendo que evolucione constantemente.

En resumen, los principales objetivos de PEAR son:

- Proporcionar una librería estructurada de código.
- Mantener un sistema de distribución de código, y administración de paquetes de código.
- Promocionar un desarrollo estandarizado de código.

Muchas de las características que las clases *PEAR* ofrecen, han sido fundamentales en el diseño del lenguaje *PHP* en su última versión, *PHP5*, pues *PEAR* con la versión 4 de *PHP*, ya proporcionaba entre otras muchas cosas:

- Clases base que simulan los destructores orientados a objetos.
- Gestión de errores estandarizada (como vimos en el tema de introducción a PHP).
- Un sistema de conexión a bases de datos independiente. El actualmente obsoleto *PEAR:DB*.
- La API SimpleXML que ha sido incluida de forma nativa en PHP5.
- Clases para servicios Web (ej. PEAR:SOAP), que en PHP5 también son nativas.
- Y un amplio etcétera: sistemas de autenticación, sistemas de aceleración por caché, encriptación, configuración, APIs orientadas a objetos para acceder a servicios de red como FTP, POP, SMTP, IMAP, sistemas e plantilla para separar la presentación de la lógica de negocio o facilidades de internacionalización de código.

3.1 Comprobación de rutas PEAR en PHP.

Antes de proceder con la instalación de PEAR, vamos a comprobar que nuestra instalación portable de PHP enlace bien a nuestro futuro PEAR.

Para ello, abriremos el fichero de configuración de PHP que encontraremos en la ruta "\USBAMP\web_system\php5\php.ini". Dentro de este fichero de configuración, aproximadamente en la línea 791 comprobamos que se asigne a include_path el siguiente valor:

include_path = ".;\USBAMP\web_system\php5\PEAR"

Fijaros bien en las contrabarras ya que en el tema de instalación se omitió la primera de ellas.

Solucionado este problema, procedemos a la instalación de PEAR.

3.2 Instalación de PEAR.

A continuación, vamos a describir el proceso para realizar la instalación de PEAR en nuestro sistema *USBAMP*. Esta instalación dista ligeramente de la instalación habitual, pues recordemos que queremos mantener la portabilidad de nuestro proyecto. Os aconsejamos que **antes de continuar**, se realice **una copia de seguridad del directorio, por ejemplo en USBAMP_prePEAR**. Así, en caso de surgir algún problema durante la instalación, podremos volver a intentarlo partir desde un punto seguro.

Llevar a cabo una instalación típica de *PEAR* es un proceso bastante sencillo¹, ya que para realizar la instalación en *Windows* disponemos del script "go-pear.bat" en el directorio donde se encuentra *PHP*. Sin embargo, ese fichero .bat no hace más que enmascarar al verdadero artífice, el script PHP "go-pear.php" situado dentro del directorio *PEAR*.

La instalación de PEAR va a llevarse a cabo a través de la línea de comandos, por lo que nos será necesaria una ventana de consola con ciertas variables de entorno prefijadas. Para evitar tener que establecer el valor de dichas variables de sistema cada vez que vayamos a trabajar con la consola, crearemos el fichero "consolaPHP5-Web.cmd" en nuestra ruta base "F:\USBAMP\". Su contenido se describe a continuación:

```
Fichero "\USBAMP\consolaPHP5-Web.cmd"

set PHP_PEAR_SYSCONF_DIR=%CD%\web_system\php5
set PHP_PEAR_INSTALL_DIR=%CD%\web_system\php5\pear
set PHP_PEAR_DOC_DIR=%CD%\web_system\php5\pear\docs
set PHP_PEAR_BIN_DIR=%CD%\web_system\php5\pear\data
set PHP_PEAR_DATA_DIR=%CD%\web_system\php5\pear\data
set PHP_PEAR_DATA_DIR=%CD%\web_system\php5\php.exe
set PHP_PEAR_TEST_DIR=%CD%\web_system\php5\pear\tests
path=%CD%\web_system\php5;%CD%\web_system\php5\ext;%CD%\web_system\mysql\bin;%PATH%
%windir*\system32\cmd.exe
```

¹ Como ya comentamos en el capítulo de introducción, muchas de las críticas a PHP 5.3 han venido por no esperar a que sus proyectos hermanos estén preparados antes de sacar versión. Al proyecto PEAR le han surgido pequeños problemas según como se intente la instalación del mismo con Windows y PHP 5.3.0.

Tras crear el fichero, si hacemos doble click sobre el mismo el fichero recién creado "F:\USBAMP\consolaPHP5-Web.cmd" 2 tendremos lista una consola para el sistema PHP.

La instalación de PEAR puede llevarse a cabo de varias formas posibles. En nuestro caso particular, queremos que la instalación se lleve a cabo para un entorno portable, por lo que vamos a llevar a cabo la instalación con una forma concreta de entre todas las posibles.

Como primer paso, abriremos en nuestro navegador favorito la URL siguiente:

http://pear.php.net/go-pear

Seleccionaremos todo el texto, copiaremos el mismo. Crearemos el archivo de texto "F:\USBAMP\web_system\php5\go-pear.php" vacío. Después, editaremos el mismo y pegaremos en su interior el texto que habíamos copiado de la URL antes mencionada.

Una vez hecho esto, abriremos la consola con un doble click sobre "F:\USBAMP\consolaPHP5-Web.cmd". Una vez abierta la consola, nos situaremos dentro del directorio "F:\USBAMP\web_system\php5", y desde allí ejecutamos la orden:

```
F \USBAMP\web_system\php5>php-cgi.exe go-pear.php
```

Con ello, dará comienzo la instalación de PEAR, y si pulsamos *enter* un par de veces para proseguir con la instalación, tendremos un diálogo similar a éste:

```
F:\USBAMP\web_system\php5>php-cgi.exe go-pear.php
PHP Deprecated: Assigning the return value of new by reference is deprecated in F:\USBAMP\web_system \php5\go-pear.php on line 725
PHP Deprecated: Function ereg() is deprecated in F:\USBAMP\web_system\php5\go-pear.php on line 1406
X-Powered-By: PHP/5.3.0
Content-type: text/html

Deprecated: Function ereg() is deprecated in F:\USBAMP\web_system\php5\go-pear.php on line 1406
Welcome to go-pear!

Go-pear will install the 'pear' command and all the files needed by
it. This command is your tool for PEAR installation and maintenance.

Use 'php go-pear.php local' to install a local copy of PEAR.

Go-pear also lets you download and install the following optional PEAR packages: PEAR_Frontend_Web-beta, PEAR_Frontend_Gtk2, MDB2.

If you wish to abort, press Control-C now, or press Enter to continue:

HTTP proxy (http://user:password@proxy.myhost.com:port), or Enter for none::
```

_

² Recordemos, que la letra "F" que indica la unidad, puede ser distinta para cada uno de nosotros, en función de donde se haya llevado a cabo la instalación, o si se está haciendo uso de una unidad removible, de la unidad asignada a la misma.

```
Below is a suggested file layout for your new PEAR installation. To change individual locations, type the number in front of the directory. Type 'all' to change all of them or simply press Enter to accept these locations.

1. Installation prefix ($prefix): F:\USBAMP\web_system\php5
2. Temporary files directory : $prefix\temp
3. Binaries directory : $prefix\temp
4. PHP code directory ($php_dir): $prefix\pear
5. Documentation base directory : $php_dir\docs
6. Data base directory : $php_dir\docs
6. Data base directory : $php_dir\tests
8. php.exe path : F:\USBAMP\web_system\php5\php.exe

1-8, 'all' or Enter to continue: 1
Installation prefix ($prefix) [F:\USBAMP\web_system\php5] : \USBAMP\web_system\php5
```

En este punto, se nos pregunta si estamos de acuerdo con las rutas que se proponen para instalar *PEAR*. Aquí debemos hacer una modificación para conseguir que la instalación de nuestro *PEAR* sea portable. Elegiremos la opción "1" y modificaremos el prefijo de instalación, eliminado la letra de la unidad en el mismo. Podemos intentar hacer lo mismo con la opción "8 "para eliminar la unidad de la ruta al fichero *php.exe*, sin embargo, si lo hacemos veremos como el instalador ignora nuestra intención. Por este motivo, lo dejaremos así, teniendo en cuenta que realizaremos los cambios manualmente un poco más adelante:

```
1-8, 'all' or Enter to continue: 1
Installation prefix ($prefix) [D:\USBAMP\web_system\php5] : \USBAMP\web_system\php5

Below is a suggested file layout for your new PEAR installation. To change individual locations, type the number in front of the directory. Type 'all' to change all of them or simply press Enter to accept these locations.

1. Installation prefix ($prefix) : \USBAMP\web_system\php5
2. Temporary files directory : $prefix\temp
3. Binaries directory : $prefix\temp
3. Binaries directory : $prefix
4. PHP code directory ($php_dir) : $prefix\pear
5. Documentation base directory : $php_dir\docs
6. Data base directory : $php_dir\docs
6. Data base directory : $php_dir\data
7. Tests base directory : $php_dir\tests
8. php.exe path : D:\USBAMP\web_system\php5\php.exe

1-8, 'all' or Enter to continue:

... (sigue) ...
```

Tras pulsar "enter", el instalador nos dirá que ha encontrado algunos paquetes PEAR incluidos con el *PHP*, y nos consultará si queremos aprovecharlos. Decimos que sí, y comienza la descarga e instalación del núcleo del proyecto *PEAR*.

```
Deprecated: Assigning the return value of new by reference is deprecated in F:\USBAMP\web_system\php5\temp\PEAR.php on line 566 ok

Bootstrapping Archive/Tar.php......(remote) ok
Bootstrapping Console/Getopt.php......(remote) ok

Extracting installer..........

Downloading package: PEAR...........PHP Deprecated: Function eregi() is deprecated in F:\USBAMP\web_system\php5\go-pear.php on line 1080

Deprecated: Function eregi() is deprecated in F:\USBAMP\web_system\php5\go-pear.php on line 1080 ok
Downloading package: Structures_Graph...PHP Deprecated: Function eregi() is deprecated in F:\USBAMP\web_system\php5\go-pear.php on line 1080

Deprecated: Function eregi() is deprecated in F:\USBAMP\web_system\php5\go-pear.php on line 1080

Deprecated: Function eregi() is deprecated in F:\USBAMP\web_system\php5\go-pear.php on line 1080
```

Es posible que durante la instalación se nos pregunte si deseamos que la instalación modifique el fichero php.ini para añadir en el PATH la ruta del PEAR. Debemos decir que **NO**, dado que ya incluimos la ruta del PEAR cuando preparamos la instalación del USBAMP.

Finalizada la descarga e instalación³, podemos leer un mensaje que versa sobre la conveniencia de incorporar información al registro de Windows, ejecutando el script "\USBAMP\web_system\php4\PEAR_ENV.reg". Nosotros NO vamos a realizar dicha acción, puesto que nuestro sistema debe ser portable, y no tiene sentido incorporar información al registro de Windows cuando no siempre vamos a ejecutar nuestro entorno en esta máquina. La información a la que se refiere el instalador son las variables de entorno que fijamos durante la instalación de USBAMP en los ficheros de extensión ".cmd".

Si nos fijamos en nuestros directorios, podremos ver que han aparecido nuevos ficheros en el directorio "F:\USBAMP\web_system\php5\", así

³ Puede que podamos leer algunos "warnings" durante la instalación referidos a dependencias del PEAR, es debido a una discrepancia de versiones entre los paquetes que descargamos del proyecto PEAR (frescos y ultima versión) y los que venían incluidos con nuestro PHP, posteriormente haremos una actualización.

como el "F:\USBAMP\web_system\php5\pear.ini" y muchos otros dentro del subdirectorio "F:\USBAMP\web_system\php5\PEAR".

