

Changelog

The following changes have been made to functions of bundled extensions.

Version	Function	Description
7.4.0	array_merge	This function can now be called without any parameter. Formerly, at least one parameter has been required.
	array_merge_recursive	This function can now be called without any parameter. Formerly, at least one parameter has been required.
	fgetcsv	The escape parameter now also accepts an empty string to disable the proprietary escape mechanism.
	fputcsv	The escape_char parameter now also accepts an empty string to disable the proprietary escape mechanism.
	idn_to_ascii	The default value of variant is now INTL_IDNA_VARIANT_UTS46 instead of the deprecated INTL_IDNA_VARIANT_2003.
	idn_to_utf8	The default value of variant is now INTL_IDNA_VARIANT_UTS46 instead of the deprecated INTL_IDNA_VARIANT_2003.
	imagecropauto	The default value of mode has been changed to IMG_CROP_AUTO. Formerly, the default value has been -1 which corresponds to IMG_CROP_DEFAULT, but passing -1 is now deprecated.
	imagecropauto	The behavior of imagecropauto() in the bundled libgd has been synced with that of system libgd: IMG_CROP_DEFAULT no longer falls back to IMG_CROP_SIDES and threshold-cropping now uses the same algorithm as system libgd.
	imagefilter	Scatter support (IMG_FILTER_SCATTER) was added.
	str_getcsv	The escape parameter now interprets an empty string as signal to disable the proprietary escape mechanism. Formerly, an empty string was treated like the default parameter value.

Version	Function	Description
	SplFileObject::fgetcsv	The escape parameter now also accepts an empty string to disable the proprietary escape mechanism.
	SplFileObject::fputcsv	The escape parameter now also accepts an empty string to disable the proprietary escape mechanism.
	SplFileObject::getCsvControl	The escape character can now be an empty string.
	SplFileObject::setCsvControl	The escape_char parameter now also accepts an empty string to disable the proprietary escape mechanism.
	SQLite3Stmt::bindParam	sql_param now also supports the @param notation.
	SQLite3Stmt::bindValue	sql_param now also supports the @param notation.
7.3.0	apache_request_headers	This function became available in the FPM SAPI.
	array_push	This function can now be called with only one parameter. Formerly, at least two parameters have been required.
	array_unshift	This function can now be called with only one parameter. Formerly, at least two parameters have been required.
	bcmul	bcmul now returns numbers with the requested scale. Formerly, the returned numbers may have omitted trailing decimal zeroes.
	bcpow	bcpow now returns numbers with the requested scale. Formerly, the returned numbers may have omitted trailing decimal zeroes.
	bcscale	bcscale can now be used to get the current scale factor; when used as setter, it now returns the old scale value. Formerly, scale was mandatory, and bcscale always returned TRUE.
	compact	compact now issues an E_NOTICE level error if a given string refers to an unset variable. Formerly, such strings have been silently skipped.
	define	case_insensitive has been deprecated and will be removed in version 8.0.0.
	ftp_fget	The mode parameter is now optional. Formerly it has been mandatory.
	ftp_fput	The mode parameter is now optional. Formerly it has been mandatory.
	ftp_get	The mode parameter is now optional. Formerly it has been mandatory.
	ftp_nb_fget	The mode parameter is now optional. Formerly it has been mandatory.

Version	Function	Description
	ftp_nb_fput	The mode parameter is now optional. Formerly it has been mandatory.
	ftp_nb_get	The mode parameter is now optional. Formerly it has been mandatory.
	ftp_nb_put	The mode parameter is now optional. Formerly it has been mandatory.
	ftp_put	The mode parameter is now optional. Formerly it has been mandatory.
	getallheaders	This function became available in the FPM SAPI.
	is_countable	is_countable has been added.
	json_decode	JSON_THROW_ON_ERROR options was added.
	json_encode	JSON_THROW_ON_ERROR options was added.
	password_hash	Support for Argon2id passwords using PASSWORD_ARGON2ID was added.
	preg_quote	The # character is now quoted
	session_get_cookie_params	The "samesite" entry was added in the returned array.
	session_set_cookie_params	An alternative signature supporting an options array has been added. This signature supports also setting of the SameSite cookie attribute.
	setcookie	An alternative signature supporting an options array has been added. This signature supports also setting of the SameSite cookie attribute.
	setrawcookie	An alternative signature supporting an options array has been added. This signature supports also setting of the SameSite cookie attribute.
	xml_set_external_entity_ref_handler	The return value of the handler is now also heeded if the extension has been built against libxml. Formerly, the return value has been ignored, and parsing did never stop.
7.3	ldap_add	Support for serverctrls added
	ldap_compare	Support for serverctrls added
	ldap_delete	Support for serverctrls added
	ldap_exop	Support for serverctrls added
	ldap_exop_passwd	Support for serverctrls added
	ldap_list	Support for serverctrls added
	ldap_mod_add	Support for serverctrls added
	ldap_mod_del	Support for serverctrls added
	ldap_mod_replace	Support for serverctrls added
	ldap_modify_batch	Support for serverctrls added
	ldap_parse_result	Support for serverctrls added
	ldap_read	Support for serverctrls added

Version	Function	Description
	ldap_rename	Support for serverctrls added
	ldap_search	Support for serverctrls added
7.2.19, 7.3.6	SplFileObject::__toString	Changed from an alias of SplFileObject::current to an alias of SplFileObject::fgets.
7.2.18, 7.3.5	substr_compare	offset may now be equal to the length of main_str.
7.2.0	array_unique	If sort_flags is SORT_STRING, formerly array has been copied and non-unique elements have been removed (without packing the array afterwards), but now a new array is built by adding the unique elements. This can result in different numeric indexes.
	assert	Usage of a string as the assertion became deprecated. It now emits an E_DEPRECATED notice when both assert.active and zend.assertions are set to 1.
	bcmod	dividend and divisor are no longer truncated to integer, so now the behavior of bcmod follows fmod rather than the % operator.
	bcmod	The scale parameter was added.
	count	count will now yield a warning on invalid countable types passed to the array_or_countable parameter.
	date_parse_from_format	The zone element of the returned array represents seconds instead of minutes now, and its sign is inverted. For instance -120 is now 7200.
	exif_read_data	Support for the following EXIF formats were added: Samsung DJI Panasonic Sony Pentax Minolta Sigma/Foveon AGFA Kyocera Ricoh Epson
	exif_read_data	The filename parameter was renamed to stream and now supports both local files or stream resources.
	exif_thumbnail	The filename parameter was renamed to stream and now supports both local files or stream resources.
	get_class	NULL was removed as the default value for object, and is no longer a valid input.
	gettype	Closed resources are now reported as 'resource (closed)'. Previously the returned value for closed resources were 'unknown type'.
	hash_copy	Accept and return HashContext instead of resource.
	hash_final	Accept HashContext instead of resource.

Version	Function	Description
	hash_hmac	Usage of non-cryptographic hash functions (adler32, crc32, crc32b, fnv132, fnv1a32, fnv164, fnv1a64, joaat) was disabled.
	hash_hmac_file	Usage of non-cryptographic hash functions (adler32, crc32, crc32b, fnv132, fnv1a32, fnv164, fnv1a64, joaat) was disabled.
	hash_init	Return HashContext instead of resource.
	hash_init	Usage of non-cryptographic hash functions (adler32, crc32, crc32b, fnv132, fnv1a32, fnv164, fnv1a64, joaat) with HASH_HMAC was disabled.
	hash_pbkdf2	Usage of non-cryptographic hash functions (adler32, crc32, crc32b, fnv132, fnv1a32, fnv164, fnv1a64, joaat) was disabled.
	hash_update	Accept HashContext instead of resource.
	hash_update_file	Accept HashContext instead of resource.
	hash_update_stream	Accept HashContext instead of resource.
	idn_to_ascii	INTL_IDNA_VARIANT_2003 has been deprecated; use INTL_IDNA_VARIANT_UTS46 instead.
	idn_to_utf8	INTL_IDNA_VARIANT_2003 has been deprecated; use INTL_IDNA_VARIANT_UTS46 instead.
	imageantialias	imageantialias is now generally available. Formerly it was only available if PHP was compiled with the bundled version of the GD library.
	imagegd	imagegd now allows to output truecolor images. Formerly, these have been implicitly converted to palette.
	imagelayereffect	Added IMG_EFFECT_MULTIPLY (requires system libgd >= 2.1.1 or the bundled libgd).
	imagetypes	IMG_BMP added.
	is_object	is_object now returns TRUE for unserialized objects without a class definition (class of __PHP_Incomplete_Class). Previously FALSE was returned.
	json_decode	JSON_INVALID_UTF8_IGNORE, and JSON_INVALID_UTF8_SUBSTITUTE options were added.
	json_encode	JSON_INVALID_UTF8_IGNORE, and JSON_INVALID_UTF8_SUBSTITUTE options were added.
	mail	The additional_headers parameter now also accepts an array.
	mb_send_mail	The additional_headers parameter now also accepts an array.

