PHP Error and Logging Functions

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PHP Error and Logging Introduction

The error and logging functions allows error handling and logging.

The error functions allow users to define error handling rules, and modify the way the errors can be logged.

The logging functions allow users to log applications and send log messages to email, system logs or other machines.

Installation

The error and logging functions are part of the PHP core. There is no installation needed to use these functions.

PHP Error and Logging Functions

**PHP**: indicates the earliest version of PHP that supports the function.

|  |  |  |
| --- | --- | --- |
| **Function** | **Description** | **PHP** |
| [debug\_backtrace()](http://www.w3schools.com/php/func_error_debug_backtrace.asp) | Generates a backtrace | 4 |
| [debug\_print\_backtrace()](http://www.w3schools.com/php/func_error_debug_print_backtrace.asp) | Prints a backtrace | 5 |
| [error\_get\_last()](http://www.w3schools.com/php/func_error_get_last.asp) | Gets the last error occurred | 5 |
| [error\_log()](http://www.w3schools.com/php/func_error_log.asp) | Sends an error to the server error-log, to a file or to a remote destination | 4 |
| [error\_reporting()](http://www.w3schools.com/php/func_error_reporting.asp) | Specifies which errors are reported | 4 |
| [restore\_error\_handler()](http://www.w3schools.com/php/func_error_restore_error_handler.asp) | Restores the previous error handler | 4 |
| [restore\_exception\_handler()](http://www.w3schools.com/php/func_error_restore_exception_handler.asp) | Restores the previous exception handler | 5 |
| [set\_error\_handler()](http://www.w3schools.com/php/func_error_set_error_handler.asp) | Sets a user-defined function to handle errors | 4 |
| [set\_exception\_handler()](http://www.w3schools.com/php/func_error_set_exception_handler.asp) | Sets a user-defined function to handle exceptions | 5 |
| [trigger\_error()](http://www.w3schools.com/php/func_error_trigger_error.asp) | Creates a user-defined error message | 4 |
| [user\_error()](http://www.w3schools.com/php/func_error_user_error.asp) | Alias of trigger\_error() | 4 |

PHP Error and Logging Constants

**PHP**: indicates the earliest version of PHP that supports the constant.

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| --- | --- | --- | --- |
| **Value** | **Constant** | **Description** | **PHP** |
| 1 | E\_ERROR | Fatal run-time errors. Errors that cannot be recovered from. Execution of the script is halted |  |
| 2 | E\_WARNING | Non-fatal run-time errors. Execution of the script is not halted |  |
| 4 | E\_PARSE | Compile-time parse errors. Parse errors should only be generated by the parser |  |
| 8 | E\_NOTICE | Run-time notices. The script found something that might be an error, but could also happen when running a script normally |  |
| 16 | E\_CORE\_ERROR | Fatal errors at PHP startup. This is like an E\_ERROR in the PHP core | 4 |
| 32 | E\_CORE\_WARNING | Non-fatal errors at PHP startup. This is like an E\_WARNING in the PHP core | 4 |
| 64 | E\_COMPILE\_ERROR | Fatal compile-time errors. This is like an E\_ERROR generated by the Zend Scripting Engine | 4 |
| 128 | E\_COMPILE\_WARNING | Non-fatal compile-time errors. This is like an E\_WARNING generated by the Zend Scripting Engine | 4 |
| 256 | E\_USER\_ERROR | Fatal user-generated error. This is like an E\_ERROR set by the programmer using the PHP function trigger\_error() | 4 |
| 512 | E\_USER\_WARNING | Non-fatal user-generated warning. This is like an E\_WARNING set by the programmer using the PHP function trigger\_error() | 4 |
| 1024 | E\_USER\_NOTICE | User-generated notice. This is like an E\_NOTICE set by the programmer using the PHP function trigger\_error() | 4 |
| 2048 | E\_STRICT | Run-time notices. PHP suggest changes to your code to help interoperability and compatibility of the code | 5 |
| 4096 | E\_RECOVERABLE\_ERROR | Catchable fatal error. This is like an E\_ERROR but can be caught by a user defined handle (see also set\_error\_handler()) | 5 |
| 6143 | E\_ALL | All errors and warnings, except of level E\_STRICT | 5 |