Finalizada la instalación básica, podemos realizar la configuración del entorno. Para afinar nuestra instalación, utilizaremos la *CLI* que proporciona *PEAR*.

Situados en el directorio "F:\USBAMP\web_system\php5\" ejecutaremos el comando "pear", y podremos ver si su funcionamiento es correcto:

```
F:\USBAMP\web_system\php5>pear
                                                                                                  Build an Extension From C Source
      build
    bundle Unpacks a Pecl Package
channel-add Add a Channel
channel-alias Specify an alias to a channel name
channel-delete Remove a Channel From the List
channel-discover Initialize a Channel from its server
channel-info Retrieve Information on a Channel
channel-login Connects and authenticates to remote channel server
channel-logout Logs out from the remote channel server
channel-update Update an Existing Channel
clear-cache Clear Web Services Cache
Create a Default configuration file
      bundle
                                                                                                 Unpacks a Pecl Package
 channel-update
clear-cache
config-create
config-get
config-get
config-help
config-set
config-show
convert
conv
     list all List Installed Packages In The I
list-all List All Packages
list-categories
List All Packages
list-category
List All Packages of a Category
list-channels
List Available Channels
list-files
List Files In Installed Package
list-packages
List All Packages of a Channel
list-upgrades
List Available Upgrades
List Available upgrades
Composts and authorization to a
login
                                                                                                 Connects and authenticates to remote server [Deprecated in favor of channel-
                                                                                                 Logs out from the remote server [Deprecated in favor of channel-logout]
                                                                                                   Upgrade All Packages [Deprecated in favor of calling upgrade with no paramet
      upgrade-all
      Type "pear help options" to list all options.

Type "pear help shortcuts" to list all command shortcuts.

Type "pear help <command>" to get the help for the specified command.list-all
     list-channels

List Available Channels

list-files

List Files In Installed Package

list-upgrades

List Available Upgrades

login

Connects

Connects
                                                                                                                                                                                                                                                                                                                                                               List All
                                                                                         Connects and authenticates to remote server Logs out from the remote server
                                                                                          Builds an RPM spec file from a PEAR package
      makerpm
     package
                                                                                          Build Package
      package-dependencies Show package dependencies
```

```
package-validate Validate Package Consistency
pickle Build PECL Package
remote-info Information About Remote Packages
remote-list List Remote Packages
run-scripts Run Post-Install Scripts bundled with a package
run-tests Run Regression Tests
search Search remote package database
shell-test Shell Script Test
sign Sign a package distribution file
uninstall Un-install Package
update-channels Update the Channel List
upgrade Upgrade Package
upgrade-all Upgrade All Packages
Usage: pear [options] command [command-options] parameters>
Type "pear help options" to list all command shortcuts.
Type "pear help <command>" to get the help for the specified command.
```

Con todo funcionando, repasamos la lista de opciones anterior, y veamos el resultado de la ejecución de pear con la opción "config-show". Obtendremos algo parecido a esto:

```
F:\USBAMP\web_system\php5>pear config-show
 CONFIGURATION (CHANNEL PEAR.PHP.NET):
Auto-discover new Channels auto_discover <not set>
Default Channel default_channel pear.php.net
HTTP Proxy Server Address http_proxy <not set>
PEAR server [DEPRECATED] master_server pear.php.net
Default Channel Mirror preferred_mirror pear.php.net
PEAR executables directory bin_dir \USBAMP\web_system\php5
PEAR documentation directory ext_dir \USBAMP\web_system/php5\pear\docs
PEAR directory ph_dir \USBAMP\web_system\php5\pear
PEAR linstaller cache directory cache_dir C:\Users\david\AppData\Local\Temp\pear\cache
DEAR configuration file cfg_dir C:\php5\pear\cfg
 directory
 PEAR data directory data_dir \USBAMP\web_system\php5\pear\data
PEAR Installer download download_dir \USBAMP\web_system\php5\temp/download
   directory

PHP CLI/CGI binary php_bin F:\USBAMP\web_system\php5\php.exe
php.ini location php_ini <not set>
--program-prefix passed to php_prefix <not set>
 PHP CLI/CGI binary
 php.ini location
 PHP's ./configure
    -program-suffix passed to php_suffix
                                                                                                                    <not set>
 PHP's ./configure
PEAR Installer temp directory temp_dir \USBAMP\web_system\php5\temp
PEAR test directory test_dir \USBAMP\web_system\php5\pear\tests
PEAR www files directory www_dir C:\php5\pear\www
Cache TimeToLive cache_ttl 3600
PEAR Installer Lemp directory
PEAR test directory test_dir
PEAR www files directory www_dir C:\php
Cache TimeToLive cache_ttl 3600
Preferred Package State preferred_state stable
Unix file mask umask 0
Debug Log Level verbose 1
PEAR password (for password <not separate test.
                                                                                                                  <not set>
maintainers)
Signature Handling Program sig_bin
Signature Key Directory sig_keydir
Signature Key Id sig_keyid
Package Signature Type sig_type
PEAR username (for username
                                                                                                                c:\gnupg\gpg.exe
F:\USBAMP\web_system\php5\pearkeys
<not set>
                                                                                                                    <not set>
 maintainers)
User Configuration File Filename F:\USBAMP\web_system\php5\pear.ini
System Configuration File Filename F:\USBAMP\web_system\php5\pearsys.ini
```

Como vemos, todavía aparecen referencias a la unidad, por lo que mediante la opción "config-set" podemos corregir esos pequeños problemas. Por ejemplo, el directorio de CACHE de PEAR. Dado que queremos un sistema portable, crearemos algunos directorios:

 Crearemos el directorio destinado a la caché en la ruta "\USBAMP\web_system\php5\PEAR\cache" y cambiaremos la configuración de PEAR para que lo utilice.

- Crearemos el directorio destinado a ficheros de configuración de PEAR en la ruta "\USBAMP\web_system\php5\PEAR\cfg" y cambiaremos la configuración de PEAR para que lo utilice.
- Crearemos el directorio para ficheros temporales del instalador de PEAR en la ruta "\USBAMP\web_system\php5\PEAR\temp" y cambiaremos la configuración de PEAR para que lo utilice.

```
F:\USBAMP\web_system\php5> pear config-set cache_dir \USBAMP\web_system\php5\PEAR\cache config-set suceded
F:\USBAMP\web_system\php5> pear config-set cfg_dir \USBAMP\web_system\php5\PEAR\cfg config-set suceded
F:\USBAMP\web_system\php5> pear config-set download_dir \USBAMP\web_system\php5\PEAR\temp config-set suceded
F:\USBAMP\web_system\php5> pear config-set php_bin \USBAMP\web_system\php5\php.exe config-set suceded
F:\USBAMP\web_system\php5> pear config-set www_dir \USBAMP\web_system\www config-set suceded
F:\USBAMP\web_system\php5> pear config-set sig_bin \USBAMP\gnupg\gpg.exe config-set suceded
F:\USBAMP\web_system\php5> pear config-set sig_bin \USBAMP\gnupg\gpg.exe config-set suceded
F:\USBAMP\web_system\php5> pear config-set sig_keydir \USBAMP\web_system\php5\pearkeys config-set suceded
```

Tras asegurarnos de que los directorios están creados podemos si queremos comprobar que las últimas opciones no pueden modificarse. No hay problema, *PEAR* funcionará bien. Comprobemos que no nos hemos dejado sin configurar ninguna de las opciones anteriores, ejecutando de nuevo la opción "config-show" y repasando el resultado.

```
F:\USBAMP\web_system\php5>pear config-show
CONFIGURATION (CHANNEL PEAR.PHP.NET):
Auto-discover new Channels auto_discover <not set>
Default Channel default_channel pear.php.net
HTTP Proxy Server Address http_proxy <not set>
PEAR server [DEPRECATED] master_server pear.php.net

Default_channel pear.php.net
                                               http_proxy <not set>
master_server pear.php.net
PEAR server [DEPRECATED] master_server pear.pnp.net
Default Channel Mirror preferred_mirror pear.php.net
Remote Configuration File remote_config <not set>
PEAR executables directory bin_dir \USBAMP\web_system\php5
PEAR documentation directory doc_dir \USBAMP\web_system\php5\pear\docs
PHP extension directory ext_dir /USBAMP\web_system\php5\pear
PEAR directory php_dir \USBAMP\web_system\php5\pear
PEAR Installer cache directory cache_dir \USBAMP\web_system\php5\pear\docs
PEAR configuration file cfg_dir \USBAMP\web_system\php5\PEAR\cfg
                                                                            \USBAMP\web system\php5\PEAR\cache
PEAR data directory data_dir
PEAR Installer download download_dir
                                                                            \USBAMP\web_system\php5\pear\data
                                                                            \USBAMP\web_system\php5\PEAR\temp
directory
PHP CLI/CGI binary php_bin
                                                                           \USBAMP\web_system\php5\php.exe
php.ini location
  -program-prefix passed to php_prefix
                                                                            <not set>
PHP's ./configure
 --program-suffix passed to php_suffix
                                                                           <not set>
PHP's ./configure
PEAR Installer temp directory temp_dir
                                                                            \USBAMP\web_system\php5\temp
PEAR test directory
                                                                            \USBAMP\web_system\php5\pear\tests
PEAR test directory test_dir
PEAR www files directory www_dir
                                                                            \USBAMP\web_system\www
Vacane TimeToLive cache_ttl 3600
Preferred Package State preferred_state stable
Unix file mask umask 0
Debug Log Level
                                                verbose
Debug Log Level
PEAR password (for
                                               password
                                                                            <not set>
maintainers)
Signature Handling Program sig_bin
Signature Key Directory sig_keydir
Signature Key Id sig_keyid
                                                                            \USBAMP\gnupg\gpg.exe
                                                                            \USBAMP\web_system\php5\pearkeys
                                               sig_keyid
sig_type
username
                                                                            <not set>
Package Signature Type
                                                                            apa
PEAR username (for
maintainers)
                                                 Filename
User Configuration File
                                                                            {\tt F:\USBAMP\web\_system\php5\pear.ini}\\
System Configuration File Filename
                                                                            F:\USBAMP\web_system\php5\pearsys.ini
```

A continuación, sólo queda que veamos los paquetes que tenemos instalados:

Bien, llegados a este paso, tenemos PEAR instalado en nuestro sistema.

3.3 Clases base de PEAR.

PEAR incluye una serie de clases predefinidas. Estos objetos se dividen en dos grupos: clases bases y clases de instalación.

Mientras que las clases de instalación proporcionan una *API* para la administración y organización de los paquetes *PEAR*, las clases base definen la funcionalidad mínima de las clases empleadas en los paquetes del proyecto *PEAR*.

Las clases base de *PEAR*, que son la que resultan de mayor importancia para nuestros intereses, son:

- Clase PEAR: es la clase principal, y de ella heredan la mayoría de las clases. Proporciona funcionalidad estándar para la destrucción de objetos, y la gestión de errores.
- Clase PEAR_Error: esta clase es la principal fuente de información en la gestión de errores, y es utilizada en aquellos casos en que se haya producido un error.
- Clase Intelligent_Error_Handling_with_PEAR_ErrorStack: se trata de un sistema avanzado de gestión y administración de errores que todavía se encuentra en fase experimental.
- Clase System: proporciona un conjunto de comandos que compatibilizan PEAR con los programas de consola, independientemente de la arquitectura hardware empleada. Incluye básicamente funciones de gestión de directorios.