Version	Function	Description
	mt_rand	mt_rand has received a bug fix for a modulo bias bug. This means that sequences generated with a specific seed may differ from PHP 7.1 on 64-bit machines.
	number_format	number_format was changed to not being able to return -0, previously -0 could be returned for cases like where number would be -0.01.
	openssl_pkcs7_verify	The p7bfilename parameter was added.
	pack	float and double types supports both Big Endian and Little Endian.
	parse_str	Usage of parse_str without a second parameter now emits an E_DEPRECATED notice.
	password_hash	Support for Argon2i passwords using PASSWORD_ARGON2I was added.
	preg_match	The PREG_UNMATCHED_AS_NULL is now supported for the \$flags parameter.
	preg_match_all	The PREG_UNMATCHED_AS_NULL is now supported for the \$flags parameter.
	proc_nice	This function is now available on Windows.
	rand	rand has received a bug fix for a modulo bias bug. This means that sequences generated with a specific seed may differ from PHP 7.1 on 64-bit machines.
	read_exif_data	This function alias was deprecated.
	session_abort	The return type of this function is bool now. Formerly, it has been void.
	session_module_name	It is now explicitly forbidden to set the module name to "user". Formerly, this has been silently ignored.
	session_name	session_name checks session status, previously it only checked cookie status. Therefore, older session_name allows to call session_name after session_start which may crash PHP and may result in misbehaviors.
	session_reset	The return type of this function is bool now. Formerly, it has been void.
	session_set_cookie_params	Returns TRUE on success or FALSE on failure. Formerly the function returned void.
	session_unset	The return type of this function is bool now. Formerly, it has been void.
	session_write_close	The return type of this function is bool now. Formerly, it has been void.
	set_error_handler	errcontext became deprecated. Usage of this parameter now emits an E_DEPRECATED notice.

Version	Function	Description
	<u>unpack</u>	float and double types supports both Big Endian and Little Endian.
	<u>utf8_decode</u>	This function has been moved to the core of PHP, and therefore lifting the requirement on the XML extension for this function to be available.
	<u>utf8_encode</u>	This function has been moved to the core of PHP, and therefore lifting the requirement on the XML extension for this function to be available.
	<u>PDOStatement::debugDumpParams</u>	PDOStatement::debugDumpParams now returns the SQL sent to the database, including the full, raw query (including the replaced placeholders with their bounded values). Note, that this will only be available if emulated prepared statements are turned on.
	<u>SQLite3::openBlob</u>	The flags parameter has been added, allowing to write BLOBs; formerly only reading was supported.
7.1.24, 7.2.12, 7.3.0	<u>xml_parser_get_option</u>	options now supports XML_OPTION_SKIP_TAGSTART and XML_OPTION_SKIP_WHITE.
7.1.5	<u>IntlDateFormatter::format</u>	Support for providing general DateTimeInterface objects to the value parameter was added. Formerly, only proper DateTime objects were supported.
7.1.4	<u>PDO::sqliteCreateFunction</u>	The flags parameter has been added.
	<u>SQLite3::createFunction</u>	The flags parameter has been added.
7.1.0	<u>DateInterval::format</u>	The F and f format characters were added.
	<u>DateTime::setTime</u>	The microseconds parameter was added.
	<u>array_rand</u>	The internal randomization algorithm has been changed to use the Mersenne Twister Random Number Generator instead of the libc rand function.
	<u>curl_multi_setopt</u>	Introduced CURLMOPT_PUSHFUNCTION.
	<u>exif_imagetype</u>	Added WebP support.
	<u>file_get_contents</u>	Support for negative offsets has been added.
	<u>get_headers</u>	The context parameter was added.
	<u>getenv</u>	The varname can now be omitted to retrieve an associative array of all environment variables.
	<u>getimagesize</u>	Added WebP support.
	<u>getopt</u>	Added the optind parameter.
	<u>grapheme_extract</u>	Support for negative starts has been added.
	<u>grapheme_stripos</u>	Support for negative offsets has been added.
	<u>grapheme_strpos</u>	Support for negative offsets has been added.

Version	Function	Description
	hash_algos	Support for sha512/224, sha512/256, sha3-224, sha3-256, sha3-384 and sha3-512 has been added.
	iconv_strpos	Support for negative offsets has been added.
	json_decode	An empty JSON key ("") can be encoded to the empty object property instead of using a key with value _empty_.
	json_encode	JSON_UNESCAPED_LINE_TERMINATORS options was added.
	json_encode	serialize_precision is used instead of precision when encoding double values.
	list	It is now possible to specify keys in list. This enables destructuring of arrays with non-integer or non-sequential keys.
	long2ip	The parameter type of proper_address has been changed from string to integer.
	mb_ereg	mb_ereg will now set regs to an empty array, if nothing matched. Formerly, regs was not modified in that case.
	mb_ereg_replace	The e modifier has been deprecated.
	mb_ereg_search_setpos	Support for negative positions has been added.
	mb_eregi	mb_eregi will now set regs to an empty array, if nothing matched. Formerly, regs was not modified in that case.
	mb_eregi_replace	The e modifier has been deprecated.
	mb_striwidth	Support for negative starts and widths has been added.
	mb_stripos	Support for negative offsets has been added.
	mb_strpos	Support for negative offsets has been added.
	mt_rand	mt_rand has been updated to use the fixed, correct, version of the Mersenne Twister algorithm. To fall back to the old behaviour, use mt_srand with MT_RANDOM_PHP as the second parameter.
	mt_rand	rand has been made an alias of mt_rand.
	mt_srand	srand has been made an alias of mt_srand.
	mt_srand	mt_rand has been updated to use the fixed, correct, version of the Mersenne Twister algorithm. To fall back to the old behaviour, use mt_srand with MT_RANDOM_PHP as the second parameter.
	openssl_csr_new	configargs now also supports curve_name.
	openssl_decrypt	The tag and aad parameters were added.

Version	Function	Description
	openssl_encrypt	The tag, aad and tag_length parameters were added.
	openssl_pkey_new	The curve_name configarg was added to make it possible to create EC keys.
	output_add_rewrite_var	Before PHP 7.1.0, rewrite vars set by output_add_rewrite_var use the same Session module trans sid output buffer. Since PHP 7.1.0, dedicated output buffer is used, url_rewriter.tags is used solely for output functions, url_rewriter.hosts is added.
	output_reset_rewrite_vars	Before PHP 7.1.0, rewrite vars set by output_add_rewrite_var use the same Session module trans sid output buffer. Since PHP 7.1.0, dedicated output buffer is used and output_reset_rewrite_vars only removes rewrite vars defined by output_add_rewrite_var.
	pcntl_signal	As of PHP 7.1.0 the handler callback is given a second argument containing the signinfo of the specific signal. This data is only supplied if the operating system has the signinfo_t structure. If the OS does not implement signinfo_t NULL is supplied.
	pcntl_signal_get_handler	pcntl_signal_get_handler has been added.
	pg_fetch_all	The result_type parameter was added.
	pg_last_notice	The option parameter was added.
	pg_select	The result_type parameter was added.
	rand	rand has been made an alias of mt_rand.
	session_start	session_start now returns FALSE and no longer initializes \$_SESSION when it failed to start the session.
	shuffle	The internal randomization algorithm has been changed to use the Mersenne Twister Random Number Generator instead of the libc rand function.
	srand	srand has been made an alias of mt_srand.
	str_shuffle	The internal randomization algorithm has been changed to use the Mersenne Twister Random Number Generator instead of the libc rand function.
	stripos	Support for negative offsets has been added.
	strpos	Support for negative offsets has been added.
	substr_count	Support for negative offsets and lengths has been added. length may also be 0 now.
	unpack	The optional offset has been added.

Version	Function	Description
	<u>unserialize</u>	The allowed_classes element of options) is now strictly typed, i.e. if anything other than an array or a boolean is given, unserialize returns FALSE and issues an E_WARNING.
7.1	<u>DateTime::__construct</u>	From now on microseconds are filled with actual value. Not with '00000'.
7.0.16, 7.1.2	<u>dns_get_record</u>	Added support for CAA record type.
	<u>fopen</u>	The 'e' option was added.
7.0.15, 7.1.1	<u>get_defined_functions</u>	The exclude_disabled parameter has been added.
7.0.15, 7.1.1	<u>pack</u>	The "e", "E", "g" and "G" codes were added to enable byte order support for float and double.
7.0.11	<u>iconv_substr</u>	If str is equal to offset characters long, an empty string will be returned. Prior to this version, FALSE was returned in this case.
7.0.10	<u>SQLite3::__construct</u>	The filename can now be empty to use a private, temporary on-disk database.
7.0.7	<u>curl_multi_setopt</u>	Introduced CURLOPT_CHUNK_LENGTH_PENALTY_SIZE, CURLOPT_CONTENT_LENGTH_PENALTY_SIZE, CURLOPT_MAX_HOST_CONNECTIONS, CURLOPT_MAX_PIPELINE_LENGTH and CURLOPT_MAX_TOTAL_CONNECTIONS.

