

# Appendices

# History of PHP and related projects

PHP has come a long way in the last few years. Growing to be one of the most prominent languages powering the Web was not an easy task. Those of you interested in briefly seeing how PHP grew out to what it is today, read on. Old PHP releases can be found at the [» PHP Museum](#).

## History of PHP

### PHP/FI

PHP succeeds an older product, named PHP/FI. PHP/FI was created by Rasmus Lerdorf in 1995, initially as a simple set of Perl scripts for tracking accesses to his online resume. He named this set of scripts 'Personal Home Page Tools'. As more functionality was required, Rasmus wrote a much larger C implementation, which was able to communicate with databases, and enabled users to develop simple dynamic Web applications. Rasmus chose to [» release](#) the source code for PHP/FI for everybody to see, so that anybody can use it, as well as fix bugs in it and improve the code.

PHP/FI, which stood for Personal Home Page / Forms Interpreter, included some of the basic functionality of PHP as we know it today. It had Perl-like variables, automatic interpretation of form variables and HTML embedded syntax. The syntax itself was similar to that of Perl, albeit much more limited, simple, and somewhat inconsistent.

By 1997, PHP/FI 2.0, the second write-up of the C implementation, had a cult of several thousand users around the world (estimated), with approximately 50,000 domains reporting as having it installed, accounting for about 1% of the domains on the Internet. While there were several people contributing bits of code to this project, it was still at large a one-man project.

PHP/FI 2.0 was officially released only in November 1997, after spending most of its life in beta releases. It was shortly afterwards succeeded by the first alphas of PHP 3.0.

### PHP 3

PHP 3.0 was the first version that closely resembles PHP as we know it today. It was created by Andi Gutmans and Zeev Suraski in 1997 as a complete rewrite, after they found PHP/FI 2.0 severely underpowered for developing an eCommerce application they were working on for a University project. In an effort to cooperate and start building upon PHP/FI's existing user-base, Andi, Rasmus and Zeev decided to cooperate and announce PHP 3.0 as the official successor of PHP/FI 2.0, and development of PHP/FI 2.0 was mostly halted.

One of the biggest strengths of PHP 3.0 was its strong extensibility features. In addition to providing end users with a solid infrastructure for lots of different databases, protocols and APIs, PHP 3.0's extensibility features attracted dozens of developers to join in and submit

new extension modules. Arguably, this was the key to PHP 3.0's tremendous success. Other key features introduced in PHP 3.0 were the object oriented syntax support and the much more powerful and consistent language syntax.

The whole new language was released under a new name, that removed the implication of limited personal use that the PHP/FI 2.0 name held. It was named plain 'PHP', with the meaning being a recursive acronym - PHP: Hypertext Preprocessor.

By the end of 1998, PHP grew to an install base of tens of thousands of users (estimated) and hundreds of thousands of Web sites reporting it installed. At its peak, PHP 3.0 was installed on approximately 10% of the Web servers on the Internet.

PHP 3.0 was officially released in June 1998, after having spent about 9 months in public testing.

## **PHP 4**

By the winter of 1998, shortly after PHP 3.0 was officially released, Andi Gutmans and Zeev Suraski had begun working on a rewrite of PHP's core. The design goals were to improve performance of complex applications, and improve the modularity of PHP's code base. Such applications were made possible by PHP 3.0's new features and support for a wide variety of third party databases and APIs, but PHP 3.0 was not designed to handle such complex applications efficiently.

The new engine, dubbed 'Zend Engine' (comprised of their first names, Zeev and Andi), met these design goals successfully, and was first introduced in mid 1999. PHP 4.0, based on this engine, and coupled with a wide range of additional new features, was officially released in May 2000, almost two years after its predecessor, PHP 3.0. In addition to the highly improved performance of this version, PHP 4.0 included other key features such as support for many more Web servers, HTTP sessions, output buffering, more secure ways of handling user input and several new language constructs.

Today, PHP is being used by hundreds of thousands of developers (estimated), and several million sites report as having it installed, which accounts for over 20% of the domains on the Internet.

PHP's development team includes dozens of developers, as well as dozens others working on PHP-related projects such as PEAR and the documentation project.

## **PHP 5**

PHP 5 was released in July 2004 after long development and several pre-releases. It is mainly driven by its core, the Zend Engine 2.0 with a new object model and dozens of other new features.

## **History of PHP related projects**

## PEAR

» [PEAR](#), the PHP Extension and Application Repository (originally, PHP Extension and Add-on Repository) is PHP's version of foundation classes, and may grow in the future to be one of the key ways to distribute PHP extensions among developers.

PEAR was born in discussions held in the PHP Developers' Meeting (PDM) held in January 2000 in Tel Aviv. It was created by Stig S. Bakken, and is dedicated to his first-born daughter, Malin Bakken.

Since early 2000, PEAR has grown to be a big, significant project with a large number of developers working on implementing common, reusable functionality for the benefit of the entire PHP community. PEAR today includes a wide variety of infrastructure foundation classes for database access, content caching, mathematical calculations, eCommerce and much more.

More information about PEAR can be found in [» the manual](#).

## PHP Quality Assurance Initiative

The [» PHP Quality Assurance Initiative](#) was set up in the summer of 2000 in response to criticism that PHP releases were not being tested well enough for production environments. The team now consists of a core group of developers with a good understanding of the PHP code base. These developers spend a lot of their time localizing and fixing bugs within PHP. In addition there are many other team members who test and provide feedback on these fixes using a wide variety of platforms.

## PHP-GTK

» [PHP-GTK](#) is the PHP solution for writing client side GUI applications. Andrei Zmievski remembers the planing and creation process of PHP-GTK:

GUI programming has always been of my interests, and I found that Gtk+ is a very nice toolkit, except that programming with it in C is somewhat tedious. After witnessing PyGtk and GTK-Perl implementations, I decided to see if PHP could be made to interface with Gtk+, even minimally. Starting in August of 2000, I began to have a bit more free time so that is when I started experimenting. My main guideline was the PyGtk implementation as it was fairly feature complete and had a nice object-oriented interface. James Henstridge, the author of PyGtk, provided very helpful advice during those initial stages.

Hand-writing the interfaces to all the Gtk+ functions was out of the question, so I seized upon the idea of code-generator, similar to how PyGtk did it. The code generator is a PHP program that reads a set of .defs file containing the Gtk+ classes, constants, and methods information and generates C code that interfaces PHP with them. What cannot be generated automatically can be written by hand in .overrides file.

Working on the code generator and the infrastructure took some time, because I could spend little time on PHP-GTK during the fall of 2000. After I showed PHP-GTK to Frank Kromann, he got interested and started helping me out with code generator work and

Win32 implementation. When we wrote the first Hello World program and fired it up, it was extremely exciting. It took a couple more months to get the project to a presentable condition and the initial version was released on March 1, 2001. The story promptly hit SlashDot.

Sensing that PHP-GTK might be extensive, I set up separate mailing lists and CVS repositories for it, as well as the gtk.php.net website with the help of Colin Viebrock. The documentation would also need to be done and James Moore came in to help with that.

Since its release PHP-GTK has been gaining popularity. We have our own documentation team, the manual keeps improving, people start writing extensions for PHP-GTK, and more and more exciting applications with it.

## **Books about PHP**

As PHP grew, it began to be recognized as a world-wide popular development platform. One of the most interesting ways of seeing this trend was by observing the books about PHP that came out throughout the years.

To the best of our knowledge, the first book dedicated to PHP was 'PHP - tvorba interaktivních internetových aplikací' - a Czech book published in April 1999, authored by Jirka Kosek. Next month followed a German book authored by Egon Schmid, Christian Cartus and Richard Blume. The first book in English about PHP was published shortly afterwards, and was 'Core PHP Programming' by Leon Atkinson. Both of these books covered PHP 3.0.

While these books were the first of their kind - they were followed by a large number of books from a host of authors and publishers. There are over 40 books in English, 50 books in German, and over 20 books in French! In addition, you can find books about PHP in many other languages, including Spanish, Korean, Japanese and Hebrew.

Clearly, this large number of books, written by different authors, published by many publishers, and their availability in so many languages - are a strong testimony for PHP's world-wide success.

## **Publications about PHP**

To the best of our knowledge, the first article about PHP in a hard-copy magazine was published in the Czech mutation of Computerworld in the spring of 1998, and covered PHP 3.0. As with books, this was the first in a series of many articles published about PHP in various prominent magazines.

Articles about PHP appeared in Dr. Dobbs, Linux Enterprise, Linux Magazine and many more. Articles about migrating ASP-based applications to PHP under Windows even appear on Microsoft's very own MSDN !

# Migrating from PHP 5.1.x to PHP 5.2.x

## What has changed in PHP 5.2.x

Most improvements in PHP 5.2.x have no impact on existing code. There are a [few incompatibilities](#) and [new error messages](#) that should be considered, and code should be tested before switching PHP versions in production environments.

If the system is being upgraded from PHP 5.0.x, the manual section titled [Upgrade Notes for PHP 5.1.x](#) should also be read.

Similarly, if the system is being upgraded from PHP 4, the manual section titled [Migrating from PHP 4 to PHP 5](#) should be read as well.

## Backward Incompatible Changes

Although most existing PHP 5 code should work without changes, you should pay attention to the following backward incompatible changes:

- [getrusage\(\)](#) returns **NULL** when passed incompatible arguments as of PHP 5.2.1.
- [ZipArchive::setCommentName\(\)](#) returns **TRUE** on success as of PHP 5.2.1.
- [ZipArchive::setCommentIndex\(\)](#) returns **TRUE** on success as of PHP 5.2.1.
- [SplFileObject::getFilename\(\)](#) returns the filename, not relative/path/to/file, as of PHP 5.2.1.
- Changed priority of *PHPRC* environment variable on Win32 The *PHPRC* environment variable now takes priority over the path stored in the Windows registry.
- CLI SAPI no longer checks cwd for *php.ini* or the *php-cli.ini* file In PHP 5.1.x an undocumented feature was added that made the CLI binary check the current working directory for a PHP configuration file, potentially leading to unpredictable behavior if an unexpected configuration file were read. This functionality was removed in 5.2.0, and PHP will no longer search CWD for the presence of *php.ini* or *php-cli.ini* files. See also the [command line](#) section of the manual.
- Added a warning when performing modulus 0 operations In earlier versions of PHP, performing integer % 0 did not emit any warning messages, instead returning an unexpected return value of **FALSE**. As of PHP 5.2.0, this operation will emit an **E\_WARNING**, as is the case in all other instances where division by zero is performed.

```
<?php
print 10 % 0;
/* Warning:  Division by zero in filename on line n */
?>
```

- Changed **\_\_toString()** to be called wherever applicable. The magic method **\_\_toString()** will now be called in a string context, that is, anywhere an object is used as a string. The fallback of returning a string that contains the object identifier was dropped in PHP 5.2.0. It became problematic because an object identifier cannot be considered unique. This change will mean that your application is flawed if you have relied on the object identifier as a return value. An attempt to use that value as a string will now result in a catchable fatal error.

```
<?php
class foo {}
$foo = new foo;
print $foo;
/* Catchable fatal error: Object of class foo could
   not be converted to string in filename on line n */
?>
```

Even with **\_\_toString()**, objects cannot be used as array indices or keys. We may add built-in hash support for this at a later date, but as of PHP 5.2.x you will need to either provide your own hashing or use the new SPL function [spl\\_object\\_hash\(\)](#). Exceptions can not be thrown from **\_\_toString()** methods.

```
<?php
class foo {
    public function __toString() {
        throw new Exception;
    }
}

try {
    print new foo;
    /* Fatal error: Method foo::__toString() must
       not throw an exception in filename on line n */
} catch(Exception $e) {}
?>
```

- Dropped abstract static class functions. Due to an oversight, PHP 5.0.x and 5.1.x allowed abstract static functions in classes. As of PHP 5.2.x, only interfaces can have them.

```
<?php
abstract class foo {
    abstract static function bar();
    /* Strict Standards: Static function foo::bar()
       should not be abstract in filename on line n */
}
?>
```

- [Oracle extension](#) requires at least Oracle 10 on Windows.
- Added RFC2397 ( *data:* stream) support. The introduction of the 'data' URL scheme has the potential to lead to a change of behavior under Windows. If you are working with a NTFS file system and making use of meta streams in your application, and if you just happen to be using a file with the name 'data:' that is accessed without any

path information - it won't work any more. The fix is to use the 'file:' protocol when accessing it. See also » [RFC 2397](#)

```
<?php
/* when allow_url_include is OFF (default) */
include "data:;base64,PD9waHAgcGhwaW5mbygpOz8+";
/* Warning:  include(): URL file-access is disabled
   in the server configuration in filename on line n */
?>
```

- Regression in *glob()* patterns In version 5.2.4 a security fix caused a regression for patterns of the form *"/foo/\*/bar/\*"*. Since version 5.2.5 instead of raising a warning the *glob()* function will return **FALSE** when *openbase\_dir* restrictions are violated.

## New Error Messages

Below are the new error messages that have not been discussed elsewhere in this document.

### Example #1 - In PHP Core

```
<?php
echo " ";
session_regenerate_id();
/* Warning:  session_regenerate_id(): Cannot regenerate
   session id - headers already sent in filename on line n */

str_word_count("string", 4);
/* Warning:  str_word_count(): Invalid format value 4
   in filename on line n */

strripos("foo", "f", 4);
/* Notice:  strripos(): Offset is greater than the
   length of haystack string in filename on line n */

strrpos("foo", "f", 4);
/* Notice:  strrpos(): Offset is greater than the
   length of haystack string in filename on line n */

/* As of PHP 5.2.1, when allow_url_include is OFF (default) */
include "php://input";
/* Warning:  include(): URL file-access is disabled
   in the server configuration in filename on line n */
?>
```



## Example #2 - Object Oriented Code in PHP Core

```
<?php
interface foo {
}
class bar implements foo, foo {
}
/* Fatal error: Class bar cannot implement previously
   implemented interface foo in filename on line n */

class foo {
    public $bar;
    function __get($var)
    {
        return $this->bar;
    }
}

$foo = new foo;
$bar =& $foo->prop;
/* Notice: Indirect modification of overloaded property
   foo::$prop has no effect in filename on line n */

class foo implements iterator {
    public function current() {
    }
    public function next() {
    }
    public function key() {
    }
    public function valid() {
    }
    public function rewind() {
    }
}

$foo = new foo();
foreach($foo as &$ref) {}
/* Fatal error: An iterator cannot be used with foreach
   by reference in filename on line n */

class foo {
    private function __construct() {
    }
}
class bar extends foo {
    public function __construct() {
        parent::__construct();
        /* Fatal error: Cannot call private
           foo::__construct() in filename on line n */
    }
}
new bar;

stream_filter_register("", "class");
```

```
/* Warning: stream_filter_register(): Filter name
cannot be empty in filename on line n */

stream_filter_register("filter", "");
/* Warning: stream_filter_register(): Class name
cannot be empty in filename on line n */
?>
```

### Example #3 - In the [bzip2](#) Extension

```
<?php
bzopen("", "w");
/* Warning: bzopen(): filename cannot be empty
in filename on line n */

bzopen("foo", "a");
/* Warning: bzopen(): 'a' is not a valid mode for
bzopen(). Only 'w' and 'r' are supported in
filename on line n */

$fp = fopen("foo", "w");
bzopen($fp, "r");
/* Warning: bzopen(): cannot read from a stream
opened in write only mode in filename on line n */
?>
```

### Example #4 - In the [datetime](#) Extension

```
<?php
strtotime("today", "now");
/* Warning: strtotime() expects parameter 2 to be
long, string given in filename on line n */

/* As of PHP 5.2.1 */
new DateTime(new stdClass);
/* Fatal error: Uncaught exception 'Exception' with
message 'DateTime::__construct() expects parameter
1 to be string, object given' in filename:n */
?>
```

### Example #5 - In the [dBase](#) Extension

```
<?php
dbase_open("foo", -1);
```

```
/* Warning: Invalid access mode -1 in filename on line n */

/* As of PHP 5.2.1 */
dbase_open("foo", null);
/* Warning: The filename cannot be empty in filename on line n */
?>
```

### Example #6 - In the [mcrypt](#) Extension

```
<?php
$key = "this is a secret key";
$td = mcrypt_module_open('tripledes', '', 'ecb', '');
$iv = mcrypt_create_iv (mcrypt_enc_get_iv_size($td),
                        MCRYPT_RAND);
mcrypt_generic_init($td, $key, $iv);
$encrypted_data = mcrypt_generic($td, "");
/* Warning: mcrypt_generic(): An empty string was
   passed in filename on line n */
?>
```

### Example #7 - In the [oci8](#) Extension

```
<?php
oci_connect("user", "pass", "db", "bogus_charset");
/* Warning: Invalid character set name:
   bogus_charset in filename on line n */

$soci = oci_connect("user", "pass", "db");
oci_password_change($soci, "", "old", "new");
/* Warning: username cannot be empty in filename
   on line n */

oci_password_change($soci, "user", "", "new");
/* Warning: old password cannot be empty in filename
   on line n */

oci_password_change($soci, "user", "old", "");
/* Warning: new password cannot be empty in filename
   on line n */
?>
```

### Example #8 - In the [SPL](#) Extension

```
<?php
$obj = new SplFileObject(__FILE__);
```

```
$obj->fgetcsv("foo");
/* Warning: SplFileObject::fgetcsv(): delimiter must
   be a character in filename on line n */

$obj->fgetcsv(",", "foo");
/* Warning: SplFileObject::fgetcsv(): enclosure must
   be a character in filename on line n */
?>
```

### Example #9 - In the [Semaphore \(sysvmsg\)](#) extension

```
<?php
/* Warning: maximum size of the message has to be
   greater then zero in filename on line n */
?>
```

### Example #10 - A 5.2.1+ [Zip](#) Example

```
<?php
$obj = new ZipArchive();
$obj->open('archive.zip');
$obj->setCommentName('', 'comment');
/* Notice: ZipArchive::setCommentName(): Empty string
   as entry name in filename on line n */

/* As of PHP 5.2.1 */
$obj->getCommentName('');
/* Notice: ZipArchive::getCommentName(): Empty string
   as entry name in filename on line n */
?>
```

## Changes in PHP [datetime](#) support

Since PHP 5.1.0, there has been an extension named *date* in the PHP core. This is the new implementation of PHP's datetime support. Although it will attempt to guess your system's timezone setting, you should set the timezone manually. You can do this in any of three ways:

- in your *php.ini* using the [date.timezone](#) INI directive
- on your system using the *TZ* environmental variable
- from your script using the convenience function [date\\_default\\_timezone\\_set\(\)](#)

All supported [timezones](#) are listed in the PHP Manual.

With the advent of PHP 5.2.x, there are [object](#) representations of the date and timezone, named *DateTime* and *DateTimeZone* respectively. The methods map to existing procedural date functions.

## New Parameters

Some functions were given new, optional, parameters in PHP 5.2.x:

PHP Core:

- [htmlentities\(\)](#) - added *double\_encode* in PHP 5.2.3.
- [htmlspecialchars\(\)](#) - added *double\_encode* in PHP 5.2.3.
- [base64\\_decode\(\)](#) - added *strict*
- [setcookie\(\)](#) - added *httponly*
- [setrawcookie\(\)](#) - added *httponly*
- [session\\_set\\_cookie\\_params\(\)](#) - added *httponly*
- [memory\\_get\\_usage\(\)](#) - added *real\_usage*
- [get\\_loaded\\_extensions\(\)](#) - added *zend\_extensions* in PHP 5.2.4

[curl](#):

- [curl\\_multi\\_info\\_read\(\)](#) - added *msgs\_in\_queue*

[datetime](#)

- [date\(\)](#) - added "u" (milliseconds) format character in PHP 5.2.2

[imap](#):

- [imap\\_open\(\)](#) - added *n\_retries*
- [imap\\_reopen\(\)](#) - added *n\_retries*

[mbstring](#):

- [mb\\_strrpos\(\)](#) - added *offset*

## Warning

The *offset* parameter was put in the position the *encoding* parameter used to be. Backward compatibility has been provided by allowing *encoding* to be specified as the third parameter. Using this backward compatibility mode is not recommended because it will be removed in a future release of PHP.

ming:

- [swfmovie::streamMP3\(\)](#) - added *skip* in PHP 5.2.1

openssl:

- [openssl\\_verify\(\)](#) - added *signature\_algo*

pgsql:

- [pg\\_escape\\_bytea\(\)](#) - added *connection*
- [pg\\_escape\\_string\(\)](#) - added *connection*

simplexml:

- [SimpleXMLElement::\\_\\_construct\(\)](#) - added *is\_prefix*
- [SimpleXMLElement::attributes\(\)](#) - added *is\_prefix*
- [SimpleXMLElement::children\(\)](#) - added *is\_prefix*
- [simplexml\\_load\\_file\(\)](#) - added *is\_prefix*
- [simplexml\\_load\\_string\(\)](#) - added *is\_prefix*

spl:

- [array\\_iterator\\_to\\_array\(Traversable it \[, bool use\\_keys = true\]\)](#) - added *use\_keys* in PHP 5.2.1

xmlreader:

- [XMLReader::open\(\)](#) - added *encoding* and *options*
- [XMLReader::XML\(\)](#) - added *encoding* and *options*

## XMLWriter:

- [XMLWriter::WriteElement\(\)](#) - the *content* became optional in PHP 5.2.3
- [XMLWriter::WriteElementNs\(\)](#) - the *content* became optional in PHP 5.2.3

## New Functions

PHP 5.2.x introduced some new functions:

PHP Core:

- [array\\_fill\\_keys\(\)](#) - Create an array using the elements of the first parameter as keys, each initialized to *val*
- [error\\_get\\_last\(\)](#) - Get the last occurred error as associative array. Returns **NULL** if there hasn't been an error yet
- [image\\_type\\_to\\_extension\(\)](#) - Get file extension for image-type returned by [getimagesize\(\)](#), [exif\\_read\\_data\(\)](#), [exif\\_thumbnail\(\)](#), [exif\\_imagetype\(\)](#)
- [memory\\_get\\_peak\\_usage\(\)](#) - Returns the peak allocated by PHP memory
- [sys\\_get\\_temp\\_dir\(\)](#) - Returns directory path used for temporary files. (Added in 5.2.1)
- [timezone\\_abbreviations\\_list\(\)](#) - Returns associative array containing DST, offset and the timezone name
- [timezone\\_identifiers\\_list\(\)](#) - Returns numerically indexed array with all timezone identifiers
- [timezone\\_name\\_from\\_abbr\(\)](#) - Returns the timezone name from abbreviation
- [stream\\_socket\\_shutdown\(\)](#) - Causes all or part of a full-duplex connection on the socket associated with stream to be shut down. As of PHP 5.2.1.

## Image:

- [imagegrabscreen\(\)](#) - Grabs a screenshot of the whole screen. As of PHP 5.2.2.
- [imagegrabwindow\(\)](#) - Captures a window. As of PHP 5.2.2.

## mbstring:

- [mb\\_stripos\(\)](#) - Finds position of first occurrence of a string within another, case insensitive
- [mb\\_stristr\(\)](#) - Finds first occurrence of a string within another, case insensitive
- [mb\\_strrchr\(\)](#) - Finds the last occurrence of a character in a string within another

- [mb\\_strrchr\(\)](#) - Finds the last occurrence of a character in a string within another, case insensitive
- [mb\\_stripos\(\)](#) - Finds position of last occurrence of a string within another, case insensitive
- [mb\\_strstr\(\)](#) - Finds first occurrence of a string within another

[ming](#) (As of PHP 5.2.1):

- `void ming_setSWFCompression(int num)` - Sets output compression
- `void swfmovie::namedanchor(string name)` - Creates anchor
- `void swfmovie::protect([string password])` - Protects

[openssl](#):

- [openssl\\_csr\\_get\\_public\\_key\(\)](#) - Extracts public key from a CERT and prepares it for use
- [openssl\\_csr\\_get\\_subject\(\)](#) - Returns the subject of a CERT
- [openssl\\_pkey\\_get\\_details\(\)](#) - Returns an array with the key details (bits, pkey, type)

[spl](#):

- [spl\\_object\\_hash\(\)](#) - Return hash id for given object
- `int iterator_apply(Traversable it, mixed function [, mixed params])` - Calls a function for every element in an iterator

[pcre](#):

- [preg\\_last\\_error\(\)](#) - Returns the error code of the last regex execution

[pgsql](#):

- [pg\\_field\\_table\(\)](#) - Returns the name of the table field belongs to, or table's oid if *oid\_only* is **TRUE**

[posix](#):

- [posix\\_initgroups\(\)](#) - Calculate the group access list for the user specified in name

[gmp](#):



- [gmp\\_nextprime\(\)](#) - Finds next prime number

[xmlwriter:](#)

- **xmlwriter\_full\_end\_element()** - End current element - returns **FALSE** on error
- **xmlwriter\_write\_raw()** - Write text - returns **FALSE** on error
- **xmlwriter\_start\_dtd\_entity()** - Create start DTD Entity - returns **FALSE** on error
- **xmlwriter\_end\_dtd\_entity()** - End current DTD Entity - returns **FALSE** on error
- **xmlwriter\_write\_dtd\_entity()** - Write full DTD Entity tag - returns **FALSE** on error

## New Methods

New methods were introduced in 5.2.0:

[dom:](#)

- [DOMDocument::registerNodeClass\(\)](#) - Register extended class used to create base node type
- [DOMElement::setIdAttribute\(\)](#) - Declares the attribute specified by name to be of type ID
- [DOMElement::setIdAttributeNode\(\)](#) - Declares the attribute specified by node to be of type ID
- [DOMElement::setIdAttributeNS\(\)](#) - Declares the attribute specified by local name and namespace URI to be of type ID
- [DOMNode::C14N\(\[bool exclusive \[, bool with\\_comments \[, array xpath \[, array ns\\_prefixes\]\]\]\]\)](#) - Canonicalize nodes to a string
- [DOMNode::C14NFile\(string uri \[, bool exclusive \[, bool with\\_comments \[, array xpath \[, array ns\\_prefixes\]\]\]\]\)](#) - Canonicalize nodes to a file
- [DOMNode::getNodePath\(\)](#) - Gets an *xpath* for a node

[soap:](#)

- [SoapServer::setObject\(object obj\)](#) - Sets object which will handle SOAP requests

[spl:](#)

- [int ArrayObject::asort\(void\)](#) - Sort the entries by values
- [int ArrayObject::ksort\(void\)](#) - Sort the entries by key

- `int ArrayObject::natcasesort(void)` - Sort the entries by key using case insensitive "natural order" algorithm.
- `int ArrayObject::natSORT(void)` - Sort the entries by values using "natural order" algorithm.
- `int ArrayObject::uasort(callback cmp_function)` - Sort the entries by values using a user defined function
- `int ArrayObject::uksort(callback cmp_function)` - Sort the entries by key using a user defined function.
- `ArrayIterator AppendIterator::getArrayIterator()` - Get access to inner *ArrayIterator*
- `int AppendIterator::getIteratorIndex()` - Get index of iterator
- `bool CachingIterator::getCache()` - Return the cache
- `int CachingIterator::getFlags()` - Return the internal flags
- `bool CachingIterator::offsetExists(mixed index)` - Returns **TRUE** if the requested index exists
- `string CachingIterator::offsetGet(mixed index)` - Return the internal cache if used
- `void CachingIterator::offsetSet(mixed index, mixed newval)` - Set given index in cache
- `void CachingIterator::offsetUnset(mixed index)` - Unset given index in cache
- `void CachingIterator::setFlags()` - Set the internal flags
- `array("delimiter" =>, "enclosure" =>) SplFileObject::getCsvControl(void)` - Get the delimiter and enclosure character used in [fgetcsv\(\)](#)
- `void SplFileObject::setCsvControl([string delimiter = ',' [, string enclosure = '"'])` - Set the delimiter and enclosure character used in [fgetcsv\(\)](#)

## Tidy

- `tidyNode tidyNode::getParent\(void\)` - Returns the parent node of the current node (Added in PHP 5.2.2)

## XMLReader

- `boolean XMLReader::setSchema(string filename)` - Use W3C XSD schema to validate the document as it is processed. Activation is only possible before the first *Read()*

## zip:

- `ZipArchive::addEmptyDir\(\)` - Creates an empty directory in the archive

## Removed Extensions

These extensions have been moved to PECL and are no longer part of the PHP distribution. The PECL package version of these extensions will be created according to user demand.

- [filePro](#)
- [Hyperwave API](#)

## New Extensions

The following are new extensions added (by default) as of PHP 5.2.0:

- [Filter](#) - validates and filters data, and is designed for use with insecure data such as user input. This extension is enabled by default; the default mode RAW does not impact input data in any way.
- [JSON](#) - implements the JavaScript Object Notation (JSON) data interchange format. This extension is enabled by default.
- [Zip](#) - enables you to transparently read or write ZIP compressed archives and the files inside them.

## New Classes

The following classes were introduced in PHP 5.2.0:

- [DateTime](#)
- [DateTimeZone](#)
- `RegexIterator` - extends `FilterIterator`; implements `Iterator`, `Traversable`, `OuterIterator`  
Constants:
  - **`RegexIterator::ALL_MATCHES`**
  - **`RegexIterator::GET_MATCH`**
  - **`RegexIterator::MATCH`**
  - **`RegexIterator::REPLACE`**
  - **`RegexIterator::SPLIT`**
  - **`RegexIterator::USE_KEY`**

Properties:

- `public replacement`

Methods:

- `RegexIterator::__construct(iterator it, string regex [, int mode [, int flags [, int preg_flags]]])` - Create an *RegexIterator* from another iterator and a regular expression
- `bool RegexIterator::accept()` - Match `(string)current()` against regular expression
- `bool RegexIterator::getFlags()` - Returns current operation flags
- `bool RegexIterator::getMode()` - Returns current operation mode
- `bool RegexIterator::getPregFlags()` - Returns current PREG flags (if in use or **NULL** )
- `bool RegexIterator::setFlags(int new_flags)` - Set operation flags
- `bool RegexIterator::setMode(int new_mode)` - Set new operation mode
- `bool RegexIterator::setPregFlags(int new_flags)` - Set PREG flags
- RecursiveRegexIterator Constants:
  - **`RecursiveRegexIterator::ALL_MATCHES`**
  - **`RecursiveRegexIterator::GET_MATCH`**
  - **`RecursiveRegexIterator::MATCH`**
  - **`RecursiveRegexIterator::REPLACE`**
  - **`RecursiveRegexIterator::SPLIT`**
  - **`RecursiveRegexIterator::USE_KEY`**

Methods:

- `RecursiveRegexIterator::__construct(RecursiveIterator it, string regex [, int mode [, int flags [, int preg_flags]]])` - Create an *RecursiveRegexIterator* from another recursive iterator and a regular expression
- `RecursiveRegexIterator RecursiveRegexIterator::getChildren()` - Return the inner iterator's children contained in a *RecursiveRegexIterator*
- `bool RecursiveRegexIterator::hasChildren()` - Check whether the inner iterator's current element has children

## New Global Constants

PHP Core:

- **`M_EULER`**
- **`M_LNPI`**
- **`M_SQRT3`**

- **M\_SQRTPI**
- **PATHINFO\_FILENAME**
- **PREG\_BACKTRACK\_LIMIT\_ERROR**
- **PREG\_BAD\_UTF8\_ERROR**
- **PREG\_INTERNAL\_ERROR**
- **PREG\_NO\_ERROR**
- **PREG\_RECURSION\_LIMIT\_ERROR**
- **UPLOAD\_ERR\_EXTENSION**
- **STREAM\_SHUT\_RD**
- **STREAM\_SHUT\_WR**
- **STREAM\_SHUT\_RDWR**

**curl:**

- **CURLE\_FILESIZE\_EXCEEDED**
- **CURLE\_FTP\_SSL\_FAILED**
- **CURLE\_LDAP\_INVALID\_URL**
- **CURLFTPAUTH\_DEFAULT**
- **CURLFTPAUTH\_SSL**
- **CURLFTPAUTH\_TLS**
- **CURLFTPSSL\_ALL**
- **CURLFTPSSL\_CONTROL**
- **CURLFTPSSL\_NONE**
- **CURLFTPSSL\_TRY**
- **CURLOPT\_FTP\_SSL**
- **CURLOPT\_FTPSSLAUTH**
- **CURLOPT\_TCP\_NODELAY** Added in PHP 5.2.1.
- **CURLOPT\_TIMEOUT\_MS** Added in PHP 5.2.3
- **CURLOPT\_CONNECTTIMEOUT\_MS** Added in PHP 5.2.3

**GMP:**

- **GMP\_VERSION** Added in PHP 5.2.2.

**ming:**

- **SWFTEXTFIELD\_USEFONT**
- **SWFTEXTFIELD\_AUTOSIZE**
- **SWF\_SOUND\_NOT\_COMPRESSED**
- **SWF\_SOUND\_ADPCM\_COMPRESSED**
- **SWF\_SOUND\_MP3\_COMPRESSED**
- **SWF\_SOUND\_NOT\_COMPRESSED\_LE**
- **SWF\_SOUND\_NELLY\_COMPRESSED**
- **SWF\_SOUND\_5KHZ**
- **SWF\_SOUND\_11KHZ**
- **SWF\_SOUND\_22KHZ**
- **SWF\_SOUND\_44KHZ**
- **SWF\_SOUND\_8BITS**
- **SWF\_SOUND\_16BITS**
- **SWF\_SOUND\_MONO**
- **SWF\_SOUND\_STEREO**

[openssl:](#)

- **OPENSSL\_VERSION\_NUMBER**
- **OPENSSL\_VERSION\_TEXT**

[snmp:](#)

- **SNMP\_OID\_OUTPUT\_FULL**
- **SNMP\_OID\_OUTPUT\_NUMERIC**

[Semaphore:](#)

- **MSG\_EAGAIN**
- **MSG\_ENOMSG**

## **New Class Constants**

[pdo:](#)

- **PDO::ATTR\_DEFAULT\_FETCH\_MODE**

- **PDO::FETCH\_PROPS\_LATE**
- **PDO::FETCH\_KEY\_PAIR** Fetches a 2 column result set into an associated array. (Added in PHP 5.2.3)

spl:

- **CachingIterator::FULL\_CACHE**
- **CachingIterator::TOSTRING\_USE\_INNER**
- **SplFileObject::READ\_AHEAD**
- **SplFileObject::READ\_CSV**
- **SplFileObject::SKIP\_EMPTY**

## New INI Configuration Directives

New *php.ini* directives introduced in PHP 5.2.0:

- [allow\\_url\\_include](#) This useful option makes it possible to differentiate between standard file operations on remote files, and the inclusion of remote files. While the former is usually desirable, the latter can be a security risk if used naively. Starting with PHP 5.2.0, you can allow remote file operations while disallowing the inclusion of remote files in local scripts. In fact, this is the default configuration.
- [pcre.backtrack\\_limit](#) PCRE's backtracking limit.
- [pcre.recursion\\_limit](#) PCRE's recursion limit. Please note that if you set this value to a high number you may consume all the available process stack and eventually crash PHP (due to reaching the stack size limit imposed by the Operating System).
- [session.cookie\\_httponly](#) Marks the cookie as accessible only through the HTTP protocol. This means that the cookie won't be accessible by scripting languages, such as JavaScript. This setting can effectively help to reduce identity theft through XSS attacks (although it is not supported by all browsers).

New directives in PHP 5.2.2:

- [max\\_input\\_nesting\\_level](#) Limits how deep [input variables](#) can be nested, default is 64.

## Error Reporting

Some of the existing **E\_ERROR** conditions have been converted to something that can be caught with a user-defined error handler. If an **E\_RECOVERABLE\_ERROR** is not handled, it will behave in the same way as **E\_ERROR** behaves in all versions of PHP. Errors of this type are logged as *Catchable fatal error*.

This change means that the value of the **E\_ALL** [error\\_reporting](#) constant is now 6143, where the previous value was 2047. Because PHP constants have no meaning outside of PHP, in some cases the integer value is used instead so these will need to be adjusted. So for example by setting the error\_reporting mode from either the [httpd.conf](#) or the [.htaccess](#) files, the value has to be changed accordingly. The same applies when the numeric values are used rather than the constants in PHP scripts.

As a side-effect of a change made to prevent duplicate error messages when [track\\_errors](#) is *On*, it is now necessary to return **FALSE** from user defined error handlers in order to populate [\\$php\\_errormsg](#). This provides a fine-grain control over the levels of messages stored.

## Other Enhancements

- Improved memory manager and increased default memory limit. The new memory manager allocates less memory and works faster than the previous incarnation. It allocates memory from the system in large blocks, and then manages the heap by itself. The *memory\_limit* value in *php.ini* is checked, not for each *emalloc()* call (as before), but for actual blocks requested from the system. This means that *memory\_limit* is far more accurate than it used to be, since the old memory manager didn't calculate all the memory overhead used by the *malloc* library. Thanks to this new-found accuracy memory usage may appear to have increased, although actually it has not. To accommodate this apparent increase, the default *memory\_limit* setting was also increased - from 8 to 16 megabytes.
- Added support for constructors in interfaces to force constructor signature checks in implementations. Starting with PHP 5.2.0, interfaces can have constructors. However, if you choose to declare a constructor in an interface, each class implementing that interface **MUST** include a constructor with a signature matching that of the base interface constructor. By 'signature' we mean the parameter and return type definitions, including any type hints and including whether the data is passed by reference or by value.



# Migrating from PHP 5.0.x to PHP 5.1.x

## Key PHP 5.1.x features

Some of the key features of PHP 5.1.x include:

- A complete rewrite of date handling code, with improved timezone support.
- Significant performance improvements compared to PHP 5.0.X.
- PDO extension is now enabled by default.
- Over 30 new functions in various extensions and built-in functionality.
- Over 400 various bug fixes.

## Changes in reference handling

- [Overview](#)
- [Code that worked under PHP 4.3.x, but now fails](#)
- [Code that worked under PHP 4.3.x, but now throws an error](#)
- [Code that failed under PHP 4.3.x, but now works](#)
- [Code that \*should have worked\* under PHP 5.0.x](#)
- [Warnings that came and went](#)

## Overview

From the PHP script writer's point of view, the change most likely to impact legacy code is in the way that references are handled in all PHP versions post-dating the PHP 4.4.0 release.

Until and including PHP 4.3, it was possible to send, assign or return variables by reference that should really be returned by value, such as a constant, a temporary value (e.g. the result of an expression), or the result of a function that had itself been returned by value, as here:

```
<?php
$foo = "123";

function return_value() {
    global $foo;
    return $foo;
```

```

}

$bar = &return_value();
?>

```

Although this code would usually work as expected under PHP 4.3, in the general case the result is undefined. The Zend Engine could not act correctly on these values as references. This bug could and did lead to various hard-to-reproduce memory corruption problems, particularly where the code base was large.

In PHP 4.4.0, PHP 5.0.4 and all subsequent PHP releases, the Engine was fixed to 'know' when the reference operation is being used on a value that should not be referenced. The actual value is now used in such cases, and a warning is emitted. The warning takes the form of an **E\_NOTICE** in PHP 4.4.0 and up, and **E\_STRICT** in PHP 5.0.4 and up.

Code that could potentially produce memory corruption can no longer do so. However, some legacy code might work differently as a result.

## Code that worked under PHP 4.3, but now fails

```

<?php
function func(&$arraykey) {
    return $arraykey; // function returns by value!
}

$array = array('a', 'b', 'c');
foreach (array_keys($array) as $key) {
    $y = &func($array[$key]);
    $z[] =& $y;
}

var_dump($z);
?>
<

```

Running the above script under any version of PHP that pre-dates the reference fix would produce this output:

```

array(3) {
  [0]=>
    &string(1) "a"
  [1]=>
    &string(1) "b"
  [2]=>
    &string(1) "c"
}

```

Following the reference fix, the same code would result in:

```

array(3) {
  [0]=>
    &string(1) "c"
  [1]=>

```

```

&string(1) "c"
[2]=>
&string(1) "c"
}

```

This is because, following the changes, *func()* assigns by value. The value of *\$y* is re-assigned, and reference-binding is preserved from *\$z*. Prior to the fix, the value was assigned by reference, leading *\$y* to be re-bound on each assignment. The attempt to bind to a temporary value by reference was the cause of the memory corruption.

Such code can be made to work identically in both the pre-fix and the post-fix PHP versions. The signature of *func()* can be altered to return by reference, or the reference assignment can be removed from the result of *func()*.

```

<?php
function func() {
    return 'function return';
}

$x = 'original value';
$y =& $x;
$y = &func();
echo $x;
?>

```

In PHP 4.3 *\$x* would be 'original value', whereas after the changes it would be 'function return' - remember that where the function does not return by reference, the reference assignment is converted to a regular assignment. Again, this can be brought to a common base, either by forcing *func()* to return by reference or by eliminating the by-reference assignment.

## Code that worked under PHP 4.3.x, but now throws an error

```

<?php
class Foo {

    function getThis() {
        return $this;
    }

    function destroyThis() {
        $baz =& $this->getThis();
    }
}

$bar = new Foo();
$bar->destroyThis();
var_dump($bar);
?>

```

In PHP 5.0.3, `$bar` evaluated to **NULL** instead of returning an object. That happened because `getThis()` returns by value, but the value here is assigned by reference. Although it now works in the expected way, this is actually invalid code which will throw an **E\_NOTICE** under PHP 4.4 or an **E\_STRICT** under PHP 5.0.4 and up.

## Code that failed under PHP 4.3.x, but now works

```
<?php
function &f() {
    $x = "foo";
    var_dump($x);
    print "$x\n";
    return($a);
}

for ($i = 0; $i < 3; $i++) {
    $h = &f();
}
?>
```

In PHP 4.3 the third call to `var_dump()` produces **NULL**, due to the memory corruption caused by returning an uninitialized value by reference. This is valid code in PHP 5.0.4 and up, but threw errors in earlier releases of PHP.

```
<?php
$arr = array('al' => array('alfa' => 'ok'));
$arr =& $arr['al'];
echo '-'. $arr['alfa']. "-\n";
?>
```

Until PHP 5.0.5, it wasn't possible to assign an array element by reference in this way. It now is.