3.4 Línea de comandos de PEAR.

La línea de comandos de *PEAR* es el método más sencillo de instalación de paquetes.

Para instalar un paquete concreto en *PEAR* tan sólo es necesario ejecutar la instrucción,

Además, podemos visualizar los paquetes disponibles mediante el comando

```
$ pear remote-list
```

Aunque estas instrucciones son las más frecuentes, existen multitud de acciones disponibles mediante el uso del comando *pear*. Dichas instrucciones se encuentran enumeradas a continuación:

Command	Description
Build	Construye la extensión a partir del fuente
Bundle	Descarga y descomprime la extensión PECL
channel-add	Añade un canal (PEAR 1.4+)
channel-alias	Especifica un alias a un canal (PEAR 1.4+)
channel-delete	Elimina un canal de la lista (PEAR 1.4+)
channel-discover	Inicializa un canal del servidor (PEAR 1.4+)
channel-info	Muestra la información de un canal (PEAR 1.4+)
channel-update	Actualiza un canal existente (PEAR 1.4+)
clear-cache	Limpia la cache XML-RPC
config-create	Crea un fichero de configuración por defecto (PEAR 1.4+)
config-get	Muestra las opciones de un parámetro de configuración
config-help	Muestra información de la configuración
config-set	Establece el valor de un parámetro de configuración
config-show	Muestra todos los parámetros de configuración
convert	Convierte un package.xml de formato 1.0 a 2.0 (PEAR 1.4+)
cvsdiff	Ejecuta y muestra un "cvs diff -u" sobre todos los ficheros de un paquete

cvstag	Establece un tag CVS
download	Descarga un paquete sin instalarlo
download-all	Descarga todos los paquetes disponibles
info	Muestra información sobre un paquete
install	Instala un paquete, informando del estado de la instalación
list	Lista los paquetes instalados
list-all	Lista todos los paquetes
list-channels	Lista los canales disponibles (PEAR 1.4+)
list-files	Lista los ficheros de un paquete previamente instalado (PEAR 1.4+)
list-upgrades	Lista las actualizaciones disponibles para un paquete instalado
login	Conecta y se autentica en un servidor PEAR remoto
logout	Se desconecta de un servidor PEAR remoto
makerpm	Construye un fichero RPM desde un paquete PEAR
package	Construye un paquete
package- dependencies	Muestra las dependencies de un paquete
package-validate	Valida la consistencia de un paquete
remote-info	Muestra información sobre paquetes remotos
remote-list	Lista los paquetes remotos
run-scripts	Ejecuta scripts post-instalación (PEAR 1.4+)
run-tests	Ejecuta tests
search	Busca paquetes remotos
shell-test	Ejecuta un test shell script
sign	Firma un fichero de distribución de paquetes
uninstall	Desinstala y elimina un paquete
update-channels	Actualiza la lista de canales (PEAR 1.4+)
Upgrade <paquete></paquete>	Actualiza un paquete a la versión actual
upgrade-all	En desuso. Actualiza todos los paquetes, equivale a upgrade sin especificar ningún parámetro.

3.5 Parámetros de configuración.

PEAR dispone de un conjunto de parámetros de configuración que permiten especificar y refinar el funcionamiento de PEAR. Dichos parámetros son accesibles mediante los comandos config-get, confighelp, config-set y config-show. Durante la instalación se establece un conjunto de valores por defecto, que pueden ser modificados por el administrador del sistema.

Dichos parámetros de configuración se muestran en la siguiente lista:

Variable	Descripción	Default Value
bin_dir	Directorio de los ejecutables	/usr/bin
doc_dir	Directorio de la documentación	/usr/lib/php/docs
ext_dir	Directorio de las extensiones	./
php_dir	Directorio de los ficheros PHP	/usr/lib/php
cache_dir	Directorio de la caché PEAR (usado por XMLRPC)	/tmp/pear/cache
data_dir	Directorio de los ficheros de datos	/usr/lib/php/data
php_bin	PHP CLI o binario CGI (ruta del ejecutable)	/usr/bin/php
test_dir	Directorio de los tests	/usr/lib/php/tests
cache_ttk	Número de segundos de vida de la caché local	3600
preferred_state	Estado preferente de la caché	stable
umask	Máscara umask usada en la creación de ficheros	22
verbose	Nivel de debug: 0-3. Siendo 3 el debug complete.	1
http_proxy	Dirección opcional de proxy HTTP (host:port)	
remote_config	Fichero de configuración remoto, usado como espejo del fichero local mediante FTP. (PEAR 1.4+)	
auto_discover	Autodescrubrir nuevos canales	0
default_channel	Canal por defecto (PEAR 1.4+)	pear.php.net
preferred_mirror	Espejo preferido del canal (PEAR 1.4+)	pear.php.net
master_server	Servidor PEAR [deprecated in PEAR 1.4+]	pear.php.net
password	Contraseña PEAR	
sig_bin	Programa de administración de firmas	/sw/bin/gpg
sig_keydir	Directorio de llaves de la firma	/etc/pearkeys

sig_keyid	Llave usada para firmar	
sig_type	Tipo de firma de los paquetes (sólo gpg)	gpg
username	Nombre de usuario PEAR	

3.6 Los paquetes PEAR

El proyecto PEAR ha crecido hasta lo indecible, se ofrecen librerías para multitud de funcionalidad, incluso, multitud de alternativas para una misma cosa.

La información sobre la funcionalidad de los paquetes para PHP5 puede encontrarse en:

http://pear.php.net/packages.php?php=5

Pero para hacerse una idea, podemos ver lo que devuelve el PEAR al listar todos los paquetes:

```
F:\USBAMP\web_system\php5>pear list-all
   ALL PACKAGES [CHANNEL PEAR.PHP.NET]:
                                                                                                                                                                                                                                                   LATEST LOCAL
2.1.6 HTTP authentication
1.6.1 Creating an authentication system.
1.0.3 Abstraction of various SASL mechanism responses
0.16.13 User authentication and permission management framework
1.2.0 Preferences management class
1.0.6 Mrapper Classes for the RADIUS PECL.
2.0.0devl Preferences management class
1.3.9 User authentication and permission management framework
1.2.7 Framework to benchmark PHP scripts or function calls.
1.5.5 Framework to caching of arbitrary data.
1.7.8 Fast and Safe little cache system
1.10.11 1.10.11 Your configuration's swiss-army knife.
1.2.3 1.2.3 Command-line option parser
1.1.3 Command-line option parser
1.1.3 This Class allows you to easily use ANSI console colors in your
   PACKAGE
                                                                                                                                                                                                                                                             LATEST
   pear/Auth_HTTP
pear/Auth
pear/Auth_SASL
pear/Auth_SASL
pear/Auth_SASL
pear/LiveUser
pear/Auth_PrefManager
pear/Auth_PrefManager
pear/Auth_PrefManager2
pear/LiveUser_Admin
pear/Benchmark
pear/Cache_Lite
pear/Cache_Lite
pear/Console_Getopt
pear/Console_Table
pear/Console_Table
pear/Console_Getargs
pear/Console_Getargs
pear/Console_Getargs
pear/Console_Getargs
pear/Console_Getargs
pear/Console_Getargs
pear/DB_Pager
pear/DB_Pager
pear/DB_DataObject
pear/DB_DataObject
pear/DB_DataObject
pear/DB_DataObject
pear/DB_QueryTool
pear/DB_QueryTool
pear/DB_QueryTool
pear/DB_QueryTool
pear/DB_QueryTool
pear/DB_QueryTool
pear/DB_DataObject_FormBui
pear/DB_DataOb
     pear/LiveUser
                                                                                                                                                                                                                                                      This class allows you to easily use ANSI console colors in your

0.5.2beta
This class provides you with an easy-to-use interface to progress bars.

1.3.4
A command-line arguments parser
1.0.0RC1
Command-line option parser - Console Getopt+ (Getopt Plus)
0.7.2
Retrieve and return information of database result sets
1.7.14RC1
Database Abstraction Layer
1.3.0
database abstraction layer
1.3.1
DB driver which use MS ADODB library
1.8.12
An SQL Builder, Object Interface to Database Tables
1.1.1
Berkely-style database abstraction class
0.2.0
Berkely-style database abstraction class
0.2.0
DB interface to LDAP server
0.5
An SQL parser
1.1.2
An OO-interface for easily retrieving and modifying data in a DB.
1.2.2
An OO-interface for easily retrieving and modifying data in a DB.
0.5.0
DB drivers for LDAP v2 and v3 database
0.1
An GKL Database schema designer
1.4.0RC1
API to build and query nested sets
1.0.0
Class to automatically build HTML_QuickForm objects from a DB_DataObject-
  pear/DB_NestedSet
pear/DB_DataObject_FormBuilder
derived class
                                                                                                                                                                                                                                                     2.5.0b2 2.4.1 database abstraction layer
1.5.6 An object oriented interface to, and model of, a database. Integrates with
  pear/MDB2
pear/MDB2
pear/MDB_Table
HTML_QuickForm.
pear/DB_Sqlite_Tools
backup Sqlite databases.
                                                                                                                                                                                                                                                       0.1.6
                                                                                                                                                                                                                                                                                                                                                                       DB_Sqlite_Tools is an object oriented interface to effectively manage and
                                                                                                                                                                                                                                                         1.0.4
                                                                                                                                                                                                                                                                                                                                                                     DB interface for ODBTP
   pear/DB_odbtp
                                                                                                                                                                                                                                                          0.8.5
1.3.0b2
1.5.0b2
   pear/MDB2_Schema
                                                                                                                                                                                                                                                                                                                                                                       XML based database schema manager
     pear/MDB2_Driver_mssql
                                                                                                                                                                                                                                                                                                                                                                       mssql MDB2 driver
sqlite MDB2 driver
   pear/MDB2_Driver_sqlite
pear/MDB2_Driver_querysim
                                                                                                                                                                                                                                                          0.6.0
1.5.0b2
1.5.0b2
1.5.0b2
                                                                                                                                                                                                                                                                                                                                                                         querysim MDB2 driver
   pear/MDB2_Driver_pgsql
pear/MDB2_Driver_oci8
                                                                                                                                                                                                                                                                                                                                                                     pgsql MDB2 driver
oci8 MDB2 driver
                                                                                                                                                                                                                                                  0b2
.0b2
.0b2
5.0b2
.2.0
0.1.1
0.1.1
1.5.0a1
0.5.4
.21.4
                                                                                                                                                                                                                                                                                                                                                                   mysqli MDB2 driver
mysqli MDB2 driver
mysqli MDB2 driver
fbsql MDB2 driver
fbsql MDB2 driver
API to build and query nested sets
Database table abstraction library
Driver based class to calculate holidays in Italy.
Driver based class to calculate holidays in Japan.
Generic date/time handling class for PEAR
A package for building Calendar data structures (irrespective of output)
Driver based class to calculate holidays in Ireland.
Driver based class to calculate holidays in Ireland.
Driver based class to calculate holidays in Teeland.
Driver based class to calculate holidays in Genamy.
Driver based class to calculate holidays in England and Wales.
Driver based class to calculate Discordian holidays.
Driver based class to calculate Discordian holidays.
Driver based class to calculate holidays in Denmark.
Driver based class to calculate holidays in Brazil.
   pear/MDB2_Driver_mysqli
                                                                                                                                                                                                                                                                                                                                                                      mysqli MDB2 driver
   pear/MDB2_Driver_mysql
pear/MDB2_Driver_ibase
pear/MDB2_Driver_fbsql
pear/DB_NestedSet2
     pear/MDB2_TableBrowser
     pear/Date Holidays Italy
     pear/Date_Holidays_Japan
     pear/Calendar
   pear/Date_Holidays
pear/Date_Holidays_Ireland
pear/Date_Holidays_Ireland
pear/Date_Holidays_Germany
pear/Date_Holidays_EnglandWales
pear/Date_Holidays_Discordian
pear/Date_Holidays_Denmark
pear/Date_Holidays_Brazil
                                                                                                                                                                                                                                                          0.21.4
0.1.2
0.1.2
0.1.2
0.1.2
```