Version	Function	Description
	curl_setopt	Introduced CURL_HTTP_VERSION_2, CURL_HTTP_VERSION_2_PRIOR_KNOWLEDGE, CURL_HTTP_VERSION_2TLS, CURL_REDIR_POST_301, CURL_REDIR_POST_302, CURL_REDIR_POST_303, CURL_REDIR_POST_ALL, CURL_VERSION_KERBEROS5, CURL_VERSION_PSL, CURL_VERSION_UNIX_SOCKETS, CURLAUTH_NEGOTIATE, CURLAUTH_NTLM_WB, CURLFTP_CREATE_DIR, CURLFTP_CREATE_DIR_NONE, CURLFTP_CREATE_DIR_RETRY, CURLHEADER_SEPARATE, CURLHEADER_UNIFIED, CURLMOPT_CHUNK_LENGTH_PENALTY_SIZE, CURLMOPT_CONTENT_LENGTH_PENALTY_SIZE, CURLMOPT_MAX_HOST_CONNECTIONS, CURLMOPT_MAX_PIPELINE_LENGTH, CURLMOPT_MAX_TOTAL_CONNECTIONS, CURLOPT_CONNECT_TO, CURLOPT_DEFAULT_PROTOCOL, CURLOPT_DNS_INTERFACE, CURLOPT_DNS_LOCAL_IP4, CURLOPT_DNS_LOCAL_IP6, CURLOPT_EXPECT_100_TIMEOUT_MS, CURLOPT_HEADEROPT, CURLOPT_LOGIN_OPTIONS, CURLOPT_PATH_AS_IS, CURLOPT_PINNEDPUBLICKEY, CURLOPT_PIPEWAIT, CURLOPT_PROXY_SERVICE_NAME, CURLOPT_PROXYHEADER, CURLOPT_SASL_IR, CURLOPT_SERVICE_NAME, CURLOPT_SSL_ENABLE_ALPN, CURLOPT_SSL_ENABLE_NPN, CURLOPT_SSL_FALSESTART, CURLOPT_SSL_VERIFYSTATUS, CURLOPT_STREAM_WEIGHT, CURLOPT_TCP_FASTOPEN, CURLOPT_TFTP_NO_OPTIONS, CURLOPT_UNIX_SOCKET_PATH, CURLOPT_XOAUTH2_BEARER, CURLPROTO_SMB, CURLPROTO_SMBS, CURLPROXY_HTTP_1_0, CURLSSH_AUTH_AGENT and CURLSSLOPT_NO_REVOKE.
7.0.0	array_column	Added the ability for the input parameter to be an array of objects.
	assert	assert is now a language construct and not a function. assertion can now be an expression. The second parameter is now interpreted either as an exception (if a Throwable object is given), or as the description supported from PHP 5.4.8 onwards.

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	curl_setopt	Support for disabling the CURLOPT_SAFE_UPLOAD option has been removed. All curl file uploads must use CURLFile.
	current	array is now always passed by value. Prior to this version, it was passed by reference if possible, and by value otherwise.
	define	array values are allowed.
	dirname	Added the optional levels parameter.
	dl	dl is disabled in PHP-FPM.
	getrusage	This function is now supported on Windows.
	gmmktime	is_dst parameter has been removed.
	imagepsbbox	T1Lib support was removed from PHP, thus this function was removed.
	imagepsencodefont	T1Lib support was removed from PHP, thus this function was removed.
	imagepsextendfont	T1Lib support was removed from PHP, thus this function was removed.
	imagepsfreefont	T1Lib support was removed from PHP, thus this function was removed.
	imagepsloadfont	T1Lib support was removed from PHP, thus this function was removed.
	imagepslantfont	T1Lib support was removed from PHP, thus this function was removed.
	imagepstext	T1Lib support was removed from PHP, thus this function was removed.
	is_numeric	Strings in hexadecimal (e.g. 0xf4c3b00c) notation are no longer regarded as numeric strings, i.e. is_numeric returns FALSE now.
	json_decode	Rejected RFC 7159 incompatible number formats - top level (07, 0xff, .1, -.1) and all levels ([1.], [1.e1])
	json_decode	An empty PHP string or value that after casting to string is an empty string (NULL, FALSE) results in JSON syntax error.
	key	array is now always passed by value. Prior to this version, it was passed by reference if possible, and by value otherwise.
	list	Strings can no longer be unpacked.
	list	The order that the assignment operations are performed in has changed.
	list	list expressions can no longer be completely empty.
	mktime	is_dst parameter has been removed.

Version	Function	Description
	<u>ob_start</u>	In case ob_start is used inside an output buffer callback, this function will no longer issue an E_ERROR but instead an E_RECOVERABLE_ERROR, allowing custom error handlers to catch such errors.
	<u>openssl_open</u>	The iv has been added.
	<u>openssl_seal</u>	The iv has been added.
	<u>parse_ini_file</u>	Hash marks (#) are no longer recognized as comments.
	<u>preg_replace</u>	Support for the /e modifier has been removed. Use preg_replace_callback instead.
	<u>session_regenerate_id</u>	session_regenerate_id saves old session data before closing.
	<u>session_set_save_handler</u>	Added the optional validate_sid and update_timestamp parameters.
	<u>session_start</u>	The options parameter was added.
	<u>set_exception_handler</u>	The type of parameter passed into exception_handler changed from Exception to Throwable
	<u>setlocale</u>	Support for the category parameter passed as a string has been removed. Only LC_* constants can be used as of this version.
	<u>shmop_close</u>	The type of shmid has been changed from int to resource.
	<u>shmop_delete</u>	The type of shmid has been changed from int to resource.
	<u>shmop_open</u>	The return type of shmop_open has been changed from int to resource.
	<u>shmop_read</u>	The type of shmid has been changed from int to resource.
	<u>shmop_size</u>	The type of shmid has been changed from int to resource.
	<u>shmop_write</u>	The type of shmid has been changed from int to resource.
	<u>substr</u>	If string is equal to start characters long, an empty string will be returned. Prior to this version, FALSE was returned in this case.
	<u>token_get_all</u>	Added the optional flags parameter along with the TOKEN_PARSE flag.
	<u>unserialize</u>	The options parameter has been added.
	<u>IntlDateFormatter::setTimeZoneId</u>	This function has been removed.
5.6.25, 7.0.10	<u>imagetypes</u>	IMG_WEBP added.

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	SplFileObject::getCsvControl	Added the escape character to the returned array.
5.6.16	mysqli::real_connect	Added the MYSQLI_CLIENT_SSL_DONT_VERIFY_SERVER_CERT flag for MySQL Native Driver
5.6.12	gd_info	WebP Support added.
5.6.6	json_encode	JSON_PRESERVE_ZERO_FRACTION options was added.
5.6.5	crypt	When the failure string "*"0" is given as the salt, "*"1" will now be returned for consistency with other crypt implementations. Prior to this version, PHP 5.6 would incorrectly return a DES hash.
5.6.3	pack	The "q", "Q", "J" and "P" codes were added to enable working with 64-bit numbers.
5.6.1	parse_ini_file	Added new INI_SCANNER_TYPED mode.
	sem_acquire	The \$nowait parameter was added.
5.6.0	array_fill	num may now be zero. Previously, num was required to be greater than zero.
	array_filter	Added optional flag parameter and constants ARRAY_FILTER_USE_KEY and ARRAY_FILTER_USE_BOTH
	crypt	Raise E_NOTICE security warning if salt is omitted.
	curl_setopt	Removed CURLOPT_CLOSEPOLICY and associated values.
	curl_setopt	CURLOPT_SAFE_UPLOAD is now TRUE by default.
	hash_algos	Support for gost-crypto was added. This implements the GOST hash function using the CryptoPro S-box tables as specified by RFC 4357, section 11.2.
	html_entity_decode	The default value for the encoding parameter was changed to be the value of the default_charset configuration option.
	htmlentities	The default value for the encoding parameter was changed to be the value of the default_charset configuration option.
	htmlspecialchars	The default value for the encoding parameter was changed to be the value of the default_charset configuration option.
	json_decode	Invalid non-lowercased variants of the true, false and null literals are no longer accepted as valid input, and will generate warnings.
	mb_regex_encoding	Default encoding is changed to UTF-8. It was EUC-JP Previously.

Version	Function	Description
	<u>mcrypt_create_iv</u>	MCRYPT_DEV_URANDOM is now the default value of source.
	<u>mcrypt_decrypt</u>	Invalid key and iv sizes are no longer accepted. mcrypt_decrypt will now throw a warning and return FALSE if the inputs are invalid. Previously keys and IVs were padded with '\0' bytes to the next valid size.
	<u>mcrypt_encrypt</u>	Invalid key and iv sizes are no longer accepted. mcrypt_encrypt will now throw a warning and return FALSE if the inputs are invalid. Previously keys and IVs were padded with '\0' bytes to the next valid size.
	<u>pg_connect</u>	Support for giving the PGSQL_CONNECT_ASYNC constant as the connect_type was added.
	<u>pg_convert</u>	No longer experimental. Boolean/NULL data types are supported. Unknown/unsupported data types are escaped without validation. pg_convert can be used with any data types.
	<u>pg_delete</u>	No longer experimental. Added PGSQL_DML_ESCAPE constant, TRUE/FALSE and NULL data type support.
	<u>pg_insert</u>	Unless PGSQL_DML_STRING is passed, the function now returns the connection resource instead of TRUE on success.
	<u>pg_insert</u>	No longer experimental. Added PGSQL_DML_ESCAPE constant, TRUE/FALSE and NULL data type support.
	<u>pg_lo_seek</u>	Added PostgreSQL 9.3's 64bit large object support. Both client and server must support PostgreSQL 9.3 and PHP must be 64bit build to use 64bit large object.
	<u>pg_lo_tell</u>	Added PostgreSQL 9.3's 64bit large object support. Both client and server must support PostgreSQL 9.3 and PHP must be 64bit build to use 64bit large object.
	<u>pg_lo_truncate</u>	Added truncate function. It supports PostgreSQL 9.3's 64bit large object. Both client and server must support PostgreSQL 9.3 and PHP must be 64bit build to use 64bit large object.
	<u>pg_meta_data</u>	No longer experimental. Added "is enum" as default attribute. extended flag is added.
	<u>pg_select</u>	No longer experimental. Added PGSQL_DML_ESCAPE constant, TRUE/FALSE and NULL data type support.
	<u>pg_update</u>	No longer experimental. Added PGSQL_DML_ESCAPE constant, TRUE/FALSE and NULL data type support.