## Code that *should have worked* under PHP 5.0.x

There are a couple of instances of bugs reported under PHP 5.0 prior to the reference fixes which now 'work'. However, in both cases errors are thrown by PHP 5.1.x, because the code was invalid in the first place. Returning values by reference using `self::` now works in the general case but throws an **E\_STRICT** warning, and although your mileage may vary when assigning by reference to an overloaded object, you will still see an **E\_ERROR** when you try it, even where the assignment itself appears to work.

## Warnings that came and went

Nested calls to functions returning by reference are valid code under both PHP 4.3.x and PHP 5.1.x, but threw an unwarranted **E\_NOTICE** or **E\_STRICT** under the intervening PHP releases.

```

<?php
function & foo() {
    $var = 'ok';
    return $var;
}

function & bar() {
    return foo();
}

$a =& bar();
echo "$a\n";
?>

```

## Reading []

```

<?php
class XmlTest {

    function test_ref(&$test) {
        $test = "ok";
    }

    function test($test) { }

    function run() {
        $ar = array();
        $this->test_ref($ar[]);
        var_dump($ar);
        $this->test($ar[]);
    }
}

$o = new XmlTest();
$o->run();
?>

```

This should always have thrown a fatal **E\_ERROR**, because [] cannot be used for reading in PHP. It is invalid code in PHP 4.4.2 and PHP 5.0.5 upward.

## Integer values in function parameters

With the advent of PHP 5.0.x, a new parameter parsing API was introduced which is used by a large number of PHP functions. In all versions of PHP between 5.0.x and 5.1.x, the handling of integer values was very strict and would reject non-well formed numeric values when a PHP function expected an integer. These checks have now been relaxed to support non-well formed numeric strings such as " 123" and "123 ", and will no longer fail as they did under PHP 5.0.x. However, to promote code safety and input validation, PHP functions will now emit an **E\_NOTICE** when such strings are passed as integers.

## Class and object changes

- [\*instanceof\*, \*is\\_a\(\)\*, \*is\\_subclass\\_of\(\)\* and \*catch\*](#)
- [Abstract private methods](#)
- [Access modifiers in interfaces](#)
- [Changes in inheritance rules](#)
- [Class constants](#)

### *instanceof*, *is\_a()*, *is\_subclass\_of()* and *catch*

In PHP 5.0, *is\_a()* was deprecated and replaced by the *instanceof* operator. There were some issues with the initial implementation of *instanceof*, which relied on *\_\_autoload()* to search for missing classes. If the class was not present, *instanceof* would throw a fatal **E\_ERROR** due to the failure of *\_\_autoload()* to discover that class. The same behaviour occurred in the *catch* operator and the *is\_subclass\_of()* function, for the same reason.

None of these functions or operators call *\_\_autoload()* in PHP 5.1.x, and the *class\_exists()* workarounds used in code written for PHP 5.0.x, while not problematic in any way, are no longer necessary.

### Abstract private methods

Abstract private methods were supported between PHP 5.0.0 and PHP 5.0.4, but were then disallowed on the grounds that the behaviours of *private* and *abstract* are mutually exclusive.

### Access modifiers in interfaces

Under PHP 5.0, function declarations in interfaces were treated in exactly the same way as function declarations in classes. This has not been the case since October 2004, at which point only the *public* access modifier was allowed in interface function declarations. Since April 2005 - which pre-dates the PHP 5.0b1 release - the *static* modifier has also been allowed. However, the *protected* and *private* modifiers will now throw an **E\_ERROR**, as will *abstract*. Note that this change should not affect your existing code, as none of these modifiers makes sense in the context of interfaces anyway.

### Changes in inheritance rules

Under PHP 5.0, it was possible to have a function declaration in a derived class that did not match the declaration of the same function in the base class, e.g.

This code will cause an **E\_STRICT** error to be emitted under PHP 5.1.x.

```

<?php
class Base {
    function &return_by_ref() {
        $r = 1;
        return $r;
    }
}

class Derived extends Base {
    function return_by_ref() {
        return 1;
    }
}
?>

```

## Class constants

Under PHP 5.0.x, the following code was valid:

Under PHP 5.1.x, redefinition of a class constant will throw a fatal **E\_ERROR**.

```

<?php
class test {
    const foobar = 'foo';
    const foobar = 'bar';
}

?>

```

## Extensions

- [Extensions that are gone from the PHP core](#)
- [Class constants in new PHP 5.1.x extensions](#)

### Extensions that are gone from the PHP core

One of the first things you're likely to notice when you download PHP 5.1.x is that several of the older extensions have disappeared. Those extensions that are still actively maintained are available in the PHP Extension Community Library (PECL), at [» http://pecl.php.net/](http://pecl.php.net/). Windows binaries are built regularly, and you can obtain the binaries for PECL extensions built against PHP 5.1.x from [» http://pecl4win.php.net/](http://pecl4win.php.net/).

### Removed extensions

Extension	Alternative/Status
-----------	--------------------

ext/cpdf	<a href="#">pecl/pdflib</a>
<a href="#">ext/dbx</a>	pecl/dbx
<a href="#">ext/dio</a>	pecl/dio
<a href="#">ext/fam</a>	Not actively maintained
<a href="#">ext/ingres_ii</a>	pecl/ingres
ext/ircg	Not actively maintained
<a href="#">ext/mcve</a>	pecl/mcve
<a href="#">ext/mnogosearch</a>	Not actively maintained
ext/oracle	<a href="#">ext/oci8</a> or <a href="#">ext/pdo_oci</a>
<a href="#">ext/ovrimos</a>	Not actively maintained
ext/pfpro	Not actively maintained
<a href="#">ext/w32api</a>	» <a href="#">pecl/ffi</a>
<a href="#">ext/yp</a>	Not actively maintained
ext/activescript	» <a href="#">pecl/activescript</a>

Modules in PECL that are not actively maintained (i.e. have not been supported for some time, have no active maintainer working on them currently, and do not have any PECL package releases), are still available in CVS at » <http://cvs.php.net/pecl>. However, unreleased PHP modules are by their nature unsupported, and your mileage may vary when attempting to install or use them.

## Class constants in new PHP 5.1.x extensions

The Zend Engine 2.1 API allows extension developers to declare class constants in object oriented extensions. New extensions written for PHP 5.1.x, including [SPL](#), [PDO](#), [XMLReader](#) and [date](#), have their constants in the format **PDO::CLASS\_CONSTANT** rather than in the C format **PDO\_CLASS\_CONSTANT** in order to minimise pollution of the global namespace in PHP.

## Date/time support

Date/time support has been fully rewritten in PHP 5.1.x, and no longer uses the system settings to 'know' the timezone in operation. It will instead utilize, in the following order:



- The timezone set using the [date\\_default\\_timezone\\_set\(\)](#) function (if any)
- The TZ environment variable (if non empty)
- "magical" guess (if the operating system supports it)
- If none of the above options succeeds, UTC

To ensure accuracy (and avoid an **E\_STRICT** warning), you will need to define your timezone in your *php.ini* using the following format:

```
date.timezone = Europe/London
```

The supported timezones are listed, in this format, in the [timezones appendix](#).

Also note that [strtotime\(\)](#) now returns **FALSE** on failure, instead of -1.

## Changes in database support

- [PDO overview](#)
- [Changes in MySQL support](#)
- [Changes in SQLite support](#)

### PDO overview

[PHP Data Objects \(PDO\)](#) were introduced as a PECL extension under PHP 5.0, and became part of the core PHP distribution in PHP 5.1.x. The PDO extension provides a consistent interface for database access, and is used alongside database-specific PDO drivers. Each driver may also have database-specific functions of its own, but basic data access functionality such as issuing queries and fetching data is covered by PDO functions, using the driver named in [PDO::\\_\\_construct\(\)](#).

Note that the PDO extension, and its drivers, are intended to be built as shared extensions. This will enable straightforward driver upgrades from PECL, without forcing you to rebuild all of PHP.

At the point of the PHP 5.1.x release, PDO is more than ready for widespread testing and could be adopted in most situations. However, it is important to understand that PDO and its drivers are comparatively young and may be missing certain database-specific features; evaluate PDO carefully before you use it in new projects.

Legacy code will generally rely on the pre-existing database extensions, which are still maintained.

## Changes in MySQL support

In PHP 4, MySQL 3 support was built-in. With the release of PHP 5.0 there were two MySQL extensions, named 'mysql' and 'mysqli', which were designed to support MySQL < 4.1 and MySQL 4.1 and up, respectively. With the introduction of PDO, which provides a very fast interface to all the database APIs supported by PHP, the PDO\_MYSQL driver can support any of the current versions (MySQL 3, 4 or 5) in PHP code written for PDO, depending on the MySQL library version used during compilation. The older MySQL extensions remain in place for reasons of back compatibility, but are not enabled by default.

## Changes in SQLite support

In PHP 5.0.x, SQLite 2 support was provided by the built-in sqlite extension, which was also available as a PECL extension in PHP 4.3 and PHP 4.4. With the introduction of PDO, the sqlite extension doubles up to act as a 'sqlite2' driver for PDO; it is due to this that the sqlite extension in PHP 5.1.x has a dependency upon the PDO extension.

PHP 5.1.x ships with a number of alternative interfaces to sqlite:

The sqlite extension provides the "classic" sqlite procedural/OO API that you may have used in prior versions of PHP. It also provides the PDO 'sqlite2' driver, which allows you to access legacy SQLite 2 databases using the PDO API.

PDO\_SQLITE provides the 'sqlite' version 3 driver. SQLite version 3 is vastly superior to SQLite version 2, but the file formats of the two versions are not compatible.

If your SQLite-based project is already written and working against earlier PHP versions, then you can continue to use ext/sqlite without problems, but will need to explicitly enable both PDO and sqlite. New projects should use PDO and the 'sqlite' (version 3) driver, as this is faster than SQLite 2, has improved locking concurrency, and supports both prepared statements and binary columns natively.

You must enable PDO to use the SQLite extension. If you want to build the PDO extension as a shared extension, then the SQLite extension must also be built shared. The same holds true for any extension that provides a PDO driver

## Checking for *E\_STRICT*

If you only have a single script to check, you can pick up **E\_STRICT** errors using PHP's commandline lint facility:

```
php -d error_reporting=4095 -l script_to_check.php
```

For larger projects, the shell script below will achieve the same task:

```
#!/bin/sh
```

```

directory=$1

shift

# These extensions are checked
extensions="php inc"

check_file ()
{
    echo -ne "Doing PHP syntax check on $1 ..."

    # Options:
    ERRORS=`/www/php/bin/php -d display_errors=1 -d html_errors=0 -d
error_prepend_string=" " -d error_append_string=" " -d error_reporting=4095 -l
$1 | grep -v "No syntax errors detected"`

    if test -z "$ERRORS"; then
        echo -ne "OK."
    else
        echo -e "Errors found!\n$ERRORS"
    fi

    echo
}

# loop over remaining file args
for FILE in "$@" ; do
    for ext in $extensions; do
        if echo $FILE | grep ".$ext$" > /dev/null; then
            if test -f $FILE; then
                check_file "$FILE"
            fi
        fi
    done
done

```

# Migrating from PHP 4 to PHP 5

## What has changed in PHP 5

PHP 5 and the integrated Zend Engine 2 have greatly improved PHP's performance and capabilities, but great care has been taken to break as little existing code as possible. So migrating your code from PHP 4 to 5 should be very easy. Most existing PHP 4 code should be ready to run without changes, but you should still know about the [few differences](#) and take care to test your code before switching versions in production environments.

## Backward Incompatible Changes

Although most existing PHP 4 code should work without changes, you should pay attention to the following backward incompatible changes:

- There are some [new reserved keywords](#).
- [strpos\(\)](#) and [stripos\(\)](#) now use the entire string as a needle.
- Illegal use of string offsets causes **E\_ERROR** instead of **E\_WARNING**. An example illegal use is: `$str = 'abc'; unset($str[0]);`.
- [array\\_merge\(\)](#) was changed to accept only arrays. If a non-array variable is passed, a **E\_WARNING** will be thrown for every such parameter. Be careful because your code may start emitting **E\_WARNING** out of the blue.
- `PATH_TRANSLATED` server variable is no longer set implicitly under Apache2 SAPI in contrast to the situation in PHP 4, where it is set to the same value as the `SCRIPT_FILENAME` server variable when it is not populated by Apache. This change was made to comply with the [» CGI specification](#). Please refer to [» bug #23610](#) for further information, and see also the `$_SERVER['PATH_TRANSLATED']` description in the manual. This issue also affects PHP versions `>= 4.3.2`.
- The **T\_ML\_COMMENT** constant is no longer defined by the [Tokenizer](#) extension. If `error_reporting` is set to **E\_ALL**, PHP will generate a notice. Although the **T\_ML\_COMMENT** was never used at all, it was defined in PHP 4. In both PHP 4 and PHP 5 `//` and `/* */` are resolved as the **T\_COMMENT** constant. However the PHPDoc style comments `/** */`, which starting PHP 5 are parsed by PHP, are recognized as **T\_DOC\_COMMENT**.
- `$_SERVER` should be populated with `argc` and `argv` if [variables\\_order](#) includes "S". If you have specifically configured your system to not create `$_SERVER`, then of course it shouldn't be there. The change was to always make `argc` and `argv` available in the CLI version regardless of the [variables\\_order](#) setting. As in, the CLI version will now always populate the global `$argc` and `$argv` variables.
- An object with no properties is no longer considered "empty".
- In some cases classes must be declared before use. It only happens if some of the

new features of PHP 5 (such as [interfaces](#) ) are used. Otherwise the behaviour is the old.

- [get\\_class\(\)](#), [get\\_parent\\_class\(\)](#) and [get\\_class\\_methods\(\)](#) now return the name of the classes/methods as they were declared (case-sensitive) which may lead to problems in older scripts that rely on the previous behaviour (the class/method name was always returned lowercased). A possible solution is to search for those functions in all your scripts and use [strtolower\(\)](#). This case sensitivity change also applies to the [magical predefined constants](#) `__CLASS__`, `__METHOD__`, and `__FUNCTION__`. The values are returned exactly as they're declared (case-sensitive).
- [ip2long\(\)](#) now returns **FALSE** when an invalid IP address is passed as argument to the function, and no longer `-1`.
- If there are functions defined in the included file, they can be used in the main file independent if they are before **return()** or after. If the file is included twice, PHP 5 issues fatal error because functions were already declared, while PHP 4 doesn't complain about it. It is recommended to use **include\_once()** instead of checking if the file was already included and conditionally return inside the included file.
- **include\_once()** and **require\_once()** first normalize the path of included file on Windows so that including `A.php` and `a.php` include the file just once.

#### Example #11 - [strrpos\(\)](#) and [stripos\(\)](#) now use the entire string as a needle

```
<?php
var_dump(strrpos('ABCDEF','DEF')); //int(3)

var_dump(strrpos('ABCDEF','DAF')); //bool(false)
?>
```

#### Example #12 - An object with no properties is no longer considered "empty"

```
<?php
class test { }
$t = new test();

var_dump(empty($t)); // echo bool(false)

if ($t) {
    // Will be executed
}
?>
```

### Example #13 - In some cases classes must be declared before used

```
<?php

//works with no errors:
$a = new a();
class a {
}

//throws an error:
$a = new b();

interface c{
}
class b implements c {
}

?>
```

## CLI and CGI

In PHP 5 there were some changes in CLI and CGI filenames. In PHP 5, the CGI version was renamed to *php-cgi.exe* (previously *php.exe* ) and the CLI version now sits in the main directory (previously *cli/php.exe* ).

In PHP 5 it was also introduced a new mode: *php-win.exe*. This is equal to the CLI version, except that php-win doesn't output anything and thus provides no console (no "dos box" appears on the screen). This behavior is similar to php-gtk.

In PHP 5, the CLI version will always populate the global *\$argv* and *\$argc* variables regardless of any *php.ini* directive setting. Even having [register\\_argc\\_argv](#) set to *off* will have no affect in CLI.

See also the [command line reference](#).

## Migrating Configuration Files

Since the ISAPI modules changed their names, from php4xxx to php5xxx, you need to make some changes in the configuration files. There were also changes in the CLI and CGI filenames. Please refer to the [corresponding section](#) for more information.

Migrating the Apache configuration is extremely easy. See the example below to check the change you need to do:

### Example #14 - Migrating Apache configuration files for PHP 5

```
# change this line:
LoadModule php4_module /php/sapi/php4apache2.dll
```

```
# with this one:  
LoadModule php5_module /php/php5apache2.dll
```

If your web server is running PHP in CGI mode, you should note that the CGI version has changed its name from *php.exe* to *php-cgi.exe*. In Apache, you should do something like this:

#### Example #15 - Migrating Apache configuration files for PHP 5, CGI mode

```
# change this line:  
Action application/x-httpd-php "/php/php.exe"  
  
# with this one:  
Action application/x-httpd-php "/php/php-cgi.exe"
```

In other web servers you need to change either the CGI or the ISAPI module filenames.

## New Functions

In PHP 5 there are some new functions. Here is the list of them:

### Arrays:

- [array\\_combine\(\)](#) - Creates an array by using one array for keys and another for its values
- [array\\_diff\\_uassoc\(\)](#) - Computes the difference of arrays with additional index check which is performed by a user supplied callback function
- [array\\_udiff\(\)](#) - Computes the difference of arrays by using a callback function for data comparison
- [array\\_udiff\\_assoc\(\)](#) - Computes the difference of arrays with additional index check. The data is compared by using a callback function
- [array\\_udiff\\_uassoc\(\)](#) - Computes the difference of arrays with additional index check. The data is compared by using a callback function. The index check is done by a callback function also
- [array\\_walk\\_recursive\(\)](#) - Apply a user function recursively to every member of an array
- [array\\_uintersect\\_assoc\(\)](#) - Computes the intersection of arrays with additional index check. The data is compared by using a callback function
- [array\\_uintersect\\_uassoc\(\)](#) - Computes the intersection of arrays with additional index check. Both the data and the indexes are compared by using separate callback functions
- [array\\_uintersect\(\)](#) - Computes the intersection of arrays. The data is compared by using a callback function

## InterBase:

- [ibase\\_affected\\_rows\(\)](#) - Return the number of rows that were affected by the previous query
- [ibase\\_backup\(\)](#) - Initiates a backup task in the service manager and returns immediately
- [ibase\\_commit\\_ret\(\)](#) - Commit a transaction without closing it
- [ibase\\_db\\_info\(\)](#) - Request statistics about a database
- [ibase\\_drop\\_db\(\)](#) - Drops a database
- [ibase\\_errcode\(\)](#) - Return an error code
- [ibase\\_free\\_event\\_handler\(\)](#) - Cancels a registered event handler
- [ibase\\_gen\\_id\(\)](#) - Increments the named generator and returns its new value
- [ibase\\_maintain\\_db\(\)](#) - Execute a maintenance command on the database server
- [ibase\\_name\\_result\(\)](#) - Assigns a name to a result set
- [ibase\\_num\\_params\(\)](#) - Return the number of parameters in a prepared query
- [ibase\\_param\\_info\(\)](#) - Return information about a parameter in a prepared query
- [ibase\\_restore\(\)](#) - Initiates a restore task in the service manager and returns immediately
- [ibase\\_rollback\\_ret\(\)](#) - Rollback transaction and retain the transaction context
- [ibase\\_server\\_info\(\)](#) - Request statistics about a database server
- [ibase\\_service\\_attach\(\)](#) - Connect to the service manager
- [ibase\\_service\\_detach\(\)](#) - Disconnect from the service manager
- [ibase\\_set\\_event\\_handler\(\)](#) - Register a callback function to be called when events are posted
- [ibase\\_wait\\_event\(\)](#) - Wait for an event to be posted by the database

## iconv:

- [iconv\\_mime\\_decode\(\)](#) - Decodes a MIME header field
- [iconv\\_mime\\_decode\\_headers\(\)](#) - Decodes multiple MIME header fields at once
- [iconv\\_mime\\_encode\(\)](#) - Composes a MIME header field
- [iconv\\_strlen\(\)](#) - Returns the character count of string
- [iconv\\_strpos\(\)](#) - Finds position of first occurrence of a needle within a haystack
- [iconv\\_strrpos\(\)](#) - Finds the last occurrence of a needle within a haystack
- [iconv\\_substr\(\)](#) - Cut out part of a string

## Streams:



- [stream\\_copy\\_to\\_stream\(\)](#) - Copies data from one stream to another
- [stream\\_get\\_line\(\)](#) - Gets line from stream resource up to a given delimiter
- [stream\\_socket\\_accept\(\)](#) - Accept a connection on a socket created by [stream\\_socket\\_server\(\)](#)
- [stream\\_socket\\_client\(\)](#) - Open Internet or Unix domain socket connection
- [stream\\_socket\\_get\\_name\(\)](#) - Retrieve the name of the local or remote sockets
- [stream\\_socket\\_recvfrom\(\)](#) - Receives data from a socket, connected or not
- [stream\\_socket\\_sendto\(\)](#) - Sends a message to a socket, whether it is connected or not
- [stream\\_socket\\_server\(\)](#) - Create an Internet or Unix domain server socket

#### Date and time related:

- [idate\(\)](#) - Format a local time/date as integer
- [date\\_sunset\(\)](#) - Time of sunset for a given day and location
- [date\\_sunrise\(\)](#) - Time of sunrise for a given day and location
- [time\\_nanosleep\(\)](#) - Delay for a number of seconds and nanoseconds

#### Strings:

- [str\\_split\(\)](#) - Convert a string to an array
- [strpbrk\(\)](#) - Search a string for any of a set of characters
- [substr\\_compare\(\)](#) - Binary safe optionally case insensitive comparison of two strings from an offset, up to length characters

#### Other:

- [convert\\_uudecode\(\)](#) - decode a uuencoded string
- [convert\\_uuencode\(\)](#) - uuencode a string
- [curl\\_copy\\_handle\(\)](#) - Copy a cURL handle along with all of its preferences
- [dba\\_key\\_split\(\)](#) - Splits a key in string representation into array representation
- [dbase\\_get\\_header\\_info\(\)](#) - Get the header info of a dBase database
- [dbx\\_fetch\\_row\(\)](#) - Fetches rows from a query-result that had the DBX\_RESULT\_UNBUFFERED flag set
- [fbsql\\_set\\_password\(\)](#) - Change the password for a given user
- [file\\_put\\_contents\(\)](#) - Write a string to a file
- [ftp\\_alloc\(\)](#) - Allocates space for a file to be uploaded
- [get\\_declared\\_interfaces\(\)](#) - Returns an array of all declared interfaces

- [get\\_headers\(\)](#) - Fetches all the headers sent by the server in response to a HTTP request
- [headers\\_list\(\)](#) - Returns a list of response headers sent (or ready to send)
- [http\\_build\\_query\(\)](#) - Generate URL-encoded query string
- [image\\_type\\_to\\_extension\(\)](#) - Get file extension for image-type returned by [getimagesize\(\)](#), [exif\\_read\\_data\(\)](#), [exif\\_thumbnail\(\)](#), [exif\\_imagetype\(\)](#)
- [imagefilter\(\)](#) - Applies a filter to an image using custom arguments
- [imap\\_getacl\(\)](#) - Gets the ACL for a given mailbox
- [ldap\\_sasl\\_bind\(\)](#) - Bind to LDAP directory using SASL
- [mb\\_list\\_encodings\(\)](#) - Returns an array of all supported encodings
- [pcntl\\_getpriority\(\)](#) - Get the priority of any process
- [pcntl\\_wait\(\)](#) - Waits on or returns the status of a forked child as defined by the waitpid() system call
- [pg\\_version\(\)](#) - Returns an array with client, protocol and server version (when available)
- [php\\_check\\_syntax\(\)](#) - Check the syntax of the specified file
- [php\\_strip\\_whitespace\(\)](#) - Return source with stripped comments and whitespace
- [proc\\_nice\(\)](#) - Change the priority of the current process
- [pspell\\_config\\_data\\_dir\(\)](#) - Change location of language data files
- [pspell\\_config\\_dict\\_dir\(\)](#) - Change location of the main word list
- [setrawcookie\(\)](#) - Send a cookie without URL-encoding the value
- [scandir\(\)](#) - List files and directories inside the specified path
- [snmp\\_read\\_mib\(\)](#) - Reads and parses a MIB file into the active MIB tree
- [sqlite\\_fetch\\_column\\_types\(\)](#) - Return an array of column types from a particular table

<b>Note</b>
The <a href="#">Tidy</a> extension has also changed its API completely.

## New Directives

There were some new *php.ini* directives introduced in PHP 5. Here is a list of them:

- `mail.force_extra_parameters` - Force the addition of the specified parameters to be passed as extra parameters to the sendmail binary. These parameters will always replace the value of the 5th parameter to [mail\(\)](#), even in safe mode
- [register\\_long\\_arrays](#) - allow/disallow PHP to register the deprecated long

`$HTTP_*_VARS`

- [session.hash\\_function](#) - select a hash function (MD5 or SHA-1)
- [session.hash\\_bits\\_per\\_character](#) - define how many bits are stored in each character when converting the binary hash data to something readable (from 4 to 6)
- [zend.ze1\\_compatibility\\_mode](#) - Enable compatibility mode with Zend Engine 1 (PHP 4)

## Databases

There were some changes in PHP 5 regarding databases (MySQL and SQLite).

In PHP 5 the MySQL client libraries are not bundled, because of license problems and some others. For more information, read the [FAQ entry](#).

There is also a new extension, [MySQLi \(Improved MySQL\)](#), which is designed to work with MySQL 4.1 and above.

Since PHP 5, the [SQLite](#) extension is built-in PHP. SQLite is an embeddable SQL database engine and is not a client library used to connect to a big database server (like MySQL or PostgreSQL). The SQLite library reads and writes directly to and from the database files on disk.

## New Object Model

In PHP 5 there is a new Object Model. PHP's handling of objects has been completely rewritten, allowing for better performance and more features. In previous versions of PHP, objects were handled like primitive types (for instance integers and strings). The drawback of this method was that semantically the whole object was copied when a variable was assigned, or passed as a parameter to a method. In the new approach, objects are referenced by handle, and not by value (one can think of a handle as an object's identifier).

Many PHP programmers aren't even aware of the copying quirks of the old object model and, therefore, the majority of PHP applications will work out of the box, or with very few modifications.

The new Object Model is documented at the [Language Reference](#).

In PHP 5, function with the name of a class is called as a constructor only if defined in the same class. In PHP 4, it is called also if defined in the parent class.

See also the [zend.ze1\\_compatibility\\_mode](#) directive for compatability with PHP 4.

## Error Reporting

As of PHP 5 new error reporting constant `E_STRICT` was introduced with value 2048. It enables run-time PHP suggestions on your code interoperability and forward compatibility, that will help you to keep latest and greatest suggested method of coding. E.g. `STRICT`

message will warn you on using deprecated functions.

<b>Note</b>
E_ALL does not include E_STRICT so it's not enabled by default

# Debugging in PHP

## About debugging in PHP

PHP does not have an internal debugging facility. You can use one of the external debuggers though. The [» Zend IDE](#) includes a debugger, and there are also some free debugger extensions like DBG at [» http://dd.cron.ru/dbg/](#), the [» Advanced PHP Debugger](#) (APD) or [» Xdebug](#).

# Configure options

## List of core configure options

Below is a partial list of configure options used by the PHP *configure* scripts when compiling in Unix-like environments. Most configure options are listed in their appropriate locations on the extension reference pages and not here. For a complete up-to-date list of configure options, run `./configure --help` in your PHP source directory after running *autoconf* (see also the [Installation chapter](#)). You may also be interested in reading the [» GNU configure](#) documentation for information on additional *configure* options such as `--prefix=PREFIX`.

Note
These are only used at compile time. If you want to alter PHP's runtime configuration, please see the chapter on <a href="#">Runtime Configuration</a> .

- [Miscellaneous](#)
- [PHP Behaviour](#)
- [Server](#)

## Configure Options in PHP

Note
These options are only used in PHP as of PHP 4.1.0, although some are available in older versions too. If you want to compile an older version, some options will probably not be available.

## Misc options

`--enable-debug`

Compile with debugging symbols.

`--with-layout=TYPE`

Sets how installed files will be laid out. Type is one of PHP (default) or GNU.

`--with-pear=DIR`

Install PEAR in DIR (default PREFIX/lib/php).

*--without-pear*  
Do not install PEAR.

*--enable-sigchild*  
Enable PHP's own SIGCHLD handler.

*--disable-rpath*  
Disable passing additional runtime library search paths.

*--enable-libgcc*  
Enable explicitly linking against libgcc.

*--enable-php-streams*  
Include experimental PHP streams. Do not use unless you are testing the code!

*--with-zlib-dir[=DIR]*  
Define the location of zlib install directory.

*--enable-trans-sid*  
Enable transparent session id propagation. Only valid for PHP 4.1.2 or less. From PHP 4.2.0, trans-sid feature is always compiled.

*--with-tsrm-pthreads*  
Use POSIX threads (default).

*--enable-shared[=PKGS]*  
Build shared libraries [default=yes].

*--enable-static[=PKGS]*  
Build static libraries [default=yes].

*--enable-fast-install[=PKGS]*  
Optimize for fast installation [default=yes].

*--with-gnu-ld*  
Assume the C compiler uses GNU ld [default=no].

*--disable-libtool-lock*  
Avoid locking (might break parallel builds).

*--with-pic*  
Try to use only PIC/non-PIC objects [default=use both].

*--enable-memory-limit*  
Compile with memory limit support. (not available since PHP 5.2.1 - always enabled)

*--disable-url-fopen-wrapper*  
Disable the URL-aware fopen wrapper that allows accessing files via HTTP or FTP.  
(not available since PHP 5.2.5)

*--enable-versioning*  
Export only required symbols. See INSTALL for more information.

## PHP options

### *--enable-maintainer-mode*

Enable make rules and dependencies not useful (and sometimes confusing) to the casual installer.

### *--with-config-file-path=PATH*

Sets the path in which to look for *php.ini*, defaults to PREFIX/lib.

### *--enable-safe-mode*

Enable safe mode by default.

### *--with-exec-dir[=DIR]*

Only allow executables in DIR when in safe mode defaults to /usr/local/php/bin.

### *--enable-magic-quotes*

Enable magic quotes by default.

### *--disable-short-tags*

Disable the short-form `<? start` tag by default.

## SAPI options

The following list contains the available SAPIs ( *Server Application Programming Interface* ) for PHP.

### *--with-aolserver=DIR*

Specify path to the installed AOLserver.

### *--with-apxs[=FILE]*

Build shared Apache module. FILE is the optional pathname to the Apache apxs tool; defaults to apxs. Make sure you specify the version of apxs that is actually installed on your system and NOT the one that is in the apache source tarball.

### *--with-apache[=DIR]*

Build a static Apache module. DIR is the top-level Apache build directory, defaults to /usr/local/apache.

### *--with-mod\_charset*

Enable transfer tables for mod\_charset (Russian Apache).

### *--with-apxs2[=FILE]*

Build shared Apache 2.0 module. FILE is the optional pathname to the Apache apxs tool; defaults to apxs.

### *--with-caudium=DIR*

Build PHP as a Pike module for use with Caudium. DIR is the Caudium server dir, with the default value /usr/local/caudium/server.

### *--disable-cli*

Available with PHP 4.3.0. Disable building the CLI version of PHP (this forces



`--without-pear` ). More information is available in the section about [Using PHP from the command line](#).

`--enable-embed[=TYPE]`

Enable building of the embedded SAPI library. TYPE is either *shared* or *static*, which defaults to *shared*. Available with PHP 4.3.0.

`--with-fhttpd[=DIR]`

Build fhttpd module. DIR is the fhttpd sources directory, defaults to `/usr/local/src/fhttpd`. No longer available as of PHP 4.3.0.

`--with-isapi=DIR`

Build PHP as an ISAPI module for use with Zeus.

`--with-nsapi=DIR`

Specify path to the installed Netscape/iPlanet/SunONE Webserver.

`--with-phttpd=DIR`

No information yet.

`--with-pi3web=DIR`

Build PHP as a module for use with Pi3Web.

`--with-roxen=DIR`

Build PHP as a Pike module. DIR is the base Roxen directory, normally `/usr/local/roxen/server`.

`--enable-roxen-zts`

Build the Roxen module using Zend Thread Safety.

`--with-servlet[=DIR]`

Include servlet support. DIR is the base install directory for the JSDK. This SAPI requires the java extension must be built as a shared dl.

`--with-thttpd=SRCDIR`

Build PHP as thttpd module.

`--with-tux=MODULEDIR`

Build PHP as a TUX module (Linux only).

`--with-webjames=SRCDIR`

Build PHP as a WebJames module (RISC OS only)

`--disable-cgi`

Disable building CGI version of PHP. Available with PHP 4.3.0.

`--enable-force-cgi-redirect`

Enable the security check for internal server redirects. You should use this if you are running the CGI version with Apache.

`--enable-discard-path`

If this is enabled, the PHP CGI binary can safely be placed outside of the web tree and

people will not be able to circumvent *htaccess* security.

*--with-fastcgi*

Build PHP as FastCGI application. No longer available as of PHP 4.3.0, instead you should use *--enable-fastcgi*.

*--enable-fastcgi*

If this is enabled, the CGI module will be built with support for FastCGI also. Available since PHP 4.3.0

*--disable-path-info-check*

If this is disabled, paths such as */info.php/test?a=b* will fail to work. Available since PHP 4.3.0. For more information see the [» Apache Manual](#).

# php.ini directives

## List of *php.ini* directives

This list includes the *php.ini* directives you can set to configure your PHP setup.

### Configuration options

Name	Default	Changeable	Changelog
<a href="#">allow_call_time_pass_reference</a>	"1"	PHP_INI_PERDIR	PHP_INI_ALL in PHP <= 4.0.0. Removed in PHP 6.0.0.
<a href="#">allow_url_fopen</a>	"1"	PHP_INI_ALL	PHP_INI_ALL in PHP <= 4.3.4. PHP_INI_SYSTEM in PHP < 6. Available since PHP 4.0.4.
<a href="#">allow_url_include</a>	"0"	PHP_INI_ALL	PHP_INI_SYSTEM in PHP 5. Available since PHP 5.2.0.
<a href="#">always_populate_raw_post_data</a>	"0"	PHP_INI_PERDIR	PHP_INI_ALL in PHP <= 4.2.3. Available since PHP 4.1.0.
<a href="#">apc.cache_by_default</a>	"1"	PHP_INI_ALL	PHP_INI_SYSTEM in APC <= 3.0.12. Available since APC 3.0.0.
<a href="#">apc.enabled</a>	"1"	PHP_INI_SYSTEM	PHP_INI_SYSTEM in APC 2. PHP_INI_ALL in APC <= 3.0.12.
<a href="#">apc.enable_cli</a>	"0"	PHP_INI_SYSTEM	Available since APC 3.0.7.
<a href="#">apc.file_update_protection</a>	"2"	PHP_INI_SYSTEM	Available since APC 3.0.6.
<a href="#">apc.filters</a>	NULL	PHP_INI_SYSTEM	
<a href="#">apc.gc_ttl</a>	"3600"	PHP_INI_SYSTEM	

<a href="#">apc.include_once_override</a>	"0"	PHP_INI_SYSTEM	Available since APC 3.0.12.
<a href="#">apc.localcache</a>	"0"	PHP_INI_SYSTEM	Available since APC 3.0.14.
<a href="#">apc.localcache.size</a>	"512"	PHP_INI_SYSTEM	Available since APC 3.0.14.
<a href="#">apc.max_file_size</a>	"1M"	PHP_INI_SYSTEM	Available since APC 3.0.7.
<a href="#">apc.mmap_file_mask</a>	NULL	PHP_INI_SYSTEM	
<a href="#">apc.num_files_hint</a>	"1000"	PHP_INI_SYSTEM	
<a href="#">apc.optimization</a>	"0"	PHP_INI_ALL	PHP_INI_SYSTEM in APC 2. Removed in APC 3.0.13.
<a href="#">apc.report_autofilter</a>	"0"	PHP_INI_SYSTEM	Available since APC 3.0.11.
<a href="#">apc.rfc1867</a>	"0"	PHP_INI_SYSTEM	Available since APC 3.0.13.
<a href="#">apc.rfc1867_freq</a>	"0"	PHP_INI_SYSTEM	
<a href="#">apc.rfc1867_name</a>	"APC_UPLOAD_PROGRESS"	PHP_INI_SYSTEM	
<a href="#">apc.rfc1867_prefix</a>	"upload_"	PHP_INI_SYSTEM	
<a href="#">apc.shm_segments</a>	"1"	PHP_INI_SYSTEM	
<a href="#">apc.shm_size</a>	"30"	PHP_INI_SYSTEM	
<a href="#">apc.slam_defense</a>	"0"	PHP_INI_SYSTEM	Available since APC 3.0.0.
<a href="#">apc.stat</a>	"1"	PHP_INI_SYSTEM	Available since APC 3.0.10.
<a href="#">apc.stat_ctime</a>	"0"	PHP_INI_SYSTEM	Available since APC 3.0.13.
<a href="#">apc.ttl</a>	"0"	PHP_INI_SYSTEM	Available since APC 3.0.0.
<a href="#">apc.user_entries_hint</a>	"4096"	PHP_INI_SYSTEM	Available since APC 3.0.0.

<a href="#">apc.user_ttl</a>	"0"	PHP_INI_SYSTEM	Available since APC 3.0.0.
<a href="#">apc.write_lock</a>	"1"	PHP_INI_SYSTEM	Available since APC 3.0.11.
<a href="#">apd.bitmask</a>	"0"	PHP_INI_ALL	Removed in apd 0.9.
<a href="#">apd.dumpdir</a>	NULL	PHP_INI_ALL	
<a href="#">apd.statement_tracing</a>	"0"	PHP_INI_ALL	Available since apd 0.9.
<a href="#">arg_separator</a>	"&"	PHP_INI_ALL	Removed in PHP 4.0.6.
<a href="#">arg_separator.input</a>	"&"	PHP_INI_PERDIR	Available since PHP 4.0.5.
<a href="#">arg_separator.output</a>	"&"	PHP_INI_ALL	Available since PHP 4.0.5.
<a href="#">asp_tags</a>	"0"	PHP_INI_PERDIR	PHP_INI_ALL in PHP <= 4.0.0.
<a href="#">assert.active</a>	"1"	PHP_INI_ALL	
<a href="#">assert.bail</a>	"0"	PHP_INI_ALL	
<a href="#">assert.callback</a>	NULL	PHP_INI_ALL	
<a href="#">assert.quiet_eval</a>	"0"	PHP_INI_ALL	
<a href="#">assert.warning</a>	"1"	PHP_INI_ALL	
<a href="#">async_send</a>	"0"	PHP_INI_ALL	Available since PHP 4.2.0. Removed in PHP 4.3.0.
<a href="#">auto_append_file</a>	NULL	PHP_INI_PERDIR	PHP_INI_ALL in PHP <= 4.2.3.
<a href="#">auto_detect_line_endings</a>	"0"	PHP_INI_ALL	Available since PHP 4.3.0.
<a href="#">auto_globals_jit</a>	"1"	PHP_INI_PERDIR	Available since PHP 5.0.0.
<a href="#">auto_prepend_file</a>	NULL	PHP_INI_PERDIR	PHP_INI_ALL in PHP <= 4.2.3.
<a href="#">axis2.client_home</a>	"~/work/axisc/c/deply"	PHP_INI_ALL	

axis2.enable_exception	"1"	PHP_INI_ALL	
axis2.enable_trace	"1"	PHP_INI_ALL	
axis2.log_path	"/tmp"	PHP_INI_ALL	
<a href="#">bcmath.scale</a>	"0"	PHP_INI_ALL	
bcompiler.enabled	"1"	PHP_INI_ALL	Available since bcompiler 0.8.
birdstep.max_links	"-1"	PHP_INI_ALL	Available since PHP 4.2.0.
blenc.key_file	"/usr/local/etc/blenckeys"	PHP_INI_ALL	
<a href="#">browscap</a>	NULL	PHP_INI_SYSTEM	
<a href="#">cgi.check_shebang_line</a>	"1"	PHP_INI_SYSTEM	Available since PHP 5.2.1.
cgi.discard_path	"0"	PHP_INI_SYSTEM	Available since PHP 5.3.0.
<a href="#">cgi.fix_pathinfo</a>	"1"	PHP_INI_SYSTEM	PHP_INI_ALL in PHP <= 5.2.0. Available since PHP 4.3.0.
<a href="#">cgi.force_redirect</a>	"1"	PHP_INI_SYSTEM	PHP_INI_ALL in PHP <= 5.2.0. Available since PHP 4.2.0.
cgi.nph	"0"	PHP_INI_ALL	Available since PHP 4.3.5.
<a href="#">cgi.redirect_status_env</a>	NULL	PHP_INI_SYSTEM	PHP_INI_ALL in PHP <= 5.2.0. Available since PHP 4.2.0.
<a href="#">cgi.rfc2616_headers</a>	"0"	PHP_INI_ALL	Available since PHP 4.3.0.
<a href="#">child_terminate</a>	"0"	PHP_INI_ALL	Available since PHP 4.0.5.
coin_acceptor.autoreset	"On"	PHP_INI_ALL	Removed in coin_acceptor 0.2.
coin_acceptor.auto_initialize	"Off"	PHP_INI_ALL	Available since coin_acceptor 0.2.

coin_acceptor.auto_reset	"On"	PHP_INI_ALL	Available since coin_acceptor 0.2.
coin_acceptor.comm_and_function	"Off"	PHP_INI_ALL	Available since coin_acceptor 0.3.
coin_acceptor.delay	"53132"	PHP_INI_ALL	Removed in coin_acceptor 0.2.
coin_acceptor.delay_coins	"53132"	PHP_INI_ALL	Available since coin_acceptor 0.2.
coin_acceptor.delay_prom	"55748"	PHP_INI_ALL	Available since coin_acceptor 0.2.
coin_acceptor.device	"/dev/ttyS1"	PHP_INI_ALL	Removed in coin_acceptor 0.2.
coin_acceptor.lock_on_close	"Off"	PHP_INI_ALL	Available since coin_acceptor 0.2.
coin_acceptor.start_unlocked	"On"	PHP_INI_ALL	Available since coin_acceptor 0.2.
<a href="#">com.allow_dcom</a>	"0"	PHP_INI_SYSTEM	Available since PHP 4.0.5.
<a href="#">com.autoregister_casensitive</a>	"1"	PHP_INI_ALL	PHP_INI_SYSTEM in PHP 4. Available since PHP 4.1.0.
<a href="#">com.autoregister_typelib</a>	"0"	PHP_INI_ALL	PHP_INI_SYSTEM in PHP 4. Available since PHP 4.1.0.
<a href="#">com.autoregister_verbose</a>	"0"	PHP_INI_ALL	PHP_INI_SYSTEM in PHP 4. Available since PHP 4.1.0.
<a href="#">com.code_page</a>	""	PHP_INI_ALL	Available since PHP 5.0.0.
<a href="#">com.typelib_file</a>	""	PHP_INI_SYSTEM	Available since PHP 4.0.5.
crack.default_dictionary	NULL	PHP_INI_PERDIR	PHP_INI_SYSTEM in crack <= 0.2. Available since PHP 4.0.5. Removed in PHP 5.0.0.
daffodildb.default_host	"localhost"	PHP_INI_ALL	

st			
daffodildb.default_password	"daffodil"	PHP_INI_ALL	
daffodildb.default_socket	NULL	PHP_INI_ALL	
daffodildb.default_user	"DAFFODIL"	PHP_INI_ALL	
daffodildb.port	"3456"	PHP_INI_ALL	
date.default_latitude	"31.7667"	PHP_INI_ALL	Available since PHP 5.0.0.
date.default_longitude	"35.2333"	PHP_INI_ALL	Available since PHP 5.0.0.
date.sunrise_zenith	"90.583333"	PHP_INI_ALL	Available since PHP 5.0.0.
date.sunset_zenith	"90.583333"	PHP_INI_ALL	Available since PHP 5.0.0.
date.timezone	""	PHP_INI_ALL	Available since PHP 5.1.0.
dba.default_handler	""	PHP_INI_ALL	Available since PHP 4.3.3.
dbx.colnames_case	"unchanged"	PHP_INI_SYSTEM	Available since PHP 4.3.0. Removed in PHP 5.1.0.
default_charset	""	PHP_INI_ALL	
default_mimetype	"text/html"	PHP_INI_ALL	
default_socket_timeout	"60"	PHP_INI_ALL	Available since PHP 4.3.0.
define_syslog_variables	"0"	PHP_INI_ALL	
detect_unicode	"1"	PHP_INI_ALL	Available since PHP 5.1.0. Removed in PHP 6.0.0.
disable_classes	""	<i>php.ini</i> only	Available since PHP 4.3.2.