pear/Date_Holidays_Austria	0.1.4	Driver based class to calculate holidays in Austria.
pear/Date_Holidays_Netherlands pear/Date_Holidays_Norway	0.1.4 0.1.2 0.1.2	Driver based class to calculate holidays in the Netherlands. Driver based class to calculate holidays in Norway.
pear/Date_Holidays_PHPdotNet	0.1.2	Driver based class to calculate horidays in Norway. Driver based class to calculate birthdays of some members of the PHP.net
community. pear/Date_Holidays_Romania	0.1.2	Driver based class to calculate holidays in Romania.
pear/Date_Holidays_Slovenia pear/Date_Holidays_Sweden	0.1.2 0.1.2	Driver based class to calculate holidays in Slovenia. Driver based class to calculate holidays in Sweden.
pear/Date_Holidays_Ukraine pear/Date_Holidays_UNO	0.1.2 0.1.3	Driver based class to calculate holidays in the Ukraine. Driver based class to calculate holidays in UNO.
pear/Date_Holidays_USA pear/Crypt_CBC	0.1.1 1.0.0	Driver based class to calculate holidays in USA. A class to emulate Perl's Crypt::CBC module.
pear/Crypt_RC4 pear/Crypt_Xtea	1.0.2	Encryption class for RC4 encryption A class that implements the Tiny Encryption Algorithm (TEA) (New Variant).
pear/Crypt_CHAP	0.6 1.0.2	Message hash and digest (HMAC) generation methods and classes Generating CHAP packets.
pear/Crypt_HMAC	1.0.1	A class to calculate RFC 2104 compliant hashes.
pear/Crypt_Blowfish PHP extension.	1.1.0RC2	Allows for quick two-way blowfish encryption without requiring the MCrypt
pear/Crypt_RSA signature checking	1.2.1	Provides RSA-like key generation, encryption/decryption, signing and
pear/Crypt_XXTEA pear/Crypt_GPG	0.9.0 1.0.0	An implementation of the XXTEA encryption algorithm. GNU Privacy Guard (GnuPG)
pear/Crypt_DiffieHellman PHP5	0.2.3	Implementation of Diffie-Hellman Key Exchange cryptographic protocol for
pear/Crypt_HMAC2 pear/Crypt_MicroID	0.2.1 0.1.0	Implementation of Hashed Message Authentication Code for PHP5 PHP MicroID library.
pear/Event_Dispatcher	1.1.0	Dispatch notifications using PHP callbacks
<pre>pear/Event_SignalEmitter pear/Archive_Tar</pre>	1.3.3 1.3.3	Generic signal emitting class with the same API as GObject. Tar file management class
pear/File_Passwd pear/File_HtAccess	1.1.7 1.2.1	Manipulate many kinds of password files Manipulate .htaccess files
<pre>pear/Spreadsheet_Excel_Writer pear/File_SMBPasswd</pre>	0.9.1 1.0.3	Package for generating Excel spreadsheets Class for managing SAMBA style password files.
<pre>pear/Contact_Vcard_Parse pear/Contact_Vcard_Build</pre>	1.31.0 1.1.2	Parse vCard 2.1 and 3.0 files. Build (create) and fetch vCard 2.1 and 3.0 text blocks.
pear/File_DICOM pear/MP3_Id	0.3 1.2.1	Package for reading and modifying DICOM files Read/Write MP3-Tags
pear/File_Ogg pear/Archive_Zip	0.3.0	Retrieves metadata from Ogg files. Zip file archiving management class
pear/File_IMC vCalendar)	0.4.0	Create and parse Internet Mail Consortium-style files (like vCard and
pear/Genealogy_Gedcom	1.0.1	Gedcom parser
pear/File_Gettext pear/MP3_Playlist	0.4.1 0.5.1alphal	GNU Gettext file parser Library to create MP3 playlists on the fly, several formats supported
including XML, RSS and XHTML pear/File_Fstab	2.0.2	Read and write fstab files
pear/File_Bittorrent pear/File_PDF	1.1.0 0.3.2	Decode and Encode data in Bittorrent format PDF generation using only PHP.
pear/File_DNS pear/Contact_AddressBook	0.0.8 0.5.0	Manipulate RFC1033-style DNS Zonefiles Address book export-import class
<pre>pear/File_Archive zip, ar (or deb) files</pre>	1.5.4	File_Archive will let you manipulate easily the tar, gz, tgz, bz2, tbz,
pear/File_Fortune files.	1.0.0	File_Fortune provides an interface for reading from and writing to fortune
pear/MP3_IDv2 pear/File_XSPF	0.1.4	Read/Write IDv2-Tags Package for Manipulating XSPF Playlists
pear/File_MARC	0.3.0	Parse, modify, and create MARC records
pear/OpenDocument pear/File_CSV	0.2.0 1.0.0alphal	Read, create and modify OASIS OpenDocument office files. Read and write of CSV files
<pre>pear/File_Bittorrent2 pear/File_DeliciousLibrary</pre>	1.3.1 0.1.1	Decode and Encode data in Bittorrent format Parser for the library database of the Delicious Library software.
pear/File_Infopath file	0.1.0	A package to read the schema and views in html from a Microsoft Infopath
<pre>pear/File_Cabinet pear/File_Sitemap</pre>	0.1.0 0.1.2	Microsoft Cabinet file extraction using either cabextract or expand Create and manage sitemap files.
<pre>pear/File_CSV_DataSource pear/File_Find</pre>	1.0.0	Simple data access object for csv files in php5. A Class the facilitates the search of filesystems
pear/File pear/File_Mogile	1.4.0alphal 0.1.0	Common file and directory routines PHP interface to MogileFS
pear/File_SearchReplace and doesn't provide separate fu	1.1.2	Performs search and replace routines. The package always perform replace
nctions for search. pear/VFS	0.2.0	Virtual File System API
pear/File_Util	1.0.0alphal 1.0.0	Common file and directory utility functions A simple GUI to example php data trees
pear/Gtk_VarDump pear/Gtk_ScrollingLabel	1.0.0	A scrolling label for PHP-Gtk
pear/Gtk_FileDrop pear/Gtk_Styled	1.0.2	Make Gtk widgets accept file drops PHP-GTK pseudo-widgets that mimic GtkData based objects and allow the look
and feel to be controlled by the programmer.		
<pre>pear/Gtk2_VarDump pear/Gtk2_ScrollingLabel</pre>	1.0.0 0.4.1	A simple GUI to examine php data trees A Scrolling label for PHP-Gtk2
pear/Gtk2_FileDrop pear/Gtk2_PHPConfig	1.0.0 1.0.0RC1	Make Gtk widgets accept file drops GUI Interface to the php.ini file
pear/Gtk2_IndexedComboBox pear/Gtk2_EntryDialog	1.1.0	Indexed Gtk2 combo box similar to the HTML select box. Message box with text entry field
pear/Gtk2_ExceptionDump pear/Pager	1.1.0	Analyze exceptions, php and PEAR errors visually Data paging class
pear/HTML_QuickForm validating, processing HTML forms.	3.2.11	The PEAR::HTML_QuickForm package provides methods for creating,
pear/HTML_Template_IT		Integrated Templates
pear/HTML_Template_PHPLIB pear/HTML_Common	1.5.0	preg_* based template system. PEAR::HTML_Common is a base class for other HTML classes.
pear/HTML_Table and efficient.	1.8.2	PEAR::HTML_Table makes the design of HTML tables easy, flexible, reusable
pear/HTML_TreeMenu pear/HTML_Javascript	1.2.1 1.1.1	Provides an api to create a HTML tree Provides an interface for creating simple JS scripts.
pear/HTML_Template_Flexy pear/HTML_Crypt	1.3.9 1.3.3	An extremely powerful Tokenizer driven Template engine Encrypts text which is later decoded using javascript on the client side
pear/HTML_Select_Common pear/Pager_Sliding	1.1	Some small classes to handle common <select> lists Sliding Window Pager.</select>
pear/HTML_Form pear/HTML_Template_Xipe	1.3.0	Simple HTML form package A simple, fast and powerful template engine.
pear/HTML_Template_Sigma added	1.2.0	An implementation of Integrated Templates API with template 'compilation'
pear/HTML_Page	2.0.0RC2 1.2.1	PEAR::HTML_Page is a base class for XHTML page generation.
pear/HTML_Select pear/HTML_BBCodeParser	1.2.2	HTML_Select is a class for generating HTML form select elements. This is a parser to replace UBB style tags with their html equivalents.
pear/HTML_CSS style sheets	1.5.4	Provides a simple interface for validate, handle and generate cascading
pear/HTML_Progress pear/HTML_Menu	1.2.6 2.1.4	How to include a loading bar in your XHTML documents quickly and easily. Generates HTML menus from multidimensional hashes.
<pre>pear/HTML_QuickForm_Controller forms</pre>	1.0.9	The add-on to $\operatorname{HTML_QuickForm}$ package that allows building of multipage
pear/HTML_Table_Matrix pear/HTML_Page2	1.0.10 0.6.0beta	Autofill a table with data PEAR::HTML_Page2 is a base class for XHTML page generation.
pear/HTML_Progress2 pear/HTML_Common2	2.4.1 2.0.0betal	How to include a loading bar in your XHTML documents quickly and easily. Abstract base class for HTML classes (PHP5 port of HTML_Common package).
pear/HTML_QuickForm_SelectFilter client side for select elements.	1.0.0RC1	Element for PEAR::HTML_QuickForm that defines dynamic filters on the
pear/HTML_Safe pear/HTML_QuickForm_advmultiselect	0.9.9beta 1.5.1	This parser strips down all potentially dangerous content within HTML Element for HTML_QuickForm that emulate a multi-select.
pear, rmi_varekrorm_advmurtiserect	1.3.1	DICHEMO TOT HIPPL VALUE CHARLES CHARLES A MALLIT-SCIECE.