Version	Function	Description
	<u>stream_socket_enable_crypto</u>	The crypto_type is now optional.
	<u>stream_socket_enable_crypto</u>	Introduce STREAM_CRYPTO_METHOD_ANY_CLIENT, STREAM_CRYPTO_METHOD_TLSv1_0_CLIENT, STREAM_CRYPTO_METHOD_TLSv1_1_CLIENT, STREAM_CRYPTO_METHOD_TLSv1_2_CLIENT, STREAM_CRYPTO_METHOD_ANY_SERVER, STREAM_CRYPTO_METHOD_TLSv1_0_SERVER, STREAM_CRYPTO_METHOD_TLSv1_1_SERVER, STREAM_CRYPTO_METHOD_TLSv1_2_SERVER.
	<u>unserialize</u>	Manipulating the serialised data by replacing C: with O: to force object instantiation without calling the constructor will now fail.
	<u>ReflectionClass::newInstanceWithoutConstructor</u>	All internal classes can now be instantiated except for those declared final.
	<u>XMLReader::getAttributeNo</u>	XMLReader::getAttributeNo now returns NULL if the attribute doesn't exist.
	<u>XMLReader::getAttributeNs</u>	XMLReader::getAttributeNS now returns NULL if the attribute doesn't exist.
5.5.38, 5.6.24, 7.0.9	<u>getenv</u>	The local_only parameter has been added.
5.5.22, 5.6.6	<u>flock</u>	Added support for the wouldblock parameter on Windows.
	<u>SplFileObject::flock</u>	Added support for the wouldblock parameter on Windows.
5.5.21, 5.6.5	<u>SplFileObject::fputcsv</u>	Added the escape parameter.
5.5.21	<u>crypt</u>	When the failure string "*0" is given as the salt, "*1" will now be returned for consistency with other crypt implementations. Prior to this version, PHP 5.5 (and earlier branches) would incorrectly return a DES hash.
5.5.19/5.6.3	<u>imagescale</u>	The calculation of the height if new_height was negative or omitted was fixed; prior to these versions, the aspect ratio was not maintained correctly.
5.5.19, 5.6.3	<u>DateTimeZone::getOffset</u>	datetime type changed to DateTimeInterface. Previously, DateTime.
5.5.11	<u>substr_compare</u>	length may now be 0.
5.5.10	<u>DateTimeZone::__construct</u>	The timezone parameter accepts offset values.
5.5.8	<u>DatePeriod::__construct</u>	end type changed to DateTimeInterface. Previously, DateTime.
5.5.7	<u>apache_request_headers</u>	This function became available in the CLI server.
	<u>apache_response_headers</u>	This function became available in the CLI server.
	<u>getallheaders</u>	This function became available in the CLI server.

Version	Function	Description
5.5.4	fputcsv	The escape_char parameter was added
5.5.3/5.4.19	pg_delete	Direct SQL injection to table_name and Indirect SQL injection to identifiers are fixed.
	pg_insert	Direct SQL injection to table_name and Indirect SQL injection to identifiers are fixed.
	pg_select	Direct SQL injection to table_name and Indirect SQL injection to identifiers are fixed.
	pg_update	Direct SQL injection to table_name and Indirect SQL injection to identifiers are fixed.
5.5.2	DOMDocument::schemaValidate	Added the flags parameter
	DOMDocument::schemaValidateSource	Added the flags parameter
5.5.1	hex2bin	A warning is thrown if the input string is invalid hexadecimal string.
	pg_unescape_bytea	A warning is thrown if the input string is invalid.
	session_set_save_handler	Added the optional create_sid parameter.
5.5.0/PECL 3.0.0	IntlDateFormatter::create	An IntlCalendar object is allowed for calendar. Objects of type IntlTimeZone and DateTimeZone are allowed for timezone. Invalid timezone identifiers (including empty strings) are no longer allowed for timezone. If NULL is given for timezone, the timezone identifier given by date_default_timezone_get will be used instead of ICU's default.
	IntlDateFormatter::format	Support for providing IntlCalendar objects to the value parameter was added.
	IntlDateFormatter::setCalendar	It became possible to pass an IntlCalendar object.
5.5.0	DatePeriod::__construct	start type changed to DateTimeInterface. Previously, DateTime.
	curl_getinfo	Introduced CURLINFO_RESPONSE_CODE, CURLINFO_HTTP_CONNECTCODE, CURLINFO_HTTPAUTH_AVAIL, CURLINFO_PROXYAUTH_AVAIL, CURLINFO_OS_ERRNO, CURLINFO_NUM_CONNECTS, CURLINFO_SSL_ENGINES, CURLINFO_COOKIELIST, CURLINFO_FTP_ENTRY_PATH, CURLINFO_APPCONNECT_TIME, CURLINFO_CONDITION_UNMET, CURLINFO_RTSP_CLIENT_CSEQ, CURLINFO_RTSP_CSEQ_RECV, CURLINFO_RTSP_SERVER_CSEQ and CURLINFO_RTSP_SESSION_ID.
	curl_setopt	Introduced CURLOPT_SHARE.
	curl_setopt	Added the cURL resource as the first argument to the CURLOPT_PROGRESSFUNCTION callback.

Version	Function	Description
	empty	empty now supports expressions, rather than only variables.
	imagerotate	This function is now affected by the interpolation method set by the <code>imagesetinterpolation</code> function.
	imagerotate	The <code>ignore_transparent</code> is now silently ignored.
	ip2long	Prior to this version, on Windows <code>ip2long</code> would sometimes return a valid number even if passed a value which was not an (IPv4) Internet Protocol dotted address.
	iterator_to_array	<code>iterator_to_array</code> gained support for key types other than integer and string when the <code>use_keys</code> parameter is enabled.
	json_encode	The return value on failure was changed from null string to FALSE.
	json_encode	depth parameter was added.
	json_encode	JSON_PARTIAL_OUTPUT_ON_ERROR options was added.
	mysql_connect	This function will generate an E_DEPRECATED error.
	mysql_db_name	The <code>mysql_list_dbs</code> function is deprecated, and emits an E_DEPRECATED level error.
	mysql_pconnect	This function will generate an E_DEPRECATED error.
	mysql_tablename	The <code>mysql_tablename</code> function is deprecated, and emits an E_DEPRECATED level error.
	pack	The "Z" code was added with equivalent functionality to "a" for Perl compatibility.
	php_logo_guid	<code>php_logo_guid</code> has been removed from PHP.
	phpinfo	Logo GUIDs were replaced with data URIs, and so turning off <code>expose_php</code> now has no effect on the result of <code>phpinfo()</code> . Credits are also now embedded within the output itself instead of linked.
	preg_replace	The <code>/e</code> modifier is deprecated. Use <code>preg_replace_callback</code> instead. See the <code>PREG_REPLACE_EVAL</code> documentation for additional information about security risks.
	set_error_handler	<code>error_handler</code> now accepts NULL.
	set_exception_handler	Previously, if NULL was passed then this function returned TRUE. It returns the previous handler since PHP 5.5.0.
	setcookie	A Max-Age attribute is now included in the Set-Cookie header sent to the client.

Version	Function	Description
	<u>setrawcookie</u>	A Max-Age attribute is now included in the Set-Cookie header sent to the client.
	<u>unpack</u>	Changes were made to bring this function into line with Perl: The "a" code now retains trailing NULL bytes. The "A" code now strips all trailing ASCII whitespace (spaces, tabs, newlines, carriage returns, and NULL bytes). The "Z" code was added for NULL-padded strings, and removes trailing NULL bytes.
	<u>zend_logo_guid</u>	zend_logo_guid has been removed from PHP.
	<u>IntlDateFormatter::setTimeZoneId</u>	This function has been deprecated.
	<u>mysqli::commit</u>	Added flags and name parameters.
	<u>mysqli::options</u>	The MYSQLI_SERVER_PUBLIC_KEY and MYSQLI_SERVER_PUBLIC_KEY options were added.
	<u>mysqli::rollback</u>	Added flags and name parameters.
	<u>SoapClient::SoapClient</u>	New ssl_method option.
5.4.43, 5.5.27, 5.6.11	<u>escapeshellarg</u>	Exclamation marks are replaced by spaces.
	<u>escapeshellcmd</u>	Exclamation marks are replaced by spaces.
5.4.42, 5.5.27	<u>mail</u>	Header injection protection has been added for the additional_headers parameter. This means that multiple consecutive newlines are no longer allowed.
5.4.32, 5.5.16	<u>ucwords</u>	Added the delimiters parameter.
5.4.8	<u>assert</u>	The description parameter was added. The description is also now provided to a callback function in ASSERT_CALLBACK mode as the fourth argument.
	<u>mb_strcut</u>	Passing NULL as length extracts all bytes to the end of the string. Prior to this version NULL was treated the same as 0.
	<u>mb_substr</u>	Passing NULL as length extracts all characters to the end of the string. Prior to this version NULL was treated the same as 0.
5.4.7	<u>curl_getinfo</u>	Introduced CURLINFO_PRIMARY_IP, CURLINFO_PRIMARY_PORT, CURLINFO_LOCAL_IP and CURLINFO_LOCAL_PORT.
	<u>parse_url</u>	Fixed host recognition when scheme is omitted and a leading component separator is present.
5.4.4	<u>hex2bin</u>	A warning is thrown if the input string is of odd length. In PHP 5.4.0 the string was silently accepted, but the last byte was truncated.