<a href="#">disable_functions</a>	""	<i>php.ini</i> only	Available since PHP 4.0.1.
<a href="#">display_errors</a>	"1"	PHP_INI_ALL	
<a href="#">display_startup_errors</a>	"0"	PHP_INI_ALL	Available since PHP 4.0.3.
<a href="#">docref_ext</a>	""	PHP_INI_ALL	Available since PHP 4.3.2.
<a href="#">docref_root</a>	""	PHP_INI_ALL	Available since PHP 4.3.0.
<a href="#">doc_root</a>	NULL	PHP_INI_SYSTEM	
<a href="#">enable_dl</a>	"1"	PHP_INI_SYSTEM	Removed in PHP 6.0.0.
<a href="#">engine</a>	"1"	PHP_INI_ALL	Available since PHP 4.0.5.
<a href="#">error_append_string</a>	NULL	PHP_INI_ALL	
<a href="#">error_log</a>	NULL	PHP_INI_ALL	
<a href="#">error_prepend_string</a>	NULL	PHP_INI_ALL	
<a href="#">error_reporting</a>	NULL	PHP_INI_ALL	
<a href="#">etpan.default.charset</a>	"utf-8"	PHP_INI_ALL	
<a href="#">etpan.default.protocol</a>	"imap"	PHP_INI_ALL	
<a href="#">exif.decode_jis_intel</a>	"JIS"	PHP_INI_ALL	Available since PHP 4.3.0.
<a href="#">exif.decode_jis_motorola</a>	"JIS"	PHP_INI_ALL	Available since PHP 4.3.0.
<a href="#">exif.decode_unicode_intel</a>	"UCS-2LE"	PHP_INI_ALL	Available since PHP 4.3.0.
<a href="#">exif.decode_unicode_motorola</a>	"UCS-2BE"	PHP_INI_ALL	Available since PHP 4.3.0.
<a href="#">exif.encode_jis</a>	""	PHP_INI_ALL	Available since PHP 4.3.0.
<a href="#">exif.encode_unicode</a>	"ISO-8859-15"	PHP_INI_ALL	Available since PHP 4.3.0.

<a href="#">expect.logfile</a>	""	PHP_INI_ALL	
<a href="#">expect.loguser</a>	"1"	PHP_INI_ALL	
<a href="#">expect.timeout</a>	"10"	PHP_INI_ALL	
<a href="#">expose_php</a>	"1"	<i>php.ini</i> only	
<a href="#">extension_dir</a>	"/path/to/php"	PHP_INI_SYSTEM	
<a href="#">fastcgi.impersonate</a>	"0"	PHP_INI_SYSTEM	PHP_INI_ALL in PHP <= 5.2.0. Available since PHP 4.3.0.
<a href="#">fastcgi.logging</a>	"1"	PHP_INI_SYSTEM	PHP_INI_ALL in PHP <= 5.2.0. Available since PHP 4.4.0. Removed in PHP 5.0.0.
<a href="#">fbsql.allow_persistent</a>	"1"	PHP_INI_SYSTEM	Available since PHP 4.0.6. Removed in PHP 4.2.0.
<a href="#">fbsql.allow_persistent</a>	"1"	PHP_INI_SYSTEM	Available since PHP 4.2.0.
<a href="#">fbsql.autocommit</a>	"1"	PHP_INI_SYSTEM	Available since PHP 4.0.6.
<a href="#">fbsql.batchSize</a>	"1000"	PHP_INI_SYSTEM	Available since PHP 4.2.0. Removed in PHP 5.1.0.
<a href="#">fbsql.batchsize</a>	"1000"	PHP_INI_ALL	Available since PHP 5.1.0.
<a href="#">fbsql.default_database</a>	""	PHP_INI_SYSTEM	Available since PHP 4.0.6.
<a href="#">fbsql.default_database_password</a>	""	PHP_INI_SYSTEM	Available since PHP 4.0.6.
<a href="#">fbsql.default_host</a>	NULL	PHP_INI_SYSTEM	Available since PHP 4.0.6.
<a href="#">fbsql.default_password</a>	""	PHP_INI_SYSTEM	Available since PHP 4.0.6.
<a href="#">fbsql.default_user</a>	"_SYSTEM"	PHP_INI_SYSTEM	Available since PHP 4.0.6.

fbsql.generate_warnings	"0"	PHP_INI_SYSTEM	Available since PHP 4.0.6.
fbsql.max_connections	"128"	PHP_INI_SYSTEM	Available since PHP 4.0.6.
fbsql.max_links	"128"	PHP_INI_SYSTEM	Available since PHP 4.0.6.
fbsql.max_persistent	"-1"	PHP_INI_SYSTEM	Available since PHP 4.0.6.
fbsql.max_results	"128"	PHP_INI_SYSTEM	Available since PHP 4.0.6.
fbsql.mbatchSize	"1000"	PHP_INI_SYSTEM	Available since PHP 4.0.6. Removed in PHP 4.2.0.
fbsql.show_timestamp_decimals	"0"	PHP_INI_SYSTEM	Available since PHP 5.1.5.
file_uploads	"1"	PHP_INI_SYSTEM	PHP_INI_ALL in PHP <= 4.2.3. Available since PHP 4.0.3.
filter.default	"unsafe_raw"	PHP_INI_PERDIR	PHP_INI_ALL in filter <= 0.9.4. Available since PHP 5.2.0.
filter.default_flags	NULL	PHP_INI_PERDIR	PHP_INI_ALL in filter <= 0.9.4. Available since PHP 5.2.0.
from	""	PHP_INI_ALL	
gd.jpeg_ignore_warning	"0"	PHP_INI_ALL	Available since PHP 5.1.3.
geoip.custom_directory	NULL	PHP_INI_ALL	Available since geoip 1.0.1.
geoip.database_standard	"GeoIP.dat"	PHP_INI_ALL	Removed in geoip 1.0.1.
gpc_order	"GPC"	PHP_INI_ALL	Removed in PHP 5.0.0.
hidef.ini_path	(char*)default_ini_path	PHP_INI_SYSTEM	
highlight.bg	"#FFFFFF"	PHP_INI_ALL	Removed in PHP

			6.0.0.
highlight.comment	"#FF8000"	PHP_INI_ALL	
highlight.default	"#0000BB"	PHP_INI_ALL	
highlight.html	"#000000"	PHP_INI_ALL	
highlight.keyword	"#007700"	PHP_INI_ALL	
highlight.string	"#DD0000"	PHP_INI_ALL	
html_errors	"1"	PHP_INI_ALL	PHP_INI_SYSTEM in PHP <= 4.2.3. Available since PHP 4.0.2.
htscanner.config_file	".htaccess"	PHP_INI_SYSTEM	
htscanner.default_do_croot	"/"	PHP_INI_SYSTEM	
htscanner.default_ttl	"300"	PHP_INI_SYSTEM	Available since htscanner 0.6.0.
htscanner.stop_on_error	"0"	PHP_INI_SYSTEM	Available since htscanner 0.7.0.
http.allowed_methods	""	PHP_INI_ALL	Available since pecl_http 0.4.0. Removed in pecl_http 1.0.0.
http.allowed_methods_log	""	PHP_INI_ALL	Available since pecl_http 0.12.0. Removed in pecl_http 1.0.0.
http.cache_log	""	PHP_INI_ALL	Available since pecl_http 0.8.0. Removed in pecl_http 1.0.0.
http.composite_log	""	PHP_INI_ALL	Available since pecl_http 0.12.0. Removed in pecl_http 1.0.0.
http.etag.mode	"MD5"	PHP_INI_ALL	Available since pecl_http 1.0.0.
http.etag_mode	"MD5"	PHP_INI_ALL	Available since

			pecl_http 0.12.0. Removed in pecl_http 1.0.0.
http.force_exit	"1"	PHP_INI_ALL	Available since pecl_http 0.18.0.
http.log.allowed_methods	""	PHP_INI_ALL	Available since pecl_http 1.0.0.
http.log.cache	""	PHP_INI_ALL	Available since pecl_http 1.0.0.
http.log.composite	""	PHP_INI_ALL	Available since pecl_http 1.0.0.
http.log.not_found	""	PHP_INI_ALL	Available since pecl_http 1.0.0.
http.log.redirect	""	PHP_INI_ALL	Available since pecl_http 1.0.0.
http.ob_deflate_auto	"0"	PHP_INI_PERDIR	Available since pecl_http 0.21.0. Removed in pecl_http 1.0.0.
http.ob_deflate_flags	"0"	PHP_INI_ALL	Available since pecl_http 0.21.0. Removed in pecl_http 1.0.0.
http.ob_inflate_auto	"0"	PHP_INI_PERDIR	Available since pecl_http 0.21.0. Removed in pecl_http 1.0.0.
http.ob_inflate_flags	"0"	PHP_INI_ALL	Available since pecl_http 0.21.0. Removed in pecl_http 1.0.0.
http.only_exceptions	"0"	PHP_INI_ALL	Available since pecl_http 0.11.0.
http.persistent.handle s.ident	"GLOBAL"	PHP_INI_ALL	Available since pecl_http 1.5.0.
http.persistent.handle s.limit	"-1"	PHP_INI_SYSTEM	Available since pecl_http 1.5.0.
http.redirect_log	""	PHP_INI_ALL	Available since

			pecl_http 0.12.0. Removed in pecl_http 1.0.0.
http.request.datashare.connect	"0"	PHP_INI_SYSTEM	Available since pecl_http 1.3.0.
http.request.datashare.cookie	"0"	PHP_INI_SYSTEM	Available since pecl_http 1.3.0.
http.request.datashare.dns	"1"	PHP_INI_SYSTEM	Available since pecl_http 1.3.0.
http.request.datashare.ssl	"0"	PHP_INI_SYSTEM	Available since pecl_http 1.3.0.
http.request.methods.allowed	""	PHP_INI_ALL	Available since pecl_http 1.0.0.
http.request.methods.custom	""	PHP_INI_PERDIR	Available since pecl_http 1.0.0.
http.send.deflate.start_auto	"0"	PHP_INI_PERDIR	Available since pecl_http 1.0.0.
http.send.deflate.start_flags	"0"	PHP_INI_ALL	Available since pecl_http 1.0.0.
http.send.inflate.start_auto	"0"	PHP_INI_PERDIR	Available since pecl_http 1.0.0.
http.send.inflate.start_flags	"0"	PHP_INI_ALL	Available since pecl_http 1.0.0.
http.send.not_found_404	"1"	PHP_INI_ALL	Available since pecl_http 1.0.0.
hyperwave.allow_persistent	"0"	PHP_INI_SYSTEM	Removed in PHP 4.3.2.
hyperwave.allow_persistent	"0"	PHP_INI_SYSTEM	Available since PHP 4.3.2. Removed in PHP 5.0.0.
hyperwave.default_port	"418"	PHP_INI_ALL	Removed in PHP 5.0.0.
<a href="#">ibase.allow_persistent</a>	"1"	PHP_INI_SYSTEM	
<a href="#">ibase.dateformat</a>	"%Y-%m-%d"	PHP_INI_ALL	

<a href="#">ibase.default_charset</a>	NULL	PHP_INI_ALL	Available since PHP 5.0.0.
<a href="#">ibase.default_db</a>	NULL	PHP_INI_SYSTEM	Available since PHP 5.0.0.
<a href="#">ibase.default_password</a>	NULL	PHP_INI_ALL	
<a href="#">ibase.default_user</a>	NULL	PHP_INI_ALL	
<a href="#">ibase.max_links</a>	"-1"	PHP_INI_SYSTEM	
<a href="#">ibase.max_persistent</a>	"-1"	PHP_INI_SYSTEM	
<a href="#">ibase.timeformat</a>	"%H:%M:%S"	PHP_INI_ALL	
<a href="#">ibase.timestampformat</a>	"%Y-%m-%d %H:%M:%S"	PHP_INI_ALL	
<a href="#">ibm_db2.binmode</a>	"1"	PHP_INI_ALL	
<a href="#">ibm_db2.i5_allow_commit</a>	"0"	PHP_INI_SYSTEM	Available since ibm_db2 1.4.9.
<a href="#">ibm_db2.i5_dbcs_allo_c</a>	"0"	PHP_INI_SYSTEM	Available since ibm_db2 1.5.0.
<a href="#">ibm_db2.instance_name</a>	NULL	PHP_INI_SYSTEM	Available since ibm_db2 1.0.2.
<a href="#">iconv.input_encoding</a>	"ISO-8859-1"	PHP_INI_ALL	Available since PHP 4.0.5.
<a href="#">iconv.internal_encoding</a>	"ISO-8859-1"	PHP_INI_ALL	Available since PHP 4.0.5.
<a href="#">iconv.output_encoding</a>	"ISO-8859-1"	PHP_INI_ALL	Available since PHP 4.0.5.
<a href="#">ifx.allow_persistent</a>	"1"	PHP_INI_SYSTEM	Removed in PHP 5.2.1.
<a href="#">ifx.blobinfile</a>	"1"	PHP_INI_ALL	Removed in PHP 5.2.1.
<a href="#">ifx.byteasvarchar</a>	"0"	PHP_INI_ALL	Removed in PHP 5.2.1.
<a href="#">ifx.charasvarchar</a>	"0"	PHP_INI_ALL	Removed in PHP 5.2.1.

<a href="#">ifx.default_host</a>	NULL	PHP_INI_SYSTEM	Removed in PHP 5.2.1.
<a href="#">ifx.default_password</a>	NULL	PHP_INI_SYSTEM	Removed in PHP 5.2.1.
<a href="#">ifx.default_user</a>	NULL	PHP_INI_SYSTEM	Removed in PHP 5.2.1.
<a href="#">ifx.max_links</a>	"-1"	PHP_INI_SYSTEM	Removed in PHP 5.2.1.
<a href="#">ifx.max_persistent</a>	"-1"	PHP_INI_SYSTEM	Removed in PHP 5.2.1.
<a href="#">ifx.nullformat</a>	"0"	PHP_INI_ALL	Removed in PHP 5.2.1.
<a href="#">ifx.textasvarchar</a>	"0"	PHP_INI_ALL	Removed in PHP 5.2.1.
<a href="#">ignore_repeated_errors</a>	"0"	PHP_INI_ALL	Available since PHP 4.3.0.
<a href="#">ignore_repeated_source</a>	"0"	PHP_INI_ALL	Available since PHP 4.3.0.
<a href="#">ignore_user_abort</a>	"0"	PHP_INI_ALL	
<a href="#">imlib2.font_cache_max_size</a>	"524288"	PHP_INI_ALL	
<a href="#">imlib2.font_path</a>	"/usr/share/php/fonts/"	PHP_INI_ALL	
<a href="#">implicit_flush</a>	"0"	PHP_INI_ALL	PHP_INI_PERDIR in PHP <= 4.2.3.
<a href="#">include_path</a>	".:/path/to/php/pear"	PHP_INI_ALL	
<a href="#">ingres.allow_persistent</a>	"1"	PHP_INI_SYSTEM	Available since PHP 4.0.2. Removed in PHP 5.1.0.
<a href="#">ingres.array_index_start</a>	"1"	PHP_INI_ALL	Available since ingres 1.4.0.
<a href="#">ingres.blob_segment_length</a>	"4096"	PHP_INI_ALL	Available since ingres 1.2.0.
<a href="#">ingres.cursor_mode</a>	"0"	PHP_INI_ALL	Available since ingres 1.1.



ingres.default_database	NULL	PHP_INI_ALL	Available since PHP 4.0.2. Removed in PHP 5.1.0.
ingres.default_password	NULL	PHP_INI_ALL	Available since PHP 4.0.2. Removed in PHP 5.1.0.
ingres.default_user	NULL	PHP_INI_ALL	Available since PHP 4.0.2. Removed in PHP 5.1.0.
ingres.max_links	"-1"	PHP_INI_SYSTEM	Available since PHP 4.0.2. Removed in PHP 5.1.0.
ingres.max_persistent	"-1"	PHP_INI_SYSTEM	Available since PHP 4.0.2. Removed in PHP 5.1.0.
ingres.report_db_warnings	"1"	PHP_INI_ALL	Available since ingres 1.1.
ingres.timeout	"-1"	PHP_INI_ALL	Available since ingres 1.4.0.
ingres.trace_connect	"0"	PHP_INI_ALL	Available since ingres 1.2.1.
ircg.control_user	"nobody"	PHP_INI_ALL	Available since PHP 5.0.0. Removed in PHP 5.1.0.
ircg.keep_alive_interval	"60"	PHP_INI_ALL	Available since PHP 5.0.0. Removed in PHP 5.1.0.
ircg.max_format_message_sets	"12"	PHP_INI_ALL	Available since PHP 5.0.0. Removed in PHP 5.1.0.
ircg.shared_memory_size	"6000000"	PHP_INI_ALL	Available since PHP 5.0.0. Removed in PHP 5.1.0.
ircg.work_dir	"/tmp/ircg"	PHP_INI_ALL	Available since PHP 5.0.0. Removed in PHP 5.1.0.
<a href="#">last_modified</a>	"0"	PHP_INI_ALL	Available since PHP 4.0.5.

ldap.base_dn	NULL	PHP_INI_ALL	Removed in PHP 4.2.0.
ldap.max_links	"-1"	PHP_INI_SYSTEM	
log.dbm_dir	""	PHP_INI_ALL	Removed in PHP 4.0.1.
log_errors	"0"	PHP_INI_ALL	
log_errors_max_len	"1024"	PHP_INI_ALL	Available since PHP 4.3.0.
magic_quotes_gpc	"1"	PHP_INI_PERDIR	PHP_INI_ALL in PHP <= 4.2.3. Removed in PHP 6.0.0.
magic_quotes_runtime	"0"	PHP_INI_ALL	Removed in PHP 6.0.0.
magic_quotes_sybase	"0"	PHP_INI_ALL	Removed in PHP 6.0.0.
mail.force_extra_parameters	NULL	<i>php.ini</i> only	Available since PHP 5.0.0.
mailparse.def_charset	"us-ascii"	PHP_INI_ALL	Available since PHP 4.1.0. Removed in PHP 4.2.0.
maxdb.default_db	NULL	PHP_INI_ALL	
maxdb.default_host	NULL	PHP_INI_ALL	
maxdb.default_pw	NULL	PHP_INI_ALL	
maxdb.default_user	NULL	PHP_INI_ALL	
maxdb.long_readlen	"200"	PHP_INI_ALL	
max_execution_time	"30"	PHP_INI_ALL	
max_input_nesting_level	"64"	PHP_INI_PERDIR	Available since PHP 4.4.8. Removed in PHP 5.0.0.
max_input_time	"-1"	PHP_INI_PERDIR	Available since PHP 4.3.0.
mbstring.detect_order	NULL	PHP_INI_ALL	Available since PHP 4.0.6.

<a href="#">mbstring.encoding_translation</a>	"0"	PHP_INI_PERDIR	Available since PHP 4.3.0.
<a href="#">mbstring.func_overload</a>	"0"	PHP_INI_PERDIR	PHP_INI_SYSTEM in PHP <= 4.2.3. Available since PHP 4.2.0.
<a href="#">mbstring.http_input</a>	"pass"	PHP_INI_ALL	Available since PHP 4.0.6.
<a href="#">mbstring.http_output</a>	"pass"	PHP_INI_ALL	Available since PHP 4.0.6.
<a href="#">mbstring.internal_encoding</a>	NULL	PHP_INI_ALL	Available since PHP 4.0.6.
<a href="#">mbstring.language</a>	"neutral"	PHP_INI_PERDIR	Available since PHP 4.3.0.
<a href="#">mbstring.script_encoding</a>	NULL	PHP_INI_ALL	Available since PHP 4.3.0.
<a href="#">mbstring.strict_detection</a>	"0"	PHP_INI_ALL	Available since PHP 5.1.2.
<a href="#">mbstring.substitute_character</a>	NULL	PHP_INI_ALL	Available since PHP 4.0.6.
<a href="#">mcrypt.algorithms_dir</a>	NULL	PHP_INI_ALL	Available since PHP 4.0.2.
<a href="#">mcrypt.modes_dir</a>	NULL	PHP_INI_ALL	Available since PHP 4.0.2.
<a href="#">memcache.allow_failover</a>	"1"	PHP_INI_ALL	Available since memcache 2.0.2.
<a href="#">memcache.chunk_size</a>	"8192"	PHP_INI_ALL	Available since memcache 2.0.2.
<a href="#">memcache.default_port</a>	"11211"	PHP_INI_ALL	Available since memcache 2.0.2.
<a href="#">memcache.hash_function</a>	"crc32"	PHP_INI_ALL	Available since memcache 2.2.0.
<a href="#">memcache.hash_strategy</a>	"standard"	PHP_INI_ALL	Available since memcache 2.2.0.
<a href="#">memcache.max_failover_attempts</a>	"20"	PHP_INI_ALL	Available since memcache 2.1.0.

<a href="#">memory_limit</a>	"128M"	PHP_INI_ALL	
<a href="#">mime_magic.debug</a>	"0"	PHP_INI_SYSTEM	Available since PHP 5.0.0.
<a href="#">mime_magic.magicfile</a>	"/path/to/php/magic.mime"	PHP_INI_SYSTEM	Available since PHP 4.3.0.
<a href="#">mysql.allow_persistent</a>	"1"	PHP_INI_ALL	
<a href="#">mysql.max_links</a>	"-1"	PHP_INI_ALL	
<a href="#">mysql.max_persistent</a>	"-1"	PHP_INI_ALL	
<a href="#">mssql.allow_persistent</a>	"1"	PHP_INI_SYSTEM	
<a href="#">mssql.batchsize</a>	"0"	PHP_INI_ALL	Available since PHP 4.0.4.
<a href="#">mssql.charset</a>	""	PHP_INI_ALL	Available since PHP 5.1.2.
<a href="#">mssql.compatability_mode</a>	"0"	PHP_INI_ALL	
<a href="#">mssql.connect_timeout</a>	"5"	PHP_INI_ALL	
<a href="#">mssql.datetimeconvert</a>	"1"	PHP_INI_ALL	Available since PHP 4.2.0.
<a href="#">mssql.max_links</a>	"-1"	PHP_INI_SYSTEM	
<a href="#">mssql.max_persistent</a>	"-1"	PHP_INI_SYSTEM	
<a href="#">mssql.max_procs</a>	"-1"	PHP_INI_ALL	Available since PHP 4.3.0.
<a href="#">mssql.min_error_severity</a>	"10"	PHP_INI_ALL	
<a href="#">mssql.min_message_severity</a>	"10"	PHP_INI_ALL	
<a href="#">mssql.secure_connection</a>	"0"	PHP_INI_SYSTEM	Available since PHP 4.3.0.
<a href="#">mssql.textlimit</a>	"-1"	PHP_INI_ALL	
<a href="#">mssql.textsize</a>	"-1"	PHP_INI_ALL	

mssql.timeout	"60"	PHP_INI_ALL	Available since PHP 4.1.0.
mysql.allow_local_infile	"1"	PHP_INI_SYSTEM	Available since PHP 6.0.0.
mysql.allow_persistent	"1"	PHP_INI_SYSTEM	
mysql.cache_size	"2000"	PHP_INI_SYSTEM	Available since PHP 6.0.0.
mysql.connect_timeout	"60"	PHP_INI_ALL	PHP_INI_SYSTEM in PHP <= 4.3.2. Available since PHP 4.3.0.
mysql.default_host	NULL	PHP_INI_ALL	
mysql.default_password	NULL	PHP_INI_ALL	
mysql.default_port	NULL	PHP_INI_ALL	
mysql.default_socket	NULL	PHP_INI_ALL	Available since PHP 4.0.1.
mysql.default_user	NULL	PHP_INI_ALL	
mysql.max_links	"-1"	PHP_INI_SYSTEM	
mysql.max_persistent	"-1"	PHP_INI_SYSTEM	
mysql.trace_mode	"0"	PHP_INI_ALL	Available since PHP 4.3.0.
mysqli.allow_local_infile	"1"	PHP_INI_SYSTEM	Available since PHP 6.0.0.
mysqli.cache_size	"2000"	PHP_INI_SYSTEM	Available since PHP 6.0.0.
mysqli.default_host	NULL	PHP_INI_ALL	Available since PHP 5.0.0.
mysqli.default_port	"3306"	PHP_INI_ALL	Available since PHP 5.0.0.
mysqli.default_pw	NULL	PHP_INI_ALL	Available since PHP 5.0.0.
mysqli.default_socket	NULL	PHP_INI_ALL	Available since PHP

			5.0.0.
<a href="#">mysqli.default_user</a>	NULL	PHP_INI_ALL	Available since PHP 5.0.0.
<a href="#">mysqli.max_links</a>	"-1"	PHP_INI_SYSTEM	Available since PHP 5.0.0.
<a href="#">mysqli.reconnect</a>	"0"	PHP_INI_SYSTEM	Available since PHP 5.0.0.
<a href="#">mysqlnd.collect_statistics</a>	"1"	PHP_INI_SYSTEM	Available since PHP 6.0.0.
<a href="#">namazu.debugmode</a>	"0"	PHP_INI_ALL	
<a href="#">namazu.lang</a>	NULL	PHP_INI_ALL	
<a href="#">namazu.loggingmode</a>	"0"	PHP_INI_ALL	
<a href="#">namazu.sortmethod</a>	NULL	PHP_INI_ALL	
<a href="#">namazu.sortorder</a>	NULL	PHP_INI_ALL	
<a href="#">nsapi.read_timeout</a>	"60"	PHP_INI_ALL	Available since PHP 4.3.3.
<a href="#">oci8.default_prefetch</a>	"10"	PHP_INI_SYSTEM	Available since PHP 5.1.2.
<a href="#">oci8.max_persistent</a>	"-1"	PHP_INI_SYSTEM	Available since PHP 5.1.2.
<a href="#">oci8.old_oci_close_semantics</a>	"0"	PHP_INI_SYSTEM	Available since PHP 5.1.2.
<a href="#">oci8.persistent_timeout</a>	"-1"	PHP_INI_SYSTEM	Available since PHP 5.1.2.
<a href="#">oci8.ping_interval</a>	"60"	PHP_INI_SYSTEM	Available since PHP 5.1.2.
<a href="#">oci8.privileged_connect</a>	"0"	PHP_INI_SYSTEM	Available since PHP 5.1.2.
<a href="#">oci8.statement_cache_size</a>	"20"	PHP_INI_SYSTEM	Available since PHP 5.1.2.
<a href="#">odbc.allow_persistent</a>	"1"	PHP_INI_SYSTEM	
<a href="#">odbc.check_persistent</a>	"1"	PHP_INI_SYSTEM	

<a href="#">odbc.defaultbinmode</a>	"1"	PHP_INI_ALL	
<a href="#">odbc.defaultlrl</a>	"4096"	PHP_INI_ALL	
<a href="#">odbc.default_db</a>	NULL	PHP_INI_ALL	
<a href="#">odbc.default_pw</a>	NULL	PHP_INI_ALL	
<a href="#">odbc.default_user</a>	NULL	PHP_INI_ALL	
<a href="#">odbc.max_links</a>	"-1"	PHP_INI_SYSTEM	
<a href="#">odbc.max_persistent</a>	"-1"	PHP_INI_SYSTEM	
<a href="#">odbt.datetime_format</a>	"object"	PHP_INI_ALL	
<a href="#">odbt.detach_default_queries</a>	"0"	PHP_INI_ALL	
<a href="#">odbt.guid_format</a>	"string"	PHP_INI_ALL	Available since odbtp 1.1.3.
<a href="#">odbt.interface_file</a>	"/usr/local/share/odbt p.conf"	PHP_INI_ALL	
<a href="#">odbt.truncation_errors</a>	"1"	PHP_INI_ALL	
<a href="#">opendirectory.default_separator</a>	"/"	PHP_INI_ALL	Removed in opendirectory 0.2.2.
<a href="#">opendirectory.max_refs</a>	"-1"	PHP_INI_ALL	
<a href="#">opendirectory.separator</a>	"/"	PHP_INI_ALL	Available since opendirectory 0.2.2.
<a href="#">open_basedir</a>	NULL	PHP_INI_ALL	PHP_INI_SYSTEM in PHP < 6.
<a href="#">oracle.allow_persistent</a>	"-1"	PHP_INI_ALL	Removed in PHP 5.1.0.
<a href="#">oracle.max_links</a>	"-1"	PHP_INI_ALL	Removed in PHP 5.1.0.
<a href="#">oracle.max_persistent</a>	"-1"	PHP_INI_ALL	Removed in PHP 5.1.0.
<a href="#">output_buffering</a>	"0"	PHP_INI_PERDIR	

<a href="#">output_handler</a>	NULL	PHP_INI_PERDIR	Available since PHP 4.0.4.
pam.servicename	"php"	PHP_INI_ALL	
<a href="#">pcre.backtrack_limit</a>	"100000"	PHP_INI_ALL	Available since PHP 5.2.0.
<a href="#">pcre.recursion_limit</a>	"100000"	PHP_INI_ALL	Available since PHP 5.2.0.
<a href="#">pdo_odbc.connection_pooling</a>	"strict"	PHP_INI_ALL	Available since PHP 5.1.0.
<a href="#">pdo_odbc.db2_instance_name</a>	NULL	PHP_INI_SYSTEM	Available since PHP 5.1.1. Removed in PHP 6.0.0.
pfpro.defaulthost	"test-payflow.verisign.com"	PHP_INI_ALL	Available since PHP 4.0.2. Removed in PHP 5.1.0.
pfpro.defaultport	"443"	PHP_INI_ALL	Available since PHP 4.0.2. Removed in PHP 5.1.0.
pfpro.defaulttimeout	"30"	PHP_INI_ALL	Available since PHP 4.0.2. Removed in PHP 5.1.0.
pfpro.proxyaddress	""	PHP_INI_ALL	Available since PHP 4.0.2. Removed in PHP 5.1.0.
pfpro.proxylogon	""	PHP_INI_ALL	Available since PHP 4.0.2. Removed in PHP 5.1.0.
pfpro.proxypassword	""	PHP_INI_ALL	Available since PHP 4.0.2. Removed in PHP 5.1.0.
pfpro.proxyport	""	PHP_INI_ALL	Available since PHP 4.0.2. Removed in PHP 5.1.0.
<a href="#">pgsql.allow_persistent</a>	"1"	PHP_INI_SYSTEM	
<a href="#">pgsql.auto_reset_persistent</a>	"0"	PHP_INI_SYSTEM	Available since PHP 4.2.0.



<a href="#">pgsql.ignore_notice</a>	"0"	PHP_INI_ALL	Available since PHP 4.3.0.
<a href="#">pgsql.log_notice</a>	"0"	PHP_INI_ALL	Available since PHP 4.3.0.
<a href="#">pgsql.max_links</a>	"-1"	PHP_INI_SYSTEM	
<a href="#">pgsql.max_persistent</a>	"-1"	PHP_INI_SYSTEM	
<a href="#">phar.extract_list</a>	""	PHP_INI_ALL	Available since phar 1.1.0.
<a href="#">phar.readonly</a>	"1"	PHP_INI_ALL	
<a href="#">phar.require_hash</a>	"1"	PHP_INI_ALL	
<a href="#">post_max_size</a>	"8M"	PHP_INI_PERDIR	PHP_INI_SYSTEM in PHP <= 4.2.3. Available since PHP 4.0.3.
<a href="#">precision</a>	"14"	PHP_INI_ALL	
<a href="#">printer.default_printer</a>	""	PHP_INI_ALL	Available since PHP 4.0.6. Removed in PHP 4.1.1.
<a href="#">python.append_path</a>	""	PHP_INI_ALL	
<a href="#">python.prepend_path</a>	".."	PHP_INI_ALL	
<a href="#">realpath_cache_size</a>	"16K"	PHP_INI_SYSTEM	Available since PHP 5.1.0.
<a href="#">realpath_cache_ttl</a>	"120"	PHP_INI_SYSTEM	Available since PHP 5.1.0.
<a href="#">register_argc_argv</a>	"1"	PHP_INI_PERDIR	PHP_INI_ALL in PHP <= 4.2.3.
<a href="#">register_globals</a>	"0"	PHP_INI_PERDIR	PHP_INI_ALL in PHP <= 4.2.3. Removed in PHP 6.0.0.
<a href="#">register_long_arrays</a>	"1"	PHP_INI_PERDIR	Available since PHP 5.0.0. Removed in PHP 6.0.0.
<a href="#">report_memleaks</a>	"1"	PHP_INI_ALL	Available since PHP 4.3.0.

report_zend_debug	"1"	PHP_INI_ALL	Available since PHP 5.0.0.
runkit.internal_override	"0"	PHP_INI_SYSTEM	
runkit.superglobal	""	PHP_INI_PERDIR	
safe_mode	"0"	PHP_INI_SYSTEM	Removed in PHP 6.0.0.
safe_mode_allowed_env_vars	"PHP_"	PHP_INI_SYSTEM	Removed in PHP 6.0.0.
safe_mode_exec_dir	""	PHP_INI_SYSTEM	Removed in PHP 6.0.0.
safe_mode_gid	"0"	PHP_INI_SYSTEM	Available since PHP 4.1.0. Removed in PHP 6.0.0.
safe_mode_include_dir	NULL	PHP_INI_SYSTEM	Available since PHP 4.1.0. Removed in PHP 6.0.0.
safe_mode_protected_env_vars	"LD_LIBRARY_PATH"	PHP_INI_SYSTEM	Removed in PHP 6.0.0.
sendmail_from	NULL	PHP_INI_ALL	
sendmail_path	"/usr/sbin/sendmail -t -i"	PHP_INI_SYSTEM	
serialize_precision	"100"	PHP_INI_ALL	Available since PHP 4.3.2.
session.auto_start	"0"	PHP_INI_ALL	
session.bug_compat_42	"1"	PHP_INI_ALL	Available since PHP 4.3.0. Removed in PHP 6.0.0.
session.bug_compat_warn	"1"	PHP_INI_ALL	Available since PHP 4.3.0. Removed in PHP 6.0.0.
session.cache_expire	"180"	PHP_INI_ALL	
session.cache_limiter	"nocache"	PHP_INI_ALL	
session.cookie_domain	""	PHP_INI_ALL	

session.cookie_httponly	""	PHP_INI_ALL	Available since PHP 5.2.0.
session.cookie_lifetime	"0"	PHP_INI_ALL	
session.cookie_path	"/"	PHP_INI_ALL	
session.cookie_secure	""	PHP_INI_ALL	Available since PHP 4.0.4.
session.entropy_file	""	PHP_INI_ALL	
session.entropy_length	"0"	PHP_INI_ALL	
session.gc_dividend	"100"	PHP_INI_ALL	Available since PHP 4.3.0. Removed in PHP 4.3.2.
session.gc_divisor	"100"	PHP_INI_ALL	Available since PHP 4.3.2.
session.gc_maxlifetime	"1440"	PHP_INI_ALL	
session.gc_probability	"1"	PHP_INI_ALL	
session.hash_bits_per_character	"4"	PHP_INI_ALL	Available since PHP 5.0.0.
session.hash_function	"0"	PHP_INI_ALL	Available since PHP 5.0.0.
session.name	"PHPSESSID"	PHP_INI_ALL	
session.referer_check	""	PHP_INI_ALL	
session.save_handler	"files"	PHP_INI_ALL	
session.save_path	""	PHP_INI_ALL	
session.serialize_handler	"php"	PHP_INI_ALL	
session.use_cookies	"1"	PHP_INI_ALL	
session.use_only_cookies	"1"	PHP_INI_ALL	Available since PHP 4.3.0.

<a href="#">session.use_trans_sid</a>	"0"	PHP_INI_ALL	PHP_INI_ALL in PHP <= 4.2.3. PHP_INI_PERDIR in PHP < 5. Available since PHP 4.0.3.
session_pgsql.create_table	"1"	PHP_INI_SYSTEM	
session_pgsql.db	"host=localhost dbname=php_session user=nobody"	PHP_INI_SYSTEM	
session_pgsql.disable	"0"	PHP_INI_SYSTEM	
session_pgsql.failover_mode	"0"	PHP_INI_SYSTEM	
session_pgsql.gc_interval	"3600"	PHP_INI_SYSTEM	
session_pgsql.keep_expired	"0"	PHP_INI_SYSTEM	
session_pgsql.sem_file_name	"/tmp/php_session_pgsql"	PHP_INI_SYSTEM	
session_pgsql.serialize	"0"	PHP_INI_SYSTEM	
session_pgsql.short_circuit	"0"	PHP_INI_SYSTEM	
session_pgsql.use_app_vars	"0"	PHP_INI_SYSTEM	
session_pgsql.vacuum_interval	"21600"	PHP_INI_SYSTEM	
<a href="#">short_open_tag</a>	"1"	PHP_INI_ALL	PHP_INI_ALL in PHP <= 4.0.0. PHP_INI_PERDIR in PHP < 5.3.0
simple_cvs.authMethod	"0"	PHP_INI_ALL	
simple_cvs.compressionLevel	"0"	PHP_INI_ALL	
simple_cvs.cvsRoot	"0"	PHP_INI_ALL	

simple_cvs.host	"0"	PHP_INI_ALL	
simple_cvs.moduleName	"0"	PHP_INI_ALL	
simple_cvs.userName	"0"	PHP_INI_ALL	
simple_cvs.workingDir	"0"	PHP_INI_ALL	
SMTP	"localhost"	PHP_INI_ALL	
smtp_port	"25"	PHP_INI_ALL	Available since PHP 4.3.0.
soap.wsdl_cache	"1"	PHP_INI_ALL	Available since PHP 5.1.5.
soap.wsdl_cache_dir	"/tmp"	PHP_INI_ALL	Available since PHP 5.0.0.
soap.wsdl_cache_enabled	"1"	PHP_INI_ALL	Available since PHP 5.0.0.
soap.wsdl_cache_limit	"5"	PHP_INI_ALL	Available since PHP 5.1.5.
soap.wsdl_cache_ttl	"86400"	PHP_INI_ALL	Available since PHP 5.0.0.
sql.safe_mode	"0"	PHP_INI_SYSTEM	
sqlite.assoc_case	"0"	PHP_INI_ALL	Available since PHP 5.0.0.
sqlite.iso8859.locale	"1"	PHP_INI_ALL	Available since PHP 6.0.0.
sybase.allow_persistent	"1"	PHP_INI_ALL	PHP_INI_ALL in PHP <= 4.0.2. PHP_INI_SYSTEM in PHP <= 4.0.3.
sybase.hostname	NULL	PHP_INI_ALL	Removed in PHP 4.0.2.
sybase.interface_file	""	PHP_INI_ALL	
sybase.login_timeout	"0"	PHP_INI_ALL	Removed in PHP 4.0.2.