(VIII)	0.5.6	
<pre>pear/HTML_AJAX pear/HTML_QuickForm_Livesearch</pre>	0.5.6 0.4.0	PHP and JavaScript AJAX library Element for HTML_QuickForm to enable a suggest search.
pear/HTML_QuickForm2 pear/HTML_QuickForm_Renderer_Tableless	0.2.0 0.6.1	PHP5 rewrite of HTML_QuickForm package Replacement for the default renderer that doesn't use table tags, and
generates		fully valid XHTML output.
pear/HTML_QuickForm_DHTMLRulesTableless	0.3.3	DHTML replacement for the standard JavaScript alert window for client-side validation using the tableless renderer
pear/HTML_QuickForm_CAPTCHA pear/HTML TagCloud	0.3.0	Drop-in CAPTCHA element for QuickForm forms
Additionally visualizes each tag'	0.2.3	Generate a "Tag Cloud" in HTML and visualize tags by their frequency.
s age. pear/HTML_QuickForm_ElementGrid	0.1.1	An HTML_QuickForm meta-element which holds any other element in a grid
<pre>pear/HTML_QuickForm_altselect pear/HTML_QuickForm_Rule_Spelling</pre>	1.1.0	An alternative to HTML_QuickForm_select using radio buttons and checkboxes A HTML_QuickForm rule plugin that checks the spelling of its values
pear/HTML_Entities	0.2.2	Convert text to/from HTML entities. Miscellaneous HTTP utilities
pear/HTTP pear/HTTP_Upload	1.0.0bl	Easy and secure managment of files submitted via HTML Forms
<pre>pear/HTTP_FloodControl pear/HTTP_Request</pre>	0.1.1	Detect and protect from attempts to flood a site Provides an easy way to perform HTTP requests
pear/HTTP_Header pear/HTTP_Session	1.2.0 0.5.6	00 interface to modify and handle HTTP headers and status codes. Object-oriented interface to the session_* family functions
pear/HTTP_WebDAV_Server	1.0.0RC4 1.2.1	WebDAV Server Baseclass. Easy way to perform multiple HTTP requests and process their results
pear/HTTP_Server	0.4.0	HTTP server class.
pear/HTTP_Download pear/HTTP_WebDAV_Client	1.1.3	Send HTTP Downloads WebDAV stream wrapper class
pear/HTTP_Session2 pear/HTTP_SessionServer	0.7.2 0.5.0	PHP5 Session Handler Daemon to store session data that can be accessed via a simple protocol.
<pre>pear/HTTP_Request2 pear/HTTP_OAuth</pre>	0.4.1	Provides an easy way to perform HTTP requests. PEAR implementation of the OAuth spec.
pear/Image_Color	1.0.3	Manage and handles color data and conversions.
<pre>pear/Image_Remote pear/Image_GraphViz</pre>	1.3.0RC3	Retrieve information on remote image files. Interface to AT&T's GraphViz tools
pear/Image_Transform libraries	0.9.3	Provides a standard interface to manipulate images using different
pear/Image_Barcode pear/Image GIS	1.1.0 1.1.1	Barcode generation Visualization of GIS data.
pear/Image_IPTC	1.0.2	Extract, modify, and save IPTC data Generates puzzle pieces from image file.
pear/Image_Puzzle pear/Image_Canvas	0.2.1	A package providing a common interface to image drawing, making image
source code independent on the li brary used.		
<pre>pear/Image_Graph pear/Image_Text</pre>	0.7.2 0.6.0beta	A package for displaying (numerical) data as a graph/chart/plot. Image_Text - Advanced text maipulations in images.
pear/Image_Tools pear/Image_XBM	1.0.0RC1 0.9.0RC1	Tools collection for image manipulation. Manipulate XBM images
pear/Image_3D	0.4.1	This class allows the rendering of 3 dimensional objects utilizing PHP.
<pre>pear/Image_Color2 pear/Image_MonoBMP</pre>	0.1.4 0.1.0	Color conversion and mixing for PHP5 Manipulate monochrome BMP images
pear/Image_WBMP pear/Image_JpegMarkerReader	0.1.0 0.5.0	Manipulate WBMP images Read arbitrary markers from JPEG files.
pear/Image_JpegXmpReader pear/Translation	0.5.1 1.2.6pl1	Read Photoshop-style XMP metadata from JPEG files. Class for creating multilingual websites.
pear/I18N pear/Translation2	0.8.6 2.0.1	Internationalization package Class for multilingual applications management.
pear/I18Nv2	0.11.4	Internationalization
pear/I18N_UnicodeString pear/I18N_UnicodeNormalizer	0.2.1 1.0.0	Provides a way to work with self contained multibyte strings Unicode Normalizer
pear/Gettext pear/Log	1.11.5	Compatibility implementation of gettext localization interface. Logging Framework
pear/Net_NNTP pear/Mail_IMAPv2	1.4.0	NNTP implementation Provides a c-client backend for webmail.
pear/Mail_Mime	1.5.2	Mail_Mime provides classes to create mime messages.
pear/Mail pear/Mail_Mbox	1.2.0b2 0.6.0	Class that provides multiple interfaces for sending emails Read and modify Unix MBOXes
<pre>pear/Mail_Queue pear/Mail_IMAP</pre>	1.2.3 1.1.0RC2	Class for put mails in queue and send them later in background. Provides a c-client backend for webmail.
pear/Mail_mimeDecode pear/Math Basex	1.5.0	Provides a class to decode mime messages. Simple class for converting base set of numbers with a customizable
character base set. pear/Math_Vector	0.6.2	Vector and vector operation classes
pear/Math_Stats	0.9.0beta3	Classes to calculate statistical parameters
pear/Math_Histogram pear/Math_TrigOp	0.9.0 1.0	Classes to calculate histogram distributions Supplementary trigonometric functions
pear/Math_Complex pear/Math_Integer	0.8.5 0.8	Classes that define complex numbers and their operations Package to represent and manipulate integers
pear/Math_Fibonacci pear/Math_Quaternion	0.8 0.7.1	Package to calculate and manipulate Fibonacci numbers Classes that define Quaternions and their operations
pear/Math_Matrix pear/Math_RPN	0.8.5	Class to represent matrices and matrix operations Reverse Polish Notation.
pear/Math_Numerical_RootFinding	1.1.0al	Numerical Root-Finding methods package in PHP
pear/Math_BinaryUtils pear/Math_Fraction	0.3.0 0.4.1	Collection of helper methods for easy handling of binary data. Classes that represent and manipulate fractions.
pear/Math_Finance pear/Math_Polynomial	1.0.0	Financial functions Package to represent and manipulate Polynomial equations
pear/Math_Derivative pear/Math_BigInteger	1.0.0RC1 1.0.0RC3	Calculate the derivative of a mathematical expression Pure-PHP arbitrary precision integer arithmetic library
pear/Math_Combinatorics	1.0.0RC3 1.0.0 0.0.7	A package that produces combinations and permutations IRC Client Class
<pre>pear/Net_IRC pear/Net_CheckIP</pre>	1.2.1	Check the syntax of IPv4 addresses
<pre>pear/Net_IPv6 pear/Net_Ping</pre>	1.1.0b2 2.4.4	Check and validate IPv6 addresses Execute ping
pear/Net_Whois and network number directory se	1.0.1	The PEAR::Net_Whois class provides a tool to query internet domain name
rvices pear/Net_Portscan	1.0.2	Portscanner utilities.
pear/Net_POP3	1.0.2 1.3.7 1.2.5	Provides a POP3 class to access POP3 server. Net Curl provides an OO interface to PHP's CURL extension
pear/Net_Curl pear/Net_URL	1.0.15	Easy parsing of Urls
pear/Net_Dig command	0.1	The PEAR::Net_Dig class should be a nice, friendly 00 interface to the dig
<pre>pear/Net_Geo pear/Net_DNS</pre>	1.0.4	Geographical locations based on Internet address Resolver library used to communicate with a DNS server.
pear/Net_UserAgent_Detect from an HTTP user agent string	2.5.1	Net_UserAgent_Detect determines the Web browser, version, and platform
pear/Net_Socket	1.0.9	Network Socket Interface
<pre>pear/Net_Sieve pear/Net_SMTP</pre>	1.3.3	Handles talking to timsieved An implementation of the SMTP protocol
pear/Net_DIME pear/Net_IPv4	1.0.1 1.3.1	The Net_DIME package implements DIME encoding and decoding IPv4 network calculations and validation.
pear/Net_FTP additions	1.4.0a2	Net_FTP provides an OO interface to the PHP FTP functions plus some
pear/Net_Dict pear/Net_Ident	1.0.6 1.1.0	Interface to the DICT Protocol Identification Protocol implementation
pear/Net_SmartIRC	1.0.1	Net_SmartIRC is a PHP class for communication with IRC networks
<pre>pear/Net_Finger pear/Net_UserAgent_Mobile</pre>	1.0.1	The PEAR::Net_Finger class provides a tool for querying Finger Servers HTTP mobile user agent string parser
pear/Net_IMAP pear/Net_LMTP	1.1.0	Provides an implementation of the IMAP protocol Provides an implementation of the RFC2033 LMTP protocol
pear/Net_Server pear/Net_Traceroute	1.0.2	Generic server class Execute traceroute
pear/Net_Traceroute pear/Net_LDAP	1.1.5	Object oriented interface for searching and manipulating LDAP-entries