Version	Function	Description
5.4.0/PECL 2.0.0b1	idn_to_ascii	Added the parameters variant and idna_info; UTS #46 support (requires ICU ≥ 4.6).
	idn_to_utf8	Added the parameters variant and idna_info; UTS #46 support (requires ICU ≥ 4.6).
5.4.0	DOMDocument::loadHTML	Added options parameter.
	DOMDocument::loadHTMLFile	Added options parameter.
	apache_child_terminate	This function became available under FastCGI. Previously, it was supported only when PHP was installed as an Apache module.
	apache_request_headers	This function became available under FastCGI. Previously, it was supported when PHP was installed as an Apache module or by the NSAPI server module in Netscape/iPlanet/SunONE webrowsers.
	apache_response_headers	This function became available under FastCGI. Previously, it was supported when PHP was installed as an Apache module or by the NSAPI server module in Netscape/iPlanet/SunONE webrowsers.
	array_combine	Previous versions issued E_WARNING and returned FALSE for empty arrays.
	array_multisort	The SORT_NATURAL and SORT_FLAG_CASE were added to array1_sort_flags as possible sort flags.
	date_default_timezone_get	The TZ environment variable is no longer used to guess the timezone.
	date_default_timezone_get	The timezone is no longer guessed from information available through the operating system as the guessed timezone can not be relied on.
	debug_backtrace	Added the optional parameter limit.
	debug_print_backtrace	Added the optional parameter limit.
	define_syslog_variables	This function was removed from PHP.
	dns_get_record	Added raw parameter.
	empty	Checking non-numeric offsets of strings returns TRUE.
	error_reporting	E_STRICT became part of E_ALL.
	filter_input_array	Added add_empty parameter.
	filter_var_array	Added add_empty parameter.
	get_html_translation_table	The constants ENT_HTML401, ENT_XML1, ENT_XHTML and ENT_HTML5 were added.
	get_html_translation_table	The default value for the encoding parameter was changed to UTF-8.
	get_magic_quotes_gpc	Always returns FALSE because the magic quotes feature was removed from PHP.

Version	Function	Description
	<u>get_magic_quotes_runtime</u>	Always returns FALSE because the magic quotes feature was removed from PHP.
	<u>getallheaders</u>	This function became available under FastCGI. Previously, it was supported when PHP was installed as an Apache module or by the NSAPI server module in Netscape/iPlanet/SunONE webrowsers.
	<u>gzcompress</u>	Added encoding parameter.
	<u>gzdeflate</u>	Added encoding parameter.
	<u>gzencode</u>	FORCE_DEFLATE now generates RFC 1950 compliant output.
	<u>hash</u>	The tiger algorithm now uses big-endian byte ordering. See also example below.
	<u>hash_algos</u>	Support for joaat, fnv132 and fnv164 was added. Support for Salsa10 and Salsa20 was removed.
	<u>html_entity_decode</u>	Default encoding changed from ISO-8859-1 to UTF-8.
	<u>html_entity_decode</u>	The constants ENT_HTML401, ENT_XML1, ENT_XHTML and ENT_HTML5 were added.
	<u>htmlentities</u>	The default value for the encoding parameter was changed to UTF-8.
	<u>htmlentities</u>	The constants ENT_SUBSTITUTE, ENT_DISALLOWED, ENT_HTML401, ENT_XML1, ENT_XHTML and ENT_HTML5 were added.
	<u>htmlspecialchars</u>	The default value for the encoding parameter was changed to UTF-8.
	<u>htmlspecialchars</u>	The constants ENT_SUBSTITUTE, ENT_DISALLOWED, ENT_HTML401, ENT_XML1, ENT_XHTML and ENT_HTML5 were added.
	<u>htmlspecialchars_decode</u>	The constants ENT_HTML401, ENT_XML1, ENT_XHTML and ENT_HTML5 were added.
	<u>http_build_query</u>	The enc_type parameter was added.
	<u>iconv</u>	Since this version, the function returns FALSE on illegal characters, unless //IGNORE is specified in output charset. Before, it returned partial output string.
	<u>imagecolorset</u>	The alpha parameter was added.
	<u>imagegd</u>	Added support for passing a stream resource to to.
	<u>imagegd2</u>	Added support for passing a stream resource to to.
	<u>imagegif</u>	Added support for passing a stream resource to to.

Version	Function	Description
	imagejpeg	Disallowed passing an empty string to to to skip this argument.
	imagejpeg	Added support for passing a stream resource to to.
	imagepng	Added support for passing a stream resource to to.
	imagewbmp	Added support for passing a stream resource to to.
	imagewebp	Added support for passing a stream resource to to.
	isset	Checking non-numeric offsets of strings now returns FALSE.
	json_decode	The options parameter was added.
	json_decode	JSON_BIGINT_AS_STRING, and JSON_OBJECT_AS_ARRAY options were added.
	json_encode	JSON_PRETTY_PRINT, JSON_UNESCAPED_SLASHES, and JSON_UNESCAPED_UNICODE options were added.
	mb_encode_numericentity	Added is_hex parameter.
	mysqli_get_cache_stats	The mysqli_get_cache_stats was removed.
	number_format	This function now supports multiple bytes in dec_point and thousands_sep. Only the first byte of each separator was used in older versions.
	ob_start	The third parameter of ob_start changed from a boolean parameter called erase (which, if set to FALSE, would prevent the output buffer from being deleted until the script finished executing) to an integer parameter called flags. Unfortunately, this results in an API compatibility break for code written prior to PHP 5.4.0 that uses the third parameter. See the flags example for an example of how to handle this with code that needs to be compatible with both.
	ob_start	A chunk size of 1 now results in chunks of 1 byte being sent to the output buffer.
	openssl_decrypt	The raw_output was changed to options.
	openssl_encrypt	The raw_output was changed to options.
	preg_match_all	The matches parameter became optional.
	scandir	sorting_order constants were added. Any nonzero value caused descending order in previous versions. So for all PHP versions, use 0 for ascending order, and 1 for descending order. An option for SCANDIR_SORT_NONE behavior did not exist prior to PHP 5.4.0.

Version	Function	Description
	<u>session_set_save_handler</u>	Added SessionHandlerInterface for implementing session handlers and SessionHandler to expose internal PHP session handlers.
	<u>snmp_set_valueretrieval</u>	Constants SNMP_VALUE_PLAIN or SNMP_VALUE_LIBRARY may be combined with SNMP_VALUE_OBJECT resulting different way of representing contents of value array element in return value of GET-function. If no SNMP_VALUE_{PLAIN,LIBRARY} constant is accompanying SNMP_VALUE_OBJECT, SNMP_VALUE_LIBRARY is used. Prior to 5.4.0 SNMP_VALUE_OBJECT effectively meant SNMP_VALUE_OBJECT SNMP_VALUE_PLAIN.
	<u>sort</u>	Added support for SORT_NATURAL and SORT_FLAG_CASE as sort_flags
	<u>PDOStatement::getColumnMeta</u>	PDO_DBLIB driver support added
	<u>Phar::setStub</u>	Added len parameter.
	<u>PharData::setStub</u>	Added len parameter.
	<u>SimpleXMLElement::getDocNamespaces</u>	Added from_root parameter.
	<u>SoapClient::SoapClient</u>	New keep_alive option.
5.4	<u>grapheme_substr</u>	If length is given and positive and the argument string is shorter than the specified length, all the rest of the string according to start parameter is returned. Previously, FALSE was returned.
5.3.19	<u>imagecreatefromxpm</u>	imagecreatefromxpm is available on Windows.
5.3.9	<u>DateTime::createFromFormat</u>	The + format specifier has been added.
	<u>dl</u>	dl is enabled in PHP-FPM, albeit discouraged.
	<u>is_a</u>	Added allow_string parameter
	<u>is_subclass_of</u>	Added allow_string parameter
5.3.7	<u>crypt</u>	Added \$2x\$ and \$2y\$ Blowfish modes to deal with potential high-bit attacks.
	<u>curl_getinfo</u>	Introduced CURLINFO_REDIRECT_URL.
	<u>is_subclass_of</u>	Added support for class_name to work with interfaces
5.3.6	<u>DateTime::modify</u>	Absolute date/time statements now take effect. Previously, only relative parts were used.
	<u>DOMDocument::saveHTML</u>	The node parameter was added.
	<u>array_product</u>	The product of an empty array is now 1, when before this function would return 0 for an empty array.
	<u>debug_backtrace</u>	The parameter provide_object changed to options and additional option DEBUG_BACKTRACE_IGNORE_ARGS is added.