<a href="#">sybase.max_links</a>	"-1"	PHP_INI_ALL	PHP_INI_ALL in PHP <= 4.0.2. PHP_INI_SYSTEM in PHP <= 4.0.3.
<a href="#">sybase.max_persistent</a>	"-1"	PHP_INI_ALL	PHP_INI_ALL in PHP <= 4.0.2. PHP_INI_SYSTEM in PHP <= 4.0.3.
<a href="#">sybase.min_client_severity</a>	"10"	PHP_INI_ALL	Removed in PHP 4.0.2.
<a href="#">sybase.min_error_severity</a>	"10"	PHP_INI_ALL	
<a href="#">sybase.min_message_severity</a>	"10"	PHP_INI_ALL	
<a href="#">sybase.min_server_severity</a>	"10"	PHP_INI_ALL	Removed in PHP 4.0.2.
<a href="#">sybase.timeout</a>	"0"	PHP_INI_ALL	Removed in PHP 4.0.2.
<a href="#">sybct.allow_persistent</a>	"1"	PHP_INI_SYSTEM	PHP_INI_ALL in PHP <= 4.0.2. Available since PHP 4.0.2. Removed in PHP 4.0.3.
<a href="#">sybct.deadlock_retry_count</a>	"0"	PHP_INI_ALL	Available since PHP 4.3.0.
<a href="#">sybct.hostname</a>	NULL	PHP_INI_ALL	Available since PHP 4.0.2. Removed in PHP 4.0.3.
<a href="#">sybct.login_timeout</a>	"-1"	PHP_INI_ALL	Available since PHP 4.0.2.
<a href="#">sybct.max_links</a>	"-1"	PHP_INI_SYSTEM	PHP_INI_ALL in PHP <= 4.0.2. Available since PHP 4.0.2. Removed in PHP 4.0.3.
<a href="#">sybct.max_persistent</a>	"-1"	PHP_INI_SYSTEM	PHP_INI_ALL in PHP <= 4.0.2. Available since PHP 4.0.2. Removed in PHP 4.0.3.

<a href="#">sybct.min_client_severity</a>	"10"	PHP_INI_ALL	Available since PHP 4.0.2. Removed in PHP 4.0.3.
<a href="#">sybct.min_server_severity</a>	"10"	PHP_INI_ALL	Available since PHP 4.0.2. Removed in PHP 4.0.3.
sybct.packet_size	"0"	PHP_INI_ALL	Available since PHP 4.3.5.
<a href="#">sybct.timeout</a>	"0"	PHP_INI_ALL	Available since PHP 4.0.2.
sysvshm.init_mem	"10000"	PHP_INI_ALL	
<a href="#">tidy.clean_output</a>	"0"	PHP_INI_USER	PHP_INI_PERDIR in PHP 5. Available since PHP 5.0.0.
<a href="#">tidy.default_config</a>	""	PHP_INI_SYSTEM	Available since PHP 5.0.0.
<a href="#">track_errors</a>	"0"	PHP_INI_ALL	
<a href="#">track_vars</a>	"1"	PHP_INI_ALL	Removed in PHP 4.0.3.
unicode.fallback_encoding	NULL	PHP_INI_ALL	Available since PHP 6.0.0.
unicode.filesystem_encoding	NULL	PHP_INI_ALL	Available since PHP 6.0.0.
unicode.http_input_encoding	NULL	PHP_INI_ALL	Available since PHP 6.0.0.
<a href="#">unicode.output_encoding</a>	NULL	PHP_INI_ALL	Available since PHP 6.0.0.
unicode.runtime_encoding	NULL	PHP_INI_ALL	Available since PHP 6.0.0.
unicode.script_encoding	NULL	PHP_INI_ALL	Available since PHP 6.0.0.
unicode.semantics	"0"	PHP_INI_SYSTEM	Available since PHP 6.0.0.
unicode.stream_encoding	"UTF-8"	PHP_INI_ALL	Available since PHP 6.0.0.

unserialize_callback_func	NULL	PHP_INI_ALL	Available since PHP 4.2.0.
uploadprogress.file.filename_template	"/tmp/upt_%s.txt"	PHP_INI_ALL	
upload_max_filesize	"2M"	PHP_INI_PERDIR	PHP_INI_ALL in PHP <= 4.2.3.
upload_tmp_dir	NULL	PHP_INI_SYSTEM	
url_rewriter.tags	"a=href,area=href,frame=src,form=,fieldset="	PHP_INI_ALL	Available since PHP 4.0.4.
user_agent	NULL	PHP_INI_ALL	Available since PHP 4.3.0.
user_dir	NULL	PHP_INI_SYSTEM	
user_ini.cache_ttl	"300"	PHP_INI_SYSTEM	Available since PHP 5.3.0.
user_ini.filename	".user.ini"	PHP_INI_SYSTEM	Available since PHP 5.3.0.
valkyrie.auto_validate	"0"	PHP_INI_ALL	
valkyrie.config_path	NULL	PHP_INI_ALL	
variables_order	"EGPCS"	PHP_INI_PERDIR	PHP_INI_ALL in PHP <= 5.0.5.
request_order	""	PHP_INI_SYSTEM PHP_INI_PERDIR	Added in PHP 5.3.0
velocis.max_links	"-1"	PHP_INI_ALL	Removed in PHP 4.2.0.
vld.active	"0"	PHP_INI_SYSTEM	
vld.execute	"1"	PHP_INI_SYSTEM	Available since vld 0.8.0.
vld.skip_append	"0"	PHP_INI_SYSTEM	Available since vld 0.8.0.
vld.skip_prepend	"0"	PHP_INI_SYSTEM	Available since vld 0.8.0.
xbithack	"0"	PHP_INI_ALL	Available since PHP 4.0.5.



xdebug.auto_profile	"0"	PHP_INI_ALL	Removed in Xdebug 2.0.0.
xdebug.auto_profile_mode	"0"	PHP_INI_ALL	Removed in Xdebug 2.0.0.
xdebug.auto_trace	"0"	PHP_INI_ALL	
xdebug.collect_includes	"1"	PHP_INI_ALL	Available since Xdebug 2.0.0.
xdebug.collect_params	"0"	PHP_INI_ALL	
xdebug.collect_return	"0"	PHP_INI_ALL	Available since Xdebug 2.0.0.
xdebug.collect_vars	"0"	PHP_INI_ALL	Available since Xdebug 2.0.0.
xdebug.default_enable	"1"	PHP_INI_ALL	PHP_INI_SYSTEM in Xdebug 1.
xdebug.dump.COOKIE	NULL	PHP_INI_ALL	
xdebug.dump.ENV	NULL	PHP_INI_ALL	
xdebug.dump.FILES	NULL	PHP_INI_ALL	
xdebug.dump.GET	NULL	PHP_INI_ALL	
xdebug.dump.POST	NULL	PHP_INI_ALL	
xdebug.dump.REQUEST	NULL	PHP_INI_ALL	
xdebug.dump.SERVER	NULL	PHP_INI_ALL	
xdebug.dump.SESSION	NULL	PHP_INI_ALL	
xdebug.dump_globals	"1"	PHP_INI_ALL	Available since Xdebug 2.0.0.
xdebug.dump_once	"1"	PHP_INI_ALL	
xdebug.dump_undefined	"0"	PHP_INI_ALL	
xdebug.extended_info	"1"	PHP_INI_SYSTEM	Available since

o			Xdebug 2.0.0.
xdebug.idekey	""	PHP_INI_ALL	Available since Xdebug 2.0.0.
xdebug.manual_url	"http://www.php.net"	PHP_INI_ALL	
xdebug.max_nesting_level	"100"	PHP_INI_ALL	
xdebug.output_dir	"/tmp"	PHP_INI_PERDIR	PHP_INI_SYSTEM in Xdebug <= 1.2.0. Removed in Xdebug 2.0.0.
xdebug.profiler_aggregate	"0"	PHP_INI_PERDIR	Available since Xdebug 2.0.0.
xdebug.profiler_append	"0"	PHP_INI_PERDIR	Available since Xdebug 2.0.0.
xdebug.profiler_enable	"0"	PHP_INI_PERDIR	Available since Xdebug 2.0.0.
xdebug.profiler_enable_trigger	"0"	PHP_INI_PERDIR	Available since Xdebug 2.0.0.
xdebug.profiler_output_dir	"/tmp"	PHP_INI_PERDIR	Available since Xdebug 2.0.0.
xdebug.profiler_output_name	"cachegrind.out.%p"	PHP_INI_PERDIR	Available since Xdebug 2.0.0.
xdebug.remote_autostart	"0"	PHP_INI_ALL	Available since Xdebug 2.0.0.
xdebug.remote_enable	"0"	PHP_INI_PERDIR	
xdebug.remote_handler	"dbgp"	PHP_INI_ALL	
xdebug.remote_host	"localhost"	PHP_INI_ALL	
xdebug.remote_log	""	PHP_INI_ALL	Available since Xdebug 2.0.0.
xdebug.remote_mode	"req"	PHP_INI_ALL	
xdebug.remote_port	"9000"	PHP_INI_ALL	

xdebug.show_exception_trace	"0"	PHP_INI_ALL	Available since Xdebug 2.0.0.
xdebug.show_local_vars	"0"	PHP_INI_ALL	Available since Xdebug 2.0.0.
xdebug.show_memory_delta	"0"	PHP_INI_ALL	Available since Xdebug 2.0.0.
xdebug.trace_format	"0"	PHP_INI_ALL	Available since Xdebug 2.0.0.
xdebug.trace_options	"0"	PHP_INI_ALL	Available since Xdebug 2.0.0.
xdebug.trace_output_dir	"/tmp"	PHP_INI_ALL	Available since Xdebug 2.0.0.
xdebug.trace_output_name	"trace.%c"	PHP_INI_ALL	Available since Xdebug 2.0.0.
xdebug.var_display_max_children	"128"	PHP_INI_ALL	Available since Xdebug 2.0.0.
xdebug.var_display_max_data	"512"	PHP_INI_ALL	Available since Xdebug 2.0.0.
xdebug.var_display_max_depth	"3"	PHP_INI_ALL	Available since Xdebug 2.0.0.
xmlrpc_errors	"0"	PHP_INI_SYSTEM	Available since PHP 4.1.0.
xmlrpc_error_number	"0"	PHP_INI_ALL	Available since PHP 4.1.0.
xmms.path	"/usr/bin/xmms"	PHP_INI_ALL	
xmms.session	"0"	PHP_INI_ALL	
<a href="#">y2k_compliance</a>	"1"	PHP_INI_ALL	
yami.response_timeout	"5"	PHP_INI_ALL	Available since yami 1.0.1.
yaz.keepalive	"120"	PHP_INI_ALL	
yaz.log_file	NULL	PHP_INI_ALL	Available since PHP 4.3.0. Removed in PHP 5.0.0.
yaz.log_mask	NULL	PHP_INI_ALL	Available since yaz

			1.0.3.
yaz.max_links	"100"	PHP_INI_ALL	Available since PHP 4.3.0. Removed in PHP 5.0.0.
<a href="#">zend.ze1_compatibility_mode</a>	"0"	PHP_INI_ALL	Available since PHP 5.0.0. Removed in PHP 5.3.0.
<a href="#">zlib.output_compression</a>	"0"	PHP_INI_ALL	Available since PHP 4.0.5.
<a href="#">zlib.output_compression_level</a>	"-1"	PHP_INI_ALL	Available since PHP 4.3.0.
<a href="#">zlib.output_handler</a>	""	PHP_INI_ALL	Available since PHP 4.3.0.

### Definition of PHP\_INI\_\* constants

Constant	Value	Meaning
PHP_INI_USER	1	Entry can be set in user scripts or in <a href="#">Windows registry</a>
PHP_INI_PERDIR	2	Entry can be set in <i>php.ini</i> , <i>.htaccess</i> or <i>httpd.conf</i>
PHP_INI_SYSTEM	4	Entry can be set in <i>php.ini</i> or <i>httpd.conf</i>
PHP_INI_ALL	7	Entry can be set anywhere

### List of *php.ini* sections

This list includes the *php.ini* sections you can set to configure your PHP setup on a per Host or Path basis. These sections are optional.

These sections don't directly affect PHP. They are used to group other *php.ini* directives together and to get them to act upon a particular host or on a particular path.

## Sections

Name	Changeable	Changelog
[HOST=]	PHP_INI_SYSTEM	Added in PHP 5.3.0.
[PATH=]	PHP_INI_SYSTEM	Added in PHP 5.3.0.

Here's a short explanation of the configuration directives.

[HOST=<host>]

This section allows you to define a set of *php.ini* directives that will take effect on the named host.

### Example #16 - Activate full on-screen error reporting for dev. domain

```
[HOST=dev.site.com]
error_reporting = E_ALL
display_errors = On
```

[PATH=<path>]

This section allows you to define a set of *php.ini* directives that will take effect when a script runs from the named path.

### Example #17 - Add security script for protected areas

```
[PATH=/home/site/public/secure]
auto_prepend_file=security.php
```

## Description of core *php.ini* directives

This list includes the core *php.ini* directives you can set to configure your PHP setup. Directives handled by extensions are listed and detailed at the extension documentation pages respectively; Information on the session directives for example can be found at the [sessions page](#).

## Httpd Options

### Httpd Options

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Name	Default	Changeable	Changelog
async_send	"0"	PHP_INI_ALL	

## Language Options

### Language and Misc Configuration Options

Name	Default	Changeable	Changelog
short_open_tag	"1"	PHP_INI_ALL	PHP_INI_ALL in PHP <= 4.0.0. PHP_INI_PERDIR in PHP < 5.3.0
asp_tags	"0"	PHP_INI_PERDIR	PHP_INI_ALL in PHP <= 4.0.0.
precision	"14"	PHP_INI_ALL	
y2k_compliance	"1"	PHP_INI_ALL	
allow_call_time_pass_reference	"1"	PHP_INI_PERDIR	PHP_INI_ALL in PHP <= 4.0.0.
expose_php	"1"	<i>php.ini</i> only	
zend.ze1_compatibility_mode	"0"	PHP_INI_ALL	Available since PHP 5.0.0. Removed in PHP 5.3.0

Here's a short explanation of the configuration directives.

*short\_open\_tag* [boolean](#)

Tells whether the short form ( `<? ?>` ) of PHP's open tag should be allowed. If you want to use PHP in combination with XML, you can disable this option in order to use `<?xml ?>` inline. Otherwise, you can print it with PHP, for example: `<?php echo '<?xml version="1.0"; ?>'`. Also if disabled, you must use the long form of the PHP open tag ( `<?php ?>` ).

## Note

This directive also affects the shorthand `<?=`, which is identical to `<? echo`. Use of this shortcut requires `short_open_tag` to be on.

*asp\_tags* [boolean](#)

Enables the use of ASP-like `<% %>` tags in addition to the usual `<?php ?>` tags. This includes the variable-value printing shorthand of `<%= $value %>`. For more information, see [Escaping from HTML](#).

*precision* [integer](#)

The number of significant digits displayed in floating point numbers.

*y2k\_compliance* [boolean](#)

Enforce year 2000 compliance (will cause problems with non-compliant browsers)

*allow\_call\_time\_pass\_reference* [boolean](#)

Whether to warn when arguments are passed by reference at function call time. This method is deprecated and is likely to be unsupported in future versions of PHP/Zend. The encouraged method of specifying which arguments should be passed by reference is in the function declaration. You're encouraged to try and turn this option Off and make sure your scripts work properly with it in order to ensure they will work with future versions of the language (you will receive a warning each time you use this feature). Passing arguments by reference at function call time was deprecated for code cleanliness reason. Function can modify its argument in undocumented way if it didn't declared that the argument is passed by reference. To prevent side-effects it's better to specify which arguments are passed by reference in function declaration only. See also [References Explained](#).

*expose\_php* [boolean](#)

Decides whether PHP may expose the fact that it is installed on the server (e.g. by adding its signature to the Web server header). It is no security threat in any way, but it makes it possible to determine whether you use PHP on your server or not.

*zend.zel\_compatibility\_mode* [boolean](#)

Enable compatibility mode with Zend Engine 1 (PHP 4). It affects the cloning, casting (objects with no properties cast to **FALSE** or 0), and [comparing of objects](#). In this mode, objects are passed by value instead of reference by default. See also the section titled [Migrating from PHP 4 to PHP 5](#).

## Resource Limits

### Resource Limits

--	--	--	--

Name	Default	Changeable	Changelog
memory_limit	"128M"	PHP_INI_ALL	"8M" before PHP 5.2.0, "16M" in PHP 5.2.0

Here's a short explanation of the configuration directives.

*memory\_limit* [integer](#)

This sets the maximum amount of memory in bytes that a script is allowed to allocate. This helps prevent poorly written scripts for eating up all available memory on a server. Note that to have no memory limit, set this directive to `-1`. Prior to PHP 5.2.1, in order to use this directive it had to be enabled at compile time by using `-enable-memory-limit` in the configure line. This was also required to define the functions [memory\\_get\\_usage\(\)](#) and [memory\\_get\\_peak\\_usage\(\)](#). When an [integer](#) is used, the value is measured in bytes. Shorthand notation, as described in [this FAQ](#), may also be used.

See also: [max\\_execution\\_time](#).

## Performance Tuning

### Performance Tuning

Name	Default	Changeable	Changelog
realpath_cache_size	"16K"	PHP_INI_SYSTEM	Available since PHP 5.1.0.
realpath_cache_ttl	"120"	PHP_INI_SYSTEM	Available since PHP 5.1.0.

Here's a short explanation of the configuration directives.

*realpath\_cache\_size* [integer](#)

Determines the size of the realpath cache to be used by PHP. This value should be increased on systems where PHP opens many files, to reflect the quantity of the file operations performed.

*realpath\_cache\_ttl* [integer](#)

Duration of time (in seconds) for which to cache realpath information for a given file or



directory. For systems with rarely changing files, consider increasing the value.

## Data Handling

### Data Handling Configuration Options

Name	Default	Changeable	Changelog
track_vars	"On"	PHP_INI_??	
arg_separator.output	"&"	PHP_INI_ALL	Available since PHP 4.0.5.
arg_separator.input	"&"	PHP_INI_PERDIR	Available since PHP 4.0.5.
variables_order	"EGPCS"	PHP_INI_PERDIR	PHP_INI_ALL in PHP <= 5.0.5.
request_order	""	PHP_INI_SYSTEM PHP_INI_PERDIR	Available since PHP 5.3.0
auto_globals_jit	"1"	PHP_INI_PERDIR	Available since PHP 5.0.0.
register_globals	"0"	PHP_INI_PERDIR	PHP_INI_ALL in PHP <= 4.2.3.
register_argc_argv	"1"	PHP_INI_PERDIR	PHP_INI_ALL in PHP <= 4.2.3.
register_long_arrays	"1"	PHP_INI_PERDIR	Available since PHP 5.0.0.
post_max_size	"8M"	PHP_INI_PERDIR	PHP_INI_SYSTEM in PHP <= 4.2.3. Available since PHP 4.0.3.
gpc_order	"GPC"	PHP_INI_ALL	
auto_prepend_file	NULL	PHP_INI_PERDIR	PHP_INI_ALL in PHP <= 4.2.3.
auto_append_file	NULL	PHP_INI_PERDIR	PHP_INI_ALL in PHP <= 4.2.3.

default_mimetype	"text/html"	PHP_INI_ALL	
default_charset	""	PHP_INI_ALL	
always_populate_raw_post_data	"0"	PHP_INI_PERDIR	PHP_INI_ALL in PHP <= 4.2.3. Available since PHP 4.1.0.
allow_webdav_methods	"0"	PHP_INI_PERDIR	

Here's a short explanation of the configuration directives.

`track_vars` [boolean](#)

If enabled, then Environment, GET, POST, Cookie, and Server variables can be found in the global associative arrays `$_ENV`, `$_GET`, `$_POST`, `$_COOKIE`, and `$_SERVER`. Note that as of PHP 4.0.3, `track_vars` is always turned on.

`arg_separator.output` [string](#)

The separator used in PHP generated URLs to separate arguments.

`arg_separator.input` [string](#)

List of separator(s) used by PHP to parse input URLs into variables.

#### Note

Every character in this directive is considered as separator!

`variables_order` [string](#)

Sets the order of the EGPCS ( *E* nvironment, *G* et, *P* ost, *C* ookie, and *S* erver) variable parsing. For example, if `variables_order` is set to `"SP"` then PHP will create the [superglobals](#) `$_SERVER` and `$_POST`, but not create `$_ENV`, `$_GET`, and `$_COOKIE`. Setting to `""` means no [superglobals](#) will be set. If the deprecated [register\\_globals](#) directive is on (removed as of PHP 6.0.0), then `variables_order` also configures the order the `ENV`, `GET`, `POST`, `COOKIE` and `SERVER` variables are populated in global scope. So for example if `variables_order` is set to `"EGPCS"`, `register_globals` is enabled, and both `$_GET['action']` and `$_POST['action']` are set, then `$action` will contain the value of `$_POST['action']` as *P* comes after *G* in our example directive value.

#### Warning

In both the CGI and FastCGI SAPIs, [\\$\\_SERVER](#) is also populated by values from the environment; *S* is always equivalent to *ES* regardless of the placement of *E* elsewhere in this directive.

<b>Note</b>
The content and order of <code>\$_REQUEST</code> is also affected by this directive.

`request_order` [string](#)

This directive describes the order in which PHP registers GET, POST and Cookie variables into the `_REQUEST` array. Registration is done from left to right, newer values override older values. If this directive is not set, `variables_order` is used for `$_REQUEST` contents.

`auto_globals_jit` [boolean](#)

When enabled, the `SERVER` and `ENV` variables are created when they're first used (Just In Time) instead of when the script starts. If these variables are not used within a script, having this directive on will result in a performance gain. The PHP directives [register\\_globals](#), [register\\_long\\_arrays](#), and [register\\_argc\\_argv](#) must be disabled for this directive to have any affect. Since PHP 5.1.3 it is not necessary to have [register\\_argc\\_argv](#) disabled.

`register_globals` [boolean](#)

Whether or not to register the EGPCS (Environment, GET, POST, Cookie, Server) variables as global variables. As of [» PHP 4.2.0](#), this directive defaults to *off*. Please read the security chapter on [Using register\\_globals](#) for related information. Please note that `register_globals` cannot be set at runtime ( `ini_set()` ). Although, you can use `.htaccess` if your host allows it as described above. An example `.htaccess` entry:  
**php\_flag register\_globals off.**

<b>Note</b>
<code>register_globals</code> is affected by the <a href="#">variables_order</a> directive.

<b>Warning</b>
This feature has been <i>DEPRECATED</i> and <i>REMOVED</i> as of PHP 6.0.0. Relying on this feature is highly discouraged.

`register_argc_argv` [boolean](#)

Tells PHP whether to declare the `argv` & `argc` variables (that would contain the GET information). See also [command line](#). Also, this directive became available in PHP 4.0.0 and was always "on" before that.

`register_long_arrays` [boolean](#)

Tells PHP whether or not to register the deprecated long `$HTTP_*_VARS` type [predefined variables](#). When On (default), long predefined PHP variables like `$HTTP_GET_VARS` will be defined. If you're not using them, it's recommended to turn them off, for performance reasons. Instead, use the superglobal arrays, like `$_GET`.

This directive became available in PHP 5.0.0 and was dropped in PHP 6.0.0.

*post\_max\_size* [integer](#)

Sets max size of post data allowed. This setting also affects file upload. To upload large files, this value must be larger than [upload\\_max\\_filesize](#). If memory limit is enabled by your configure script, [memory\\_limit](#) also affects file uploading. Generally speaking, [memory\\_limit](#) should be larger than *post\_max\_size*. When an [integer](#) is used, the value is measured in bytes. Shorthand notation, as described in [this FAQ](#), may also be used. If the size of post data is greater than *post\_max\_size*, the `$_POST` and `$_FILES` [superglobals](#) are empty. This can be tracked in various ways, e.g. by passing the `$_GET` variable to the script processing the data, i.e. `<form action="edit.php?processed=1">`, and then checking if `$_GET['processed']` is set.

*gpc\_order* [string](#)

Set the order of GET/POST/COOKIE variable parsing. The default setting of this directive is "GPC". Setting this to "GP", for example, will cause PHP to completely ignore cookies and to overwrite any GET method variables with POST-method variables of the same name.

<b>Note</b>
This option is not available in PHP 4. Use <a href="#">variables_order</a> instead.

*auto\_prepend\_file* [string](#)

Specifies the name of a file that is automatically parsed before the main file. The file is included as if it was called with the **require()** function, so [include\\_path](#) is used. The special value *none* disables auto-prepend.

*auto\_append\_file* [string](#)

Specifies the name of a file that is automatically parsed after the main file. The file is included as if it was called with the **require()** function, so [include\\_path](#) is used. The special value *none* disables auto-appending.

<b>Note</b>
If the script is terminated with <a href="#">exit()</a> , auto-append will <i>not</i> occur.

*default\_mimetype* [string](#)

*default\_charset* [string](#)

As of 4.0.0, PHP always outputs a character encoding by default in the Content-type: header. To disable sending of the charset, simply set it to be empty.

*always\_populate\_raw\_post\_data* [boolean](#)

Always populate the `$HTTP_RAW_POST_DATA` containing the raw POST data. Otherwise, the variable is populated only with unrecognized MIME type of the data. However, the preferred method for accessing the raw POST data is [php://input](#).

`$HTTP_RAW_POST_DATA` is not available with `enctype="multipart/form-data"`.

`allow_webdav_methods` [boolean](#)

Allow handling of WebDAV http requests within PHP scripts (eg. PROPFIND, PROPPATCH, MOVE, COPY, etc.). This directive does not exist as of PHP 4.3.2. If you want to get the post data of those requests, you have to set [always\\_populate\\_raw\\_post\\_data](#) as well.

See also: [magic\\_quotes\\_gpc](#), [magic\\_quotes\\_runtime](#), and [magic\\_quotes\\_sybase](#).

## Paths and Directories

### Paths and Directories Configuration Options

Name	Default	Changeable	Changelog
<code>include_path</code>	<code>"./:/path/to/php/pear"</code>	PHP_INI_ALL	
<code>doc_root</code>	NULL	PHP_INI_SYSTEM	
<code>user_dir</code>	NULL	PHP_INI_SYSTEM	
<code>extension_dir</code>	<code>"/path/to/php"</code>	PHP_INI_SYSTEM	
<code>extension</code>	NULL	<i>php.ini</i> only	
<code>cgi.check_shebang_line</code>	<code>"1"</code>	PHP_INI_SYSTEM	Available since PHP 5.2.0.
<code>cgi.fix_pathinfo</code>	<code>"1"</code>	PHP_INI_SYSTEM	Available since PHP 4.3.0. PHP_INI_ALL prior to PHP 5.2.1.
<code>cgi.force_redirect</code>	<code>"1"</code>	PHP_INI_SYSTEM	Available since PHP 4.2.0. PHP_INI_ALL prior to PHP 5.2.1.
<code>cgi.redirect_status_env</code>	NULL	PHP_INI_SYSTEM	Available since PHP 4.2.0. PHP_INI_ALL prior to PHP 5.2.1.
<code>fastcgi.impersonate</code>	<code>"0"</code>	PHP_INI_SYSTEM	Available since PHP 4.3.0. PHP_INI_ALL prior to PHP 5.2.1.
<code>cgi.rfc2616_headers</code>	<code>"0"</code>	PHP_INI_ALL	Available since PHP 4.3.0.

Here's a short explanation of the configuration directives.

*include\_path* [string](#)

Specifies a list of directories where the **require()**, **include()**, [fopen\(\)](#), [file\(\)](#), [readfile\(\)](#) and [file\\_get\\_contents\(\)](#) functions look for files. The format is like the system's PATH environment variable: a list of directories separated with a colon in Unix or semicolon in Windows.

<b>Example #18 - Unix include_path</b>
--

<pre>include_path=".: /php/includes"</pre>
--

<b>Example #19 - Windows include_path</b>
---

<pre>include_path=".: c:\php\includes"</pre>
--

Using `.` in the include path allows for relative includes as it means the current directory.

*doc\_root* [string](#)

PHP's "root directory" on the server. Only used if non-empty. If PHP is configured with [safe mode](#), no files outside this directory are served. If PHP was not compiled with `FORCE_REDIRECT`, you *should* set `doc_root` if you are running PHP as a CGI under any web server (other than IIS). The alternative is to use the [cgi.force\\_redirect](#) configuration below.

*user\_dir* [string](#)

The base name of the directory used on a user's home directory for PHP files, for example *public\_html*.

*extension\_dir* [string](#)

In what directory PHP should look for dynamically loadable extensions. See also: [enable\\_dl](#), and [dl\(\)](#).

*extension* [string](#)

Which dynamically loadable extensions to load when PHP starts up.

*cgi.check\_shebang\_line* [boolean](#)

Controls whether CGI PHP checks for line starting with `#!` (shebang) at the top of the running script. This line might be needed if the script support running both as stand-alone script and via PHP CGI. PHP in CGI mode skips this line and ignores its content if this directive is turned on.

*cgi.fix\_pathinfo* [boolean](#)

Provides *real* `PATH_INFO`/`PATH_TRANSLATED` support for CGI. PHP's previous behaviour was to set `PATH_TRANSLATED` to `SCRIPT_FILENAME`, and to not grok what `PATH_INFO` is. For more information on `PATH_INFO`, see the `cgi` specs. Setting this to 1 will cause PHP CGI to fix it's paths to conform to the spec. A setting of zero causes PHP to behave as before. Default is zero. You should fix your scripts to use

SCRIPT\_FILENAME rather than PATH\_TRANSLATED.

`cgi.force_redirect` [boolean](#)

`cgi.force_redirect` is necessary to provide security running PHP as a CGI under most web servers. Left undefined, PHP turns this on by default. You can turn it off *at your own risk*.

Note
Windows Users: You <i>can</i> safely turn this off for IIS, in fact, you <i>must</i> . To get OmniHTTPD or Xitami to work you <i>must</i> turn it off.

`cgi.redirect_status_env` [string](#)

If `cgi.force_redirect` is turned on, and you are not running under Apache or Netscape (iPlanet) web servers, you *may* need to set an environment variable name that PHP will look for to know it is OK to continue execution.

Note
Setting this variable <i>may</i> cause security issues, <i>know what you are doing first</i> .

`fastcgi.impersonate` [string](#)

FastCGI under IIS (on WINNT based OS) supports the ability to impersonate security tokens of the calling client. This allows IIS to define the security context that the request runs under. `mod_fastcgi` under Apache does not currently support this feature (03/17/2002) Set to 1 if running under IIS. Default is zero.

`cgi.rfc2616_headers` [int](#)

Tells PHP what type of headers to use when sending HTTP response code. If it's set 0, PHP sends a Status: header that is supported by Apache and other web servers. When this option is set to 1, PHP will send [» RFC 2616](#) compliant headers. Leave it set to 0 unless you know what you're doing.

## File Uploads

### File Uploads Configuration Options

Name	Default	Changeable	Changelog
file_uploads	"1"	PHP_INI_SYSTEM	PHP_INI_ALL in PHP <= 4.2.3. Available since PHP 4.0.3.

upload_tmp_dir	NULL	PHP_INI_SYSTEM	
upload_max_filesize	"2M"	PHP_INI_PERDIR	PHP_INI_ALL in PHP <= 4.2.3.

Here's a short explanation of the configuration directives.

*file\_uploads* [boolean](#)

Whether or not to allow HTTP [file uploads](#). See also the [upload\\_max\\_filesize](#), [upload\\_tmp\\_dir](#), and [post\\_max\\_size](#) directives. When an [integer](#) is used, the value is measured in bytes. Shorthand notation, as described in [this FAQ](#), may also be used.

*upload\_tmp\_dir* [string](#)

The temporary directory used for storing files when doing file upload. Must be writable by whatever user PHP is running as. If not specified PHP will use the system's default.

*upload\_max\_filesize* [integer](#)

The maximum size of an uploaded file. When an [integer](#) is used, the value is measured in bytes. Shorthand notation, as described in [this FAQ](#), may also be used.

## General SQL

### General SQL Configuration Options

Name	Default	Changeable	Changelog
sql.safe_mode	"0"	PHP_INI_SYSTEM	

Here's a short explanation of the configuration directives.

*sql.safe\_mode* [boolean](#)

If turned on, database connect functions that specify default values will use those values in place of supplied arguments. For default values see connect function documentation for the relevant database.



# Extension Categorization

This appendix categorizes more than 150 extensions documented in the PHP Manual by several criteria.

## Membership

### Core Extensions

These are not actual extensions. They are part of the PHP core and cannot be left out of a PHP binary with compilation options.

- [Arrays](#)
- [Classes/Objects](#)
- [Date/Time](#)
- [Directories](#)
- [Error Handling](#)
- [Program execution](#)
- [Filesystem](#)
- [Function Handling](#)
- [i18n](#)
- [PHP Options/Info](#)
- [Mail](#)
- [Math](#)
- [Misc.](#)
- [Network](#)
- [Output Control](#)
- [POSIX Regex](#)
- [Sessions](#)
- [Streams](#)
- [Strings](#)
- [Tokenizer](#)
- [Unicode](#)
- [URLs](#)
- [Variable handling](#)

## Bundled Extensions

These extensions are bundled with PHP.

- [Apache](#)
- [BC Math](#)
- [Bzip2](#)
- [Calendar](#)
- [COM](#)
- [Ctype](#)
- [cURL](#)
- [DBA](#)
- [dBase](#)
- [DOM](#)
- [.NET](#)
- [Exif](#)
- [FrontBase](#)
- [FDF](#)
- [FTP](#)
- [Gettext](#)
- [GMP](#)
- [Hash](#)
- [Firebird/InterBase](#)
- [iconv](#)
- [Informix](#)
- [GD](#)
- [IMAP](#)
- [JSON](#)
- [LDAP](#)
- [libxml](#)
- [Multibyte String](#)
- [Mcrypt](#)
- [Mhash](#)
- [Mimetype](#)
- [Ming](#)

- mSQL
- Mssql
- MySQL
- Mysqli
- Ncurses
- NSAPI
- Object Aggregation
- OCI8
- OpenSSL
- PCNTL
- PCRE
- PDO
- MS SQL Server (PDO)
- Firebird/Interbase (PDO)
- MySQL (PDO)
- Oracle (PDO)
- ODBC and DB2 (PDO)
- PostgreSQL (PDO)
- SQLite (PDO)
- PostgreSQL
- POSIX
- Pspell
- Readline
- Recode
- Semaphore
- Shared Memory
- SimpleXML
- SNMP
- SOAP
- Sockets
- SPL
- SQLite
- SVN
- Sybase
- Tidy

- [ODBC](#)
- [WDDX](#)
- [XML Parser](#)
- [XMLReader](#)
- [XML-RPC](#)
- [XSL](#)
- [XSLT](#)
- [Zip](#)
- [Zlib](#)

## External Extensions

In order to compile these extensions, external libraries will be needed.

- [BBCode](#)
- [Bzip2](#)
- [Cracklib](#)
- [cURL](#)
- [dBase](#)
- [DB++](#)
- [dbx](#)
- [DOM](#)
- [DOM XML](#)
- [Enchant](#)
- [FAM](#)
- [FrontBase](#)
- [FDF](#)
- [Fileinfo](#)
- [FriBiDi](#)
- [GeoIP](#)
- [Gettext](#)
- [GMP](#)
- [haru](#)
- [Hyperwave](#)
- [Hyperwave API](#)

- [i18n](#)
- [Firebird/InterBase](#)
- [IBM DB2](#)
- [Informix](#)
- [ImageMagick](#)
- [IMAP](#)
- [Ingres II](#)
- [Java](#)
- [LDAP](#)
- [libxml](#)
- [MaxDB](#)
- [Mcrypt](#)
- [Memcache](#)
- [Mhash](#)
- [Ming](#)
- [mnoGoSearch](#)
- [Msession](#)
- [mSQL](#)
- [Mssql](#)
- [MySQL](#)
- [Mysqli](#)
- [Ncurses](#)
- [Newt](#)
- [OCI8](#)
- [oggvorbis](#)
- [OpenAL](#)
- [OpenSSL](#)
- [Ovrimos SQL](#)
- [Paradox](#)
- [PDF](#)
- [MS SQL Server \(PDO\)](#)
- [Firebird/Interbase \(PDO\)](#)
- [IBM \(PDO\)](#)
- [Informix \(PDO\)](#)
- [MySQL \(PDO\)](#)

- [Oracle \(PDO\)](#)
- [ODBC and DB2 \(PDO\)](#)
- [PostgreSQL \(PDO\)](#)
- [PostgreSQL](#)
- [PS](#)
- [Pspell](#)
- [qtdom](#)
- [Radius](#)
- [Rar](#)
- [Readline](#)
- [Recode](#)
- [Session PgSQL](#)
- [SimpleXML](#)
- [SNMP](#)
- [SOAP](#)
- [SSH2](#)
- [SWF](#)
- [Swish](#)
- [Sybase](#)
- [Tidy](#)
- [Unicode](#)
- [ODBC](#)
- [vpopmail](#)
- [WDDX](#)
- [xattr](#)
- [xdiff](#)
- [XML Parser](#)
- [XMLReader](#)
- [XSL](#)
- [XSLT](#)
- [YAZ](#)

## **PECL Extensions**

These extensions are available from [» PECL](#). More PECL extensions exist but they are not

documented in the PHP manual yet.

- [APC](#)
- [APD](#)
- [BBCode](#)
- [bcompiler](#)
- [Classkit](#)
- [Cracklib](#)
- [Cyrus](#)
- [DB++](#)
- [dbx](#)
- [Direct IO](#)
- [DOM XML](#)
- [Enchant](#)
- [Expect](#)
- [FAM](#)
- [Fileinfo](#)
- [filePro](#)
- [Filter](#)
- [FriBiDi](#)
- [GeolIP](#)
- [GnuPG](#)
- [haru](#)
- [Hash](#)
- [HTTP](#)
- [Hyperwave](#)
- [Hyperwave API](#)
- [IBM DB2](#)
- [ID3](#)
- [IIS](#)
- [ImageMagick](#)
- [Ingres II](#)
- [Java](#)
- [JSON](#)
- [KADM5](#)

- [LZF](#)
- [Mailparse](#)
- [MaxDB](#)
- [MCVE](#)
- [Memcache](#)
- [mnoGoSearch](#)
- [Msession](#)
- [Ncurses](#)
- [Gopher](#)
- [Newt](#)
- [YP/NIS](#)
- [Lotus Notes](#)
- [oggvorbis](#)
- [OpenAL](#)
- [Ovrimos SQL](#)
- [Paradox](#)
- [Parsekit](#)
- [PDF](#)
- [PDO](#)
- [MS SQL Server \(PDO\)](#)
- [Firebird/Interbase \(PDO\)](#)
- [IBM \(PDO\)](#)
- [Informix \(PDO\)](#)
- [MySQL \(PDO\)](#)
- [Oracle \(PDO\)](#)
- [ODBC and DB2 \(PDO\)](#)
- [PostgreSQL \(PDO\)](#)
- [SQLite \(PDO\)](#)
- [Phar](#)
- [Printer](#)
- [PS](#)
- [qtdom](#)
- [Radius](#)
- [Rar](#)
- [RPM Reader](#)



- [runkit](#)
- [SAM](#)
- [SCA](#)
- [SDO](#)
- [SDO DAS XML](#)
- [SDO-DAS-Relational](#)
- [Session PostgreSQL](#)
- [SSH2](#)
- [Statistics](#)
- [SVN](#)
- [SWF](#)
- [Swish](#)
- [TCP](#)
- [Tidy](#)
- [vpopmail](#)
- [W32api](#)
- [win32ps](#)
- [win32service](#)
- [xattr](#)
- [xdiff](#)
- [XMLReader](#)
- [XMLWriter](#)
- [YAZ](#)
- [Zip](#)

## State

This part lists extensions not intended for the production use - they are either too "old" (deprecated) or "new" (experimental).

## Deprecated Extensions

These extensions have been deprecated usually in the favor of some other extensions.

- [Mimetype](#)
- [Object overloading](#)

## Experimental Extensions

The behaviour of these extensions - including the names of their functions and anything else documented about these extensions - may change without notice in a future release of PHP. Use these extensions at your own risk.

- [bcompiler](#)
- [DB++](#)
- [.NET](#)
- [haru](#)
- [Hash](#)
- [ImageMagick](#)
- [Java](#)
- [Ming](#)
- [Ncurses](#)
- [Newt](#)
- [Lotus Notes](#)
- [Object Aggregation](#)
- [Paradox](#)
- [MS SQL Server \(PDO\)](#)
- [Firebird/Interbase \(PDO\)](#)
- [Oracle \(PDO\)](#)
- [PS](#)
- [qtdom](#)
- [SCA](#)
- [SDO-DAS-Relational](#)
- [Swish](#)
- [vpopmail](#)
- [W32api](#)
- [XML-RPC](#)

# List of Function Aliases

There are quite a few functions in PHP which you can call with more than one name. In some cases there is no preferred name among the multiple ones, [is\\_int\(\)](#) and [is\\_integer\(\)](#) are equally good for example. However there are functions which changed names because of an API cleanup or some other reason and the old names are only kept as aliases for backward compatibility. It is usually a bad idea to use these kind of aliases, as they may be bound to obsolescence or renaming, which will lead to unportable script. This list is provided to help those who want to upgrade their old scripts to newer syntax.

This list is consistent with PHP 4.0.6.