<pre>pear/Net_Cyrus pear/Net_GameServerQuery</pre>	0.3.1 0.2.0	provides an API for the administration of Cyrus IMAP servers. An interface to query and return information from a game server
pear/Net_SMS	0.1.0	SMS functionality.
pear/Net_DNSBL (DNSBL, Real-time Blackhole List	1.3.3	Checks if a given Host or URL is listed on an DNS-based Blackhole List
or RBL) or Spam URI Realtime Blocklist (SURI pear/Net_GeoIP	BL) 1.0.0RC2	Library to perform geo-location lookups of IP addresses.
pear/Net_HL7	0.1.1	HL7 messaging API.
pear/Net_IDNA pear/Net_Monitor	0.7.3	Punycode encoding and decoding. Remote Service Monitor
pear/Net_FTP2		Net_FTP2 provides an OO interface for communication with FTP servers.
pear/Net_Wifi pear/Net_SMPP	1.0.0	Scans for wireless networks SMPP v3.4 protocol implementation
pear/Net_SMPP_Client pear/Net_Growl	0.3.2	SMPP v3.4 client Send notifications to Growl from PHP on MACOSX
pear/Net_CDDB	0.3.0	Package to access and query, and build CDDB audio-CD servers
pear/Net_CheckIP2 pear/Net_MPD	1.0.0RC2 1.0.2	A package to determine if an IP (v4) is valid. Music Player Daemon interaction API
pear/Net_MAC	0.1.5	Validates and formats MAC addresses
pear/Net_URL_Mapper applications.	0.9.0	Provides a simple and flexible way to build nice URLs for web
<pre>pear/Net_URL2 pear/Net_Vpopmaild</pre>	0.3.0	Easy parsing of Urls Class for accessing Vpopmail's vpopmaild daemon
pear/Net_Nmap	1.0.2	A simple wrapper class for the Nmap utility
pear/URI_Template pear/Net_LDAP2	0.3.0 2.0.6	Parser for URI Templates. Object oriented interface for searching and manipulating LDAP-entries
pear/Net_Gearman	0.2.3	A PHP interface to Danga's Gearman
<pre>pear/AsteriskManager pear/Net_UserAgent_Mobile_GPS</pre>	0.1.1	Control an Asterisk PBX server from PHP Interface for GPS
pear/Numbers_Roman pear/Numbers_Words	1.0.2 0.16.1	Provides methods for converting to and from Roman Numerals. The PEAR Numbers_Words package provides methods for spelling numerals in
words.		
pear/Payment_PayPal_SOAP pear/Payment_Clieop	0.2.1 0.1.2	PayPal SOAP API client These classes can create a clieop03 file for you which you can send to a
Dutch Bank. Ofcourse you need also a Dutch bank account.		
pear/Payment_Process	0.6.6	Unified payment processor
<pre>pear/Payment_DTA pear/Payment_Process2</pre>	1.3.2	Creates DTA and DTAZV files containing money transaction data (Germany). A PHP5 Payment process API
pear/Payment_PagamentoCerto	0.2.2	PHP client to Brazilian payment gateway PagamentoCerto
(http://www.pagamentocerto.com.br/) pear/PEAR		PEAR Base System
pear/PEAR_Frontend_Gtk pear/PEAR_Frontend_Web	0.4.0	Gtk (Desktop) PEAR Package Manager Webbased PEAR Package Manager
pear/PEAR_Info	1.9.2	Show Information about your PEAR install and its packages
pear/PEAR_PackageFileManager with a new filelist and chang	1.7.0	PEAR_PackageFileManager takes an existing package.xml file and updates it
elog	0.1.0	Polonikim for PUP
<pre>pear/PEAR_Delegator pear/PEAR_PackageFileManager_GUI_Gtk</pre>	0.1.0 1.0.1	Delegation for PHP A PHP-GTK frontend for the PEAR_PackageFileManager class.
<pre>pear/PEAR_RemoteInstaller pear/PEAR_Frontend_Gtk2</pre>	0.3.1	PEAR Remote installation plugin through FTP, SFTP, and FTPS Graphical PEAR installer based on PHP-Gtk2
pear/PEAR_Command_Packaging	0.2.0	make-rpm-spec command for managing RPM .spec files for PEAR packages
<pre>pear/PEAR_PackageUpdate pear/PEAR_PackageUpdate_Gtk2</pre>	1.1.0RC1 0.3.2	A simple way to update packages at run time. A PHP-GTK 2 front end for PEAR_PackageUpdate
pear/PEAR_PackageFileManager_Frontend	0.7.0	PEAR_PackageFileManager_Frontend, the singleton-based frontend for user
input/output. pear/PEAR_PackageFileManager_Frontend_Web	0.6.0	A Web GUI frontend for the PEAR_PackageFileManager2 class.
<pre>pear/PEAR_PackageUpdate_Web pear/PEAR_PackageFileManager_Cli</pre>	1.0.1	A Web front end for PEAR_PackageUpdate A command line interface to PEAR_PackageFileManager
pear/PEAR_Size	0.1.9	Determine and list how much filespace each installed package consumes.
pear/PEAR_PackageFileManager2 with a new filelist and chan	1.0.0	PEAR_PackageFileManager2 takes an existing package.xml file and updates it
gelog.		
		Tip:
DEAR DackageFileManager Dlugins too		
PEAR_PackageFileManager_Plugins too pear/PEAR_PackageFileManager_Plugins	1.0.0	
	1.0.0	Things have been shifted into plugins, you might want to install
<pre>pear/PEAR_PackageFileManager_Plugins supported are File, CVS, SVN, Per force pear/pearweb_election</pre>	1.0.2	Things have been shifted into plugins, you might want to install The plugins for PEAR_PackageFileManager to pick up what files to use, The source code for the PEAR website election
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r resources (ie, extracting Microformats from webpages).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Shared Memory Stream
Allows stream based access to any variable.
Generic tree management, currently supports databases (via DB, MDB and
            pear/Stream_SHM
pear/Stream_Var
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1.0.0
1.1.0
0.3.4
     pear/Stream_Var
pear/Tree
MDB2) and XML as data sources
pear/OLE
pear/OLE
pear/Structures_Graph
pear/Structures_DataGrid
pear/Structures_DataGrid
pear/Structures_DataGrid
pear/Structures_DataGrid_DataSource_Array
pear/Structures_DataGrid_DataSource_DataObject
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pear/Structures_DataGrid_DataSource_DBQuery
pear/Structures_DataGrid_DataSource_DBTable
pear/Structures_DataGrid_DataSource_MDB2
pear/Structures_DataGrid_DataSource_MDB2
pear/Structures_DataGrid_DataSource_MSS
pear/Structures_DataGrid_DataSource_XML
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Package for reading and writing OLE containers
Construct and validate a logical chess game, does not display
Graph datastructure manipulation library
Render a data table with automatic pagination and sorting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1.0.0RC1
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Render a data table with automatic pagination and sorting
DataSource driver using arrays
DataSource driver using PEAR::DB DataObject
DataSource driver using PEAR::DB DataObject
DataSource driver using PEAR::DB result objects
DataSource driver using PEAR::DB and an SQL query
DataSource driver using PEAR::DB and an SQL query
DataSource driver using PEAR::MDEZ and an SQL query
DataSource driver using RSS files
DataSource driver using RSS files
DataSource driver using RSF ifles
Renderer driver using MEAR::Console Table
Renderer driver using PEAR::Table
Renderer driver using PEAR::Table
Renderer driver using PEAR::TIML_Table
Renderer driver using PEAR::Spreadsheet_Excel_Writer
Renderer driver using PEAR::Spreadsheet_Excel_Writer
Renderer driver that generates a XML string
Renderer driver that generates the XML string for a XUL listbox
Handling of BibTex Data.