Version	Function	Description
	debug_print_backtrace	Added the optional parameter options.
	preg_match	Returns FALSE if offset is higher than subject length.
	preg_match_all	Returns FALSE if offset is higher than subject length.
	PDO_MYSQL DSN	Prior to version 5.3.6, charset was ignored.
5.3.4	copy	Changed the context parameter to actually have an effect. Previously, any context was ignored.
	get_html_translation_table	The encoding parameter was added.
	mt_rand	Issues an E_WARNING and returns FALSE if max < min.
	rawurlencode	Tilde characters are no longer encoded when rawurlencode is used with EBCDIC strings.
	sleep	Before PHP 5.3.4, on Windows, sleep always returns NULL when sleep has occurred, regardless of whether the sleep was interrupted or not.
	strip_tags	strip_tags ignores self-closing XHTML tags in allowable_tags.
	IntlDateFormatter::format	Support for providing DateTime objects to the value parameter was added.
	mysqli_driver::\$report_mode	Changing the reporting mode is now be per-request, rather than per-process.
5.3.3	DOMXPath::evaluate	The registerNodeNS parameter was added.
	DOMXPath::query	The registerNodeNS parameter was added.
	imap_fetch_overview	Add the udate property.
	json_encode	JSON_NUMERIC_CHECK options was added.
	ldap_sasl_bind	Support on Windows was added.
	openssl_decrypt	The iv parameter was added.
	openssl_encrypt	The iv parameter was added.
	parse_url	Removed the E_WARNING that was emitted when URL parsing failed.
5.3.2 (PECL OCI8 1.4)	oci_set_prefetch	Before this release, rows must be >= 1.
5.3.2	crypt	Fixed Blowfish behaviour on invalid rounds to return "failure" string ("*0" or "*1"), instead of falling back to DES.
	crypt	Added SHA-256 and SHA-512 crypt based on Ulrich Drepper's implementation.
	flock	The automatic unlocking when the file's resource handle is closed was removed. Unlocking now always has to be done manually.

Version	Function	Description
	gmp_init	The base was extended from 2 to 36, to 2 to 62 and -2 to -36.
	gmp_strval	The base was extended from 2 to 36, to 2 to 62 and -2 to -36.
	imap_append	Added INTERNALDATE support to imap_append.
	imap_open	params added
	SplFileObject::flock	The automatic unlocking when the file's resource handle is closed was removed. Unlocking now always has to be done manually.
5.3.1	get_defined_constants	Windows only: Core constants are categorized under Core, previously mhash.
	ibase_query	On success the function now returns TRUE if there were no affected rows, where it previously returned 0 (a zero followed by an empty space).
	rename	rename can now rename files across drives in Windows.
5.3.0 (PECL OCI8 1.3.4)	oci_set_prefetch	Before this release, prefetching was limited to the lesser of rows rows and 1024 * rows bytes. The byte size restriction has now been removed.
5.3.0	DateTime::__construct	If time contains an invalid date/time format, then an exception is now thrown. Previously an error was emitted.
	DateTime::modify	Changed the return value on success from NULL to DateTime.
	DateTime::setDate	Changed the return value on success from NULL to DateTime.
	DateTime::setISODate	Changed the return value on success from NULL to DateTime.
	DateTime::setTime	Changed the return value on success from NULL to DateTime.
	DateTime::setTimezone	Changed the return value on success from NULL to DateTime.
	DateTimeZone::getTransitions	The optional timestamp_begin and timestamp_end were added.
	DateTimeZone::listIdentifiers	Added the optional what and country parameters.
	DirectoryIterator::__construct	Throws UnexpectedValueException if the path cannot be opened.
	acosh	This function is now available on all platforms
	array_multisort	The SORT_LOCALE_STRING was added to array1_sort_flags as possible sort flags.
	array_reduce	Changed initial to allow mixed, previously integer.

Version	Function	Description
	array_search	As with all internal PHP functions as of 5.3.0, array_search returns NULL if invalid parameters are passed to it.
	asinh	This function is now available on all platforms
	atanh	This function is now available on all platforms
	call_user_func	The interpretation of object oriented keywords like parent and self has changed. Previously, calling them using the double colon syntax would emit an E_STRICT warning because they were interpreted as static.
	call_user_func	If the called function expects a parameter to be passed by reference, an E_WARNING is now issued.
	call_user_func_array	The interpretation of object oriented keywords like parent and self has changed. Previously, calling them using the double colon syntax would emit an E_STRICT warning because they were interpreted as static.
	checkdnsrr	This function is now available on Windows platforms.
	clearstatcache	Added optional clear_realpath_cache and filename parameters.
	copy	Added context support.
	crypt	PHP now contains its own implementation for the MD5 crypt, Standard DES, Extended DES and the Blowfish algorithms and will use that if the system lacks of support for one or more of the algorithms.
	curl_getinfo	Introduced CURLINFO_CERTINFO.
	curl_setopt	Introduced CURLOPT_PROGRESSFUNCTION.
	date_default_timezone_set	Now throws E_WARNING rather than E_STRICT.
	define_syslog_variables	This function now throws an E_DEPRECATED notice.
	dl	dl is now disabled in some SAPIs due to stability issues. The only SAPIs that allow dl are CLI and Embed. Use the Extension Loading Directives instead.
	dns_get_record	Prior to this release, if the authns parameter was given, the addtl parameter was also required.
	dns_get_record	This function is now available on Windows platforms.
	error_reporting	E_DEPRECATED and E_USER_DEPRECATED introduced.
	exif_imagetype	Added icon support.
	expm1	This function is now available on all platforms

Version	Function	Description
	fgetcsvg	The escape parameter was added
	fnmatch	This function is now available on Windows platforms.
	func_get_arg	If this function is called from the outermost scope of a file which has been included by calling include or require from within a function in the calling file, it now generates a warning and returns FALSE.
	func_get_arg	This function can now be used in parameter lists.
	func_get_args	This function can now be used in parameter lists.
	func_get_args	If this function is called from the outermost scope of a file which has been included by calling include or require from within a function in the calling file, it now generates a warning and returns FALSE.
	func_num_args	If this function is called from the outermost scope of a file which has been included by calling include or require from within a function in the calling file, it now generates a warning and returns -1.
	func_num_args	This function can now be used in parameter lists.
	gd_info	JPG Support attribute renamed to JPEG Support.
	get_cfg_var	get_cfg_var was fixed to be able to return "array" ini options.
	get_class	NULL became the default value for object, so passing NULL to object now has the same result as not passing any value.
	get_defined_constants	Core constants are categorized under Core, previously internal. On Windows, the Core Constants are categorized under mhash.
	get_object_vars	This function now returns NULL if the object isn't an object. Previously FALSE was returned.
	get_resource_type	If handle is not a resource this functions returns NULL. Formerly, FALSE has been returned.
	getimagesize	Added icon support.
	getmxrr	This function is now available on Windows platforms.
	getopt	Added support for "=" as argument/value separator.
	getopt	Added support for optional values (specified with "::").
	getopt	This function is no longer system dependent, and now works on Windows, too.
	getopt	Parameter longopts is available on all systems.

Version	Function	Description
	hash_algos	Support for md2, ripemd256, ripemd320, salsa10, salsa20, snefru256 and sha224 was added
	htmlentities	The constant ENT_IGNORE was added.
	htmlspecialchars	The constant ENT_IGNORE was added.
	imagecolorclosesthwb	This function is now available on Windows
	imagefilter	Pixelation support (IMG_FILTER_PIXELATE) was added.
	inet_ntop	This function is now available on Windows platforms.
	inet_pton	This function is now available on Windows platforms.
	ini_get	Previously, the empty string was returned if the configuration option didn't exist. now, FALSE is returned instead.
	ini_get_all	Added details.
	is_a	This function is no longer deprecated, and will therefore no longer throw E_STRICT warnings.
	json_decode	Added the optional depth. The default recursion depth was increased from 128 to 512
	json_encode	The options parameter was added.
	json_encode	JSON_FORCE_OBJECT, JSON_HEX_AMP, JSON_HEX_APOS, JSON_HEX_QUOT, and JSON_HEX_TAG, options were added.
	link	This function is now available on Windows platforms (Vista, Server 2008 or greater).
	linkinfo	This function is now available on Windows platforms (Vista, Server 2008 or greater).
	log1p	This function is now available on all platforms
	mb_get_info	The entry "http_output_conv_mimetypes" was made available.
	mcrypt_create_iv	MCRYPT_DEV_RANDOM and MCRYPT_DEV_URANDOM became available on Windows platforms.
	mcrypt_create_iv	It is no longer required to call srand first. This is now done automatically.
	mktime	mktime now throws E_DEPRECATED notice if the is_dst parameter is used.
	mysql_db_query	This function now throws an E_DEPRECATED notice.
	mysql_escape_string	This function now throws an E_DEPRECATED notice.
	mysqli_get_cache_stats	The mysqli_get_cache_stats was added as stub.