## Aliases

Alias	Master function	Extension used
—	<a href="#">gettext()</a>	<a href="#">Gettext</a>
add	<a href="#">swfmovie_add()</a>	<a href="#">Ming (flash)</a>
add	<a href="#">swfsprite_add()</a>	<a href="#">Ming (flash)</a>
add_root	<a href="#">domxml_add_root()</a>	<a href="#">DOM XML</a>
addaction	<a href="#">swfbutton_addAction()</a>	<a href="#">Ming (flash)</a>
addcolor	<a href="#">swfdisplayitem_addColor()</a>	<a href="#">Ming (flash)</a>
addentry	<a href="#">swfgradient_addEntry()</a>	<a href="#">Ming (flash)</a>
addfill	<a href="#">swfshape_addfill()</a>	<a href="#">Ming (flash)</a>
addshape	<a href="#">swfbutton_addShape()</a>	<a href="#">Ming (flash)</a>
addstring	<a href="#">swftext_addString()</a>	<a href="#">Ming (flash)</a>
addstring	<a href="#">swftextfield_addString()</a>	<a href="#">Ming (flash)</a>
align	<a href="#">swftextfield_align()</a>	<a href="#">Ming (flash)</a>
attributes	<a href="#">domxml_attributes()</a>	<a href="#">DOM XML</a>
children	<a href="#">domxml_children()</a>	<a href="#">DOM XML</a>
chop	<a href="#">rtrim()</a>	Base syntax
close	<a href="#">closedir()</a>	Base syntax

com_get	<a href="#">com_propget()</a>	COM
com_propset	<a href="#">com_propput()</a>	COM
com_set	<a href="#">com_propput()</a>	COM
die	<a href="#">exit()</a>	Miscellaneous functions
dir	<b>getdir()</b>	Base syntax
diskfreespace	<a href="#">disk_free_space()</a>	Filesystem
domxml_getattr	<b>domxml_get_attribute()</b>	DOM XML
domxml_setattr	<b>domxml_set_attribute()</b>	DOM XML
doubleval	<a href="#">floatval()</a>	Base syntax
drawarc	<b>swfshape_drawarc()</b>	Ming (flash)
drawcircle	<b>swfshape_drawcircle()</b>	Ming (flash)
drawcubic	<b>swfshape_drawcubic()</b>	Ming (flash)
drawcubicto	<b>swfshape_drawcubicto()</b>	Ming (flash)
drawcurve	<b>swfshape_drawcurve()</b>	Ming (flash)
drawcurveto	<b>swfshape_drawcurveto()</b>	Ming (flash)
drawglyph	<b>swfshape_drawglyph()</b>	Ming (flash)
drawline	<b>swfshape_drawline()</b>	Ming (flash)
drawlineto	<b>swfshape_drawlineto()</b>	Ming (flash)
dtd	<b>domxml_intdtd()</b>	DOM XML
dumpmem	<b>domxml_dumpmem()</b>	DOM XML
fbsql	<a href="#">fbsql_db_query()</a>	FrontBase
fputs	<a href="#">fwrite()</a>	Base syntax
get_attribute	<b>domxml_get_attribute()</b>	DOM XML
getascent	<b>swffont_getAscent()</b>	Ming (flash)
getascent	<b>swftext_getAscent()</b>	Ming (flash)
getattr	<b>domxml_get_attribute()</b>	DOM XML

getdescent	<b>swffont_getDescent()</b>	<a href="#">Ming (flash)</a>
getdescent	<b>swfttext_getDescent()</b>	<a href="#">Ming (flash)</a>
getheight	<b>swfbitmap_getHeight()</b>	<a href="#">Ming (flash)</a>
getleading	<b>swffont_getLeading()</b>	<a href="#">Ming (flash)</a>
getleading	<b>swfttext_getLeading()</b>	<a href="#">Ming (flash)</a>
getshape1	<b>swfmorph_getShape1()</b>	<a href="#">Ming (flash)</a>
getshape2	<b>swfmorph_getShape2()</b>	<a href="#">Ming (flash)</a>
getwidth	<b>swfbitmap_getWidth()</b>	<a href="#">Ming (flash)</a>
getwidth	<b>swffont_getWidth()</b>	<a href="#">Ming (flash)</a>
getwidth	<b>swfttext_getWidth()</b>	<a href="#">Ming (flash)</a>
gzputs	<a href="#">gzwrite()</a>	<a href="#">Zlib</a>
i18n_convert	<a href="#">mb_convert_encoding()</a>	<a href="#">Multi-bytes Strings</a>
i18n_discover_encoding	<a href="#">mb_detect_encoding()</a>	<a href="#">Multi-bytes Strings</a>
i18n_http_input	<a href="#">mb_http_input()</a>	<a href="#">Multi-bytes Strings</a>
i18n_http_output	<a href="#">mb_http_output()</a>	<a href="#">Multi-bytes Strings</a>
i18n_internal_encoding	<a href="#">mb_internal_encoding()</a>	<a href="#">Multi-bytes Strings</a>
i18n_ja_jp_hantozen	<a href="#">mb_convert_kana()</a>	<a href="#">Multi-bytes Strings</a>
i18n_mime_header_decode	<a href="#">mb_decode_mimeheader()</a>	<a href="#">Multi-bytes Strings</a>
i18n_mime_header_encode	<a href="#">mb_encode_mimeheader()</a>	<a href="#">Multi-bytes Strings</a>
imap_create	<a href="#">imap_createmailbox()</a>	<a href="#">IMAP</a>
imap_fetchtext	<a href="#">imap_body()</a>	<a href="#">IMAP</a>
imap_getmailboxes	<b>imap_list_full()</b>	<a href="#">IMAP</a>
imap_getsubscribed	<b>imap_lsub_full()</b>	<a href="#">IMAP</a>
imap_header	<a href="#">imap_headerinfo()</a>	<a href="#">IMAP</a>
imap_listmailbox	<a href="#">imap_list()</a>	<a href="#">IMAP</a>
imap_listsubscribed	<a href="#">imap_lsub()</a>	<a href="#">IMAP</a>

imap_rename	<a href="#">imap_renamemailbox()</a>	IMAP
imap_scan	<a href="#">imap_listscan()</a>	IMAP
imap_scanmailbox	<a href="#">imap_listscan()</a>	IMAP
ini_alter	<a href="#">ini_set()</a>	Base syntax
is_double	<a href="#">is_float()</a>	Base syntax
is_integer	<a href="#">is_int()</a>	Base syntax
is_long	<a href="#">is_int()</a>	Base syntax
is_real	<a href="#">is_float()</a>	Base syntax
is_writeable	<a href="#">is_writable()</a>	Base syntax
join	<a href="#">implode()</a>	Base syntax
labelframe	<b>swfmovie_labelFrame()</b>	<a href="#">Ming (flash)</a>
labelframe	<b>swfsprite_labelFrame()</b>	<a href="#">Ming (flash)</a>
last_child	<b>domxml_last_child()</b>	<a href="#">DOM XML</a>
lastchild	<b>domxml_last_child()</b>	<a href="#">DOM XML</a>
ldap_close	<a href="#">ldap_unbind()</a>	LDAP
magic_quotes_runtime	<a href="#">set_magic_quotes_runtime()</a>	Base syntax
mbstrcut	<a href="#">mb_strcut()</a>	<a href="#">Multi-bytes Strings</a>
mbstrlen	<a href="#">mb_strlen()</a>	<a href="#">Multi-bytes Strings</a>
mbstrpos	<a href="#">mb_strpos()</a>	<a href="#">Multi-bytes Strings</a>
mbstrrpos	<a href="#">mb_strrpos()</a>	<a href="#">Multi-bytes Strings</a>
mbsubstr	<a href="#">mb_substr()</a>	<a href="#">Multi-bytes Strings</a>
ming_setcubicthreshold	<a href="#">ming setCubicThreshold()</a>	<a href="#">Ming (flash)</a>
ming_setscale	<a href="#">ming_setScale()</a>	<a href="#">Ming (flash)</a>
move	<b>swfdisplayitem_move()</b>	<a href="#">Ming (flash)</a>
movepen	<b>swfshape_movepen()</b>	<a href="#">Ming (flash)</a>
movepento	<b>swfshape_movepento()</b>	<a href="#">Ming (flash)</a>

moveto	<b>swfdisplayitem_moveTo()</b>	<a href="#">Ming (flash)</a>
moveto	<b>swffill_moveTo()</b>	<a href="#">Ming (flash)</a>
moveto	<b>swftext_moveTo()</b>	<a href="#">Ming (flash)</a>
mysql	<a href="#">mysql_db_query()</a>	mSQL
mysql_createdb	<a href="#">mysql_create_db()</a>	mSQL
mysql_dbname	<a href="#">mysql_result()</a>	mSQL
mysql_dropdb	<a href="#">mysql_drop_db()</a>	mSQL
mysql_fieldflags	<a href="#">mysql_field_flags()</a>	mSQL
mysql_fieldlen	<a href="#">mysql_field_len()</a>	mSQL
mysql_fieldname	<a href="#">mysql_field_name()</a>	mSQL
mysql_fieldtable	<a href="#">mysql_field_table()</a>	mSQL
mysql_fieldtype	<a href="#">mysql_field_type()</a>	mSQL
mysql_freeresult	<a href="#">mysql_free_result()</a>	mSQL
mysql_listdbs	<a href="#">mysql_list_dbs()</a>	mSQL
mysql_listfields	<a href="#">mysql_list_fields()</a>	mSQL
mysql_listtables	<a href="#">mysql_list_tables()</a>	mSQL
mysql_numfields	<a href="#">mysql_num_fields()</a>	mSQL
mysql_numrows	<a href="#">mysql_num_rows()</a>	mSQL
mysql_regcase	<a href="#">sql_regcase()</a>	mSQL
mysql_selectdb	<a href="#">mysql_select_db()</a>	mSQL
mysql_tablename	<a href="#">mysql_result()</a>	mSQL
mssql_affected_rows	<a href="#">sybase_affected_rows()</a>	Sybase
mssql_affected_rows	<a href="#">sybase_affected_rows()</a>	Sybase
mssql_close	<a href="#">sybase_close()</a>	Sybase
mssql_close	<a href="#">sybase_close()</a>	Sybase
mssql_connect	<a href="#">sybase_connect()</a>	Sybase

mssql_connect	<a href="#">sybase_connect()</a>	Sybase
mssql_data_seek	<a href="#">sybase_data_seek()</a>	Sybase
mssql_data_seek	<a href="#">sybase_data_seek()</a>	Sybase
mssql_fetch_array	<a href="#">sybase_fetch_array()</a>	Sybase
mssql_fetch_array	<a href="#">sybase_fetch_array()</a>	Sybase
mssql_fetch_field	<a href="#">sybase_fetch_field()</a>	Sybase
mssql_fetch_field	<a href="#">sybase_fetch_field()</a>	Sybase
mssql_fetch_object	<a href="#">sybase_fetch_object()</a>	Sybase
mssql_fetch_object	<a href="#">sybase_fetch_object()</a>	Sybase
mssql_fetch_row	<a href="#">sybase_fetch_row()</a>	Sybase
mssql_fetch_row	<a href="#">sybase_fetch_row()</a>	Sybase
mssql_field_seek	<a href="#">sybase_field_seek()</a>	Sybase
mssql_field_seek	<a href="#">sybase_field_seek()</a>	Sybase
mssql_free_result	<a href="#">sybase_free_result()</a>	Sybase
mssql_free_result	<a href="#">sybase_free_result()</a>	Sybase
mssql_get_last_message	<a href="#">sybase_get_last_message()</a>	Sybase
mssql_get_last_message	<a href="#">sybase_get_last_message()</a>	Sybase
mssql_min_client_severity	<a href="#">sybase_min_client_severity()</a>	Sybase
mssql_min_error_severity	<a href="#">sybase_min_error_severity()</a>	Sybase
mssql_min_message_severity	<a href="#">sybase_min_message_severity()</a>	Sybase
mssql_min_server_severity	<a href="#">sybase_min_server_severity()</a>	Sybase
mssql_num_fields	<a href="#">sybase_num_fields()</a>	Sybase
mssql_num_fields	<a href="#">sybase_num_fields()</a>	Sybase
mssql_num_rows	<a href="#">sybase_num_rows()</a>	Sybase
mssql_num_rows	<a href="#">sybase_num_rows()</a>	Sybase



mssql_pconnect	<a href="#">sybase_pconnect()</a>	<a href="#">Sybase</a>
mssql_pconnect	<a href="#">sybase_pconnect()</a>	<a href="#">Sybase</a>
mssql_query	<a href="#">sybase_query()</a>	<a href="#">Sybase</a>
mssql_query	<a href="#">sybase_query()</a>	<a href="#">Sybase</a>
mssql_result	<a href="#">sybase_result()</a>	<a href="#">Sybase</a>
mssql_result	<a href="#">sybase_result()</a>	<a href="#">Sybase</a>
mssql_select_db	<a href="#">sybase_select_db()</a>	<a href="#">Sybase</a>
mssql_select_db	<a href="#">sybase_select_db()</a>	<a href="#">Sybase</a>
multicolor	<b>swfdisplayitem_multColor()</b>	<a href="#">Ming (flash)</a>
mysql	<a href="#">mysql_db_query()</a>	<a href="#">MySQL</a>
mysql_createdb	<a href="#">mysql_create_db()</a>	<a href="#">MySQL</a>
mysql_db_name	<a href="#">mysql_result()</a>	<a href="#">MySQL</a>
mysql_dbname	<a href="#">mysql_result()</a>	<a href="#">MySQL</a>
mysql_dropdb	<a href="#">mysql_drop_db()</a>	<a href="#">MySQL</a>
mysql_fieldflags	<a href="#">mysql_field_flags()</a>	<a href="#">MySQL</a>
mysql_fieldlen	<a href="#">mysql_field_len()</a>	<a href="#">MySQL</a>
mysql_fieldname	<a href="#">mysql_field_name()</a>	<a href="#">MySQL</a>
mysql_fieldtable	<a href="#">mysql_field_table()</a>	<a href="#">MySQL</a>
mysql_fieldtype	<a href="#">mysql_field_type()</a>	<a href="#">MySQL</a>
mysql_freeresult	<a href="#">mysql_free_result()</a>	<a href="#">MySQL</a>
mysql_listdbs	<a href="#">mysql_list_dbs()</a>	<a href="#">MySQL</a>
mysql_listfields	<a href="#">mysql_list_fields()</a>	<a href="#">MySQL</a>
mysql_listtables	<a href="#">mysql_list_tables()</a>	<a href="#">MySQL</a>
mysql_numfields	<a href="#">mysql_num_fields()</a>	<a href="#">MySQL</a>
mysql_numrows	<a href="#">mysql_num_rows()</a>	<a href="#">MySQL</a>
mysql_selectdb	<a href="#">mysql_select_db()</a>	<a href="#">MySQL</a>

mysql_tablename	<a href="#">mysql_result()</a>	MySQL
name	<b>domxml_attrname()</b>	DOM XML
new_child	<b>domxml_new_child()</b>	DOM XML
new_xmldoc	<b>domxml_new_xmldoc()</b>	DOM XML
nextframe	<b>swfmovie_nextFrame()</b>	Ming (flash)
nextframe	<b>swfsprite_nextFrame()</b>	Ming (flash)
node	<b>domxml_node()</b>	DOM XML
oci8append	<a href="#">ocicollappend()</a>	OCI8
oci8assign	<a href="#">ocicollassign()</a>	OCI8
oci8assignelem	<a href="#">ocicollassignelem()</a>	OCI8
oci8close	<a href="#">ocicloselob()</a>	OCI8
oci8free	<b>ocifreecoll()</b>	OCI8
oci8free	<a href="#">ocifreedesc()</a>	OCI8
oci8getelem	<a href="#">ocicollgetelem()</a>	OCI8
oci8load	<a href="#">ociloadlob()</a>	OCI8
oci8max	<a href="#">ocicollmax()</a>	OCI8
oci8ocifreecursor	<a href="#">ocifreestatement()</a>	OCI8
oci8save	<a href="#">ocisavelob()</a>	OCI8
oci8savefile	<a href="#">ocisavelobfile()</a>	OCI8
oci8size	<a href="#">ocicollsize()</a>	OCI8
oci8trim	<a href="#">ocicolltrim()</a>	OCI8
oci8writetemporary	<a href="#">ociwritetemporarylob()</a>	OCI8
oci8writetofile	<a href="#">ociwritelobtofile()</a>	OCI8
odbc_do	<a href="#">odbc_exec()</a>	ODBC
odbc_field_precision	<a href="#">odbc_field_len()</a>	ODBC
output	<b>swfmovie_output()</b>	Ming (flash)

parent	<b>domxml_parent()</b>	DOM XML
pdf_add_outline	<a href="#">pdf_add_bookmark()</a>	PDF
pg_clientencoding	<a href="#">pg_client_encoding()</a>	PostgreSQL
pg_setclientencoding	<a href="#">pg_set_client_encoding()</a>	PostgreSQL
pos	<a href="#">current()</a>	Base syntax
recode	<a href="#">recode_string()</a>	Recode
remove	<b>swfmovie_remove()</b>	<a href="#">Ming (flash)</a>
remove	<b>swfsprite_remove()</b>	<a href="#">Ming (flash)</a>
rewind	<a href="#">rewinddir()</a>	Base syntax
root	<b>domxml_root()</b>	DOM XML
rotate	<b>swfdisplayitem_rotate()</b>	<a href="#">Ming (flash)</a>
rotateto	<b>swfdisplayitem_rotateTo()</b>	<a href="#">Ming (flash)</a>
rotateto	<b>swffill_rotateTo()</b>	<a href="#">Ming (flash)</a>
save	<b>swfmovie_save()</b>	<a href="#">Ming (flash)</a>
savetofile	<b>swfmovie_saveToFile()</b>	<a href="#">Ming (flash)</a>
scale	<b>swfdisplayitem_scale()</b>	<a href="#">Ming (flash)</a>
scalet	<b>swfdisplayitem_scaleTo()</b>	<a href="#">Ming (flash)</a>
scalet	<b>swffill_scaleTo()</b>	<a href="#">Ming (flash)</a>
set_attribute	<b>domxml_set_attribute()</b>	DOM XML
set_content	<b>domxml_set_content()</b>	DOM XML
setaction	<b>swfbutton_setAction()</b>	<a href="#">Ming (flash)</a>
setattr	<b>domxml_set_attribute()</b>	DOM XML
setbackground	<b>swfmovie_setBackground( )</b>	<a href="#">Ming (flash)</a>
setbounds	<b>swftextfield_setBounds()</b>	<a href="#">Ming (flash)</a>
setcolor	<b>swftext_setColor()</b>	<a href="#">Ming (flash)</a>
setcolor	<b>swftextfield_setColor()</b>	<a href="#">Ming (flash)</a>

setdepth	<b>swfdisplayitem_setDepth()</b>	<a href="#">Ming (flash)</a>
setdimension	<b>swfmovie_setDimension()</b>	<a href="#">Ming (flash)</a>
setdown	<b>swfbutton_setDown()</b>	<a href="#">Ming (flash)</a>
setfont	<b>swftext_setFont()</b>	<a href="#">Ming (flash)</a>
setfont	<b>swftextfield_setFont()</b>	<a href="#">Ming (flash)</a>
setframes	<b>swfmovie_setFrames()</b>	<a href="#">Ming (flash)</a>
setframes	<b>swfsprite_setFrames()</b>	<a href="#">Ming (flash)</a>
setheight	<b>swftext_setHeight()</b>	<a href="#">Ming (flash)</a>
setheight	<b>swftextfield_setHeight()</b>	<a href="#">Ming (flash)</a>
sethit	<b>swfbutton_setHit()</b>	<a href="#">Ming (flash)</a>
setindentation	<b>swftextfield_setIndentation()</b>	<a href="#">Ming (flash)</a>
setleftfill	<b>swfshape_setleftfill()</b>	<a href="#">Ming (flash)</a>
setleftmargin	<b>swftextfield_setLeftMargin()</b>	<a href="#">Ming (flash)</a>
setline	<b>swfshape_setline()</b>	<a href="#">Ming (flash)</a>
setlinespacing	<b>swftextfield_setLineSpacing()</b>	<a href="#">Ming (flash)</a>
setmargins	<b>swftextfield_setMargins()</b>	<a href="#">Ming (flash)</a>
setmatrix	<b>swfdisplayitem_setMatrix()</b>	<a href="#">Ming (flash)</a>
setname	<b>swfdisplayitem_setName()</b>	<a href="#">Ming (flash)</a>
setname	<b>swftextfield_setName()</b>	<a href="#">Ming (flash)</a>
setover	<b>swfbutton_setOver()</b>	<a href="#">Ming (flash)</a>
setrate	<b>swfmovie_setRate()</b>	<a href="#">Ming (flash)</a>
setratio	<b>swfdisplayitem_setRatio()</b>	<a href="#">Ming (flash)</a>
setrightfill	<b>swfshape_setrightfill()</b>	<a href="#">Ming (flash)</a>
setrightmargin	<b>swftextfield_setRightMargin()</b>	<a href="#">Ming (flash)</a>

setspacing	<b>swftext_setSpacing()</b>	<a href="#">Ming (flash)</a>
setup	<b>swfbutton_setUp()</b>	<a href="#">Ming (flash)</a>
show_source	<a href="#">highlight_file()</a>	Base syntax
sizeof	<a href="#">count()</a>	Base syntax
skewx	<b>swfdisplayitem_skewX()</b>	<a href="#">Ming (flash)</a>
skewxto	<b>swfdisplayitem_skewXTo()</b>	<a href="#">Ming (flash)</a>
skewxto	<b>swffill_skewXTo()</b>	<a href="#">Ming (flash)</a>
skewy	<b>swfdisplayitem_skewY()</b>	<a href="#">Ming (flash)</a>
skewyto	<b>swfdisplayitem_skewYTo()</b>	<a href="#">Ming (flash)</a>
skewyto	<b>swffill_skewYTo()</b>	<a href="#">Ming (flash)</a>
snmpwalkoid	<a href="#">snmprealwalk()</a>	SNMP
strchr	<a href="#">strstr()</a>	Base syntax
streammp3	<b>swfmovie_streamMp3()</b>	<a href="#">Ming (flash)</a>
swfaction	<b>swfaction_init()</b>	<a href="#">Ming (flash)</a>
swfbitmap	<b>swfbitmap_init()</b>	<a href="#">Ming (flash)</a>
swfbutton	<b>swfbutton_init()</b>	<a href="#">Ming (flash)</a>
swffill	<b>swffill_init()</b>	<a href="#">Ming (flash)</a>
swffont	<b>swffont_init()</b>	<a href="#">Ming (flash)</a>
swfgradient	<b>swfgradient_init()</b>	<a href="#">Ming (flash)</a>
swfmorph	<b>swfmorph_init()</b>	<a href="#">Ming (flash)</a>
swfmovie	<b>swfmovie_init()</b>	<a href="#">Ming (flash)</a>
swfshape	<b>swfshape_init()</b>	<a href="#">Ming (flash)</a>
swfsprite	<b>swfsprite_init()</b>	<a href="#">Ming (flash)</a>
swftext	<b>swftext_init()</b>	<a href="#">Ming (flash)</a>
swftextfield	<b>swftextfield_init()</b>	<a href="#">Ming (flash)</a>
unlink	<b>domxml_unlink_node()</b>	<a href="#">DOM XML</a>

xptr_new_context	xpath_new_context()	DOM XML
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# List of Reserved Words

The following is a listing of predefined identifiers in PHP. None of the identifiers listed here should be used as identifiers in any of your scripts. These lists include keywords and predefined variable, constant, and class names. These lists are neither exhaustive or complete.

## List of Keywords

These words have special meaning in PHP. Some of them represent things which look like functions, some look like constants, and so on--but they're not, really: they are language constructs. You cannot use any of the following words as constants, class names, function or method names. Using them as variable names is generally OK, but could lead to confusion.

### PHP Keywords

<a href="#">and</a>	<a href="#">or</a>	<a href="#">xor</a>	<a href="#">__FILE__</a>	<a href="#">exception</a> (PHP 5)
<a href="#">__LINE__</a>	<a href="#">array()</a>	<a href="#">as</a>	<a href="#">break</a>	<a href="#">case</a>
<a href="#">class</a>	<a href="#">const</a>	<a href="#">continue</a>	<a href="#">declare</a>	<a href="#">default</a>
<a href="#">die()</a>	<a href="#">do</a>	<a href="#">echo()</a>	<a href="#">else</a>	<a href="#">elseif</a>
<a href="#">empty()</a>	<a href="#">enddeclare</a>	<a href="#">endfor</a>	<a href="#">endforeach</a>	<a href="#">endif</a>
<a href="#">endswitch</a>	<a href="#">endwhile</a>	<a href="#">eval()</a>	<a href="#">exit()</a>	<a href="#">extends</a>
<a href="#">for</a>	<a href="#">foreach</a>	<a href="#">function</a>	<a href="#">global</a>	<a href="#">if</a>
<a href="#">include()</a>	<a href="#">include_once()</a>	<a href="#">isset()</a>	<a href="#">list()</a>	<a href="#">new</a>
<a href="#">print()</a>	<a href="#">require()</a>	<a href="#">require_once()</a>	<a href="#">return()</a>	<a href="#">static</a>
<a href="#">switch</a>	<a href="#">unset()</a>	<a href="#">use</a>	<a href="#">var</a>	<a href="#">while</a>
<a href="#">__FUNCTION__</a>	<a href="#">__CLASS__</a>	<a href="#">__METHOD__</a>	<a href="#">final</a> (as of PHP 5)	<a href="#">php_user_filter</a> (as of PHP 5)
<a href="#">interface</a> (as of PHP 5)	<a href="#">implements</a> (as of PHP 5)	<a href="#">instanceof</a> (as of PHP 5)	<a href="#">public</a> (as of PHP 5)	<a href="#">private</a> (as of PHP 5)
<a href="#">protected</a> (as of PHP 5)	<a href="#">abstract</a> (as of PHP 5)	<a href="#">clone</a> (as of PHP 5)	<a href="#">try</a> (as of PHP 5)	<a href="#">catch</a> (as of PHP 5)

<a href="#">throw</a> (as of PHP 5)	<a href="#">cfunction</a> (PHP 4 only)	<a href="#">old_function</a> (PHP 4 only)	<a href="#">this</a> (as of PHP 5)	<a href="#">final</a> (as of PHP 5)
<a href="#">__NAMESPACE__</a> (as of PHP 5.3)	<a href="#">namespace</a> (as of PHP 5.3)	<a href="#">goto</a> (PHP 6 only)	<a href="#">__DIR__</a> (as of PHP 5.3)	

## Predefined Classes

This section lists standard predefined classes. Miscellaneous extensions define other classes which are described in their reference.

### Standard Defined Classes

These classes are defined in the standard set of functions included in the PHP build.

Directory

The class from which [dir](#) is instantiated.

stdClass

[\\_\\_PHP\\_Incomplete\\_Class](#)

### Predefined classes as of PHP 5

These additional predefined classes were introduced in PHP 5.0.0

exception

[php\\_user\\_filter](#)

## Predefined Constants

### Core Predefined Constants

These constants are defined by the PHP core. This includes PHP, the Zend engine, and SAPI modules.

**PHP\_VERSION** ( [string](#) )



**PHP\_MAJOR\_VERSION** ( [integer](#) )

Available since PHP 5.3.0.

**PHP\_MINOR\_VERSION** ( [integer](#) )

Available since PHP 5.3.0.

**PHP\_RELEASE\_VERSION** ( [integer](#) )

Available since PHP 5.3.0.

**PHP\_VERSION\_ID** ( [integer](#) )

Available since PHP 5.3.0.

**PHP\_EXTRA\_VERSION** ( [string](#) )

Available since PHP 5.3.0.

**PHP\_ZTS** ( [integer](#) )

Available since PHP 5.3.0.

**PHP\_DEBUG** ( [integer](#) )

Available since PHP 5.3.0.

**PHP\_OS** ( [string](#) )

**PHP\_SAPI** ( [string](#) )

Available since PHP 4.2.0. See also [php\\_sapi\\_name\(\)](#).

**PHP\_EOL** ( [string](#) )

Available since PHP 4.3.10 and PHP 5.0.2

**PHP\_INT\_MAX** ( [integer](#) )

Available since PHP 4.4.0 and PHP 5.0.5

**PHP\_INT\_SIZE** ( [integer](#) )

Available since PHP 4.4.0 and PHP 5.0.5

**DEFAULT\_INCLUDE\_PATH** ( [string](#) )

**PEAR\_INSTALL\_DIR** ( [string](#) )

**PEAR\_EXTENSION\_DIR** ( [string](#) )

**PHP\_EXTENSION\_DIR** ( [string](#) )

**PHP\_PREFIX** ( [string](#) )

Available since PHP 4.3.0

**PHP\_BINDIR** ( [string](#) )

**PHP\_LIBDIR** ( [string](#) )

**PHP\_DATADIR** ( [string](#) )

**PHP\_SYSCONFDIR** ( [string](#) )

**PHP\_LOCALSTATEDIR** ( [string](#) )

**PHP\_CONFIG\_FILE\_PATH** ( [string](#) )

**PHP\_CONFIG\_FILE\_SCAN\_DIR** ( [string](#) )

**PHP\_SHLIB\_SUFFIX** ( [string](#) )

Available since PHP 4.3.0

**PHP\_OUTPUT\_HANDLER\_START** ( [integer](#) )

**PHP\_OUTPUT\_HANDLER\_CONT** ( [integer](#) )

**PHP\_OUTPUT\_HANDLER\_END** ( [integer](#) )

**E\_ERROR** ( [integer](#) )

**E\_WARNING** ( [integer](#) )

**E\_PARSE** ( [integer](#) )

**E\_NOTICE** ( [integer](#) )

**E\_CORE\_ERROR** ( [integer](#) )

**E\_CORE\_WARNING** ( [integer](#) )

**E\_COMPILE\_ERROR** ( [integer](#) )

**E\_COMPILE\_WARNING** ( [integer](#) )

**E\_USER\_ERROR** ( [integer](#) )

**E\_USER\_WARNING** ( [integer](#) )

**E\_USER\_NOTICE** ( [integer](#) )

**E\_ALL** ( [integer](#) )

**E\_STRICT** ( [integer](#) )

Available since PHP 5.0.0

**\_\_COMPILER\_HALT\_OFFSET\_\_** ( [integer](#) )

Available since PHP 5.1.0

See also: [Magic constants](#).

## Standard Predefined Constants

These constants are defined in PHP by default.

**EXTR\_OVERWRITE** ( [integer](#) )

**EXTR\_SKIP** ( [integer](#) )

**EXTR\_PREFIX\_SAME** ( [integer](#) )

**EXTR\_PREFIX\_ALL** ( [integer](#) )

**EXTR\_PREFIX\_INVALID** ( [integer](#) )

**EXTR\_PREFIX\_IF\_EXISTS** ( [integer](#) )

**EXTR\_IF\_EXISTS** ( [integer](#) )

**SORT\_ASC** ( [integer](#) )

**SORT\_DESC** ( [integer](#) )

**SORT\_REGULAR** ( [integer](#) )

**SORT\_NUMERIC** ( [integer](#) )

**SORT\_STRING** ( [integer](#) )

**CASE\_LOWER** ( [integer](#) )

**CASE\_UPPER** ( [integer](#) )

**COUNT\_NORMAL** ( [integer](#) )

**COUNT\_RECURSIVE** ( [integer](#) )

**ASSERT\_ACTIVE** ( [integer](#) )

**ASSERT\_CALLBACK** ( [integer](#) )

**ASSERT\_BAIL** ( [integer](#) )

**ASSERT\_WARNING** ( [integer](#) )

**ASSERT\_QUIET\_EVAL** ( [integer](#) )

**CONNECTION\_ABORTED** ( [integer](#) )

**CONNECTION\_NORMAL** ( [integer](#) )

**CONNECTION\_TIMEOUT** ( [integer](#) )

**INI\_USER** ( [integer](#) )

**INI\_PERDIR** ( [integer](#) )

**INI\_SYSTEM** ( [integer](#) )

**INI\_ALL** ( [integer](#) )

**M\_E** ( [float](#) )

**M\_LOG2E** ( [float](#) )

**M\_LOG10E** ( [float](#) )

**M\_LN2** ( [float](#) )

**M\_LN10** ( [float](#) )

**M\_PI** ( [float](#) )

**M\_PI\_2** ( [float](#) )

**M\_PI\_4** ( [float](#) )

**M\_1\_PI** ( [float](#) )

**M\_2\_PI** ( [float](#) )

**M\_2\_SQRTPI** ( [float](#) )

**M\_SQRT2** ( [float](#) )

**M\_SQRT1\_2** ( [float](#) )

**CRYPT\_SALT\_LENGTH** ( [integer](#) )

**CRYPT\_STD\_DES** ( [integer](#) )

**CRYPT\_EXT\_DES** ( [integer](#) )

**CRYPT\_MD5** ( [integer](#) )

**CRYPT\_BLOWFISH** ( [integer](#) )

**DIRECTORY\_SEPARATOR** ( [string](#) )

**SEEK\_SET** ( [integer](#) )

**SEEK\_CUR** ( [integer](#) )

**SEEK\_END** ( [integer](#) )

**LOCK\_SH** ( [integer](#) )

**LOCK\_EX** ( [integer](#) )

**LOCK\_UN** ( [integer](#) )

**LOCK\_NB** ( [integer](#) )

**HTML\_SPECIALCHARS** ( [integer](#) )

**HTML\_ENTITIES** ( [integer](#) )

**ENT\_COMPAT** ( [integer](#) )

**ENT\_QUOTES** ( [integer](#) )

**ENT\_NOQUOTES** ( [integer](#) )

**INFO\_GENERAL** ( [integer](#) )

**INFO\_CREDITS** ( [integer](#) )

**INFO\_CONFIGURATION** ( [integer](#) )

**INFO\_MODULES** ( [integer](#) )

**INFO\_ENVIRONMENT** ( [integer](#) )

**INFO\_VARIABLES** ( [integer](#) )

**INFO\_LICENSE** ( [integer](#) )

**INFO\_ALL** ( [integer](#) )

**CREDITS\_GROUP** ( [integer](#) )

**CREDITS\_GENERAL** ( [integer](#) )

**CREDITS\_SAPI** ( [integer](#) )

**CREDITS\_MODULES** ( [integer](#) )

**CREDITS\_DOCS** ( [integer](#) )

**CREDITS\_FULLPAGE** ( [integer](#) )

**CREDITS\_QA** ( [integer](#) )

**CREDITS\_ALL** ( [integer](#) )

**STR\_PAD\_LEFT** ( [integer](#) )

**STR\_PAD\_RIGHT** ( [integer](#) )

**STR\_PAD\_BOTH** ( [integer](#) )

**PATHINFO\_DIRNAME** ( [integer](#) )

**PATHINFO\_BASENAME** ( [integer](#) )

**PATHINFO\_EXTENSION** ( [integer](#) )

**PATH\_SEPARATOR** ( [string](#) )

**CHAR\_MAX** ( [integer](#) )

**LC\_CTYPE** ( [integer](#) )

**LC\_NUMERIC** ( [integer](#) )

**LC\_TIME** ( [integer](#) )

**LC\_COLLATE** ( [integer](#) )

**LC\_MONETARY** ( [integer](#) )

**LC\_ALL** ( [integer](#) )

**LC\_MESSAGES** ( [integer](#) )

**ABDAY\_1** ( [integer](#) )

**ABDAY\_2** ( [integer](#) )

**ABDAY\_3** ( [integer](#) )

**ABDAY\_4** ( [integer](#) )

**ABDAY\_5** ( [integer](#) )

**ABDAY\_6** ( [integer](#) )

**ABDAY\_7** ( [integer](#) )

**DAY\_1** ( [integer](#) )

**DAY\_2** ( [integer](#) )



**DAY\_3** ( [integer](#) )

**DAY\_4** ( [integer](#) )

**DAY\_5** ( [integer](#) )

**DAY\_6** ( [integer](#) )

**DAY\_7** ( [integer](#) )

**ABMON\_1** ( [integer](#) )

**ABMON\_2** ( [integer](#) )

**ABMON\_3** ( [integer](#) )

**ABMON\_4** ( [integer](#) )

**ABMON\_5** ( [integer](#) )

**ABMON\_6** ( [integer](#) )

**ABMON\_7** ( [integer](#) )

**ABMON\_8** ( [integer](#) )

**ABMON\_9** ( [integer](#) )

**ABMON\_10** ( [integer](#) )

**ABMON\_11** ( [integer](#) )

**ABMON\_12** ( [integer](#) )

**MON\_1** ( [integer](#) )

**MON\_2** ( [integer](#) )

**MON\_3** ( [integer](#) )

**MON\_4** ( [integer](#) )

**MON\_5** ( [integer](#) )

**MON\_6** ( [integer](#) )

**MON\_7** ( [integer](#) )

**MON\_8** ( [integer](#) )

**MON\_9** ( [integer](#) )

**MON\_10** ( [integer](#) )

**MON\_11** ( [integer](#) )

**MON\_12** ( [integer](#) )

**AM\_STR** ( [integer](#) )

**PM\_STR** ( [integer](#) )

**D\_T\_FMT** ( [integer](#) )

**D\_FMT** ( [integer](#) )

**T\_FMT** ( [integer](#) )

**T\_FMT\_AMP** ( [integer](#) )

**ERA** ( [integer](#) )

**ERA\_YEAR** ( [integer](#) )

**ERA\_D\_T\_FMT** ( [integer](#) )

**ERA\_D\_FMT** ( [integer](#) )

**ERA\_T\_FMT** ( [integer](#) )

**ALT\_DIGITS** ( [integer](#) )

**INT\_CURR\_SYMBOL** ( [integer](#) )

**CURRENCY\_SYMBOL** ( [integer](#) )

**CRNCYSTR** ( [integer](#) )

**MON\_DECIMAL\_POINT** ( [integer](#) )

**MON\_THOUSANDS\_SEP** ( [integer](#) )

**MON\_GROUPING** ( [integer](#) )

**POSITIVE\_SIGN** ( [integer](#) )

**NEGATIVE\_SIGN** ( [integer](#) )

**INT\_FRAC\_DIGITS** ( [integer](#) )

**FRAC\_DIGITS** ( [integer](#) )

**P\_CS\_PRECEDES** ( [integer](#) )

**P\_SEP\_BY\_SPACE** ( [integer](#) )

**N\_CS\_PRECEDES** ( [integer](#) )

**N\_SEP\_BY\_SPACE** ( [integer](#) )

**P\_SIGN\_POSN** ( [integer](#) )

**N\_SIGN\_POSN** ( [integer](#) )

**DECIMAL\_POINT** ( [integer](#) )

**RADIXCHAR** ( [integer](#) )

**THOUSANDS\_SEP** ( [integer](#) )

**THOUSEP** ( [integer](#) )

**GROUPING** ( [integer](#) )

**YESEXPR** ( [integer](#) )

**NOEXPR** ( [integer](#) )

**YESSTR** ( [integer](#) )

**NOSTR** ( [integer](#) )

**CODESET** ( [integer](#) )

**LOG\_EMERG** ( [integer](#) )

**LOG\_ALERT** ( [integer](#) )

**LOG\_CRIT** ( [integer](#) )

**LOG\_ERR** ( [integer](#) )

**LOG\_WARNING** ( [integer](#) )

**LOG\_NOTICE** ( [integer](#) )

**LOG\_INFO** ( [integer](#) )

**LOG\_DEBUG** ( [integer](#) )

**LOG\_KERN** ( [integer](#) )

**LOG\_USER** ( [integer](#) )

**LOG\_MAIL** ( [integer](#) )

**LOG\_DAEMON** ( [integer](#) )

**LOG\_AUTH** ( [integer](#) )

**LOG\_SYSLOG** ( [integer](#) )

**LOG\_LPR** ( [integer](#) )

**LOG\_NEWS** ( [integer](#) )

**LOG\_UUCP** ( [integer](#) )

**LOG\_CRON** ( [integer](#) )

**LOG\_AUTHPRIV** ( [integer](#) )

**LOG\_LOCAL0** ( [integer](#) )

**LOG\_LOCAL1** ( [integer](#) )

**LOG\_LOCAL2** ( [integer](#) )

**LOG\_LOCAL3** ( [integer](#) )

**LOG\_LOCAL4** ( [integer](#) )

**LOG\_LOCAL5** ( [integer](#) )

**LOG\_LOCAL6** ( [integer](#) )

**LOG\_LOCAL7** ( [integer](#) )

**LOG\_PID** ( [integer](#) )

**LOG\_CONS** ( [integer](#) )

**LOG\_ODELAY** ( [integer](#) )

**LOG\_NDELAY** ( [integer](#) )

**LOG\_NOWAIT** ( [integer](#) )

**LOG\_PERROR** ( [integer](#) )

# List of Resource Types

The following is a list of functions which create, use or destroy PHP resources. The function [is\\_resource\(\)](#) can be used to determine if a variable is a resource and [get\\_resource\\_type\(\)](#) will return the type of resource it is.