A package designed to make creating input forms easy for packages and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.1.11
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       pear/Structures_DataGrid_Renderer_Console 0.1.1
pear/Structures_DataGrid_Renderer_CSV
pear/Structures_DataGrid_Renderer_HTMLSortForm 0.1.3
pear/Structures_DataGrid_Renderer_HTMLTable 0.1.5
pear/Structures_DataGrid_Renderer_Pager 0.1.3
pear/Structures_DataGrid_Renderer_Samarty 0.1.4
pear/Structures DataGrid Renderer Smarty
pear/Structures DataGrid Renderer XLS
pear/Structures DataGrid Renderer XLS
pear/Structures DataGrid Renderer XLL
pear/Structures Form
applications regardless of their
user interface.
pear/Structures Form_Gtk2
forms using Structures Form,
pear/Structures Form_Gtk2
forms using Structures Form.
pear/Structures DataGrid DataSource_Excel
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pear/System_Command
pear/System_Fookatch
pear/System_StaredMemory
pear/System_SharedMemory
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pear/Festing_Selenium
pear/PHPUDnit
pear/Testing_Selenium
pear/Testing_FIT
pear/Testing_DocTest
pear/Text_Statistics
pear/Text_Statistics
pear/Text_Wiki
This is the base engine for a
ll of the Text_Wiki sub-classes.
pear/Text_Diff
pear/Text_Diff
pear/Text_Diff
pear/Text_Highlighter
pear/Text_Diff
pear/Text_Highlighter
pear/Text_Miki_BBCode
pear/Text_Wiki_BBCode
pear/Text_Wiki_BBCode
pear/Text_Wiki_Iiki
pear/Text_LAnguageDetect
pear/Text_LAnguageDetect
pear/Text_LAnguageDetect
pear/Text_LAnguageDetect
pear/Text_LAnguageDetect
            pear/Structures_DataGrid_Renderer_XLS
pear/Structures_DataGrid_Renderer_XML
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A collection of elements, groups and renderers for creating PHP-GTK 2
DataSource driver using Excel spreadsheets
Implements singly and doubly-linked lists
Renderer driver using Flexy
DataSource driver using FHP Data Objects (PDO) and an SQL query
PEAR::System_Command is a commandline execution interface.
Monitor Processes
OO socket API
Mount and unmount devices in fstab
List files drives on windows systems
common OO-style shared memory API
Location of system Folders
Turn PHP scripts into Linux daemons
PHP Client for Selenium RC
Regression testing framework for unit tests.
Regression testing framework for unit tests.
PIT: Framework for Integrated Test
A Unit Test framework for writing tests in your php code docstrings.
Compute readability indexes for documents.
Creating passwords with PHP.
Transforms Wiki and BBCOde markup into XHTML, LaTeX or plain text markup.
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Syntax highlighting
Automated word hyphenation with the TeX algorithm.
Generation of CAPTCHAS
Huffman compression
Render text using FIGlet fonts
BBCode parser for Text_Wiki
Cowiki parser and renderer for Text_Wiki
Doku parser and renderer for Text_Wiki
Tiki parser and renderer for Text_Wiki
Mediawiki parser for Text_Wiki
Language detection class
Provides convenient access to path substrings
Generation of numeral maths captchas
Creole parser and renderer for Text_Wiki
Generates a sound clip saying the contents of a string of characters.
The phpDocumentor package provides automatic documenting of php api
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          pear/Text_Wiki_Tiki
pear/Text_Wiki_Mediawiki
pear/Text_LanguageDetect
pear/Text_PathNavigator
pear/Text_CAPTCHA_Numeral
       pear/Text_CAP/LEA_Numeral
pear/Text_Wiki_Creole
pear/Text_Spell_Audio
pear/PhpDocumentor
directly from the source.
pear/CodeGen_MySQL_UDF
pear/MIME_Type
pear/Search_Mnogosearch
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tool to generate MySQL Upr extensions from an and decorption.
Utility class for dealing with MIME types
Wrapper classes for the mnoGoSearch extention
Library/Tool focusing exclusively on the file size aspect of PHP script
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  pear/MIME_Type
pear/Search_Mnogosearch
pear/ScriptReorganizer
optimization.
pear/CodeGen
pear/CodeGen_PECL
pear/CodeGen_MySQL_plugin
pear/Validate_Parearch(Validate_AT
pear/Validate_CA
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Library/Tool focusing exclusively on the file size aspect of PHP
Tool to create Code generaters that operate on XML descriptions
Tool to generate PECL extensions from an XML description
Abstract base package for MySQL code generators
Tool to generate MySQL Pugins from an XML description
Validation class
Validation class for AT
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Validation class for Canada
Validation class for CR
Validation class for DE
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          pear/Services_Yahoo
pear/Services_JSON
pear/SOAP
pear/Services_W3C_CSSValidator
            pear/SOAP_Interop
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOAP Interop Test Application UDDI for PHP \,
            pear/UDDI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DDDI 10F FMP
Performs currency conversion
This class acts as an interface to various online weather-services.
A package to interface the http:bl API of ProjectHoneyPot.org.
            pear/Services_ExchangeRates
          pear/Services_Weather
pear/Services_ProjectHoneyPot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1.4.4
```

pear/Services_Amazon	0.8.0	PHP interface to Amazon Product Advertising API
pear/Services_Google	0.2.0	Provides access to the Google SOAP Web APIs
pear/Services_Delicious	0.5.0	Client for the del.icio.us web service.
pear/Services Ebay	0.12.0	*** NOTE: this package needs a rewrite to use eBay's new API, if you'd
like to help please follow the 1	******	
ink above in the unmaintained notice ***		
		Interface to eBay's XML-API.
pear/Services_Technorati	0.7.1beta	A class for interacting with the Technorati API
pear/Services_Trackback	0.6.2	Trackback - A generic class for sending and receiving trackbacks.
pear/Services Hatena	0.1.4	WebServices for Hatena
pear/Services_Pingback	0.2.2	A Pingback User-Agent class.
pear/Services_Webservice	0.5.1	Create webservices
pear/Services_DynDNS	0.3.1	Provides access to the DynDNS web service
pear/XML_RPC2	1.0.5	XML-RPC client/server library
pear/Services_OpenSearch	0.2.0	Search A9 OpenSearch compatible engines.
pear/Services_YouTube	0.2.2	PHP Client for YouTube API
pear/Services_W3C_HTMLValidator	1.0.0RC2	An Object Oriented Interface to the W3C HTML Validator service.
pear/Services_Blogging	0.2.3	Access your blog with PHP
pear/Services_Digg	0.4.7	PHP interface to Digg's API
pear/Services_SharedBook	0.2.6	PHP wrapper for SharedBook Open API
pear/Services_Compete	0.1.0	Compete API
pear/Services_Yadis	0.2.3	Implementation of the Yadis Specification 1.0 protocol for PHP5.
pear/Services_TinyURL	0.1.2	PHP interface to TinyURL's API
pear/Services_urlTea	0.1.0	PHP interface to urlTea's API
pear/Services_Akismet	1.0.1	PHP client for the Akismet REST API
pear/Services_Facebook	0.2.8	PHP interface to Facebook's API
pear/Services_Amazon_S3	0.2.0	PHP interface to Amazon S3's API
pear/Services_Yahoo_JP	0.1.1	WebServices for Yahoo!JAPAN
pear/Services_TwitPic	0.1.0	PHP Interface to TwitPic's API
pear/Services_Twitter pear/Services_Atlassian_Crowd	0.4.0	PHP interface to Twitter's API Services_Atlassian_Crowd is a package to use Atlassian Crowd from PHP
	0.9.5	
pear/Services_oEmbed pear/Services_Amazon_SQS	0.2.0	A package for consuming oEmbed PHP API and tools for Amazon SQS (Simple Queue Service)
pear/Services_Amazon_SQS pear/Services_GeoNames	0.2.3	A PHP5 interface to the GeoNames public API
pear/Services ReCaptcha	0.2.1	PHP5 interface to the reCATCHA and the reCATCHA Mailhide API
pear/Services_Kecaptona pear/Services_Scribd	0.1.1	Interface for Scribd's public API.
pear/XML_fo2pdf	0.98	Converts a xsl-fo file to pdf/ps/pcl/text/etc with the help of apache-fop
pear/XML_sql2xml	0.3.4	Returns XML from a SQL-Query.
pear/XML_Tree	2.0.0RC2	*** PHP5 now comes with very good XML handling, consider using it if
possible. Otherwise, use XML_Seria	2.0.0102	This now comes with very good him handling, complain abing it if
lizer ***		
lizer ***		Represent XML data in a tree structure
lizer *** pear/XML_RSS	0.9.10	RSS parser
lizer *** pear/XML_RSS pear/XML_Transformer	1.1.1	RSS parser XML Transformations in PHP
lizer *** pear/XML_RSS pear/XML_Transformer pear/XML_Parser	1.1.1 1.3.2	RSS parser XML Transformations in PHP XML parsing class based on PHP's bundled expat
lizer *** pear/XML_RSS pear/XML_Transformer pear/XML_Parser pear/XML_swg2image	1.1.1 1.3.2 0.1	RSS parser XML Transformations in PHP XML parsing class based on PHP's bundled expat Converts a svg file to a png/jpeg image
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En los temas siguientes veremos que paquetes nos hacen falta para seguir el curso.

CAPÍTULO 4. ACCESO A DATOS PERSISTENTES

4.1 *MySQL*.

MySQL es un SGBD⁴ relacional licenciado bajo la GPL de GNU. Su diseño multihilo le permite soportar una gran carga de forma muy eficiente. MySQL fue creada por la empresa sueca MySQL AB, que mantiene el copyright del código fuente del servidor SQL junto con la marca.

Aunque *MySQL* es software libre, *MySQL AB* distribuye una versión comercial de *MySQL*, que no se diferencia de la versión libre más que en el soporte técnico que se ofrece, y la posibilidad de integrar este gestor en un software propietario. Ya que de no ser así, se vulneraría la licencia *GPL*.

Este gestor de bases de datos es, probablemente, el gestor más usado en el mundo del software libre, debido a su gran rapidez y facilidad de uso. Esta gran aceptación se debe, en parte, a que existen infinidad de librerías y otras herramientas que permiten su uso a través de gran cantidad de lenguajes de programación, además de su fácil instalación y configuración.

4.1.1 Historia de MySQL.

MySQL surgió como un intento de conectar el gestor mSQL a las tablas propias de MySQL AB, usando sus propias rutinas de bajo nivel (ISAM). Tras unas primeras pruebas, se comprobó que mSQL no era lo

⁴ SGBD son las siglas de: Sistema de Gestión de Bases de Datos.

suficientemente flexible, por lo que tuvieron que desarrollar nuevas funciones. Esto resultó en una interfaz *SQL* a su base de datos, cuya interfaz era totalmente compatible con *mSQL*.

No se sabe con exactitud de donde proviene su nombre. Por un lado dicen que sus librerías han llevado el prefijo 'my' durante los diez últimos años. Por otro lado, la hija de uno de los desarrolladores se llama *My*. No se sabe cuál de dichas causas ha dado lugar al nombre de este gestor de bases de datos.

4.1.2 Características de MySQL.

Las principales características de este gestor de bases de datos son las siguientes:

- Funciona bajo diferentes plataformas.
- Gran portabilidad entre sistemas.
- Dispone de *API's* en gran cantidad de lenguajes (*C*, *C++*, *Java* o *PHP*).
- Aprovecha la potencia de sistemas multiprocesador, gracias a su implementación multihilo.
- Soporta gran cantidad de tipos de datos para las columnas.
- Gestión de usuarios y passwords, manteniendo un muy buen nivel de seguridad en los datos.

4.1.3 Herramientas de MySQL.

Aunque podemos encontrar diversas herramientas que nos ayuden a gestionar nuestro sistema *MySQL*, podemos destacar dos herramientas que se encuentran en la página oficial de *MySQL*.

Estas herramientas son: MySQL Administrator, y Query Browser. Ambas herramientas se acoplan a la perfección realizando tareas de administración complementarias.

Según la página oficial, la primera herramienta, *MySQL Administrator*, es una consola visual de administración que permite gestionar el entorno *MySQL* de una forma sencilla, y mejorar la visibilidad de las bases de datos. Entre otras acciones podemos destacar:

- Creación y gestión de las bases de datos y tablas MySQL.
- Gestión de copias de seguridad.
- Monitorización del funcionamiento

Administración de usuarios.

La segunda aplicación es el *Query Browser*, una herramienta visual para la creación, ejecución y optimización de consultas *SQL*. Esta herramienta nos proporciona:

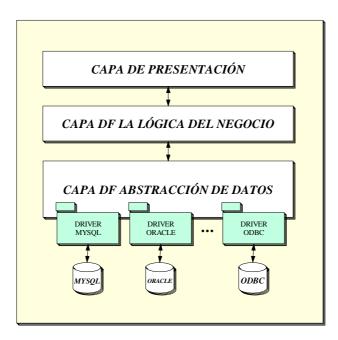
- Entorno para la creación y comprobación de scripts.
- Entorno para la creación de consultas y visualización de resultados.
- Editor de tablas.
- Explorador de bases de datos.

Estas herramientas pueden descargarse desde la dirección *URL* http://dev.mysql.com/downloads/gui-tools/5.0.html.

4.2 Capa de abstracción de datos.

El objetivo de una capa de abstracción es aportar independencia. En el caso concreto de las capas de abstracción de datos, el beneficio obtenido es independencia entre la capa de negocios y la capa de acceso a datos, *DAL*. Dicho de una manera más práctica, el uso de una capa de abstracción de datos evita, o minimiza, que las modificaciones efectuadas en la capa de acceso a datos afecten a otras capas superiores, normalmente la capa de lógica de negocios.

Las capas de abstracción de datos proporcionan al programador una interfaz uniforme, independientemente del *SGBD* escogido en la implementación.



Como se observa en la figura anterior, internamente las capas de abstracción de datos emplean diferentes componentes o drivers especializados para el acceso a cada uno de los diferentes *SGDB* soportados.

4.2.1 Beneficios e inconvenientes.

Entre los beneficios obtenidos con el uso de una capa de abstracción de datos podemos encontrar:

- Independencia entre capas. Como se ha explicado anteriormente, los cambios producidos en la capa de acceso a datos afectan en menor medida a las capas superiores.
- Uniformidad en acceso a datos. Al utilizar una misma librería para acceder a las diferentes bases de datos, emplearemos las mismas funciones e interfaces para el acceso a todas ellas, por lo que no es necesaria una especialización en las características internas de cada uno de los SGBD a los que acceda la aplicación.
- Facilidad en migración a nuevas bases de datos. Para adaptar un software ya existente a una nuevo SGBD tan solo es necesario disponer del driver apropiado para acceder a dicha base de datos, sin necesidad de realizar cambios en el propio software.
- Portabilidad a diferentes bases de datos. Es posible portar un software existente a cualquiera de los SGBDs soportados realizando unos sencillos cambios en la aplicación. Por lo general, sustituyendo el driver de conexión a la base de datos o la cadena de conexión.

Por otro lado, entre sus inconvenientes podemos destacar:

- Menor control de las capacidades de la base de datos final.
 Dado que disponemos de una interfaz estandarizada, la mayoría
 de los SGBD que utilicemos dispondrán de funcionalidades
 únicas o alejadas del estándar. Por este motivo, para poder
 utilizarlas tendremos que acercarnos a la implementación del
 SGBD más allá de lo que nos facilita la capa de abstracción
 escogida.
- *Disminución en la velocidad*. Al intervenir un componente extra entre la capa de negocios y la base de datos se producirá, necesariamente, un mayor retardo en las operaciones.
- Alta dependencia o coste para la inclusión de bases de datos no soportadas. En los casos en que se quiere acceder a una base de datos que aún no dispone de soporte, es necesario

realizar un importante esfuerzo en el desarrollo del driver específico para dicha base de datos, o depender de equipo de desarrollo del proyecto para la implementación de dicho componente.

4.3 El paquete *PEAR:MDB2*.

MDB2 es la fusión de las capas de abstracción de bases de datos PEAR:DBy Metabase.

MDB2 proporciona una API común para todos los RDBMS5 soportados, y se caracteriza respecto de otros paquetes de abstracción de bases de datos en que realiza un mayor esfuerzo en asegurar su portabilidad.

4.3.1 Sistemas soportados.

Los sistemas soportados por MDB2 de PEAR están listados en la siguiente tabla, junto con el nombre oficial de sus librerías.

RDBMS	PAQUETE PEAR
MySQL	MDB2_Driver_mysql
MySQLi (sólo PHP5)	MDB2_Driver_mysqli
PostgreSQL	MDB2_Driver_pgsql
Oracle	MDB2_Driver_oci8
Frontbase (sin soporte)	MDB2_Driver_fbsql
Querysim	MDB2_Driver_querysim
Interbase/Firebird (solo PHP5)	MDB2_Driver_ibase
MSSQL	MDB2_Driver_mssql
SQLite	MDB2_Driver_sqlite

Al igual que el resto de paquetes de PEAR, los distintos drivers de MDB2 para el soporte de sistemas concretos se instalan mediante el comando habitual:

pear install < nombre_paquete >

⁵ Del acrónimo inglés, Relational Data Base Management System. En castellano, Sistema Administrador de Bases de Datos Relacionales.

4.3.2 Mecanismo de conexión.

Al igual que otros paquetes de abstracción de la capa de base de datos de *PEAR*, *MDB2* utiliza *DSN*⁶ para realizar la conexión con la base de datos.

El sistema de conexión mediante *DSN*, utiliza una cadena de texto para determinar la ubicación y el tipo del origen de datos, así como para establecer la identidad del usuario que realiza la conexión. Existen dos formatos válidos para componer la cadena de conexión. Dichos formatos son:

phptype(dbsyntax)://username:password@protocol+hostspec/database?option=value

phptype(syntax)://user:pass@protocol(proto_opts)/database

A continuación se enumeran las distintas variaciones que se pueden aplicar a la cadena de conexión *DSN*:

phptype://username:password@protocol+hostspec:110//usr/db_file.db

phptype://username:password@hostspec/database

phptype://username:password@hostspec

phptype://username@hostspec phptype://hostspec/database

phptype://hostspec phptype://database

phptype:///database?option=value&anotheroption=anothervalue

phptype(dbsyntax)

phptype

El significado de los distintos términos utilizados en la cadena de conexión son los siguientes:

TÉRMINO	DESCRIPCIÓN
phptype	Tipo de base de datos utilizado.
dbsyntax	Opción a emplear dentro del tipo de base de datos escogida.
protocol	Protocolo de comunicaciones a emplear (tcp, unix,).
hostspec	Especificación del host (hostname:[puerto]).
database	Nombre de la base de datos con la que se debe conectar.
username	Nombre del usuario con el que se efectuará el login.

⁶ Del término inglés, Data Source Name. En castellano se traduce como Nombre del Origen de Datos.

password	Password a emplear durante el login.
proto_opts	Posibles opciones del protocolo empleado.
option	Opciones extra a emplear durante la conexión.

Finalmente, las bases de datos soportadas y sus términos *phptype* correspondientes son:

BASE DE DATOS	PHPTYPE
Frontbase	fbsql
Interbase	ibase
MSSQL	mssql
MySQL	mysql
MySQLi	mysqli
Oracle	oci8
PostgreSQL	pgsql
Querysim	querysim
SQLite	sqlite

Podemos finalizar indicando que la cadena de conexión *DSN* más habitual para *MySQL* suele tomar la siguiente forma:

mysql://username:password@hostname:port/db_name

4.3.3 Particularidades de MDB2.

Con el mismo objetivo que el paquete *MDB2*, existen diversos paquetes tanto para *PEAR* como directamente para *PHP* que, sin duda, los alumnos habrán utilizado con anterioridad.

Por este motivo, nos ceñiremos a las particularidades de *MDB2* respecto de otros paquetes de abstracción de la capa de base de datos.

Para un completo análisis de las capacidades y características de este paquete, así como consultar diverso código de ejemplo, se sugiere que se visite la dirección URL de la <u>documentación oficial del proyecto</u> [http://pear.php.net/manual/en/package.database.mdb2.php].

4.3.3.1 Módulos de MDB2.

MDB2 utiliza un modelo modular para proporcionar características extras a la librería. Estos módulos extras pueden ser cargados dinámicamente mediante el método *loadModule()* indicando su nombre.

Los módulos disponibles son:

MÓDULO	DESCRIPCIÓN	
Datatype	Administra la abstracción de la base de datos.	
Extended	Proporciona diversos métodos de alto nivel.	
Function	Administra la abstracción de funciones SQL.	
Manager	Gestiona la abstracción del DLL.	
Native	Gestiona las funciones específicas de cada RDBMS.	
Reverse	Administra la abstracción de la ingeniería inversa del esquema.	

4.3.3.2 Conexión y desconexión.

MDB2 dispone de tres métodos distintos para realizar la conexión con la base de datos: factory(), connect() y singleton().

MÉTODO	OBJETIVO	DESCRIPCIÓN
factory()	Eficiencia	Crea un objeto MDB2 sin realizar la conexión a la BD.
connect()	Temprano	Crea un objeto MDB2, y realiza la conexión.
singleton()	Disponibilidad	Devuelve siempre el mismo objeto MDB2.

Estos métodos utilizan un parámetro obligatorio, el *DSN* o cadena de conexión, y un parámetro no obligatorio, que almacena las opciones de conexión. Tras ejecutarse devuelve bien un objeto de conexión *MDB2* de la base de datos específica en caso de éxito, o bien un objeto *PEAR_Error* en caso de ocurrir algún problema o error.

Al igual que otros paquetes de base de datos, es posible establecer la cadena de conexión a la base de datos, bien mediante una cadena *DSN* o bien mediante un array indexado.

Por otro lado, la desconexión se realiza mediante el método disconnect().

A continuación se muestra un ejemplo de conexión y desconexión a una base de datos PostgreSQL, identificando al usuario, y sin especificar un puerto concreto:

```
require_once 'MDB2.php';

$dsn = 'pgsql://myUser:myPassword@localhost/the_db';

$options = array(
    'debug' => 2,
    'result_buffering' => false);

$mdb2 =& MDB2::connect($dsn, $options);
if (PEAR::isError($mdb2))
    die($mdb2->getMessage());

// Se realizan las operaciones contra la base de datos...

$mdb2->disconnect();

?>
```

4.3.3.3 Consultas y ejecuciones.

Los métodos implicados en las consultas y ejecuciones son: *query()*, *exec()*, y *setLimit()*. La siguiente tabla muestra su funcionamiento.

MÉTODO	DEVUELVE	DESCRIPCIÓN
query()	MDB2_Result / MDB2_Error	Realiza la consulta y devuelve los resultados.
exec()	N°filas afectadas / MDB2_Error	Realiza una acción (nunca una consulta), e indica cuantas filas se han visto afectadas. P.e.: delete, insert o update.
setLimit()		Establece límites en las filas devueltas por una consulta.

4.3.3.4 Resultado de las consultas.

Los métodos que pueden emplearse para inspeccionar el resultado de las consultas son:

MÉTODO	DEVUELVE	DESCRIPCIÓN
fetchRow()	Fila / Null	Devuelve la siguiente fila, o nulo si ha terminado.
fetchOne()	Celdilla / Null	Devuelve la siguiente celdilla, o nulo al terminar.
fetchCol()	Columna / Null	Devuelve la siguiente columna, o nulo al terminar.
fetchAll()		Este método no se encuentra documentado.

Al recopilar la información resultante de la consulta, es posible escoger entre tres modos distintos de indexación de los datos. El tipo de indexación puede escogerse en la propia llamada a la propia función *fetchXXX*, que escoge la indexación únicamente para la llamada afectada, o mediante el método *setFetchMode*, que permite modificar el tipo de indexación por defecto.

OPCIÓN	DESCRIPCIÓN
MDB2_FETCHMODE_ORDERED	Devuelve un vector utilizando como claves, la posición u orden de la columna devuelta. Es el valor por defecto
MDB2_FETCHMODE_ASSOC	Devuelve un vector utilizando como clave el nombre de la columna.
MDB2_FETCHMODE_OBJECT	Devuelve un objeto utilizando como atributos los nombres de las columnas.

Tras la utilización del objeto *MDB2_Result* es recomendable liberar la memoria mediante el método *free*.

Finalmente, existen diversos métodos que nos permiten obtener información adicional relativa a la consulta efectuada. Estos métodos son:

MÉTODO	DESCRIPCIÓN
numRows()	Indica cuantas filas hay en el resultado.
numCols()	Indica cuantas columnas hay en el resultado.
rowCount()	Indica la posición del puntero respecto de las filas.
getColumnNames()	Devuelve un vector con el nombre de las columnas.
seek()	Permite desplazarse a un elemento concreto del resultado.
free()	Libera los recursos reservados por los objetos MDB2_Result_Common.

A continuación se puede observar un ejemplo en el que se listan los alumnos de la asignatura PRG. Finalmente libera los recursos de la consulta.

```
<?php
// Despues de establecer la conexión con la base de datos
$res =& $mdb2->query('SELECT nombre, direccion FROM alumno WHERE fk_asig="PRG"');
while ($row = $res->fetchRow(MDB2_FETCHMODE_ASSOC)) {
   echo $row['nombre'] . ', ' . $row['direccion'] . "\n";
}
$res->free();
?>
```

De forma similar, se pueden realizar otros tipos de operaciones, como de inserción, actualización o eliminación mediante la invocación al

método *exec()*. En el siguiente ejemplo se realiza la inserción de un nuevo alumno con los datos suministrados en las variables empleadas:

4.3.3.5 Preparación y ejecución de peticiones SQL.

La preparación de peticiones *SQL* permite realizar una misma acción, o más concretamente un mismo patrón de acción, múltiples veces, reduciendo el esfuerzo de programación y mejorando el tiempo de respuesta del sistema.

Por ejemplo, podemos realizar varias inserciones en una tabla utilizando distintos datos en cada ocasión.

Para ello se deben emplean dos métodos combinados: *prepare()* y *execute()*.

El proceso es el siguiente:

1. En primer lugar, se crea la petición SQL con la particularidad de que, en lugar de introducir directamente los valores concretos que deseamos utilizar, emplearemos variables en su lugar.

Para ello disponemos de dos alternativas: asignar un nombre a la variable, o utilizar una variable desconocida. Si queremos asignarle un nombre concreto a la variable emplearemos una etiqueta similar a ":nombre_variable". Si por el contrario no queremos asignar un nombre a la variable, simplemente emplearemos el signo de exclamación "?".

- 2. La petición *SQL* creada previamente se utiliza en la llamada al método *prepare()*, y éste nos devuelve un objeto del tipo *MDB2_Statement_Common*.
- 3. Utilizando el método *execute()* del objeto devuelto por *prepare()*, suministramos los datos que se introducirán en la ejecución de la petición SQL declarada con anterioridad.

A continuamos se detalla un ejemplo de dicho proceso:

Al igual que sucede con los objetos de tipo MDB2_Result, los objetos resultantes de la llamada a prepare() deben ser liberados mediante el método free().

Finalmente, podemos aplicar varias llamadas a *execute()* mediante el método *executeMultiple()*. Este método utiliza un vector que contenga varios conjuntos de valores, y los aplica consecutivamente. Este método requiere cargar el módulo *Extended* de *MDB2*

Vamos a adaptar el ejemplo anterior para emplear esta nueva función:

4.3.3.6 Gestión de transacciones.

Los principales métodos aplicables a la gestión de transacciones son:

MÉTODO	DESCRIPCIÓN
supports('transactions')	Indica si la base de datos final tiene soporte para transacciones
beginTransaction	Comienza la transacción
commit	Finaliza la transacción efectivamente
rollback	Cancela la transacción
inTransaction	Indica si existe una transacción en curso

Como comentario, *MDB2* ofrece soporte para el anidamiento de transacciones.

4.3.3.7 Autopreparaciones y autoejecuciones de peticiones SQL.

El objetivo de los métodos *autoPrepare()* y *autoExecute()* es reducir la redacción de peticiones *SQL* habituales como: inserciones, modificaciones, eliminaciones y consultas. El uso de estos métodos requiere la carga del módulo *Extended*.

El método *autoPrepare()* genera las peticiones *SQL* a partir de datos básicos, como son el tipo de petición a crear, los nombres de los campos, los tipos de datos de dichos campos y el nombre de la tabla.

En el siguiente ejemplo se puede observar este método en funcionamiento:

Como se puede observar, el programador no ha tenido que definir la petición *SQL*. Esto se debe a que el método *autoPrepare()* genera automáticamente la consulta que, en el caso del método *prepare()* debería suministrar el propio programador.

Por tanto, el código anterior, de forma automatizada, crearía internamente la siguiente petición *SQL*:

```
INSERT INTO user (id, name, country) VALUES (?, ?, ?)
```

Finalmente, obtenido el objeto *MDB2_Statement_Common* que devuelve el método *autoPrepare()*, podremos utilizarlo para invocar al método *execute()*, y realizar, de esta manera, las peticiones SQL necesarias.

Por otro lado, el método *autoExecute()* es una fusión de los métodos *autoPrepare()* y e*xecute()*. En el siguiente ejemplo vemos su funcionamiento:

Este código generaría y posteriormente ejecutaría la siguiente petición *SQL*:

```
INSERT INTO user (id, name, country) VALUES (1, 'Fabien', 'France')
```

4.3.3.8 Utilización de secuencias.

Las secuencias son el mecanismo que utiliza *MDB2* para gestionar los identificadores únicos, propios de las claves primarias. Por ejemplo, permite la utilización y/o simulación valores autoincrementales.

Los métodos propios de que disponen los objetos de tipo secuencia son los siguientes:

MÉTODO	DESCRIPCIÓN	
createSequence	Crea una secuencia asignándole un nombre.	
dropSequence	Elimina la secuencia con el nombre indicado.	
listSequences	Lista las secuencias de la base de datos indicada.	
NextID	Obtiene el siguiente identificador de la secuencia.	
LastInsertedID	Obtiene el último identificador asignado de la secuencia.	

Es posible acceder a los métodos nativos de la base de datos final mediante los métodos *getBeforelD()* y *getAfterlD()* del módulo *Extended.*