Version	Function	Description
	nl2br	Added the optional is_html parameter. Before this version ' ' was always inserted.
	openssl_open	The method has been added.
	openssl_seal	The method has been added.
	parse_ini_file	Added optional scanner_mode parameter. Single quotes may now be used around variable assignments. Hash marks (#) should no longer be used as comments and will throw a deprecation warning if used.
	pg_lo_create	The optional object_id was added.
	pg_lo_import	The optional object_id was added.
	preg_quote	The - character is now quoted
	property_exists	This function checks the existence of a property independent of accessibility.
	rawurlencode	Now conforms to RFC 3986.
	readlink	This function is now available on Windows platforms (Vista, Server 2008 or greater).
	realpath	Prior to this release, if only the last path component did not exist, realpath would not fail on *BSD systems. realpath now fails in this case.
	register_tick_function	Ticks are now supported on threaded web server modules.
	round	The mode parameter was introduced.
	session_start	If a session fails to start, then FALSE is returned. Previously TRUE was returned.
	setlocale	This function now throws an E_DEPRECATED notice if a string is passed to the category parameter instead of one of the LC_* constants.
	shm_attach	This function now returns a resource instead of an integer.
	socket_create_pair	This function is now available on Windows platforms.
	spl_autoload_register	The prepend parameter was added.
	spl_autoload_register	Namespaces support was introduced.
	stream_context_create	Added the optional params argument.
	stream_socket_pair	This function is now available on Windows platforms.
	stristr	Added the optional parameter before_needle.
	strlen	Prior versions treated arrays as the string Array, thus returning a string length of 5 and emitting an E_NOTICE level error.
	strstr	Added the optional parameter before_needle.

Version	Function	Description
	<u>strtotime</u>	Prior to PHP 5.3.0, relative time formats supplied to the time argument of strtotime such as this week, previous week, last week, and next week were interpreted to mean a 7 day period relative to the current date/time, rather than a week period of Monday through Sunday.
	<u>strtotime</u>	Prior to PHP 5.3.0, 24:00 was not a valid format and strtotime returned FALSE.
	<u>sybase_connect</u>	The new parameter was added.
	<u>symlink</u>	This function is now available on Windows platforms (Vista, Server 2008 or greater).
	<u>time_nanosleep</u>	This function is now available on Windows platforms.
	<u>time_sleep_until</u>	This function is now available on Windows platforms.
	<u>touch</u>	It became possible to change the modification time of a directory under Windows.
	<u>mysqli::__construct</u>	Added the ability of persistent connections.
	<u>mysqli::options</u>	The MYSQLI_OPT_INT_AND_FLOAT_NATIVE, MYSQLI_OPT_NET_CMD_BUFFER_SIZE, MYSQLI_OPT_NET_READ_BUFFER_SIZE, and MYSQLI_OPT_SSL_VERIFY_SERVER_CERT options were added.
	<u>mysqli::query</u>	Added the ability of async queries.
	<u>PDO::__construct</u>	Classes which extends PDO and implements the __call magic method will now receive the method name in the declared casing. Previously this was always lower case.
	<u>ReflectionFunction::__construct</u>	name can now be a closure.
	<u>SplFileObject::setCsvControl</u>	Added the escape parameter.
	<u>SplObjectStorage::attach</u>	Added the data parameter.
	<u>XMLReader::expand</u>	The parameter basenode was added.
5.2.15	<u>mysqli_driver::\$report_mode</u>	Changing the reporting mode is now be per-request, rather than per-process.
5.2.11	<u>get_defined_constants</u>	The categorize parameter now operates appropriately. Previously, the categorize parameter was interpreted as !is_null(\$categorize), making any value other than NULL force the constants to be categorized.
5.2.10	<u>array_rand</u>	The resulting array of keys is no longer shuffled.
	<u>array_unique</u>	Changed the default value of sort_flags back to SORT_STRING.
	<u>curl_setopt</u>	Introduced CURLOPT_PROTOCOLS, and CURLOPT_REDIR_PROTOCOLS.

Version	Function	Description
	ip2long	Prior to this version, ip2long would sometimes return a valid number even if passed a value which was not an (IPv4) Internet Protocol dotted address.
	natsort	Zero padded numeric strings (e.g., '00005') now essentially ignore the 0 padding.
5.2.9	array_unique	Added the optional sort_flags defaulting to SORT_REGULAR. Prior to 5.2.9, this function used to sort the array with SORT_STRING internally.
5.2.8	XSLTProcessor::importStylesheet	Accepts SimpleXMLElement again which was broken since PHP 5.2.6.
5.2.7	error_log	The possible value of 4 was added to message_type.
	parse_ini_file	On syntax error this function will return FALSE rather than an empty array.
	round	The inner workings of round was changed to conform to the C99 standard.
	strtotime	In PHP 5 prior to 5.2.7, requesting a given occurrence of a given weekday in a month where that weekday was the first day of the month would incorrectly add one week to the returned timestamp. This has been corrected in 5.2.7 and later versions.
5.2.6	fopen	The 'c' and 'c+' options were added
5.2.5	addcslashes	The escape sequences \v and \f were added.
	debug_backtrace	Added the optional parameter provide_object.
	imagefilter	Alpha support for IMG_FILTER_COLORIZE was added.
5.2.4	array_slice	The default value of the length parameter was changed to NULL. A NULL length now tells the function to use the length of array. Prior to this version, a NULL length was taken to mean a zero length (nothing will be returned).
	checkdnsrr	TXT type was added.
	curl_getinfo	Introduced CURLINFO_PRIVATE.
	curl_setopt	Introduced CURLOPT_PRIVATE.
	get_loaded_extensions	The optional zend_extensions parameter was added
	ldap_first_attribute	The ber_identifier was removed. This is now handled automatically by PHP.
	ldap_next_attribute	The ber_identifier was removed. This is now handled automatically by PHP.

Version	Function	Description
	parse_ini_file	Keys and section names consisting of numbers are now evaluated as PHP integers thus numbers starting by 0 are evaluated as octals and numbers starting by 0x are evaluated as hexadecimal.
	stream_wrapper_register	Added the flags parameter.
5.2.3	getimagesize	Read errors generated by this function downgraded to E_NOTICE from E_WARNING.
	htmlentities	The double_encode parameter was added.
	htmlspecialchars	The double_encode parameter was added.
	json_decode	The nesting limit was increased from 20 to 128
	XMLWriter::writeElement	The content parameter became optional.
	XMLWriter::writeElementNs	The content parameter became optional.
	PDOStatement::getColumnMeta	table field
5.2.2 - 5.2.6	substr	If the start parameter indicates the position of a negative truncation or beyond, false is returned. Other versions get the string from start.
5.2.2	DOMDocument::registerNodeClass	Prior to 5.2.2, a previously registered extendedclass had to be unregistered before being able to register a new class extending the same baseclass.
	date_sun_info	The order of latitude and longitude has been swapped.
	ftp_ssl_connect	The function was changed to return FALSE when it can't use an SSL connection, instead of falling back to a non-SSL one as previously.
	phpinfo	The "Loaded Configuration File" information was added, when before only "Configuration File (php.ini) Path" existed.
	preg_match	Named subpatterns now accept the syntax (?<name>) and (?'name') as well as (?P<name>). Previous versions accepted only (?P<name>).
	preg_match_all	Named subpatterns now accept the syntax (?<name>) and (?'name') as well as (?P<name>). Previous versions accepted only (?P<name>).
	proc_terminate	Previous versions used to destroy the given process resource.
	token_get_all	Line numbers are returned in element 2
5.2.1	iterator_to_array	The use_keys parameter was added.
	json_decode	Added support for JSON decoding of basic types.
	memory_get_peak_usage	Compiling with --enable-memory-limit is no longer required for this function to exist.
	memory_get_usage	Compiling with --enable-memory-limit is no longer required for this function to exist.

Version	Function	Description
	<u>mt_srand</u>	The Mersenne Twister implementation in PHP now uses a new seeding algorithm by Richard Wagner. Identical seeds no longer produce the same sequence of values they did in previous versions. This behavior is not expected to change again, but it is considered unsafe to rely upon it nonetheless.
	<u>proc_open</u>	Added the <code>bypass_shell</code> option to the <code>other_options</code> parameter.
	<u>realpath</u>	Prior to this version, <code>realpath</code> returned <code>FALSE</code> if path is an empty string or <code>NULL</code> .
5.2.0	<u>base64_decode</u>	<code>strict</code> added
	<u>curl_multi_info_read</u>	<code>msgs_in_queue</code> was added.
	<u>error_reporting</u>	<code>E_RECOVERABLE_ERROR</code> introduced.
	<u>imagettftext</u>	It is now possible to specify an hexadecimal entity in text.
	<u>imap_open</u>	<code>n_retries</code> added
	<u>imap_reopen</u>	<code>n_retries</code> added
	<u>mb_strrpos</u>	Added the optional parameter <code>offset</code> .
	<u>memory_get_peak_usage</u>	<code>real_usage</code> was added.
	<u>memory_get_usage</u>	<code>real_usage</code> was added.
	<u>openssl_verify</u>	The <code>signature_alg</code> parameter was added.
	<u>pathinfo</u>	The <code>PATHINFO_FILENAME</code> constant was added.
	<u>pg_escape_bytea</u>	connection added
	<u>pg_escape_string</u>	connection added
	<u>session_get_cookie_params</u>	The "httponly" entry was added in the returned array.
	<u>session_set_cookie_params</u>	The <code>httponly</code> parameter was added.
	<u>set_error_handler</u>	The error handler must return <code>FALSE</code> to populate <code>\$php_errormsg</code> .
	<u>setcookie</u>	The <code>httponly</code> parameter was added.
	<u>setrawcookie</u>	The <code>httponly</code> parameter was added.
	<u>snmp_set_oid_numeric_print</u>	Since PHP 5.2.0.
	<u>PDOStatement::execute</u>	The keys from <code>input_parameters</code> must match the ones declared in the SQL. Before PHP 5.2.0 this was silently ignored.
	<u>SimpleXMLElement::children</u>	The optional parameter <code>is_prefix</code> was added.
	<u>SimpleXMLElement::__construct</u>	Added the <code>ns</code> and <code>is_prefix</code> parameters.
	<u>SoapServer::SoapServer</u>	Added the <code>typemap</code> option.
	<u>XMLReader::open</u>	encoding and options were added.
	<u>XMLReader::XML</u>	encoding and options were added.