## Resource Types

Resource Type Name	Created By	Used By	Destroyed By	Definition
aspell	<a href="#">aspell_new()</a>	<a href="#">aspell_check()</a> , <a href="#">aspell_check_raw()</a> , <a href="#">aspell_suggest()</a>	None	Aspell dictionary
bzip2	<a href="#">bzopen()</a>	<a href="#">bzerrno()</a> , <a href="#">bzerror()</a> , <a href="#">bzerrstr()</a> , <a href="#">bzflush()</a> , <a href="#">bzread()</a> , <a href="#">bzwrite()</a>	<a href="#">bzclose()</a>	Bzip2 file
COM	<a href="#">com_load()</a>	<a href="#">com_invoke()</a> , <a href="#">com_propget()</a> , <a href="#">com_get()</a> , <a href="#">com_propput()</a> , <a href="#">com_set()</a> , <a href="#">com_propput()</a>	None	COM object reference
VARIANT				
cpdf	<a href="#">cpdf_open()</a>	<a href="#">cpdf_page_init()</a> , <a href="#">cpdf_finalize_page()</a> , <a href="#">cpdf_finalize()</a> , <a href="#">cpdf_output_buffer()</a> , <a href="#">cpdf_save_to_file()</a> , <a href="#">cpdf_set_current_page()</a> , <a href="#">cpdf_begin_text()</a> , <a href="#">cpdf_end_text()</a> , <a href="#">cpdf_show()</a> , <a href="#">cpdf_show_xy()</a> , <a href="#">cpdf_text()</a> ,	<a href="#">cpdf_close()</a>	PDF document with CPDF lib

	<p>cpdf_set_font(), cpdf_set_leading(), cpdf_set_text_rendering(), cpdf_set_horiz_scaling(), cpdf_set_text_rise(), cpdf_set_text_matrix(), cpdf_set_text_pos(), cpdf_set_text_pos(), cpdf_set_word_spacing(), cpdf_continue_text(), cpdf_stringwidth(), cpdf_save(), cpdf_translate(), cpdf_restore(), cpdf_scale(), cpdf_rotate(), cpdf_setflat(), cpdf_setlinejoin(), cpdf_setlinecap(), cpdf_setmiterlimit(), cpdf_setlinewidth(), cpdf_setdash(), cpdf_moveto(), cpdf_rmoveto(), cpdf_curveto(), cpdf_lineto(), cpdf_rlineto(), cpdf_circle(), cpdf_arc(), cpdf_rect(), cpdf_closepath(), cpdf_stroke(), cpdf_closepath_fill_stroke(), cpdf_fill_stroke(), cpdf_clip(), cpdf_fill(), cpdf_setgray_fill(),</p>	
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		<b>cpdf_setgray_stroke(),</b> <b>cpdf_setgray(),</b> <b>cpdf_setrgbcolor_fill(),</b> <b>cpdf_setrgbcolor_stroke(),</b> <b>cpdf_setrgbcolor(),</b> <b>cpdf_add_outline(),</b> <b>cpdf_set_page_animation(),</b> <b>cpdf_import_jpeg(),</b> <b>cpdf_place_inline_image(),</b> <b>cpdf_add_annotation()</b>		
cpdf outline				
curl	<a href="#">curl_copy_handle(),</a> <a href="#">curl_init()</a>	<a href="#">curl_copy_handle(),</a> <a href="#">curl_errno(),</a> <a href="#">curl_error(),</a> <a href="#">curl_exec(),</a> <a href="#">curl_getinfo(),</a> <a href="#">curl_setopt()</a>	<a href="#">curl_close()</a>	Curl session
dbm	<b>dbmopen()</b>	<b>dbmexists(),</b> <b>dbmfetch(),</b> <b>dbminsert(),</b> <b>dbmreplace(),</b> <b>dbmdelete(),</b> <b>dbmfirstkey(),</b> <b>dbmnextkey()</b>	<b>dbmclose()</b>	Link to DBM database
dba	<a href="#">dba_open()</a>	<a href="#">dba_delete(),</a> <a href="#">dba_exists(),</a> <a href="#">dba_fetch(),</a> <a href="#">dba_firstkey(),</a> <a href="#">dba_insert(),</a> <a href="#">dba_nextkey(),</a> <a href="#">dba_optimize(),</a> <a href="#">dba_replace(),</a> <a href="#">dba_sync()</a>	<a href="#">dba_close()</a>	Link to DBA database
dba persistent	<a href="#">dba_popen()</a>	<a href="#">dba_delete(),</a> <a href="#">dba_exists(),</a> <a href="#">dba_fetch(),</a> <a href="#">dba_firstkey(),</a> <a href="#">dba_insert(),</a>	None	<a href="#">Persistent link to DBA database</a>

		<a href="#">dba_nextkey()</a> , <a href="#">dba_optimize()</a> , <a href="#">dba_replace()</a> , <a href="#">dba_sync()</a>		
dbase	<a href="#">dbase_open()</a>	<a href="#">dbase_pack()</a> , <a href="#">dbase_add_record()</a> , <a href="#">dbase_replace_record()</a> , <a href="#">dbase_delete_record()</a> , <a href="#">dbase_get_record()</a> , <a href="#">dbase_get_record_with_names()</a> , <a href="#">dbase_numfields()</a> , <a href="#">dbase_numrecords()</a>	<a href="#">dbase_close()</a>	Link to Dbase database
dbx_link_object	<a href="#">dbx_connect()</a>	<a href="#">dbx_query()</a>	<a href="#">dbx_close()</a>	dbx connection
dbx_result_object	<a href="#">dbx_query()</a>		None	dbx result
domxml attribute				
domxml document				
domxml node				
xpath context				
xpath object				
fbsql link	<a href="#">fbsql_change_user()</a> , <a href="#">fbsql_connect()</a>	<a href="#">fbsql_autocommit()</a> , <a href="#">fbsql_blob_size()</a> , <a href="#">fbsql_clob_size()</a> , <a href="#">fbsql_commit()</a> , <a href="#">fbsql_change_user()</a> , <a href="#">fbsql_create_blob()</a> , <a href="#">fbsql_create_db()</a> , <a href="#">fbsql_create_clob()</a> , <a href="#">fbsql_data_seek()</a> , <a href="#">fbsql_database_password()</a> , <a href="#">fbsql_database()</a> , <a href="#">fbsql_db_query()</a> , <a href="#">fbsql_db_status()</a>	<a href="#">fbsql_close()</a>	Link to fbsql database

		, fbsql_drop_db() , fbsql_errno(), fbsql_error(), fbsql_get_autostart_info(), fbsql_hostname(), fbsql_insert_id(), fbsql_list_dbs(), fbsql_password(), fbsql_read_blob(), fbsql_read_clob(), fbsql_rollback(), fbsql_select_db(), fbsql_set_password(), fbsql_set_transaction(), fbsql_start_db(), fbsql_stop_db(), fbsql_username()		
fbsql plink	fbsql_change_user(), fbsql_pconnect()	fbsql_autocommit(), fbsql_change_user(), fbsql_create_db(), fbsql_data_seek(), fbsql_db_query(), fbsql_drop_db(), fbsql_select_db(), fbsql_errno(), fbsql_error(), fbsql_insert_id(), fbsql_list_dbs()	None	Persistent link to fbsql database
fbsql result	fbsql_db_query(), fbsql_list_dbs(), fbsql_query(), fbsql_list_fields(), fbsql_list_tables(), fbsql_tablename()	fbsql_affected_rows(), fbsql_fetch_array(), fbsql_fetch_assoc(), fbsql_fetch_field(), fbsql_fetch_lengths(), fbsql_fetch_object(), fbsql_fetch_row(), fbsql_field_flags(), fbsql_field_name(), fbsql_field_len(), fbsql_field_seek(), fbsql_field_table(),	fbsql_free_result()	fbsql result

		fbsql_field_type() , fbsql_next_result(), fbsql_num_fields(), fbsql_num_rows(), fbsql_result(), fbsql_num_rows()		
fdf	fdf_open()	fdf_create(), fdf_save(), fdf_get_value(), fdf_set_value(), fdf_next_field_name(), fdf_set_ap(), fdf_set_status(), fdf_get_status(), fdf_set_file(), fdf_get_file(), fdf_set_flags(), fdf_set_opt(), fdf_set_submit_form_action(), fdf_set_javascript_action()	fdf_close()	FDF File
ftp	ftp_connect(), ftp_ssl_connect()	ftp_login(), ftp_pwd(), ftp_cdup(), ftp_chdir(), ftp_mkdir(), ftp_rmdir(), ftp_nlist(), ftp_rawlist(), ftp_systype(), ftp_pasv(), ftp_get(), ftp_fget(), ftp_put(), ftp_fput(), ftp_size(), ftp_mdtm(), ftp_rename(), ftp_delete(), ftp_site(), ftp_alloc(), ftp_chmod(), ftp_exec(), ftp_get_option(), ftp_nb_continue(), ftp_nb_fget(), ftp_nb_fput(),	ftp_close()	FTP stream

		<a href="#">ftp_nb_get()</a> , <a href="#">ftp_nb_put()</a> , <a href="#">ftp_raw()</a> , <a href="#">ftp_set_option()</a>		
gd	<a href="#">imagecreate()</a> , <a href="#">imagecreatefromgd()</a> , <a href="#">imagecreatefromgd2()</a> , <a href="#">imagecreatefromgd2part()</a> , <a href="#">imagecreatefromgif()</a> , <a href="#">imagecreatefromjpeg()</a> , <a href="#">imagecreatefrompng()</a> , <a href="#">imagecreatefromwbmp()</a> , <a href="#">imagecreatefromstring()</a> , <a href="#">imagecreatefromxbm()</a> , <a href="#">imagecreatefromxpm()</a> , <a href="#">imagecreatetruecolor()</a> , <a href="#">imagerotate()</a>	<a href="#">imagearc()</a> , <a href="#">imagechar()</a> , <a href="#">imagecharup()</a> , <a href="#">imagecolorallocate()</a> , <a href="#">imagecolorat()</a> , <a href="#">imagecolorclosest()</a> , <a href="#">imagecolorexact()</a> , <a href="#">imagecolorresolve()</a> , <a href="#">imagegammacorrect()</a> , <a href="#">imagegammacorrectrect()</a> , <a href="#">imagecolorset()</a> , <a href="#">imagecolorsforindex()</a> , <a href="#">imagecolorstotal()</a> , <a href="#">imagecolortransparent()</a> , <a href="#">imagecopy()</a> , <a href="#">imagecopyresized()</a> , <a href="#">imagedashedline()</a> , <a href="#">imagefill()</a> , <a href="#">imagefilledpolygon()</a> , <a href="#">imagefilledrectangle()</a> , <a href="#">imagefilltoborder()</a> , <a href="#">imagegif()</a> , <a href="#">imagepng()</a> , <a href="#">imagejpeg()</a> , <a href="#">imagewbmp()</a> , <a href="#">imageinterlace()</a> , <a href="#">imageline()</a> , <a href="#">imagepolygon()</a> , <a href="#">imagepstring()</a> , <a href="#">imagerectangle()</a> , <a href="#">imagerotate()</a> , <a href="#">imagesetpixel()</a> , <a href="#">imagestring()</a> , <a href="#">imagestringup()</a> , <a href="#">imagesx()</a> , <a href="#">imagesy()</a> , <a href="#">imagetfttext()</a> , <a href="#">imagefilledarc()</a> , <a href="#">imageellipse()</a> , <a href="#">imagefilledellipse()</a> , <a href="#">imagecolorclosestalpha()</a> , <a href="#">image</a>	<a href="#">imagedestroy()</a>	GD Image

		<a href="#">ecolorexactalpha()</a> , <a href="#">imagecolorresolvealpha()</a> , <a href="#">imagecopymerge()</a> , <a href="#">imagecopymergegray()</a> , <a href="#">imagecopyresampled()</a> , <a href="#">imagetruecolortopalette()</a> , <a href="#">imagesetbrush()</a> , <a href="#">imagesettile()</a> , <a href="#">imagesetthickness()</a> , <a href="#">image2wbmp()</a> , <a href="#">imagealphablending()</a> , <a href="#">imageantialias()</a> , <a href="#">imagecolorallocatealpha()</a> , <a href="#">imagecolorclosesthw()</a> , <a href="#">imagecolordeallocate()</a> , <a href="#">imagecolormatch()</a> , <a href="#">imagefilter()</a> , <a href="#">imagefttext()</a> , <a href="#">imagegd()</a> , <a href="#">imagegd2()</a> , <a href="#">imageistruecolor()</a> , <a href="#">imagelayereffect()</a> , <a href="#">imagepalettecopy()</a> , <a href="#">imagesavealpha()</a> , <a href="#">imagesetstyle()</a> , <a href="#">imagexbm()</a>		
gd font	<a href="#">imageloadfont()</a>	<a href="#">imagechar()</a> , <a href="#">imagecharup()</a> , <a href="#">imagefontheight()</a>	None	Font for GD
gd PS encoding				
gd PS font	<a href="#">imagepsloadfont()</a>	<a href="#">imagepstext()</a> , <a href="#">imagepsfont()</a> , <a href="#">imagepsfontwidth()</a> , <a href="#">imagepsbbox()</a>	<a href="#">imagepsfreefont()</a>	PS font for GD
GMP integer	<a href="#">gmp_init()</a>	<a href="#">gmp_intval()</a> , <a href="#">gmp_strval()</a> , <a href="#">gmp_add()</a> , <a href="#">gmp_sub()</a> , <a href="#">gmp_mul()</a> ,	None	GMP Number

		gmp_div_q(), gmp_div_r(), gmp_div_qr(), gmp_div(), gmp_mod(), gmp_divexact(), gmp_cmp(), gmp_neg(), gmp_abs(), gmp_sign(), gmp_fact(), gmp_sqrt(), <b>gmp_sqrtrm()</b> , g mp_perfect_squ are(), gmp_pow() , gmp_powm(), g mp_prob_prime() , gmp_gcd(), gmp_gcdext(), gmp_invert(), gmp_legendre(), gmp_jacobi(), gmp_random(), gmp_and(), gmp_or(), gmp_xor(), gmp_setbit(), gmp_clrbit(), gmp_scan0(), gmp_scan1(), gmp_popcount(), gmp_hamdist()		
hyperwave document	hw_cp(), hw_doc byanchor(), hw_getremote(), hw_getremotechi ldren()	hw_children(), hw_childrenobj(), ) hw_getparents(), hw_getparentsob j(), hw_getchildcoll() , hw_getchildcoll obj(), hw_getremote(), hw_getsrcbydest obj(), hw_getandlock(), hw_gettext(), hw _getobjectbyquer ycoll(), hw_getob jectbyquerycollo bj(), hw_getchild doccoll(), hw_get childdoccollobj(),	hw_deleteobject(	Hyperwave object

		<a href="#">hw_getanchors()</a> , <a href="#">hw_getanchorsobj()</a> , <a href="#">hw_inscoll()</a> , <a href="#">hw_pipedocument()</a> , <a href="#">hw_unlock()</a>		
hyperwave link	<a href="#">hw_connect()</a>	<a href="#">hw_children()</a> , <a href="#">hw_childrenobj()</a> , <a href="#">hw_cp()</a> , <a href="#">hw_deleteobject()</a> , <a href="#">hw_docbyanchor()</a> , <a href="#">hw_docbyanchorobj()</a> , <a href="#">hw_errormsg()</a> , <a href="#">hw_edittext()</a> , <a href="#">hw_error()</a> , <a href="#">hw_getparents()</a> , <a href="#">hw_getparentsobj()</a> , <a href="#">hw_getchildcoll()</a> , <a href="#">hw_getchildcollobj()</a> , <a href="#">hw_getremote()</a> , <a href="#">hw_getremotechildren()</a> , <a href="#">hw_getsrcbydestobj()</a> , <a href="#">hw_getobject()</a> , <a href="#">hw_getandlock()</a> , <a href="#">hw_gettext()</a> , <a href="#">hw_getobjectbyquery()</a> , <a href="#">hw_getobjectbyqueryobj()</a> , <a href="#">hw_getobjectbyquerycoll()</a> , <a href="#">hw_getobjectbyquerycollobj()</a> , <a href="#">hw_getchilddoccoll()</a> , <a href="#">hw_getchilddoccollobj()</a> , <a href="#">hw_getanchors()</a> , <a href="#">hw_getanchorsobj()</a> , <a href="#">hw_mv()</a> , <a href="#">hw_incollections()</a> , <a href="#">hw_info()</a> , <a href="#">hw_inscoll()</a> , <a href="#">hw_insdock()</a> , <a href="#">hw_insertdocument()</a> , <a href="#">hw_insertobject()</a> , <a href="#">hw_mapid()</a> , <a href="#">hw_modifyobject()</a> , <a href="#">hw_pipedocume</a>	<a href="#">hw_close()</a> , <a href="#">hw_free_document()</a>	Link to Hyperwave server



		nt(), hw_unlock() , hw_who(), hw_ getusername()		
hyperwave link persistent	hw_pconnect()	hw_children(), hw_childrenobj(), hw_cp(), hw_del eteobject(), hw_d ocbyanchor(), hw _docbyanchorobj (), hw_errormsg(), hw_edittest(), hw_error(), hw_getparents(), hw_getparentsob j(), hw_getchildcoll() , hw_getchildcoll obj(), hw_getremote(), hw_getremotechi ldren(), hw_getsr cbydestobj(), hw_getobject(), hw_getandlock(), hw_gettext(), hw _getobjectbyquer y(), hw_getobject byqueryobj(), hw _getobjectbyquer ycoll(), hw_getob jectbyquerycollo bj(), hw_getchild doccoll(), hw_get childdoccollobj(), hw_getanchors() , hw_getanchors obj(), hw_mv(), h w_incollections(), hw_info(), hw_inscoll(), hw_insdock(), hw _insertdocument (), hw_insertobject() , hw_mapid(), hw _modifyobject(), hw_pipedocume nt(), hw_unlock() , hw_who(), hw_ getusername()	None	Persistent link to Hyperwave server

icap	icap_open()	icap_fetch_event(), icap_list_events(), icap_store_event(), icap_snooze(), icap_list_alarms(), icap_delete_event()	icap_close()	Link to icap server
imap	imap_open()	imap_append(), imap_body(), imap_check(), imap_createmailbox(), imap_delete(), imap_deletemailbox(), imap_expunge(), imap_fetchbody(), imap_fetchstructure(), imap_headerinfo(), imap_header(), imap_headers(), imap_listmailbox(), imap_getmailboxes(), imap_get_quota(), imap_status(), imap_listsubscribed(), imap_set_quota(), imap_set_quota(), imap_getsubscribed(), imap_mail_copy(), imap_mail_move(), imap_num_msg(), imap_num_recent(), imap_ping(), imap_renamemailbox(), imap_reopen(), imap_subscribe(),  , imap_undelete(), imap_unsubscribe(), imap_scanmailbox(), imap_m	imap_close()	Link to IMAP, POP3 server

		<a href="#">ailboxmsginfo()</a> , <a href="#">imap_fetchheader()</a> , <a href="#">imap_uid()</a> , <a href="#">imap_msgno()</a> , <a href="#">imap_search()</a> , <a href="#">imap_fetch_overview()</a>		
imap chain persistent				
imap persistent				
ingres	<a href="#">ingres_connect()</a>	<a href="#">ingres_query()</a> , <a href="#">ingres_num_rows()</a> , <a href="#">ingres_num_fields()</a> , <a href="#">ingres_field_name()</a> , <a href="#">ingres_field_type()</a> , <a href="#">ingres_field_nullable()</a> , <a href="#">ingres_field_length()</a> , <a href="#">ingres_field_precision()</a> , <a href="#">ingres_field_scale()</a> , <a href="#">ingres_fetch_array()</a> , <a href="#">ingres_fetch_row()</a> , <a href="#">ingres_fetch_object()</a> , <a href="#">ingres_rollback()</a> , <a href="#">ingres_commit()</a> , <a href="#">ingres_autocommit()</a>	<a href="#">ingres_close()</a>	Link to ingresII base
ingres persistent	<a href="#">ingres_pconnect()</a>	<a href="#">ingres_query()</a> , <a href="#">ingres_num_rows()</a> , <a href="#">ingres_num_fields()</a> , <a href="#">ingres_field_name()</a> , <a href="#">ingres_field_type()</a> , <a href="#">ingres_field_nullable()</a> , <a href="#">ingres_field_length()</a> , <a href="#">ingres_field_precision()</a> , <a href="#">ingres_field_scale()</a> , <a href="#">ingres_fetch_array()</a> , <a href="#">ingres_fetch_row()</a> , <a href="#">ingres_fetch_object()</a> , <a href="#">ingres_rollback()</a> , <a href="#">ingres_commit()</a> , <a href="#">ingres_autocommit()</a>	None	Persistent link to ingresII base

interbase blob				
interbase link	<a href="#">ibase_connect()</a>	<a href="#">ibase_query()</a> , <a href="#">ibase_prepare()</a> , <a href="#">ibase_trans()</a>	<a href="#">ibase_close()</a>	Link to Interbase database
interbase link persistent	<a href="#">ibase_pconnect()</a>	<a href="#">ibase_query()</a> , <a href="#">ibase_prepare()</a> , <a href="#">ibase_trans()</a>	None	Persistent link to Interbase database
interbase query	<a href="#">ibase_prepare()</a>	<a href="#">ibase_execute()</a>	<a href="#">ibase_free_query()</a>	Interbase query
interbase result	<a href="#">ibase_query()</a>	<a href="#">ibase_fetch_row()</a> , <a href="#">ibase_fetch_object()</a> , <a href="#">ibase_field_info()</a> , <a href="#">ibase_num_fields()</a>	<a href="#">ibase_free_result()</a>	Interbase Result
interbase transaction	<a href="#">ibase_trans()</a>	<a href="#">ibase_commit()</a>	<a href="#">ibase_rollback()</a>	Interbase transaction
java				
ldap link	<a href="#">ldap_connect()</a> , <a href="#">ldap_search()</a>	<a href="#">ldap_count_entries()</a> , <a href="#">ldap_first_attribute()</a> , <a href="#">ldap_first_entry()</a> , <a href="#">ldap_get_attributes()</a> , <a href="#">ldap_get_dn()</a> , <a href="#">ldap_get_entries()</a> , <a href="#">ldap_get_values()</a> , <a href="#">ldap_get_values_len()</a> , <a href="#">ldap_next_attribute()</a> , <a href="#">ldap_next_entry()</a>	<a href="#">ldap_close()</a>	ldap connection
ldap result	<a href="#">ldap_read()</a>	<a href="#">ldap_add()</a> , <a href="#">ldap_compare()</a> , <a href="#">ldap_bind()</a> , <a href="#">ldap_count_entries()</a> , <a href="#">ldap_delete()</a> , <a href="#">ldap_errno()</a> , <a href="#">ldap_error()</a> , <a href="#">ldap_first_attribute()</a> , <a href="#">ldap_first_entry()</a> , <a href="#">ldap_get_attributes()</a> , <a href="#">ldap_get_dn()</a> , <a href="#">ldap_get_entries()</a> ,	<a href="#">ldap_free_result()</a>	ldap search result

		<a href="#">ldap_get_values()</a> , <a href="#">ldap_get_value_s_len()</a> , <a href="#">ldap_get_option()</a> , <a href="#">ldap_list()</a> , <a href="#">ldap_modify()</a> , <a href="#">ldap_mod_add()</a> , <a href="#">ldap_mod_replace()</a> , <a href="#">ldap_next_attribute()</a> , <a href="#">ldap_next_entry()</a> , <a href="#">ldap_mod_del()</a> , <a href="#">ldap_set_option()</a> , <a href="#">ldap_unbind()</a>		
ldap result entry				
mcald	<b>mcald_open()</b> , <b>mcald_popen()</b>	<b>mcald_create_calendar()</b> , <b>mcald_rename_calendar()</b> , <b>mcald_rename_calendar()</b> , <b>mcald_delete_calendar()</b> , <b>mcald_fetch_event()</b> , <b>mcald_list_events()</b> , <b>mcald_append_event()</b> , <b>mcald_store_event()</b> , <b>mcald_delete_event()</b> , <b>mcald_list_alarms()</b> , <b>mcald_event_init()</b> , <b>mcald_event_set_category()</b> , <b>mcald_event_set_title()</b> , <b>mcald_event_set_description()</b> , <b>mcald_event_set_start()</b> , <b>mcald_event_set_end()</b> , <b>mcald_event_set_alarm()</b> , <b>mcald_event_set</b>	<b>mcald_close()</b>	Link to calendar server

		_class(), mcal_next_recur rence(), mcal_event_set _recur_none(), mcal_event_set _recur_daily(), mcal_event_set _recur_weekly() , mcal_event_set _recur_monthly _mday(), mcal_event_set _recur_monthly _wday(), mcal_event_set _recur_yearly(), mcal_fetch_cur rent_stream_ev ent(), mcal_event_ad d_attribute(), mcal_expunge()		
SWFAction				
SWFBitmap				
SWFButton				
SWFDisplayItem				
SWFFill				
SWFFont				
SWFGradient				
SWFMorph				
SWFMovie				
SWFShape				
SWFSprite				
SWFText				
SWFTextField				
mnogosearch				

agent				
mnogosearch result				
mysql link	<a href="#">mysql_connect()</a>	<a href="#">mysql()</a> , <a href="#">mysql_create_db()</a> , <a href="#">mysql_createdb()</a> , <a href="#">mysql_drop_db()</a> , <a href="#">mysql_drop_db()</a> , <a href="#">mysql_select_db()</a> , <a href="#">mysql_select_db()</a>	<a href="#">mysql_close()</a>	Link to mSQL database
mysql link persistent	<a href="#">mysql_pconnect()</a>	<a href="#">mysql()</a> , <a href="#">mysql_create_db()</a> , <a href="#">mysql_createdb()</a> , <a href="#">mysql_drop_db()</a> , <a href="#">mysql_drop_db()</a> , <a href="#">mysql_select_db()</a> , <a href="#">mysql_select_db()</a>	None	Persistent link to mSQL
mysql query	<a href="#">mysql_db_query()</a> , <a href="#">mysql_list_dbs()</a> , <a href="#">mysql_list_fields()</a> , <a href="#">mysql_list_tables()</a> , <a href="#">mysql_query()</a>	<a href="#">mysql()</a> , <a href="#">mysql_affected_rows()</a> , <a href="#">mysql_data_seek()</a> , <a href="#">mysql_dbname()</a> , <a href="#">mysql_fetch_array()</a> , <a href="#">mysql_fetch_field()</a> , <a href="#">mysql_fetch_object()</a> , <a href="#">mysql_fetch_row()</a> , <a href="#">mysql_field_seek()</a> , <a href="#">mysql_field_table()</a> , <a href="#">mysql_field_flags()</a> , <a href="#">mysql_field_len()</a> , <a href="#">mysql_field_name()</a> , <a href="#">mysql_field_type()</a> , <a href="#">mysql_num_fields()</a> , <a href="#">mysql_num_rows()</a> , <a href="#">mysql_numfields()</a> , <a href="#">mysql_numrows()</a> , <a href="#">mysql_result()</a>	<a href="#">mysql_free_result()</a> , <a href="#">mysql_free_result()</a>	mSQL result
mssql link	<a href="#">mssql_connect()</a>	<a href="#">mssql_query()</a> , <a href="#">mssql_select_db()</a>	<a href="#">mssql_close()</a>	Link to Microsoft SQL Server database

mssql link persistent	<a href="#">mssql_pconnect()</a>	<a href="#">mssql_query()</a> , <a href="#">mssql_select_db()</a>	None	Persistent link to Microsoft SQL Server
mssql result	<a href="#">mssql_query()</a>	<a href="#">mssql_data_seek()</a> , <a href="#">mssql_fetch_array()</a> , <a href="#">mssql_fetch_field()</a> , <a href="#">mssql_fetch_object()</a> , <a href="#">mssql_fetch_row()</a> , <a href="#">mssql_field_length()</a> , <a href="#">mssql_field_name()</a> , <a href="#">mssql_field_seek()</a> , <a href="#">mssql_field_type()</a> , <a href="#">mssql_num_fields()</a> , <a href="#">mssql_num_rows()</a> , <a href="#">mssql_result()</a>	<a href="#">mssql_free_result()</a>	Microsoft SQL Server result
mysql link	<a href="#">mysql_connect()</a>	<a href="#">mysql_affected_rows()</a> , <a href="#">mysql_change_user()</a> , <a href="#">mysql_create_db()</a> , <a href="#">mysql_data_seek()</a> , <a href="#">mysql_db_name()</a> , <a href="#">mysql_db_query()</a> , <a href="#">mysql_drop_db()</a> , <a href="#">mysql_errno()</a> , <a href="#">mysql_error()</a> , <a href="#">mysql_insert_id()</a> , <a href="#">mysql_list_dbs()</a> , <a href="#">mysql_list_fields()</a> , <a href="#">mysql_list_tables()</a> , <a href="#">mysql_query()</a> , <a href="#">mysql_result()</a> , <a href="#">mysql_select_db()</a> , <a href="#">mysql_tablename()</a> , <a href="#">mysql_get_host_info()</a> , <a href="#">mysql_get_proto_info()</a> , <a href="#">mysql_get_server_info()</a>	<a href="#">mysql_close()</a>	Link to MySQL database
mysql link persistent	<a href="#">mysql_pconnect()</a>	<a href="#">mysql_affected_rows()</a> , <a href="#">mysql_change_user()</a> , <a href="#">mysql_create_db()</a> , <a href="#">mysql_data_seek()</a>	None	Persistent link to MySQL database



		<a href="#">k()</a> , <a href="#">mysql_db_name()</a> , <a href="#">mysql_db_query()</a> , <a href="#">mysql_drop_db()</a> , <a href="#">mysql_errno()</a> , <a href="#">mysql_error()</a> , <a href="#">mysql_insert_id()</a> , <a href="#">mysql_list_dbs()</a> , <a href="#">mysql_list_fields()</a> , <a href="#">mysql_list_tables()</a> , <a href="#">mysql_query()</a> , <a href="#">mysql_result()</a> , <a href="#">mysql_select_db()</a> , <a href="#">mysql_tablename()</a> , <a href="#">mysql_get_host_info()</a> , <a href="#">mysql_get_proto_info()</a> , <a href="#">mysql_get_server_info()</a>		
mysql result	<a href="#">mysql_db_query()</a> , <a href="#">mysql_list_dbs()</a> , <a href="#">mysql_list_fields()</a> , <a href="#">mysql_list_processes()</a> , <a href="#">mysql_list_tables()</a> , <a href="#">mysql_query()</a> , <a href="#">mysql_unbuffered_query()</a>	<a href="#">mysql_data_seek()</a> , <a href="#">mysql_db_name()</a> , <a href="#">mysql_fetch_array()</a> , <a href="#">mysql_fetch_assoc()</a> , <a href="#">mysql_fetch_field()</a> , <a href="#">mysql_fetch_lengths()</a> , <a href="#">mysql_fetch_object()</a> , <a href="#">mysql_fetch_row()</a> , <a href="#">mysql_fetch_row()</a> , <a href="#">mysql_field_flags()</a> , <a href="#">mysql_field_name()</a> , <a href="#">mysql_field_len()</a> , <a href="#">mysql_field_seek()</a> , <a href="#">mysql_field_table()</a> , <a href="#">mysql_field_type()</a> , <a href="#">mysql_num_fields()</a> , <a href="#">mysql_num_rows()</a> , <a href="#">mysql_result()</a> , <a href="#">mysql_tablename()</a>	<a href="#">mysql_free_result()</a>	MySQL result
oci8 collection				
oci8 connection	<a href="#">ocilogon()</a> , <a href="#">ociploton()</a> , <a href="#">ocinlogon()</a>	<a href="#">ocicommit()</a> , <a href="#">ociserverversion()</a> , <a href="#">ocinewcursor()</a> ,	<a href="#">ocilogoff()</a>	Link to Oracle database



odbc link persistent	<a href="#">odbc_pconnect()</a>	<a href="#">odbc_autocommit()</a> , <a href="#">odbc_commit()</a> , <a href="#">odbc_error()</a> , <a href="#">odbc_errormsg()</a> , <a href="#">odbc_exec()</a> , <a href="#">odbc_tables()</a> , <a href="#">odbc_tableprivileges()</a> , <a href="#">odbc_do()</a> , <a href="#">odbc_prepare()</a> , <a href="#">odbc_columns()</a> , <a href="#">odbc_columnprivileges()</a> , <a href="#">odbc_procedurecolumns()</a> , <a href="#">odbc_specialcolumns()</a> , <a href="#">odbc_rollback()</a> , <a href="#">odbc_setoption()</a> , <a href="#">odbc_gettypeinfo()</a> , <a href="#">odbc_primarykeys()</a> , <a href="#">odbc_foreignkeys()</a> , <a href="#">odbc_procedures()</a> , <a href="#">odbc_statistics()</a>	None	Persistent link to ODBC database
odbc result	<a href="#">odbc_prepare()</a>	<a href="#">odbc_binmode()</a> , <a href="#">odbc_cursor()</a> , <a href="#">odbc_execute()</a> , <a href="#">odbc_fetch_into()</a> , <a href="#">odbc_fetch_row()</a> , <a href="#">odbc_field_name()</a> , <a href="#">odbc_field_num()</a> , <a href="#">odbc_field_type()</a> , <a href="#">odbc_field_len()</a> , <a href="#">odbc_field_precision()</a> , <a href="#">odbc_field_scale()</a> , <a href="#">odbc_longreadlen()</a> , <a href="#">odbc_num_fields()</a> , <a href="#">odbc_num_rows()</a> , <a href="#">odbc_result()</a> , <a href="#">odbc_result_all()</a> , <a href="#">odbc_setoption()</a>	<a href="#">odbc_free_result()</a>	ODBC result
birdstep link				
birdstep result				
OpenSSL key	<a href="#">openssl_get_privatekey()</a> , <a href="#">openssl_get_publickey()</a>	<a href="#">openssl_sign()</a> , <a href="#">openssl_seal()</a> , <a href="#">openssl_open()</a> ,	<a href="#">openssl_free_key()</a>	OpenSSL key

		<a href="#">openssl_verify()</a>		
OpenSSL X.509	<a href="#">openssl_x509_read()</a>	<a href="#">openssl_x509_parse()</a> , <a href="#">openssl_x509_checkpurpose()</a>	<a href="#">openssl_x509_free()</a>	Public Key
oracle Cursor	<b>ora_open()</b>	<b>ora_bind()</b> , <b>ora_columnname()</b> , <b>ora_columnsize()</b> , <b>ora_columntype()</b> , <b>ora_error()</b> , <b>ora_errorcode()</b> , <b>ora_exec()</b> , <b>ora_fetch()</b> , <b>ora_fetch_into()</b> , <b>ora_getcolumn()</b> , <b>ora_numcols()</b> , <b>ora_numrows()</b> , <b>ora_parse()</b>	<b>ora_close()</b>	Oracle cursor
oracle link	<b>ora_logon()</b>	<b>ora_do()</b> , <b>ora_error()</b> , <b>ora_errorcode()</b> , <b>ora_rollback()</b> , <b>ora_commitoff()</b> , <b>ora_commiton()</b> , <b>ora_open()</b> , <b>ora_commit()</b>	<b>ora_logoff()</b>	Link to oracle database
oracle link persistent	<b>ora_plogon()</b>	<b>ora_do()</b> , <b>ora_error()</b> , <b>ora_errorcode()</b> , <b>ora_rollback()</b> , <b>ora_commitoff()</b> , <b>ora_commiton()</b> , <b>ora_open()</b> , <b>ora_commit()</b>	None	Persistent link to oracle database
pdf document	<a href="#">pdf_new()</a>	<a href="#">pdf_add_bookmark()</a> , <a href="#">pdf_add_lanlink()</a> , <a href="#">pdf_add_loclink()</a> , <a href="#">pdf_add_note()</a> , <a href="#">pdf_add_pdflink()</a> , <a href="#">pdf_add_webli</a>	<a href="#">pdf_close()</a> , <a href="#">pdf_delete()</a>	PDF document

nk(), pdf\_arc(),  
pdf\_attach\_file(),  
pdf\_begin\_page(  
) , pdf\_circle(),  
pdf\_clip(),  
pdf\_closepath(),  
pdf\_closepath\_fil  
l\_stroke(), pdf\_cl  
osepath\_stroke(  
) , pdf\_concat(), p  
df\_continue\_text(  
) , pdf\_curveto(),  
pdf\_end\_page(),  
pdf\_endpath(),  
pdf\_fill(),  
pdf\_fill\_stroke(),  
pdf\_findfont(),  
pdf\_get\_buffer(),  
pdf\_get\_image\_  
height(), pdf\_get  
\_image\_width(),  
pdf\_get\_paramet  
er(),  
pdf\_get\_value(),  
pdf\_lineto(),  
pdf\_moveto(),  
pdf\_open\_ccitt(),  
pdf\_open\_file(),  
pdf\_open\_image  
\_file(), pdf\_place  
\_image(),  
pdf\_rect(),  
pdf\_restore(),  
pdf\_rotate(),  
pdf\_save(),  
pdf\_scale(),  
pdf\_setdash(),  
pdf\_setflat(),  
pdf\_setfont(),  
pdf\_setgray(),  
pdf\_setgray\_fill(),  
pdf\_setgray\_stro  
ke(),  
pdf\_setlinecap(),  
pdf\_setlinejoin(),  
pdf\_setlinewidth(  
) , pdf\_setmiterlim  
it(), pdf\_setpolyd  
ash(),  
pdf\_setrgbcolor(  
) , pdf\_setrgbcolor  
\_fill(), pdf\_setrgb

		color_stroke(), pdf_set_border_color(), pdf_set_border_dash(), pdf_set_border_style(), pdf_set_char_spacing(), pdf_set_duration(), <b>pdf_set_font()</b> , pdf_set_horiz_scaling(), pdf_set_parameter(), pdf_set_text_pos(), pdf_set_text_rendering(), pdf_set_value(), pdf_set_word_spacing(), pdf_show(), pdf_show_boxed(), pdf_show_xy(), pdf_skew(), pdf_stringwidth(), pdf_stroke(), pdf_translate(), pdf_add_thumbnail(), pdf_arcn(), pdf_begin_pattern(), pdf_begin_template(), pdf_end_pattern(), pdf_end_template(), pdf_initgraphics(), pdf_makespotcolor(), pdf_set_info(), pdf_setcolor(), pdf_setmatrix(), pdf_open_memory_image()		
pdf image	pdf_open_image(), pdf_open_image_file(), pdf_open_memory_image()	pdf_get_image_height(), pdf_get_image_width(), pdf_open_CCITT(), pdf_place_image()	pdf_close_image()	Image in PDF file
pdf object				
pdf outline				

pgsql large object	<a href="#">pg_lo_open()</a>	<a href="#">pg_lo_open()</a> , <a href="#">pg_lo_create()</a> , <a href="#">pg_lo_read()</a> , <a href="#">pg_lo_read_all()</a> , <a href="#">pg_lo_seek()</a> , <a href="#">pg_lo_tell()</a> , <a href="#">pg_lo_unlink()</a> , <a href="#">pg_lo_write()</a>	<a href="#">pg_lo_close()</a>	PostgreSQL Large Object
pgsql link	<a href="#">pg_connect()</a>	<a href="#">pg_affected_rows()</a> , <a href="#">pg_query()</a> , <a href="#">pg_send_query()</a> , <a href="#">pg_get_result()</a> , <a href="#">pg_connection_busy()</a> , <a href="#">pg_connection_reset()</a> , <a href="#">pg_connection_status()</a> , <a href="#">pg_last_error()</a> , <a href="#">pg_last_notice()</a> , <a href="#">pg_lo_create()</a> , <a href="#">pg_lo_export()</a> , <a href="#">pg_lo_import()</a> , <a href="#">pg_lo_open()</a> , <a href="#">pg_lo_unlink()</a> , <a href="#">pg_host()</a> , <a href="#">pg_port()</a> , <a href="#">pg_dbname()</a> , <a href="#">pg_options()</a> , <a href="#">pg_copy_from()</a> , <a href="#">pg_copy_to()</a> , <a href="#">pg_end_copy()</a> , <a href="#">pg_put_line()</a> , <a href="#">pg_tty()</a> , <a href="#">pg_trace()</a> , <a href="#">pg_untrace()</a> , <a href="#">pg_set_client_encoding()</a> , <a href="#">pg_client_encoding()</a> , <b><a href="#">pg_metadata()</a></b> , <a href="#">pg_convert()</a> , <a href="#">pg_insert()</a> , <a href="#">pg_select()</a> , <a href="#">pg_delete()</a> , <a href="#">pg_update()</a>	<a href="#">pg_close()</a>	Link to PostgreSQL database
pgsql link persistent	<a href="#">pg_pconnect()</a>	<a href="#">pg_affected_rows()</a> , <a href="#">pg_query()</a> , <a href="#">pg_send_query()</a> , <a href="#">pg_get_result()</a> , <a href="#">pg_connection_busy()</a> , <a href="#">pg_connec</a>	None	Persistent link to PostgreSQL database

		tion_reset(), pg_connection_statuses(), pg_last_error(), pg_last_notice(), pg_lo_create(), pg_lo_export(), pg_lo_import(), pg_lo_open(), pg_lo_unlink(), pg_host(), pg_port(), pg_dbname(), pg_options(), pg_copy_from(), pg_copy_to(), pg_end_copy(), pg_put_line(), pg_tty(), pg_trace(), pg_untrace(), pg_set_client_encoding(), pg_client_encoding(), <b>pg_metadata()</b> , pg_convert(), pg_insert(), pg_select(), pg_delete(), pg_update()		
pgsql result	pg_execute(), pg_query(), pg_query_params(), pg_get_result()	pg_fetch_array(), pg_fetch_object(), pg_fetch_result(), pg_fetch_row(), pg_field_is_null(), pg_field_name(), pg_field_num(), pg_field_prtlen(), pg_field_size(), pg_field_type(), pg_last_oid(), pg_num_fields(), pg_num_rows(), pg_result_error(), pg_result_statuses()	pg_free_result()	PostgreSQL result
pgsql string				



printer				
printer brush				
printer font				
printer pen				
pspell	<a href="#">pspell_new()</a> , <a href="#">pspell_new_config()</a> , <a href="#">pspell_new_personal()</a>	<a href="#">pspell_add_to_personal()</a> , <a href="#">pspell_add_to_session()</a> , <a href="#">pspell_check()</a> , <a href="#">pspell_clear_session()</a> , <a href="#">pspell_config_ignore()</a> , <a href="#">pspell_config_mode()</a> , <a href="#">pspell_config_personal()</a> , <a href="#">pspell_config_repl()</a> , <a href="#">pspell_config_runtogether()</a> , <a href="#">pspell_config_save_repl()</a> , <a href="#">pspell_save_wordlist()</a> , <a href="#">pspell_store_replacement()</a> , <a href="#">pspell_suggest()</a>	None	pspell dictionary
pspell config	<a href="#">pspell_config_create()</a>	<a href="#">pspell_new_config()</a>	None	pspell configuration
Sablotron XSLT	<a href="#">xslt_create()</a>	<a href="#">xslt_closelog()</a> , <a href="#">xslt_openlog()</a> , <a href="#">xslt_run()</a> , <a href="#">xslt_set_sax_handler()</a> , <a href="#">xslt_errno()</a> , <a href="#">xslt_error()</a> , <a href="#">xslt_fetch_result()</a> , <a href="#">xslt_free()</a>	<a href="#">xslt_free()</a>	XSLT parser
shmop	<a href="#">shmop_open()</a>	<a href="#">shmop_read()</a> , <a href="#">shmop_write()</a> , <a href="#">shmop_size()</a> , <a href="#">shmop_delete()</a>	<a href="#">shmop_close()</a>	
sockets file descriptor set	<b><a href="#">socket()</a></b>	<b><a href="#">accept()</a>, <a href="#">connect()</a>, <a href="#">listen()</a>, <a href="#">read()</a>, <a href="#">write()</a></b>	<b><a href="#">close()</a></b>	Socket
sockets i/o				

vector				
stream	<code>opendir()</code>	<code>readdir()</code> , <code>rewinddir()</code>	<code>closedir()</code>	Dir handle
stream	<code>fopen()</code> , <code>tmpfile()</code>	<code>feof()</code> , <code>fflush()</code> , <code>fgetc()</code> , <code>fgetcsw()</code> , <code>fgets()</code> , <code>fgetss()</code> , <code>flock()</code> , <code>fpassthru()</code> , <code>fputs()</code> , <code>fwrite()</code> , <code>fread()</code> , <code>fseek()</code> , <code>ftell()</code> , <code>fstat()</code> , <code>ftruncate()</code> , <code>set_file_buffer()</code> , <code>rewind()</code>	<code>fclose()</code>	File handle
stream	<code>popen()</code>	<code>feof()</code> , <code>fflush()</code> , <code>fgetc()</code> , <code>fgetcsw()</code> , <code>fgets()</code> , <code>fgetss()</code> , <code>fpassthru()</code> , <code>fputs()</code> , <code>fwrite()</code> , <code>fread()</code>	<code>pclose()</code>	Process handle
socket	<code>fsockopen()</code> , <code>pfsockopen()</code>	<code>fflush()</code> , <code>fgetc()</code> , <code>fgetcsw()</code> , <code>fgets()</code> , <code>fgetss()</code> , <code>fpassthru()</code> , <code>fputs()</code> , <code>fwrite()</code> , <code>fread()</code>	<code>fclose()</code>	Socket handle
sybase-db link	<code>sybase_connect()</code>	<code>sybase_query()</code> , <code>sybase_select_db()</code>	<code>sybase_close()</code>	Link to Sybase database using DB library
sybase-db link persistent	<code>sybase_pconnect()</code>	<code>sybase_query()</code> , <code>sybase_select_db()</code>	None	Persistent link to Sybase database using DB library
sybase-db result	<code>sybase_query()</code> , <code>sybase_unbuffered_query()</code>	<code>sybase_data_seek()</code> , <code>sybase_fetch_array()</code> , <code>sybase_fetch_field()</code> , <code>sybase_fetch_object()</code> , <code>sybase_fetch_row()</code> , <code>sybase_field_seek()</code> , <code>sybase_num_fields()</code> , <code>sybase_num_rows()</code> , <code>sybase_result()</code>	<code>sybase_free_result()</code>	Sybase result using DB library

sybase-ct link	<a href="#">sybase_connect()</a>	<a href="#">sybase_affected_rows()</a> , <a href="#">sybase_query()</a> , <a href="#">sybase_select_db()</a>	<a href="#">sybase_close()</a>	Link to Sybase database using CT library
sybase-ct link persistent	<a href="#">sybase_pconnect()</a>	<a href="#">sybase_affected_rows()</a> , <a href="#">sybase_query()</a> , <a href="#">sybase_select_db()</a>	None	Persistent link to Sybase database using CT library
sybase-ct result	<a href="#">sybase_query()</a>	<a href="#">sybase_data_seek()</a> , <a href="#">sybase_fetch_array()</a> , <a href="#">sybase_fetch_field()</a> , <a href="#">sybase_fetch_object()</a> , <a href="#">sybase_fetch_row()</a> , <a href="#">sybase_field_seek()</a> , <a href="#">sybase_num_fields()</a> , <a href="#">sybase_num_rows()</a> , <a href="#">sybase_result()</a>	<a href="#">sybase_free_result()</a>	Sybase result using CT library
sysvsem	<a href="#">sem_get()</a>	<a href="#">sem_acquire()</a>	<a href="#">sem_release()</a>	System V Semaphore
sysvshm	<a href="#">shm_attach()</a>	<a href="#">shm_remove()</a> , <a href="#">shm_put_var()</a> , <a href="#">shm_get_var()</a> , <a href="#">shm_remove_var()</a>	<a href="#">shm_detach()</a>	System V Shared Memory
wddx	<a href="#">wddx_packet_start()</a>	<a href="#">wddx_add_vars()</a>	<a href="#">wddx_packet_end()</a>	WDDX packet
xml	<a href="#">xml_parser_create()</a> , <a href="#">xml_parser_create_ns()</a>	<a href="#">xml_set_object()</a> , <a href="#">xml_set_element_handler()</a> , <a href="#">xml_set_character_data_handler()</a> , <a href="#">xml_set_processing_instruction_handler()</a> , <a href="#">xml_set_default_handler()</a> , <a href="#">xml_set_unparsed_entity_decl_handler()</a> , <a href="#">xml_set_notation_decl_handler()</a> , <a href="#">xml_set_external_entity_decl_handler()</a>	<a href="#">xml_parser_free()</a>	XML parser

		<a href="#">ty_ref_handler()</a> , <a href="#">xml_parse()</a> , <a href="#">xml_get_error_code()</a> , <a href="#">xml_error_string()</a> , <a href="#">xml_get_current_line_number()</a> , <a href="#">xml_get_current_column_number()</a> , <a href="#">xml_get_current_byte_index()</a> , <a href="#">xml_parse_into_struct()</a> , <a href="#">xml_parser_set_option()</a> , <a href="#">xml_parser_get_option()</a>		
zlib	<a href="#">gzopen()</a>	<a href="#">gzeof()</a> , <a href="#">gzgetc()</a> , <a href="#">gzgets()</a> , <a href="#">gzgetss()</a> , <a href="#">gzpassthru()</a> , <a href="#">gzputs()</a> , <a href="#">gzread()</a> , <a href="#">gzrewind()</a> , <a href="#">gzseek()</a> , <a href="#">gztell()</a> , <a href="#">gzwrite()</a>	<a href="#">gzclose()</a>	gz-compressed file

# List of Supported Protocols/Wrappers

The following is a list of the various URL style protocols that PHP has built-in for use with the filesystem functions such as [fopen\(\)](#) and [copy\(\)](#). In addition to these wrappers, as of PHP 4.3.0, you can write your own wrappers using PHP script and [stream\\_wrapper\\_register\(\)](#).