Version	Function	Description
5.1.3	DirectoryIterator::__construct	Throws RuntimeException if the path is an empty string.
	curl_getinfo	Introduced CURLINFO_HEADER_OUT.
	get_headers	This function now uses the default stream context, which can be set/changed with the stream_context_set_default function.
	http_build_query	Square brackets are escaped.
	imagecolorallocate	Returns FALSE if the allocation failed. Previously -1 was returned.
	imagecolorallocatealpha	Returns FALSE if the allocation failed. Previously -1 was returned.
	imagepng	Added the filters parameter.
	mb_get_info	The entries "mail_charset", "mail_header_encoding", and "mail_body_encoding" were made available.
	SoapClient::__doRequest	The one_way parameter was added.
	XMLReader::getAttribute	Return NULL if no attribute found. Previously, returned an empty string.
5.1.2	date_default_timezone_set	The function started to validate the timezone_identifier parameter.
	header	This function now prevents more than one header to be sent at once as a protection against header injection attacks.
	http_build_query	The arg_separator parameter was added.
	imagepng	Added the quality parameter.
	parse_url	Added the component parameter.
	SimpleXMLElement::__construct	Added the options and data_is_url parameters.
5.1.1	date	There are useful constants of standard date/time formats that can be used to specify the format parameter.
	debug_backtrace	Added the current object as a possible return element.
	gmdate	There are useful constants of standard date/time formats that can be used to specify the format parameter.
5.1.0	DirectoryIterator::__construct	Throws RuntimeException on error. Previously, threw Exception.
	DOMDocument::save	Added the options parameter
	DOMDocument::saveXML	Added the options parameter
	class_implements	Added the option to pass the class parameter as a string. Added the autoload parameter.
	class_parents	Added the option to pass the class parameter as a string. Added the autoload parameter.

Version	Function	Description
	<u>ctype_digit</u>	Before PHP 5.1.0, this function returned TRUE when text was an empty string.
	<u>curl_setopt</u>	Introduced CURLOPT_AUTOREFERER, CURLOPT_BINARYTRANSFER, CURLOPT_FTPSSLAUTH, CURLOPT_PROXYAUTH, and CURLOPT_TIMECONDITION.
	<u>date</u>	The valid range of a timestamp is typically from Fri, 13 Dec 1901 20:45:54 GMT to Tue, 19 Jan 2038 03:14:07 GMT. (These are the dates that correspond to the minimum and maximum values for a 32-bit signed integer). However, before PHP 5.1.0 this range was limited from 01-01-1970 to 19-01-2038 on some systems (e.g. Windows).
	<u>date</u>	Now issues the E_STRICT and E_NOTICE time zone errors.
	<u>date_sunrise</u>	Now issues the E_STRICT and E_NOTICE time zone errors.
	<u>date_sunset</u>	Now issues the E_STRICT and E_NOTICE time zone errors.
	<u>explode</u>	Support for negative limits was added
	<u>fgetcsv</u>	The length is now optional. Default is 0, meaning no length limit.
	<u>file_get_contents</u>	Added the offset and maxlen parameters.
	<u>file_put_contents</u>	Added support for LOCK_EX and the ability to pass a stream resource to the data parameter
	<u>get_parent_class</u>	If called without parameter outside object, this function would have returned NULL with a warning, but now returns FALSE.
	<u>gettimeofday</u>	The return_float parameter was added.
	<u>glob</u>	GLOB_ERR was added
	<u>gmdate</u>	The valid range of a timestamp is typically from Fri, 13 Dec 1901 20:45:54 GMT to Tue, 19 Jan 2038 03:14:07 GMT. (These are the dates that correspond to the minimum and maximum values for a 32-bit signed integer). However, before PHP 5.1.0 this range was limited from 01-01-1970 to 19-01-2038 on some systems (e.g. Windows).
	<u>gmmktime</u>	As of PHP 5.1.0, the is_dst parameter became deprecated. As a result, the new timezone handling features should be used instead.
	<u>idate</u>	Now issues the E_STRICT and E_NOTICE time zone errors.
	<u>imagerotate</u>	ignore_transparent was added.

Version	Function	Description
	intval	Throws E_NOTICE and returns 1, when an object is passed to var.
	localtime	Now issues the E_STRICT and E_NOTICE time zone errors.
	md5_file	Changed the function to use the streams API. It means that you can use it with wrappers, like <code>md5_file('http://example.com/..')</code>
	mktime	Now issues the E_STRICT and E_NOTICE time zone errors.
	mktime	When called with no arguments, mktime throws E_STRICT notice. Use the time function instead.
	mktime	The <code>is_dst</code> parameter became deprecated. Made the function return FALSE on error, instead of -1. Fixed the function to accept the year, month and day to be all passed as zero.
	mssql_connect	The <code>new_link</code> parameter was added
	openssl_pkcs7_verify	The <code>content</code> parameter was added.
	preg_replace	Added the <code>count</code> parameter
	preg_replace_callback	The <code>count</code> parameter was added
	session_regenerate_id	Added the <code>delete_old_session</code> parameter.
	sha1_file	Changed the function to use the streams API. It means that you can use it with wrappers, like <code>sha1_file('http://example.com/..')</code>
	str_word_count	Added the <code>charlist</code> parameter
	stream_copy_to_stream	Added the <code>offset</code> parameter
	stream_filter_append	Prior to PHP 5.1.0, this function returns TRUE on success or FALSE on failure.
	stream_filter_prepend	Prior to PHP 5.1.0, this function returns TRUE on success or FALSE on failure.
	stream_get_contents	The <code>offset</code> was added.
	strftime	Now issues the E_STRICT and E_NOTICE time zone errors.
	strtotime	Now issues the E_STRICT and E_NOTICE time zone errors.
	strtotime	Now returns FALSE on failure, instead of -1.
	substr_compare	Added the possibility to use a negative offset.
	substr_count	Added the <code>offset</code> and the <code>length</code> parameters
	var_export	Possibility to export classes and arrays containing classes using the <code>__set_state()</code> magic method.
	XSLTProcessor::registerPHPFunctions	The <code>restrict</code> parameter was added.
5.0.5	php_check_syntax	This function was removed from PHP.

Version	Function	Description
5.0.4	mysql_fetch_array	A bug was fixed when retrieving data from columns containing NULL values. Such columns were not placed into the resulting array.
	mysql_fetch_object	A bug was fixed when retrieving data from columns containing NULL values. Such columns were not placed into the resulting array.
	mysql_fetch_row	A bug was fixed when retrieving data from columns containing NULL values. Such columns were not placed into the resulting array.
5.0.3	get_class_vars	get_class_vars will only return the properties that can be accessed from the current scope.
	is_subclass_of	You may also specify the object parameter as a string (the name of the class)
	php_check_syntax	Calling exit after php_check_syntax resulted in a Segfault.
5.0.2	array_slice	The optional preserve_keys parameter was added.
	class_exists	No longer returns TRUE for defined interfaces. Use interface_exists.
	get_class_vars	Calling get_class_vars will now expose all the properties as an array, unlike previous behaviour where protected and private properties were prefixed with nul bytes.
	sort	Added SORT_LOCALE_STRING
	strtotime	In PHP 5 up to 5.0.2, "now" and other relative times are wrongly computed from today's midnight. This differs from other versions where it is correctly computed from current time.
	get_class_vars	Calling get_class_vars will expose all properties, as when converting an object to a class.
5.0.1	php_check_syntax	error_message is passed by reference.
	curl_setopt	Introduced CURLOPT_FTP_USE_EPRT, CURLOPT_NOSIGNAL, CURLOPT_UNRESTRICTED_AUTH, CURLOPT_BUFFERSIZE, CURLOPT_HTTPAUTH, CURLOPT_PROXYPORT, CURLOPT_PROXYTYPE, CURLOPT_SSLCERTTYPE, and CURLOPT_HTTP200ALIASES.
5.0.0	is_a	This function became deprecated in favour of the instanceof operator. Calling this function will result in an E_STRICT warning.
	strtotime	Microseconds began to be allowed, but they are ignored.

There are no user contributed notes for this page.

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