List of context options is available in the chapter [Context options and parameters](#).

## Filesystem

All versions of PHP. Explicitly using *file://* since PHP 5.0.0.

- */path/to/file.ext*
- *relative/path/to/file.ext*
- *fileInCwd.ext*
- *C:/path/to/winfile.ext*
- *C:\path\to\winfile.ext*
- *\\smbserver\share\path\to\winfile.ext*
- *file:///path/to/file.ext*

*Filesystem* is the default wrapper used with PHP and represents the local filesystem. When a relative path is specified (a path which does not begin with /, \, \\, or a Windows drive letter) the path provided will be applied against the current working directory. In many cases this is the directory in which the script resides unless it has been changed. Using the CLI sapi, this defaults to the directory from which the script was called.

With some functions, such as [fopen\(\)](#) and [file\\_get\\_contents\(\)](#), *include\_path* may be optionally searched for relative paths as well.

## Wrapper Summary

Attribute	Supported
Restricted by <a href="#">allow_url_fopen</a>	No
Allows Reading	Yes
Allows Writing	Yes
Allows Appending	Yes

Allows Simultaneous Reading and Writing	Yes
Supports <a href="#">stat()</a>	Yes
Supports <a href="#">unlink()</a>	Yes
Supports <a href="#">rename()</a>	Yes
Supports <a href="#">mkdir()</a>	Yes
Supports <a href="#">rmdir()</a>	Yes

## HTTP and HTTPS

PHP 4, PHP 5, PHP 6. [https://](#) since PHP 4.3.0

- [http://example.com](#)
- [http://example.com/file.php?var1=val1&var2=val2](#)
- [http://user:password@example.com](#)
- [https://example.com](#)
- [https://example.com/file.php?var1=val1&var2=val2](#)
- [https://user:password@example.com](#)

Allows read-only access to files/resources via HTTP 1.0, using the HTTP GET method. A *Host:* header is sent with the request to handle name-based virtual hosts. If you have configured a [user\\_agent](#) string using your ini file or the stream context, it will also be included in the request.

### Warning

When using SSL, Microsoft IIS will violate the protocol by closing the connection without sending a *close\_notify* indicator. PHP will report this as "SSL: Fatal Protocol Error" when you reach the end of the data. To work around this, the value of [error\\_reporting](#) should be lowered to a level that does not include warnings. PHP 4.3.7 and higher can detect buggy IIS server software when you open the stream using the [https://](#) wrapper and will suppress the warning. When using [fsockopen\(\)](#) to create an [ssl://](#) socket, the developer is responsible for detecting and suppressing this warning.

Redirects have been supported since PHP 4.0.5; if you are using an earlier version you will need to include trailing slashes in your URLs. If it's important to know the URL of the resource where your document came from (after all redirects have been processed), you'll need to process the series of response headers returned by the stream.

```

<?php
$url = 'http://www.example.com/redirecting_page.php';

$fp = fopen($url, 'r');

/* Prior to PHP 4.3.0 use $http_response_header
   instead of stream_get_meta_data() */
$meta_data = stream_get_meta_data($fp);
foreach($meta_data['wrapper_data'] as $response) {

    /* Were we redirected? */
    if (substr(strtolower($response), 0, 10) == 'location: ') {
        /* update $url with where we were redirected to */
        $url = substr($response, 18);
    }
}

?>

```

The stream allows access to the *body* of the resource; the headers are stored in the `$http_response_header` variable. Since PHP 4.3.0, the headers are available using [stream\\_get\\_meta\\_data\(\)](#).

HTTP connections are read-only; you cannot write data or copy files to an HTTP resource.

Note
HTTPS is supported starting from PHP 4.3.0, if you have compiled in support for OpenSSL.

## Wrapper Summary

Attribute	Supported
Restricted by <a href="#">allow_url_fopen</a>	Yes
Allows Reading	Yes
Allows Writing	No
Allows Appending	No
Allows Simultaneous Reading and Writing	N/A
Supports <a href="#">stat()</a>	No
Supports <a href="#">unlink()</a>	No
Supports <a href="#">rename()</a>	No

Supports <a href="#">mkdir()</a>	No
Supports <a href="#">rmdir()</a>	No

Custom headers may be sent with an HTTP request prior to version 5 by taking advantage of a side-effect in the handling of the *user\_agent* INI setting. Set *user\_agent* to any valid string (such as the default *PHP/version* setting) followed by a carriage-return/line-feed pair and any additional headers. This method works in PHP 4 and all later versions.

#### Example #20 - Sending custom headers with an HTTP request

```
<?php
ini_set('user_agent', "PHP\r\nX-MyCustomHeader: Foo");

$fp = fopen('http://www.example.com/index.php', 'r');
?>
```

Results in the following request being sent:

```
GET /index.php HTTP/1.0
Host: www.example.com
User-Agent: PHP
X-MyCustomHeader: Foo
```

## FTP and FTPS

PHP 4, PHP 5, PHP 6. *ftp://* since PHP 4.3.0

- *ftp://example.com/pub/file.txt*
- *ftp://user:password@example.com/pub/file.txt*
- *ftps://example.com/pub/file.txt*
- *ftps://user:password@example.com/pub/file.txt*

Allows read access to existing files and creation of new files via FTP. If the server does not support passive mode ftp, the connection will fail.

You can open files for either reading or writing, but not both simultaneously. If the remote file already exists on the ftp server and you attempt to open it for writing but have not specified the context option *overwrite*, the connection will fail. If you need to overwrite existing files over ftp, specify the *overwrite* option in the context and open the file for writing. Alternatively, you can use the [FTP extension](#).



<b>Note</b>
<b>Appending</b>  As of PHP 5.0.0 files may be appended via the <i>ftp://</i> URL wrapper. In prior versions, attempting to append to a file via <i>ftp://</i> will result in failure.

*ftps://* was introduced in PHP 4.3.0. It is the same as *ftp://*, but attempts to negotiate a secure connection with the ftp server. If the server does not support SSL, then the connection falls back to regular unencrypted ftp.

<b>Note</b>
FTPS is supported starting from PHP 4.3.0, if you have compiled in support for OpenSSL.

## Wrapper Summary

Attribute	PHP 4	PHP 5
Restricted by <a href="#">allow_url_fopen</a>	Yes	Yes
Allows Reading	Yes	Yes
Allows Writing	Yes (new files only)	Yes (new files/existing files with <i>overwrite</i> )
Allows Appending	No	Yes
Allows Simultaneous Reading and Writing	No	No
Supports <a href="#">stat()</a>	No	As of PHP 5.0.0: <a href="#">filesize()</a> , <a href="#">filetype()</a> , <a href="#">file_exists()</a> , <a href="#">is_file()</a> , and <a href="#">is_dir()</a> elements only. As of PHP 5.1.0: <a href="#">filemtime()</a> .
Supports <a href="#">unlink()</a>	No	Yes
Supports <a href="#">rename()</a>	No	Yes
Supports <a href="#">mkdir()</a>	No	Yes
Supports <a href="#">rmdir()</a>	No	Yes

## PHP input/output streams

- `php://stdin`
- `php://stdout`
- `php://stderr`
- `php://output`
- `php://input`
- `php://filter` (available since PHP 5.0.0)
- `php://memory` (available since PHP 5.1.0)
- `php://temp` (available since PHP 5.1.0)

`php://stdin`, `php://stdout` and `php://stderr` allow access to the corresponding input or output stream of the PHP process. The stream references a duplicate file descriptor, so if you open `php://stdin` and later close it, you close only your copy of the descriptor--the actual stream referenced by **STDIN** is unaffected. Note that PHP exhibited buggy behavior in this regard until PHP 5.2.1. It is recommended that you simply use the constants **STDIN**, **STDOUT** and **STDERR** instead of manually opening streams using these wrappers.

`php://output` allows you to write to the output buffer mechanism in the same way as `print()` and `echo()`.

`php://input` allows you to read raw POST data. It is a less memory intensive alternative to `$HTTP_RAW_POST_DATA` and does not need any special `php.ini` directives. `php://input` is not available with `enctype="multipart/form-data"`.

`php://stdin` and `php://input` are read-only, whereas `php://stdout`, `php://stderr` and `php://output` are write-only.

`php://filter` is a kind of meta-wrapper designed to permit the application of filters to a stream at the time of opening. This is useful with all-in-one file functions such as `readfile()`, `file()`, and `file_get_contents()` where there is otherwise no opportunity to apply a filter to the stream prior the contents being read.

The `php://filter` target takes the following 'parameters' as parts of its 'path'.

- `/resource=<stream to be filtered>` ( *required* ) This parameter must be located at the end of your `php://filter` specification and should point to the stream which you want filtered.

```
<?php
/* This is equivalent to simply:
   readfile("http://www.example.com");
   since no filters are actually specified */

readfile("php://filter/resource=http://www.example.com");
?>
```

- */read=<filter list to apply to read chain> ( optional )* This parameter takes one or more filternames separated by the pipe character |.

```
<?php
/* This will output the contents of
   www.example.com entirely in uppercase */
readfile("php://filter/read=string.toupper/resource=http://www.example.com")
;

/* This will do the same as above
   but will also ROT13 encode it */
readfile("php://filter/read=string.toupper|string.rot13/resource=http://www.
example.com");
?>
```

- */write=<filter list to apply to write chain> ( optional )* This parameter takes one or more filternames separated by the pipe character |.

```
<?php
/* This will filter the string "Hello World"
   through the rot13 filter, then write to
   example.txt in the current directory */
file_put_contents("php://filter/write=string.rot13/resource=example.txt", "He
llo World");
?>
```

- */<filter list to apply to both chains> ( optional )* Any filter lists which are not prefixed specifically by *read=* or *write=* will be applied to both the read and write chains (as appropriate).

The *php://memory* wrapper stores the data in the memory. *php://temp* behaves similarly, but uses a temporary file for storing the data when a certain memory limit is reached (the default is 2 MB).

The *php://temp* wrapper takes the following 'parameters' as parts of its 'path':

- */maxmemory:<number of bytes> ( optional )*. This parameter allows changing the default value for the memory limit (when the data is moved to a temporary file).

```
<?php
$fiveMBs = 5 * 1024 * 1024;
$fp = fopen("php://temp/maxmemory:$fiveMBs", 'r+');

fputs($fp, "hello\n");

// read what we have written
rewind($fp);
echo stream_get_contents($fp);
?>
```

## Wrapper Summary (For *php://filter*, refer to summary of wrapper being filtered.)

Attribute	Supported
Restricted by <a href="#">allow_url_fopen</a>	No
Restricted by <a href="#">allow_url_include</a>	<i>php://input</i> , <i>php://stdin</i> , <i>php://memory</i> and <i>php://temp</i> only.
Allows Reading	<i>php://stdin</i> , <i>php://input</i> , <i>php://memory</i> and <i>php://temp</i> only.
Allows Writing	<i>php://stdout</i> , <i>php://stderr</i> , <i>php://output</i> , <i>php://memory</i> and <i>php://temp</i> only.
Allows Appending	<i>php://stdout</i> , <i>php://stderr</i> , <i>php://output</i> , <i>php://memory</i> and <i>php://temp</i> only. (Equivalent to writing)
Allows Simultaneous Reading and Writing	<i>php://memory</i> and <i>php://temp</i> only.
Supports <a href="#">stat()</a>	<i>php://memory</i> and <i>php://temp</i> only.
Supports <a href="#">unlink()</a>	No
Supports <a href="#">rename()</a>	No
Supports <a href="#">mkdir()</a>	No
Supports <a href="#">rmdir()</a>	No

## Compression Streams

*zlib*: PHP 4.0.4 - PHP 4.2.3 (systems with fopencookie only)

*compress.zlib://* and *compress.bzip2://* PHP 4.3.0 and up

- *zlib*:
- *compress.zlib://*
- *compress.bzip2://*

*zlib*: works like [gzopen\(\)](#), except that the stream can be used with [fread\(\)](#) and the other filesystem functions. This is deprecated as of PHP 4.3.0 due to ambiguities with filenames containing ':' characters; use *compress.zlib://* instead.

*compress.zlib://* and *compress.bzip2://* are equivalent to [gzopen\(\)](#) and [bzopen\(\)](#)

respectively, and operate even on systems that do not support fopencookie.

## Wrapper Summary

Attribute	Supported
Restricted by <a href="#">allow_url_fopen</a>	No
Allows Reading	Yes
Allows Writing	Yes
Allows Appending	Yes
Allows Simultaneous Reading and Writing	No
Supports <a href="#">stat()</a>	No, use the normal <i>file://</i> wrapper to stat compressed files.
Supports <a href="#">unlink()</a>	No, use the normal <i>file://</i> wrapper to unlink compressed files.
Supports <a href="#">rename()</a>	No
Supports <a href="#">mkdir()</a>	No
Supports <a href="#">rmdir()</a>	No

[ZIP extension](#) registers *zip:* wrapper.

## Data (RFC 2397)

The *data:* ( [» RFC 2397](#) ) stream wrapper is available since PHP 5.2.0.

### Example #21 - Print data:// contents

```
<?php
// prints "I love PHP"
echo file_get_contents('data://text/plain;base64,SSBsb3ZlIFBIUAo=' );
?>
```

### Example #22 - Fetch the media type

```
<?php
```

```

$fp = fopen('data://text/plain;base64','', 'r');
$meta = stream_get_meta_data($fp);

// prints "text/plain"
echo $meta['mediatype'];
?>

```

## Wrapper Summary

Attribute	Supported
Restricted by <a href="#">allow_url_fopen</a>	No
Restricted by <a href="#">allow_url_include</a>	Yes
Allows Reading	Yes
Allows Writing	No
Allows Appending	No
Allows Simultaneous Reading and Writing	No
Supports <a href="#">stat()</a>	No
Supports <a href="#">unlink()</a>	No
Supports <a href="#">rename()</a>	No
Supports <a href="#">mkdir()</a>	No
Supports <a href="#">rmdir()</a>	No

## Glob

The *glob:* stream wrapper is available since PHP 5.3.0.

### Example #23 - Basic usage

```

<?php
// Loop over all *.php files in ext/spl/examples/ directory
// and print the filename and its size
$it = new DirectoryIterator("glob://ext/spl/examples/*.php");
foreach($it as $f) {
    printf("%s: %.1FK\n", $f->getFilename(), $f->getSize()/1024);
}
?>

```

```
tree.php: 1.0K
findregex.php: 0.6K
findfile.php: 0.7K
dba_dump.php: 0.9K
nocvmdir.php: 1.1K
phar_from_dir.php: 1.0K
ini_groups.php: 0.9K
directorytree.php: 0.9K
dba_array.php: 1.1K
class_tree.php: 1.8K
```

## Wrapper Summary

Attribute	Supported
Restricted by <a href="#">allow_url_fopen</a>	No
Restricted by <a href="#">allow_url_include</a>	No
Allows Reading	No
Allows Writing	No
Allows Appending	No
Allows Simultaneous Reading and Writing	No
Supports <a href="#">stat()</a>	No
Supports <a href="#">unlink()</a>	No
Supports <a href="#">rename()</a>	No
Supports <a href="#">mkdir()</a>	No
Supports <a href="#">rmdir()</a>	No

## Secure Shell 2

*ssh2.shell:// ssh2.exec:// ssh2.tunnel:// ssh2.sftp:// ssh2.scp://* PHP 4.3.0 and up (PECL)

- *ssh2.shell://user:pass@example.com:22/xterm*
- *ssh2.exec://user:pass@example.com:22/usr/local/bin/somecmd*
- *ssh2.tunnel://user:pass@example.com:22/192.168.0.1:14*

- `ssh2.sftp://user:pass@example.com:22/path/to/filename`

## Note

### This wrapper is not enabled by default

In order to use the `ssh2.*://` wrappers you must install the » [SSH2](#) extension available from » [PECL](#).

In addition to accepting traditional URI login details, the `ssh2` wrappers will also reuse open connections by passing the connection resource in the host portion of the URL.

### Example #24 - Opening a stream from an active connection

```
<?php
$session = ssh2_connect('example.com', 22);
ssh2_auth_pubkey_file($session, 'username',
    '/home/username/.ssh/id_rsa.pub',
                                '/home/username/.ssh/id_rsa',
    'secret');
$stream = fopen("ssh2.tunnel://$session/remote.example.com:1234", 'r');
?>
```

## Wrapper Summary

Attribute	ssh2.shell	ssh2.exec	ssh2.tunnel	ssh2.sftp	ssh2.scp
Restricted by <a href="#">allow_url_fopen</a>	Yes	Yes	Yes	Yes	Yes
Allows Reading	Yes	Yes	Yes	Yes	Yes
Allows Writing	Yes	Yes	Yes	Yes	No
Allows Appending	No	No	No	Yes (When supported by server)	No
Allows Simultaneous Reading and Writing	Yes	Yes	Yes	Yes	No
Supports	No	No	No	Yes	No



<a href="#">stat()</a>					
Supports <a href="#">unlink()</a>	No	No	No	Yes	No
Supports <a href="#">rename()</a>	No	No	No	Yes	No
Supports <a href="#">mkdir()</a>	No	No	No	Yes	No
Supports <a href="#">rmdir()</a>	No	No	No	Yes	No

### Context options

Name	Usage	Default
<i>session</i>	Preconnected ssh2 resource to be reused	
<i>sftp</i>	Preallocated sftp resource to be reused	
<i>methods</i>	Key exchange, hostkey, cipher, compression, and MAC methods to use	
<i>callbacks</i>		
<i>username</i>	Username to connect as	
<i>password</i>	Password to use with password authentication	
<i>pubkey_file</i>	Name of public key file to use for authentication	
<i>privkey_file</i>	Name of private key file to use for authentication	
<i>env</i>	Associate array of environment variables to set	
<i>term</i>	Terminal emulation type to request when allocating a pty	
<i>term_width</i>	Width of terminal requested	

	when allocating a pty	
<i>term_height</i>	Height of terminal requested when allocating a pty	
<i>term_units</i>	Units to use with <i>term_width</i> and <i>term_height</i>	<b>SSH2_TERM_UNIT_CHARS</b>

## Audio Streams

*ogg://* PHP 4.3.0 and up (PECL)

- *ogg://soundfile.ogg*
- *ogg:///path/to/soundfile.ogg*
- *ogg://http://www.example.com/path/to/soundstream.ogg*

<b>Note</b>
<p><b>This wrapper is not enabled by default</b></p> <p>In order to use the <i>ogg://</i> wrapper you must install the <a href="#">» OGG/Vorbis</a> extension available from <a href="#">» PECL</a>.</p>

Files opened for reading via the *ogg://* wrapper are treated as compressed audio encoded using the OGG/Vorbis codec. Similarly, files opened for writing or appending via the *ogg://* wrapper are written as compressed audio data. [stream\\_get\\_meta\\_data\(\)](#), when used on an OGG/Vorbis file opened for reading will return various details about the stream including the *vendor* tag, any included *comments*, the number of *channels*, the sampling *rate*, and the encoding rate range described by: *bitrate\_lower*, *bitrate\_upper*, *bitrate\_nominal*, and *bitrate\_window*.

## Wrapper Summary

Attribute	Supported
Restricted by <a href="#">allow_url_fopen</a>	No
Allows Reading	Yes
Allows Writing	Yes
Allows Appending	Yes

Allows Simultaneous Reading and Writing	No
Supports <a href="#">stat()</a>	No
Supports <a href="#">unlink()</a>	No
Supports <a href="#">rename()</a>	No
Supports <a href="#">mkdir()</a>	No
Supports <a href="#">rmdir()</a>	No

### Context options

Name	Usage	Default	Mode
<i>pcm_mode</i>	PCM encoding to apply while reading, one of: <b>OGGVORBIS_PCM_U8</b> , <b>OGGVORBIS_PCM_S8</b> , <b>OGGVORBIS_PCM_U16_BE</b> , <b>OGGVORBIS_PCM_S16_BE</b> , <b>OGGVORBIS_PCM_U16_LE</b> , and <b>OGGVORBIS_PCM_S16_LE</b> . (8 vs 16 bit, signed or unsigned, big or little endian)	OGGVORBIS_PCM_S16_LE	Read
<i>rate</i>	Sampling rate of input data, expressed in Hz	44100	Write/Append
<i>bitrate</i>	When given as an integer, the fixed bitrate at which to encode. (16000 to 131072) When given as a float, the variable bitrate quality to use. (-1.0 to 1.0)	128000	Write/Append
<i>channels</i>	The number of audio channels to encode, typically 1 (Mono), or 2 (Stereo). May range as high as 16.	2	Write/Append
<i>comments</i>	An array of string values to encode into the track header.		Write/Append

## Process Interaction Streams

*expect://* PHP 4.3.0 and up (PECL)

- *expect://command*

### Note

#### This wrapper is not enabled by default

In order to use the *expect://* wrapper you must install the » [Expect](#) extension available from » [PECL](#).

Streams opened via the *expect://* wrapper provide access to process'es stdio, stdout and stderr via PTY.

### Wrapper Summary

Attribute	Supported
Restricted by <a href="#">allow_url_fopen</a>	No
Allows Reading	Yes
Allows Writing	Yes
Allows Appending	Yes
Allows Simultaneous Reading and Writing	No
Supports <a href="#">stat()</a>	No
Supports <a href="#">unlink()</a>	No
Supports <a href="#">rename()</a>	No
Supports <a href="#">mkdir()</a>	No
Supports <a href="#">rmdir()</a>	No

# List of Available Filters

The following is a list of a few built-in stream filters for use with [stream\\_filter\\_append\(\)](#). Your version of PHP may have more filters (or fewer) than those listed here.

It is worth noting a slight asymmetry between [stream\\_filter\\_append\(\)](#) and [stream\\_filter\\_prepend\(\)](#). Every PHP stream contains a small *read buffer* where it stores blocks of data retrieved from the filesystem or other resource in order to process data in the most efficient manner. As soon as data is pulled from the resource into the stream's internal buffer, it is immediately processed through any attached filters whether the PHP application is actually ready for the data or not. If data is sitting in the read buffer when a filter is *appended*, this data will be immediately processed through that filter making the fact that it was sitting in the buffer seem transparent. However, if data is sitting in the read buffer when a filter is *prepended*, this data will *NOT* be processed through that filter. It will instead wait until the next block of data is retrieved from the resource.

For a list of filters installed in your version of PHP use [stream\\_get\\_filters\(\)](#).

## String Filters

Each of these filters does precisely what their name implies and correspond to the behavior of a built-in php string handling function. For more information on a given filter, refer to the manual page for the corresponding function.

*string.rot13* (since PHP 4.3.0) Use of this filter is equivalent to processing all stream data through the [str\\_rot13\(\)](#) function.

### Example #25 - string.rot13

```
<?php
$fp = fopen('php://output', 'w');
stream_filter_append($fp, 'string.rot13');
fwrite($fp, "This is a test.\n");
/* Outputs:  Guvf vf n grfg.    */
?>
```

*string.toupper* (since PHP 5.0.0) Use of this filter is equivalent to processing all stream data through the [strtoupper\(\)](#) function.

### Example #26 - string.toupper

```
<?php
$fp = fopen('php://output', 'w');
stream_filter_append($fp, 'string.toupper');
fwrite($fp, "This is a test.\n");
/* Outputs:  THIS IS A TEST.    */
?>
```

*string.tolower* (since PHP 5.0.0) Use of this filter is equivalent to processing all stream data through the [strtolower\(\)](#) function.

#### Example #27 - string.tolower

```
<?php
$fp = fopen('php://output', 'w');
stream_filter_append($fp, 'string.tolower');
fwrite($fp, "This is a test.\n");
/* Outputs:  this is a test.  */
?>
```

*string.strip\_tags* (since PHP 5.0.0) Use of this filter is equivalent to processing all stream data through the [strip\\_tags\(\)](#) function. It accepts parameters in one of two forms: Either as a string containing a list of tags similar to the second parameter of the [strip\\_tags\(\)](#) function, or as an array of tag names.

#### Example #28 - string.strip\_tags

```
<?php
$fp = fopen('php://output', 'w');
stream_filter_append($fp, 'string.strip_tags', STREAM_FILTER_WRITE,
"<b><i><u>");
fwrite($fp, "<b>bolded text</b> enlarged to a <h1>level 1 heading</h1>\n");
fclose($fp);
/* Outputs:  <b>bolded text</b> enlarged to a level 1 heading  */

$fp = fopen('php://output', 'w');
stream_filter_append($fp, 'string.strip_tags', STREAM_FILTER_WRITE,
array('b','i','u'));
fwrite($fp, "<b>bolded text</b> enlarged to a <h1>level 1 heading</h1>\n");
fclose($fp);
/* Outputs:  <b>bolded text</b> enlarged to a level 1 heading  */
?>
```

## Conversion Filters

Like the *string.\** filters, the *convert.\** filters perform actions similar to their names. The convert filters were added with PHP 5.0.0. For more information on a given filter, refer to the manual page for the corresponding function.

*convert.base64-encode* and *convert.base64-decode* Use of these filters are equivalent to processing all stream data through the [base64\\_encode\(\)](#) and [base64\\_decode\(\)](#) functions respectively. *convert.base64-encode* supports parameters given as an associative array. If *line-length* is given, the base64 output will be split into chunks of *line-length* characters each. If *line-break-chars* is given, each chunk will be delimited by the characters given. These parameters give the same effect as using [base64\\_encode\(\)](#) with [chunk\\_split\(\)](#).

### Example #29 - convert.base64-encode & convert.base64-decode

```
<?php
$fp = fopen('php://output', 'w');
stream_filter_append($fp, 'convert.base64-encode');
fwrite($fp, "This is a test.\n");
fclose($fp);
/* Outputs:  VGhpcyBpcyBhIHRlc3QuCg== */

$params = array('line-length' => 8, 'line-break-chars' => "\r\n");
$fp = fopen('php://output', 'w');
stream_filter_append($fp, 'convert.base64-encode', STREAM_FILTER_WRITE,
$params);
fwrite($fp, "This is a test.\n");
fclose($fp);
/* Outputs:  VGhpcyBp
           :  cyBhIHRl
           :  c3QuCg== */

$fp = fopen('php://output', 'w');
stream_filter_append($fp, 'convert.base64-decode');
fwrite($fp, "VGhpcyBpcyBhIHRlc3QuCg==");
fclose($fp);
/* Outputs:  This is a test. */
?>
```

*convert.quoted-printable-encode* and *convert.quoted-printable-decode* Use of the decode version of this filter is equivalent to processing all stream data through the [quoted\\_printable\\_decode\(\)](#) functions. There is no function equivalent to *convert.quoted-printable-encode*. *convert.quoted-printable-encode* supports parameters given as an associative array. In addition to the parameters supported by *convert.base64-encode*, *convert.quoted-printable-encode* also supports boolean arguments *binary* and *force-encode-first*. *convert.base64-decode* only supports the *line-break-chars* parameter as a type-hint for stripping from the encoded payload.

### Example #30 - convert.quoted-printable-encode & convert.quoted-printable-decode

```
<?php
$fp = fopen('php://output', 'w');
stream_filter_append($fp, 'convert.quoted-printable-encode');
fwrite($fp, "This is a test.\n");
/* Outputs:  =This is a test.=0A */
?>
```

## Compression Filters

While the [Compression Wrappers](#) provide a way of creating gzip and bz2 compatible files on the local filesystem, they do not provide a means for generalized compression over network streams, nor do they provide a means to begin with a non-compressed stream and transition to a compressed one. For this, a compression filter may be applied to any

stream resource at any time.

#### Note

Compression filters do *not* generate headers and trailers used by command line utilities such as *gzip*. They only compress and decompress the payload portions of compressed data streams.

*zlib.deflate* (compression) and *zlib.inflate* (decompression) are implementations of the compression methods described in [» RFC 1951](#). The *deflate* filter takes up to three parameters passed as an associative array. *level* describes the compression strength to use (1-9). Higher numbers will generally yield smaller payloads at the cost of additional processing time. Two special compression levels also exist: 0 (for no compression at all), and -1 (zlib internal default -- currently 6). *window* is the base-2 log of the compression loopback window size. Higher values (up to 15 -- 32768 bytes) yield better compression at a cost of memory, while lower values (down to 9 -- 512 bytes) yield worse compression in a smaller memory footprint. Default *window* size is currently **15**. *memory* is a scale indicating how much work memory should be allocated. Valid values range from 1 (minimal allocation) to 9 (maximum allocation). This memory allocation affects speed only and does not impact the size of the generated payload.

#### Note

Because compression level is the most commonly used parameter, it may be alternatively provided as a simple integer value (rather than an array element).

*zlib.\** compression filters are available with PHP as of version 5.1.0 if [zlib](#) support is enabled. They are also available as a backport in version 5.0.x by installing the [» zlib filter](#) package from [» PECL](#). These filters are *not* available for PHP 4.

#### Example #31 - *zlib.deflate* and *zlib.inflate*

```
<?php
$params = array('level' => 6, 'window' => 15, 'memory' => 9);

$original_text = "This is a test.\nThis is only a test.\nThis is not an
important string.\n";
echo "The original text is " . strlen($original_text) . " characters
long.\n";

$fp = fopen('test.deflated', 'w');
stream_filter_append($fp, 'zlib.deflate', STREAM_FILTER_WRITE, $params);
fwrite($fp, $original_text);
fclose($fp);

echo "The compressed file is " . filesize('test.deflated') . " bytes
long.\n";
echo "The original text was:\n";
/* Use readfile and zlib.inflate to decompress on the fly */
```



```

readfile('php://filter/zlib.inflate/resource=test.deflated');

/* Generates output:

The original text is 70 characters long.
The compressed file is 56 bytes long.
The original text was:
This is a test.
This is only a test.
This is not an important string.

*/
?>

```

### Example #32 - *zlib.deflate* simple

```

<?php
$original_text = "This is a test.\nThis is only a test.\nThis is not an
important string.\n";
echo "The original text is " . strlen($original_text) . " characters
long.\n";

$fp = fopen('test.deflated', 'w');
/* Here "6" indicates compression level 6 */
stream_filter_append($fp, 'zlib.deflate', STREAM_FILTER_WRITE, 6);
fwrite($fp, $original_text);
fclose($fp);

echo "The compressed file is " . filesize('test.deflated') . " bytes
long.\n";

/* Generates output:

The original text is 70 characters long.
The compressed file is 56 bytes long.

*/
?>

```

*bzip2.compress* and *bzip2.decompress* work in the same manner as the *zlib* filters described above. The *bzip2.compress* filter accepts up to two parameters given as elements of an associative array: *blocks* is an integer value from 1 to 9 specifying the number of 100kbyte blocks of memory to allocate for workspace. *work* is also an integer value ranging from 0 to 250 indicating how much effort to expend using the normal compression method before falling back on a slower, but more reliable method. Tuning this parameter effects only compression speed. Neither size of compressed output nor memory usage are changed by this setting. A work factor of 0 instructs the *bzip* library to use an internal default. The *bzip2.decompress* filter only accepts one parameter, which can be passed as either an ordinary boolean value, or as the *small* element of an associative array. *small*, when set to a **TRUE** value, instructs the *bzip* library to perform decompression in a minimal memory footprint at the cost of speed.

*bzip2.\** compression filters are available with PHP as of version 5.1.0 if [bz2](#) support is enabled. They are also available as a backport in version 5.0.x by installing the [» bz2\\_filter](#)

package from [» PECL](#). These filters are *not* available for PHP 4.

### Example #33 - *bzip2.compress* and *bzip2.decompress*

```
<?php
$param = array('blocks' => 9, 'work' => 0);

echo "The original file is " . filesize('LICENSE') . " bytes long.\n";

$fp = fopen('LICENSE.compressed', 'w');
stream_filter_append($fp, 'bzip2.compress', STREAM_FILTER_WRITE, $param);
fwrite($fp, file_get_contents('LICENSE'));
fclose($fp);

echo "The compressed file is " . filesize('LICENSE.compressed') . " bytes
long.\n";

/* Generates output:

The original text is 3288 characters long.
The compressed file is 1488 bytes long.

*/
?>
```

## Encryption Filters

*mcrypt.\** and *mdecrypt.\** provide symmetric encryption and decryption using libmcrypt. Both sets of filters support the same algorithms available to [mcrypt extension](#) in the form of *mcrypt.ciphername* where *ciphername* is the name of the cipher as it would be passed to [mcrypt\\_module\\_open\(\)](#). The following five filter parameters are also available:

### mcrypt filter parameters

Parameter	Required?	Default	Sample Values
mode	Optional	cbc	cbc, cfb, ecb, nofb, ofb, stream
algorithms_dir	Optional	ini_get('mcrypt.algorithms_dir')	Location of algorithms modules
modes_dir	Optional	ini_get('mcrypt.modes_dir')	Location of modes modules
iv	Required	N/A	Typically 8, 16, or 32 bytes of binary data. Depends on cipher

key	Required	N/A	Typically 8, 16, or 32 bytes of binary data. Depends on cipher
-----	----------	-----	--

### Example #34 - Encrypting file output using 3DES

```
<?php
$passphrase = 'My secret';

/* Turn a human readable passphrase
 * into a reproducible iv/key pair
 */
$iv = substr(md5('iv'.$passphrase, true), 0, 8);
$key = substr(md5('pass1'.$passphrase, true) .
              md5('pass2'.$passphrase, true), 0, 24);
$options = array('iv'=>$iv, 'key'=>$key);

$fp = fopen('secret-file.enc', 'wb');
stream_filter_append($fp, 'mcrypt.tripledes', STREAM_FILTER_WRITE, $options);
fwrite($fp, 'Secret secret secret data');
fclose($fp);
?>
```

### Example #35 - Reading an encrypted file

```
<?php
$passphrase = 'My secret';

/* Turn a human readable passphrase
 * into a reproducible iv/key pair
 */
$iv = substr(md5('iv'.$passphrase, true), 0, 8);
$key = substr(md5('pass1'.$passphrase, true) .
              md5('pass2'.$passphrase, true), 0, 24);
$options = array('iv'=>$iv, 'key'=>$key);

$fp = fopen('secret-file.enc', 'rb');
stream_filter_append($fp, 'mdecrypt.tripledes', STREAM_FILTER_READ, $options);
$data = rtrim(stream_get_contents($fp));
fclose($fp);

echo $data;
?>
```

# List of Supported Socket Transports

The following is a list of the various URL style socket transports that PHP has built-in for use with the streams based socket functions such as [fsockopen\(\)](#), and [stream\\_socket\\_client\(\)](#). These transports do *not* apply to the [Sockets Extension](#).

For a list of transports installed in your version of PHP use [stream\\_get\\_transports\(\)](#).

## Internet Domain: TCP, UDP, SSL, and TLS

PHP 4, PHP 5, PHP 6. [ssl://](#) & [tls://](#) since PHP 4.3.0 [sslv2://](#) & [sslv3://](#) since PHP 5.0.2

Note
If no transport is specified, <a href="#">tcp://</a> will be assumed.

- [127.0.0.1](#)
- [fe80::1](#)
- [www.example.com](#)
- [tcp://127.0.0.1](#)
- [tcp://fe80::1](#)
- [tcp://www.example.com](#)
- [udp://www.example.com](#)
- [ssl://www.example.com](#)
- [sslv2://www.example.com](#)
- [sslv3://www.example.com](#)
- [tls://www.example.com](#)

Internet Domain sockets expect a port number in addition to a target address. In the case of [fsockopen\(\)](#) this is specified in a second parameter and therefore does not impact the formatting of transport URL. With [stream\\_socket\\_client\(\)](#) and related functions as with traditional URLs however, the port number is specified as a suffix of the transport URL delimited by a colon.

- [tcp://127.0.0.1:80](#)
- [tcp://\[fe80::1\]:80](#)
- [tcp://www.example.com:80](#)

## Note

### IPv6 numeric addresses with port numbers

In the second example above, while the IPv4 and hostname examples are left untouched apart from the addition of their colon and portnumber, the IPv6 address is wrapped in square brackets: `[fe80::1]`. This is to distinguish between the colons used in an IPv6 address and the colon used to delimit the portnumber.

The `ssl://` and `tls://` transports (available only when openssl support is compiled into PHP) are extensions of the `tcp://` transport which include SSL encryption. Since PHP 4.3.0 OpenSSL support must be statically compiled into PHP, since PHP 5.0.0 it may be compiled as a module or statically.

`ssl://` will attempt to negotiate an SSL V2, or SSL V3 connection depending on the capabilities and preferences of the remote host. `sslv2://` and `sslv3://` will select the SSL V2 or SSL V3 protocol explicitly.

## Unix Domain: Unix and UDG

`unix://` and `udg://` (`udg://` since PHP 5).

- `unix:///tmp/mysock`
- `udg:///tmp/mysock`

`unix://` provides access to a socket stream connection in the Unix domain. `udg://` provides an alternate transport to a Unix domain socket using the user datagram protocol.

Unix domain sockets, unlike Internet domain sockets, do not expect a port number. In the case of `fsockopen()` the `portno` parameter should be set to 0.

# PHP type comparison tables

The following tables demonstrate behaviors of PHP [types](#) and [comparison operators](#), for both loose and strict comparisons. This supplemental is also related to the manual section on [type juggling](#). Inspiration was provided by various user comments and by the work over at [» BlueShoes](#).

Before utilizing these tables, it's important to understand types and their meanings. For example, "42" is a [string](#) while 42 is an [integer](#). **FALSE** is a [boolean](#) while "false" is a [string](#).

## Note

HTML Forms do not pass integers, floats, or booleans; they pass strings. To find out if a string is numeric, you may use [is\\_numeric\(\)](#).

## Note

Simply doing *if (\$x)* while *\$x* is undefined will generate an error of level **E\_NOTICE**. Instead, consider using [empty\(\)](#) or [isset\(\)](#) and/or initialize your variables.

## Comparisons of *\$x* with PHP functions

Expression	<a href="#">gettype()</a>	<a href="#">empty()</a>	<a href="#">is_null()</a>	<a href="#">isset()</a>	<a href="#">boolean:</a> <i>if(\$x)</i>
<i>\$x = "";</i>	<a href="#">string</a>	TRUE	FALSE	TRUE	FALSE
<i>\$x = null;</i>	<a href="#">NULL</a>	TRUE	TRUE	FALSE	FALSE
<i>var \$x;</i>	<a href="#">NULL</a>	TRUE	TRUE	FALSE	FALSE
<i>\$x</i> is undefined	<a href="#">NULL</a>	TRUE	TRUE	FALSE	FALSE
<i>\$x = array();</i>	<a href="#">array</a>	TRUE	FALSE	TRUE	FALSE
<i>\$x = false;</i>	<a href="#">boolean</a>	TRUE	FALSE	TRUE	FALSE
<i>\$x = true;</i>	<a href="#">boolean</a>	FALSE	FALSE	TRUE	TRUE
<i>\$x = 1;</i>	<a href="#">integer</a>	FALSE	FALSE	TRUE	TRUE
<i>\$x = 42;</i>	<a href="#">integer</a>	FALSE	FALSE	TRUE	TRUE

<code>\$x = 0;</code>	integer	TRUE	FALSE	TRUE	FALSE
<code>\$x = -1;</code>	integer	FALSE	FALSE	TRUE	TRUE
<code>\$x = "1";</code>	string	FALSE	FALSE	TRUE	TRUE
<code>\$x = "0";</code>	string	TRUE	FALSE	TRUE	FALSE
<code>\$x = "-1";</code>	string	FALSE	FALSE	TRUE	TRUE
<code>\$x = "php";</code>	string	FALSE	FALSE	TRUE	TRUE
<code>\$x = "true";</code>	string	FALSE	FALSE	TRUE	TRUE
<code>\$x = "false";</code>	string	FALSE	FALSE	TRUE	TRUE

#### Loose comparisons with ==

	TRUE	FALSE	1	0	-1	"1"	"0"	"-1"	NULL	array()	"php"	""
TRUE	TRUE	FALSE	TRUE	FALSE	TRUE	TRUE	FALSE	TRUE	FALSE	FALSE	TRUE	FALSE
FALSE	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	TRUE	FALSE	TRUE	TRUE	FALSE	TRUE
1	TRUE	FALSE	TRUE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
0	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	TRUE	FALSE	TRUE	FALSE	TRUE	TRUE
-1	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE
"1"	TRUE	FALSE	TRUE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
"0"	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE
"-1"	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE
NULL	FALSE	TRUE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	FALSE	TRUE





[illegible]

# List of Parser Tokens

Various parts of the PHP language are represented internally by types like `T_SR`. PHP outputs identifiers like this one in parse errors, like *"Parse error: unexpected `T_SR`, expecting `'` or `;` in script.php on line 10."*

You're supposed to know what `T_SR` means. For everybody who doesn't know that, here is a table with those identifiers, PHP-syntax and references to the appropriate places in the manual.

## Tokens

Token	Syntax	Reference
<code>T_ABSTRACT</code>	<code>abstract</code>	<a href="#">Class Abstraction</a> (available since PHP 5.0.0)
<code>T_AND_EQUAL</code>	<code>&amp;=</code>	<a href="#">assignment operators</a>
<code>T_ARRAY</code>	<code>array()</code>	<a href="#">array()</a> , <a href="#">array syntax</a>
<code>T_ARRAY_CAST</code>	<code>(array)</code>	<a href="#">type-casting</a>
<code>T_AS</code>	<code>as</code>	<a href="#">foreach</a>
<code>T_BAD_CHARACTER</code>		anything below ASCII 32 except <code>\t</code> (0x09), <code>\n</code> (0x0a) and <code>\r</code> (0x0d)
<code>T_BOOLEAN_AND</code>	<code>&amp;&amp;</code>	<a href="#">logical operators</a>
<code>T_BOOLEAN_OR</code>	<code>  </code>	<a href="#">logical operators</a>
<code>T_BOOL_CAST</code>	<code>(bool)</code> or <code>(boolean)</code>	<a href="#">type-casting</a>
<code>T_BREAK</code>	<code>break</code>	<a href="#">break</a>
<code>T_CASE</code>	<code>case</code>	<a href="#">switch</a>
<code>T_CATCH</code>	<code>catch</code>	<a href="#">Exceptions</a> (available since PHP 5.0.0)
<code>T_CHARACTER</code>		
<code>T_CLASS</code>	<code>class</code>	<a href="#">classes and objects</a>
<code>T_CLASS_C</code>	<code>__CLASS__</code>	<a href="#">magic constants</a> (available since PHP 4.3.0)

T_CLONE	clone	<a href="#">classes and objects</a> (available since PHP 5.0.0)
T_CLOSE_TAG	?> or %>	
T_COMMENT	// or #, and /* */ in PHP 5	<a href="#">comments</a>
T_CONCAT_EQUAL	.=	<a href="#">assignment operators</a>
T_CONST	const	
T_CONSTANT_ENCAPSED_STRING	"foo" or 'bar'	<a href="#">string syntax</a>
T_CONTINUE	continue	
T_CURLY_OPEN		
T_DEC	--	<a href="#">incrementing/decrementing operators</a>
T_DECLARE	declare	<a href="#">declare</a>
T_DEFAULT	default	<a href="#">switch</a>
T_DIR	__DIR__	<a href="#">magic constants</a> (available since PHP 5.3.0)
T_DIV_EQUAL	/=	<a href="#">assignment operators</a>
T_DNUMBER	0.12, etc	<a href="#">floating point numbers</a>
T_DOC_COMMENT	/** */	<a href="#">PHPDoc style comments</a> (available since PHP 5.0.0)
T_DO	do	<a href="#">do..while</a>
T_DOLLAR_OPEN_CURLY_BRACES	\${	<a href="#">complex variable parsed syntax</a>
T_DOUBLE_ARROW	=>	<a href="#">array syntax</a>
T_DOUBLE_CAST	(real), (double) or (float)	<a href="#">type-casting</a>
T_DOUBLE_COLON	::	see <b>T_PAAMAYIM_NEKUDOTAYIM</b> below
T_ECHO	echo	<a href="#">echo()</a>
T_ELSE	else	<a href="#">else</a>

T_ELSEIF	elseif	<a href="#">elseif</a>
T_EMPTY	empty	<a href="#">empty()</a>
T_ENCAPSED_AND_WHITESPACE		
T_ENDDECLARE	enddeclare	<a href="#">declare</a> , <a href="#">alternative syntax</a>
T_ENDFOR	endfor	<a href="#">for</a> , <a href="#">alternative syntax</a>
T_ENDFOREACH	endforeach	<a href="#">foreach</a> , <a href="#">alternative syntax</a>
T_ENDIF	endif	<a href="#">if</a> , <a href="#">alternative syntax</a>
T_ENDSWITCH	endswitch	<a href="#">switch</a> , <a href="#">alternative syntax</a>
T_ENDWHILE	endwhile	<a href="#">while</a> , <a href="#">alternative syntax</a>
T_END_HEREDOC		<a href="#">heredoc syntax</a>
T_EVAL	eval()	<a href="#">eval()</a>
T_EXIT	exit or die	<a href="#">exit()</a> , <a href="#">die()</a>
T_EXTENDS	extends	<a href="#">extends</a> , <a href="#">classes and objects</a>
T_FILE	__FILE__	<a href="#">magic constants</a>
T_FINAL	final	<a href="#">Final Keyword</a> (available since PHP 5.0.0)
T_FOR	for	<a href="#">for</a>
T_FOREACH	foreach	<a href="#">foreach</a>
T_FUNCTION	function or cfunction	<a href="#">functions</a>
T_FUNC_C	__FUNCTION__	<a href="#">magic constants</a> (available since PHP 4.3.0)
T_GLOBAL	global	<a href="#">variable scope</a>
T_HALT_COMPILER	__halt_compiler()	<a href="#">__halt_compiler</a> (available since PHP 5.1.0)
T_IF	if	<a href="#">if</a>
T_IMPLEMENTS	implements	<a href="#">Object Interfaces</a> (available since PHP 5.0.0)
T_INC	++	<a href="#">incrementing/decrementing</a>

		<a href="#">operators</a>
T_INCLUDE	include()	<b>include()</b>
T_INCLUDE_ONCE	include_once()	<b>include_once()</b>
T_INLINE_HTML		
T_INSTANCEOF	instanceof	<a href="#">type operators</a> (available since PHP 5.0.0)
T_INT_CAST	(int) or (integer)	<a href="#">type-casting</a>
T_INTERFACE	interface	<a href="#">Object Interfaces</a> (available since PHP 5.0.0)
T_ISSET	isset()	<a href="#">isset()</a>
T_IS_EQUAL	==	<a href="#">comparison operators</a>
T_IS_GREATER_OR_EQUAL	>=	<a href="#">comparison operators</a>
T_IS_IDENTICAL	===	<a href="#">comparison operators</a>
T_IS_NOT_EQUAL	!= or <>	<a href="#">comparison operators</a>
T_IS_NOT_IDENTICAL	!==	<a href="#">comparison operators</a>
T_IS_SMALLER_OR_EQUAL	<=	<a href="#">comparison operators</a>
T_LINE	__LINE__	<a href="#">magic constants</a>
T_LIST	list()	<a href="#">list()</a>
T_LNUMBER	123, 012, 0x1ac, etc	<a href="#">integers</a>
T_LOGICAL_AND	and	<a href="#">logical operators</a>
T_LOGICAL_OR	or	<a href="#">logical operators</a>
T_LOGICAL_XOR	xor	<a href="#">logical operators</a>
T_METHOD_C	__METHOD__	<a href="#">magic constants</a> (available since PHP 5.0.0)
T_MINUS_EQUAL	-=	<a href="#">assignment operators</a>
T_ML_COMMENT	/* and */	<a href="#">comments</a> (PHP 4 only)
T_MOD_EQUAL	%=	<a href="#">assignment operators</a>

T_MUL_EQUAL	*=	<a href="#">assignment operators</a>
T_NS_C	__NAMESPACE__	<a href="#">namespaces</a> . Also defined as <b>T_NAMESPACE</b> (available since PHP 5.3.0)
T_NEW	new	<a href="#">classes and objects</a>
T_NUM_STRING		
T_OBJECT_CAST	(object)	<a href="#">type-casting</a>
T_OBJECT_OPERATOR	->	<a href="#">classes and objects</a>
T_OLD_FUNCTION	old_function	
T_OPEN_TAG	<?php, <? or <%	<a href="#">escaping from HTML</a>
T_OPEN_TAG_WITH_ECHO	<?= or <%=	<a href="#">escaping from HTML</a>
T_OR_EQUAL	=	<a href="#">assignment operators</a>
T_PAAMAYIM_NEKUDOTAYIM	::	<a href="#">::</a> . Also defined as <b>T_DOUBLE_COLON</b> .
T_PLUS_EQUAL	+=	<a href="#">assignment operators</a>
T_PRINT	print()	<a href="#">print()</a>
T_PRIVATE	private	<a href="#">classes and objects</a> (available since PHP 5.0.0)
T_PUBLIC	public	<a href="#">classes and objects</a> (available since PHP 5.0.0)
T_PROTECTED	protected	<a href="#">classes and objects</a> (available since PHP 5.0.0)
T_REQUIRE	require()	<b>require()</b>
T_REQUIRE_ONCE	require_once()	<b>require_once()</b>
T_RETURN	return	<a href="#">returning values</a>
T_SL	<<	<a href="#">bitwise operators</a>
T_SL_EQUAL	<<=	<a href="#">assignment operators</a>
T_SR	>>	<a href="#">bitwise operators</a>
T_SR_EQUAL	>>=	<a href="#">assignment operators</a>

T_START_HEREDOC	<<<	<a href="#">heredoc syntax</a>
T_STATIC	static	<a href="#">variable scope</a>
T_STRING		
T_STRING_CAST	(string)	<a href="#">type-casting</a>
T_STRING_VARNAME		
T_SWITCH	switch	<a href="#">switch</a>
T_THROW	throw	<a href="#">Exceptions</a> (available since PHP 5.0.0)
T_TRY	try	<a href="#">Exceptions</a> (available since PHP 5.0.0)
T_UNSET	unset()	<a href="#">unset()</a>
T_UNSET_CAST	(unset)	(not documented; casts to <b>NULL</b> )
T_USE	use	<a href="#">namespaces</a> (available since PHP 5.3.0)
T_VAR	var	<a href="#">classes and objects</a>
T_VARIABLE	\$foo	<a href="#">variables</a>
T_WHILE	while	<a href="#">while, do..while</a>
T_WHITESPACE		
T_XOR_EQUAL	^=	<a href="#">assignment operators</a>

See also [token\\_name\(\)](#).

# Userland Naming Guide

The following is a guide for how to best choose names for identifiers in userland PHP code. When choosing names for any code that creates symbols in the global namespace, it is important to take into account the following guidelines to prevent future versions of PHP from clashing with your symbols.

## Global Namespace

Here is an overview of code constructs that go into the global namespace:

- functions
- classes
- interfaces
- constants (not class constants)
- variables defined outside of functions/methods

## Rules

The following list gives an overview of which rights the PHP project reserves for itself, when choosing names for new internal identifiers. The definitive guide is the official [» CODING STANDARDS](#):

- PHP owns the top-level namespace but tries to find decent descriptive names and avoid any obvious clashes.
- Function names use underscores between words, while class names use the camel case rule (there are some exceptions for older classes and functions).
- PHP will prefix any global symbols of an extension with the name of the extension. (In the past, there have been numerous exceptions to this rule.) Examples:
  - `curl_close()`
  - `mysql_query()`
  - `PREG_SPLIT_DELIM_CAPTURE`
  - `new DOMDocument()`
  - `strpos()` (example of a past mistake)
  - `new SplFileObject()`
- Iterators and Exceptions are however simply postfixed with " *Iterator* " and " *Exception* "



." Examples:

- *ArrayIterator*
  - *LogicException*
- 
- PHP reserves all symbols starting with `__` as magical. It is recommended that you do not create symbols starting with `__` in PHP unless you want to use documented magical functionality. Examples:
    - `__get()`
    - `__autoload()`

## Tips

In order to write future-proof code, it is recommended that you prefix (or suffix) anything that goes into the global namespace with an uncommon 3-4 letter prefix (or suffix) separated with an underscore. It is recommended that in order to prevent namespace clashes with other userland code that projects research existing prefixes (or suffixes) used in other projects and advertise their chosen prefix (or suffix) appropriately. Examples:

- `MyPx_someFunc()`
- `Foo_Date`
- `$asdf_dbh`

# About the manual

## Formats

The PHP manual is provided in several formats. These formats can be divided into two groups: online readable formats, and downloadable packages.

Note
Some publishers have made available printed versions of this manual. We cannot recommend any of those, as they tend to become out-of-date very quickly.

The manual can be read online at the [» PHP.net website](#), and on the numerous mirror sites. For best performance, choose the closest mirror. The online version of the PHP manual has currently two CSS stylesheets, web friendly and a printer-friendly stylesheet.

Two notable advantages of the online manual over most of the offline formats is the integration of [user-contributed notes](#) and the [» URL shortcuts](#) that may be used to get to the desired manual parts quickly. An obvious disadvantage is the requirement to be online to view this edition of the manual.

There are several offline formats of the manual, and the most appropriate format for depends on the operating system, and personal reading style. For information on how the manual is generated in so many formats, read the '[How we generate the formats](#)' section of this appendix.

The most cross-platform format of the manual is the HTML version. This is provided both as a single HTML file and as a package of individual files for each section (which results in a collection of several thousand files). We provide these versions compressed, so a decompression utility is required to retrieve the files contained within the archives.

For Windows platforms, the Windows HTML Help version of the manual enhances the HTML format for use with the Windows HTML Help application. This version provides full-text search, a full index, and bookmarking. Many popular Windows PHP development environments also integrate with this version of the documentation to provide easy access. CHM viewers for Linux desktops are also available. Check out [» xCHM](#) or [» GnoCHM](#).

There is also an [» extended CHM version](#) available, which is updated less frequently, but provides many additional features. It will only work on Microsoft Windows though, because of the technologies used to build the help pages.

## About user notes

The user-contributed notes play an important role in the development of this manual. By allowing readers of the manual to contribute examples, caveats, and further clarifications

from their browser, we are able to incorporate that feedback into the main text of the manual. And until the notes have been incorporated, they may be viewed in their submitted form online, and in some of the offline formats.

#### Note

The user-contributed notes are not moderated before they appear online, so the quality of the writing or code examples, and even the veracity of the contribution, cannot be guaranteed. (Not that there is any guarantee of the quality or accuracy of the manual text itself.)

#### Note

For the purposes of license coverage the user-contributed notes are considered part of the PHP manual, and are therefore covered by the same license that covers this documentation (Open Publication License at the moment). For more details see the [Manual's Copyright](#) page.

## How to read a function definition (prototype)

Each function in the manual is documented for quick reference. Knowing how to read and understand the text will make learning PHP much easier. Rather than relying on examples or cut/paste, everyone should know how to read function definitions (prototypes). Let's begin:

#### Note

##### **Prerequisite: Basic understanding of [types](#)**

Although PHP is a loosely typed language, it's important to have a basic understanding of [types](#) as they have important meaning.

Function definitions tell us what type of value is [returned](#). Let's use the definition for [strlen\(\)](#) as our first example:

```
strlen
```

```
(PHP 4, PHP 5)
```

```
strlen -- Get string length
```

```
Description
```

```
int strlen ( string $string )
```

```
Returns the length of given string.
```

## Explanation of a function definition

Part	Description
<code>strlen</code>	The function name.
(PHP 4, PHP 5, PHP 6)	<code>strlen()</code> has been around in all versions of PHP 4, PHP 5 and PHP 6
<code>int</code>	Type of value this function returns, which is an <a href="#">integer</a> (i.e. the length of a string is measured in numbers).
( <code>string \$string</code> )	The first (and in this case the only) parameter/argument for this function is named <i>string</i> , and it's a <a href="#">string</a> .

We could rewrite the above function definition in a generic way:

```
returned type    function name    ( parameter type    parameter name )
```

Many functions take on multiple parameters, such as [in\\_array\(\)](#). Its prototype is as follows:

```
bool in_array ( mixed $needle, array $haystack [, bool $strict])
```

What does this mean? `in_array()` returns a [boolean](#) value, **TRUE** on success (if the *needle* was found in the *haystack* ) or **FALSE** on failure (if the *needle* was not found in the *haystack* ). The first parameter is named *needle* and it can be of many different [types](#), so we call it " *mixed* ". This *mixed needle* (what we're looking for) can be either a scalar value (string, integer, or [float](#) ), or an [array](#). *haystack* (the array we're searching in) is the second parameter. The third *optional* parameter is named *strict*. All optional parameters are seen in *[ brackets ]*. The manual states that the *strict* parameter defaults to boolean **FALSE**. See the manual page on each function for details on how they work.

There are also functions with more complex PHP version information. Take [html\\_entity\\_decode\(\)](#) as an example:

```
(PHP 4 >= 4.3.0, PHP 5)
```

This means that this function has only been available in a released version since PHP 4.3.0.

## PHP versions documented in this manual

The manual contains information about past, current, and future versions of PHP. Changes in behaviour are documented as notes, changelogs, and inline text within the manual pages. The earliest documented version is PHP 4.1.0, whereas the latest is PHP 6.x.x.

Documentation partly exists for the CVS version of PHP, which always means the very latest development version. This has yet to be released so is only available through the CVS version handling system, or via a [» snapshot](#). So be aware that features marked "available in CVS" are typically unavailable. These features, though, will most likely be available in the next stable version of PHP. To download the CVS version, see the [» anonymous CVS access page](#).

So, documentation may exist for PHP versions that aren't yet released. (Something like PHP 6.x.x while the latest stable version might be 5.x.x). Most of the time, this is not an error in the documentation. Explanation is often added for features not available in the current PHP release, but will be available as a known future PHP version. Typically, PHP only adds new features in major releases otherwise only bugs are fixed. Using the A.B.C versioning format, a major release increments A or B whereas minor releases increment C. So for example it's not uncommon for a feature to be documented as available in PHP x.1.x when the latest release is PHP x.0.x. Also note that the manual is written in present tense, not future tense.

Many times the PHP manual lists "Default Values" for PHP directives. These values are based on *php.ini-dist* and not *php.ini-recommended*. They also refer to the latest version of PHP. See the [PHP directive appendix](#) for details on these values and changes.

## How to find more information about PHP

This manual does not attempt to provide instruction about general programming practices. First-time - or even just beginning - programmers may find it difficult to learn how to program in PHP using this manual exclusively. Instead, seek out a text more oriented towards beginners.

There are a number of active mailing lists for discussion on all aspects of programming with PHP. If stuck with a problem, consider using these lists. For support options, including mailing lists, view [» the PHP.net support page](#). Furthermore, there is a list of websites devoted to PHP articles, forums, and code galleries at [» the PHP.net links page](#).

## How to help improve the documentation

There are three ways everyone can help improve this documentation.

If an error is found in this manual, in any language, please report them using the bug system at [» http://bugs.php.net/](http://bugs.php.net/). Classify the bug as "Documentation Problem". All documentation related problems, including those about manual formats, should be submitted as bug reports.

<b>Note</b>
Please don't abuse the bug system by submitting requests for help. Instead, use one of the many <a href="#">» support options</a> .

By contributing notes, users may provide additional examples, caveats, and clarifications for other readers. But please do not submit bug reports using the annotation system. For details, see the section titled '[About user notes](#)'.

The PHP manual is translated into many languages. Knowing English and a foreign language allows for another way to help improve the PHP manual by working with a translation team. For information about starting a new translation, or helping a currently translated version, please read [» http://doc.php.net/php/dochowto/](http://doc.php.net/php/dochowto/).

The PHP Documentation Project also has an IRC channel where many manual authors hang out. Stop by *#php.doc* on *irc.efnet.org* and discuss ways to improve the PHP documentation.

## How we generate the formats

This manual is written in XML using the [» DocBook XML DTD](#), using [PhD](#) (The [PH]P based [D]ocBook renderer) for maintenance and formatting.

Using XML as a source format gives the ability to generate many output formats from the source files, while only maintaining one source document for all formats. The tool used for formatting the online manual is [» PhD](#). We use [» Microsoft HTML Help Workshop](#) to generate the Windows HTML Help format of the manual, and of course PHP itself to do some additional conversions and formatting.

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gzdecode()  
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gzencode()  
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gzinflate()  
gzopen()  
gzpassthru()  
gzputs()  
gzread()  
gzrewind()  
gzseek()  
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## H

### **haruannotation()**

HaruAnnotation::setBorderStyle()  
HaruAnnotation::setHighlightMode()  
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HaruAnnotation::setOpened()

### **harudestination()**

HaruDestination::setFit()  
HaruDestination::setFitB()  
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HaruDoc::getCurrentPage()  
HaruDoc::getEncoder()  
HaruDoc::getFont()  
HaruDoc::getInfoAttr()  
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HaruDoc::getPageMode()  
HaruDoc::getStreamSize()  
HaruDoc::insertPage()  
HaruDoc::loadJPEG()  
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HaruDoc::loadRaw()  
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HaruDoc::setInfoAttr()  
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HaruDoc::useCNTFonts()  
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http\_build\_str()  
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http\_cache\_last\_modified()  
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http\_deflate()  
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HttpInflateStream::finish()  
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HttpMessage::setHeaders()  
HttpMessage::setHttpVersion()  
HttpMessage::setRequestMethod()  
HttpMessage::setRequestUrl()  
HttpMessage::setResponseCode()  
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### **httpquerystring()**

HttpQueryString::\_\_construct()  
HttpQueryString::get()  
HttpQueryString::mod()  
HttpQueryString::set()  
HttpQueryString::singleton()  
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HttpQueryString::toString()  
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### **httprequest()**

HttpRequest::\_\_construct()  
HttpRequest::addCookies()  
HttpRequest::addHeaders()  
HttpRequest::addPostFields()  
HttpRequest::addPostFile()  
HttpRequest::addPutData()  
HttpRequest::addQueryData()  
HttpRequest::addRawPostData()  
HttpRequest::addSslOptions()  
HttpRequest::clearHistory()  
HttpRequest::enableCookies()  
HttpRequest::getContentType()  
HttpRequest::getCookies()  
HttpRequest::getHeaders()  
HttpRequest::getHistory()  
HttpRequest::getMethod()  
HttpRequest::getOptions()  
HttpRequest::getPostFields()  
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HttpRequest::getQueryData()  
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HttpRequest::getRequestMessage()  
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HttpRequest::getSslOptions()  
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HttpRequest::send()  
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HttpRequest::setCookies()  
HttpRequest::setHeaders()  
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ps\_makespotcolor()  
ps\_moveto()  
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### **swfaction()**

SWFAction->\_\_construct()()

### **swfbitmap()**

SWFBitmap->\_\_construct()()

SWFBitmap->getHeight()()

SWFBitmap->getWidth()()

### **swfbutton()**

SWFButton->\_\_construct()()

SWFButton->addAction()()

SWFButton->addASound()()

SWFButton->addShape()()

SWFButton->setAction()()

SWFButton->setDown()()

SWFButton->setHit()()

SWFButton->setMenu()()

SWFButton->setOver()()

SWFButton->setUp()()

### **swfdisplayitem()**

SWFDisplayItem->addAction()()

SWFDisplayItem->addColor()()

SWFDisplayItem->endMask()()

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SWFDisplayItem->skewY()  
SWFDisplayItem->skewYTo()

#### **swffill()**

SWFFill->moveTo()  
SWFFill->rotateTo()  
SWFFill->scaleTo()  
SWFFill->skewXTo()  
SWFFill->skewYTo()

#### **swffont()**

SWFFont->\_\_construct()  
SWFFont->getAscent()  
SWFFont->getDescent()  
SWFFont->getLeading()  
SWFFont->getShape()  
SWFFont->getUTF8Width()  
SWFFont->getWidth()

#### **swffontchar()**

SWFFontChar->addChars()  
SWFFontChar->addUTF8Chars()

#### **swfgradient()**

SWFGradient->\_\_construct()  
SWFGradient->addEntry()

#### **swfmorph()**

SWFMorph->\_\_construct()  
SWFMorph->getShape1()  
SWFMorph->getShape2()

#### **swfmovie()**

SWFMovie->\_\_construct()  
SWFMovie->add()  
SWFMovie->addExport()

SWFMovie->addFont()  
SWFMovie->importChar()  
SWFMovie->importFont()  
SWFMovie->labelFrame()  
SWFMovie->nextFrame()  
SWFMovie->output()  
SWFMovie->remove()  
SWFMovie->save()  
SWFMovie->saveToFile()  
SWFMovie->setbackground()  
SWFMovie->setDimension()  
SWFMovie->setFrames()  
SWFMovie->setRate()  
SWFMovie->startSound()  
SWFMovie->stopSound()  
SWFMovie->streamMP3()  
SWFMovie->writeExports()

### **swfprebuiltclip()**

SWFPrebuiltClip->\_\_construct()

### **swfshape()**

SWFShape->\_\_construct()  
SWFShape->addFill()  
SWFShape->drawArc()  
SWFShape->drawCircle()  
SWFShape->drawCubic()  
SWFShape->drawCubicTo()  
SWFShape->drawCurve()  
SWFShape->drawCurveTo()  
SWFShape->drawGlyph()  
SWFShape->drawLine()  
SWFShape->drawLineTo()  
SWFShape->movePen()  
SWFShape->movePenTo()  
SWFShape->setLeftFill()  
SWFShape->setLine()  
SWFShape->setRightFill()

swfsound()

swfsound()

### **swfsoundinstance()**

SWFSoundInstance->loopCount()  
SWFSoundInstance->loopInPoint()  
SWFSoundInstance->loopOutPoint()  
SWFSoundInstance->noMultiple()

### **swfsprite()**

SWFSprite->\_\_construct()  
SWFSprite->add()  
SWFSprite->labelFrame()  
SWFSprite->nextFrame()  
SWFSprite->remove()  
SWFSprite->setFrames()  
SWFSprite->startSound()  
SWFSprite->stopSound()

**swftext()**

SWFText->\_\_construct()  
SWFText->addString()  
SWFText->addUTF8String()  
SWFText->getAscent()  
SWFText->getDescent()  
SWFText->getLeading()  
SWFText->getUTF8Width()  
SWFText->getWidth()  
SWFText->moveTo()  
SWFText->setColor()  
SWFText->setFont()  
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SWFText->setSpacing()

**swftextfield()**

SWFTextField->\_\_construct()  
SWFTextField->addChars()  
SWFTextField->addString()  
SWFTextField->align()  
SWFTextField->setBounds()  
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**swfvideostream()**

SWFVideoStream->\_\_construct()  
SWFVideoStream->getNumFrames()  
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sybase\_select\_db()  
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## T

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tidyNode->isText()  
tidyNode::getParent()  
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time\_nanosleep()  
time\_sleep\_until()  
timezone\_abbreviations\_list()  
timezone\_identifiers\_list()  
timezone\_name\_from\_abbr()  
timezone\_name\_get()  
timezone\_offset\_get()  
timezone\_open()  
timezone\_transitions\_get()  
tmpfile()  
token\_get\_all()  
token\_name()  
touch()  
trigger\_error()  
trim()

## U

uasort()

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ucwords()  
udm\_add\_search\_limit()  
udm\_alloc\_agent()  
udm\_alloc\_agent\_array()  
udm\_api\_version()  
udm\_cat\_list()  
udm\_cat\_path()  
udm\_check\_charset()  
udm\_check\_stored()  
udm\_clear\_search\_limits()  
udm\_close\_stored()  
udm\_crc32()  
udm\_errno()  
udm\_error()  
udm\_find()  
udm\_free\_agent()  
udm\_free\_ispell\_data()  
udm\_free\_res()  
udm\_get\_doc\_count()  
udm\_get\_res\_field()  
udm\_get\_res\_param()  
udm\_hash32()  
udm\_load\_ispell\_data()  
udm\_open\_stored()  
udm\_set\_agent\_param()  
uksort()  
umask()  
unicode\_decode()  
unicode\_encode()  
unicode\_get\_error\_mode()  
unicode\_get\_subst\_char()  
**unicode\_semantics()**  
unicode\_set\_error\_mode()  
unicode\_set\_subst\_char()  
uniqid()  
unixtojd()  
unlink()  
unpack()  
unregister\_tick\_function()  
unserialize()  
unset()  
urldecode()  
urlencode()  
**usage()**  
use\_soap\_error\_handler()  
user\_error()  
usleep()  
usort()  
utf8\_decode()  
utf8\_encode()



# V

- var\_dump()
- var\_export()
- variant()
- variant\_abs()
- variant\_add()
- variant\_and()
- variant\_cast()
- variant\_cat()
- variant\_cmp()
- variant\_date\_from\_timestamp()
- variant\_date\_to\_timestamp()
- variant\_div()
- variant\_eqv()
- variant\_fix()
- variant\_get\_type()
- variant\_idiv()
- variant\_imp()
- variant\_int()
- variant\_mod()
- variant\_mul()
- variant\_neg()
- variant\_not()
- variant\_or()
- variant\_pow()
- variant\_round()
- variant\_set()
- variant\_set\_type()
- variant\_sub()
- variant\_xor()
- version\_compare()
- vfprintf()
- virtual()
- vpopmail\_add\_alias\_domain()
- vpopmail\_add\_alias\_domain\_ex()
- vpopmail\_add\_domain()
- vpopmail\_add\_domain\_ex()
- vpopmail\_add\_user()
- vpopmail\_alias\_add()
- vpopmail\_alias\_del()
- vpopmail\_alias\_del\_domain()
- vpopmail\_alias\_get()
- vpopmail\_alias\_get\_all()
- vpopmail\_auth\_user()
- vpopmail\_del\_domain()
- vpopmail\_del\_domain\_ex()
- vpopmail\_del\_user()
- vpopmail\_error()
- vpopmail\_passwd()
- vpopmail\_set\_user\_quota()

vprintf()  
vsprintf()

## W

w32api\_deftype()  
w32api\_init\_dtype()  
w32api\_invoke\_function()  
w32api\_register\_function()  
w32api\_set\_call\_method()  
wddx\_add\_vars()  
wddx\_deserialize()  
wddx\_packet\_end()  
wddx\_packet\_start()  
wddx\_serialize\_value()  
wddx\_serialize\_vars()  
wddx\_unserialize()  
win32\_create\_service()  
win32\_delete\_service()  
win32\_get\_last\_control\_message()  
win32\_ps\_list\_procs()  
win32\_ps\_stat\_mem()  
win32\_ps\_stat\_proc()  
win32\_query\_service\_status()  
win32\_set\_service\_status()  
win32\_start\_service()  
win32\_start\_service\_ctrl\_dispatcher()  
win32\_stop\_service()  
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## X

xattr\_get()  
xattr\_list()  
xattr\_remove()  
xattr\_set()  
xattr\_supported()  
xdiff\_file\_diff()  
xdiff\_file\_diff\_binary()  
xdiff\_file\_merge3()  
xdiff\_file\_patch()  
xdiff\_file\_patch\_binary()  
xdiff\_string\_diff()  
xdiff\_string\_diff\_binary()  
xdiff\_string\_merge3()  
xdiff\_string\_patch()  
xdiff\_string\_patch\_binary()

xml\_error\_string()  
xml\_get\_current\_byte\_index()  
xml\_get\_current\_column\_number()  
xml\_get\_current\_line\_number()  
xml\_get\_error\_code()  
xml\_parse()  
xml\_parse\_into\_struct()  
xml\_parser\_create()  
xml\_parser\_create\_ns()  
xml\_parser\_free()  
xml\_parser\_get\_option()  
xml\_parser\_set\_option()  
xml\_set\_character\_data\_handler()  
xml\_set\_default\_handler()  
xml\_set\_element\_handler()  
xml\_set\_end\_namespace\_decl\_handler()  
xml\_set\_external\_entity\_ref\_handler()  
xml\_set\_notation\_decl\_handler()  
xml\_set\_object()  
xml\_set\_processing\_instruction\_handler()  
xml\_set\_start\_namespace\_decl\_handler()  
xml\_set\_unparsed\_entity\_decl\_handler()  
XMLReader::close()  
XMLReader::expand()  
XMLReader::getAttribute()  
XMLReader::getAttributeNo()  
XMLReader::getAttributeNs()  
XMLReader::getParserProperty()  
XMLReader::isValid()  
XMLReader::lookupNamespace()  
XMLReader::moveToAttribute()  
XMLReader::moveToAttributeNo()  
XMLReader::moveToAttributeNs()  
XMLReader::moveToElement()  
XMLReader::moveToFirstAttribute()  
XMLReader::moveToNextAttribute()  
XMLReader::next()  
XMLReader::open()  
XMLReader::read()  
XMLReader::setParserProperty()  
XMLReader::setRelaxNGSchema()  
XMLReader::setRelaxNGSchemaSource()  
XMLReader::XML()  
xmlrpc\_decode()  
xmlrpc\_decode\_request()  
xmlrpc\_encode()  
xmlrpc\_encode\_request()  
xmlrpc\_get\_type()  
xmlrpc\_is\_fault()  
xmlrpc\_parse\_method\_descriptions()  
xmlrpc\_server\_add\_introspection\_data()  
xmlrpc\_server\_call\_method()

xmlrpc\_server\_create()  
xmlrpc\_server\_destroy()  
xmlrpc\_server\_register\_introspection\_callback()  
xmlrpc\_server\_register\_method()  
xmlrpc\_set\_type()  
XMLWriter::endAttribute()  
XMLWriter::endCDATA()  
XMLWriter::endComment()  
XMLWriter::endDocument()  
XMLWriter::endDTD()  
XMLWriter::endDTDAttlist()  
XMLWriter::endDTDElement()  
XMLWriter::endDTDEntity()  
XMLWriter::endElement()  
XMLWriter::endPI()  
XMLWriter::flush()  
XMLWriter::fullEndElement()  
XMLWriter::openMemory()  
XMLWriter::openURI()  
XMLWriter::outputMemory()  
XMLWriter::setIndent()  
XMLWriter::setIndentString()  
XMLWriter::startAttribute()  
XMLWriter::startAttributeNS()  
XMLWriter::startCDATA()  
XMLWriter::startComment()  
XMLWriter::startDocument()  
XMLWriter::startDTD()  
XMLWriter::startDTDAttlist()  
XMLWriter::startDTDElement()  
XMLWriter::startDTDEntity()  
XMLWriter::startElement()  
XMLWriter::startElementNS()  
XMLWriter::startPI()  
XMLWriter::text()  
XMLWriter::writeAttribute()  
XMLWriter::writeAttributeNS()  
XMLWriter::writeCDATA()  
XMLWriter::writeComment()  
XMLWriter::writeDTD()  
XMLWriter::writeDTDAttlist()  
XMLWriter::writeDTDElement()  
XMLWriter::writeDTDEntity()  
XMLWriter::writeElement()  
XMLWriter::writeElementNS()  
XMLWriter::writePI()  
XMLWriter::writeRaw()  
xpath\_eval()  
xpath\_eval\_expression()  
xpath\_new\_context()  
xpath\_register\_ns()  
xpath\_register\_ns\_auto()

xptr\_eval()  
xptr\_new\_context()  
xslt\_backend\_info()  
xslt\_backend\_name()  
xslt\_backend\_version()  
xslt\_create()  
xslt\_errno()  
xslt\_error()  
xslt\_free()  
xslt\_getopt()  
xslt\_process()  
xslt\_set\_base()  
xslt\_set\_encoding()  
xslt\_set\_error\_handler()  
xslt\_set\_log()  
xslt\_set\_object()  
xslt\_set\_sax\_handler()  
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xslt\_set\_scheme\_handler()  
xslt\_set\_scheme\_handlers()  
xslt\_setopt()  
XSLTProcessor::\_\_construct()  
XSLTProcessor::getParameter()  
XSLTProcessor::hasExsltSupport()  
XSLTProcessor::importStylesheet()  
XSLTProcessor::registerPHPFunctions()  
XSLTProcessor::removeParameter()  
XSLTProcessor::setParameter()  
XSLTProcessor::transformToDoc()  
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## Y

yaz\_addinfo()  
yaz\_ccl\_conf()  
yaz\_ccl\_parse()  
yaz\_close()  
yaz\_connect()  
yaz\_database()  
yaz\_element()  
yaz\_errno()  
yaz\_error()  
yaz\_es()  
yaz\_es\_result()  
yaz\_get\_option()  
yaz\_hits()  
yaz\_itemorder()  
yaz\_present()  
yaz\_range()

yaz\_record()  
yaz\_scan()  
yaz\_scan\_result()  
yaz\_schema()  
yaz\_search()  
yaz\_set\_option()  
yaz\_sort()  
yaz\_syntax()  
yaz\_wait()  
yp\_all()  
yp\_cat()  
yp\_err\_string()  
yp\_errno()  
yp\_first()  
yp\_get\_default\_domain()  
yp\_master()  
yp\_match()  
yp\_next()  
yp\_order()

## Z

zend\_logo\_guid()  
zend\_thread\_id()  
zend\_version()  
zip\_close()  
zip\_entry\_close()  
zip\_entry\_compressedsize()  
zip\_entry\_compressionmethod()  
zip\_entry\_filesize()  
zip\_entry\_name()  
zip\_entry\_open()  
zip\_entry\_read()  
zip\_open()  
zip\_read()  
ZipArchive::addEmptyDir()  
ZipArchive::addFile()  
ZipArchive::addFromString()  
ZipArchive::close()  
ZipArchive::deleteIndex()  
ZipArchive::deleteName()  
ZipArchive::extractTo()  
ZipArchive::getArchiveComment()  
ZipArchive::getCommentIndex()  
ZipArchive::getCommentName()  
ZipArchive::getFromIndex()  
ZipArchive::getFromName()  
ZipArchive::getNameIndex()  
ZipArchive::getStream()  
ZipArchive::locateName()

ZipArchive::open()  
ZipArchive::renameIndex()  
ZipArchive::renameName()  
ZipArchive::setArchiveComment()  
ZipArchive::setCommentIndex()  
ZipArchive::setCommentName()  
ZipArchive::statIndex()  
ZipArchive::statName()  
ZipArchive::unchangeAll()  
ZipArchive::unchangeArchive()  
ZipArchive::unchangeIndex()  
ZipArchive::unchangeName()  
zlib\_get\_coding\_type()