

# PHP – Deprecated Features

As some new features are added with each new version, some features are also removed as they are deemed to be obsolete. In this chapter, we have a look at deprecated features after PHP version 5.

## Deprecated in PHP Ver 7

### PHP 4 Style Constructors

PHP 4 style Constructors are methods having same name as the class they are defined in, are now deprecated, and will be removed in the future. PHP 7 will emit E\_DEPRECATED if a PHP 4 constructor is the only constructor defined within a class. Classes implementing a `__construct()` method are unaffected.

### Example

Take a look at the following example –

```
<?php
class A {
    function A() {
        print('Style Constructor');
    }
}
?>
```

It produces the following **output** on the browser –

Deprecated: Methods with the same name as their class will not be constructors in a future version of PHP; A has a deprecated constructor in...

### Static Calls to Non-static Methods

Static calls to non-static methods are deprecated, and may be removed in the future.

### Example

Take a look at the following example –

```
<?php
class A {
    function b() {
        print('Non-static call');
    }
}
A::b();
?>
```

It produces the following **output** on the browser –

```
Deprecated: Non-static method A::b() should not be called statically in...
Non-static call
```

## password\_hash() salt option

The salt option for the password\_hash() function has been deprecated so that the developers do not generate their own (usually insecure) salts. The function itself generates a cryptographically secure salt, when no salt is provided by the developer - thus custom salt generation is not required any more.

## capture\_session\_meta SSL context option

The capture\_session\_meta SSL context option has been deprecated. SSL metadata is now used through the stream\_get\_meta\_data() function.

## ext/mcrypt

The mcrypt extension has been deprecated in favour of OpenSSL.

## Unquoted Strings

Unquoted strings that are non-existent global constants are taken to be strings of themselves. This behaviour used to emit an E\_NOTICE, but will now emit an E\_WARNING. In the next major version of PHP, an Error exception will be thrown instead.

## The \_\_autoload() Method

The \_\_autoload() method has been deprecated because it is inferior to spl\_autoload\_register() (due to it not being able to chain autoloaders), and there is no interoperability between the two autoloading styles.

## The create\_function() Function

Given the security issues of this function has now been deprecated. The preferred alternative is to use anonymous functions.

## The each() Function

This function causes implementation issues for some language changes. It has therefore been deprecated.

## Case-Insensitive Constants

The declaration of case-insensitive constants has been deprecated. Passing true as the third argument to define() will now generate a deprecation warning.

## The (real) and is-real() Function

The (real) cast is deprecated, use (float) instead. The is\_real() function is also deprecated, use is\_float() instead.

## The "parent" Leyword

Using parent inside a class without a parent is deprecated, and will throw a compile-time error in the future. Currently an error will only be generated if/when the parent is accessed at run-time.

## Deprecated in PHP Ver 8

If a parameter with a default value is followed by a required parameter, the default value has no effect. This is deprecated as of PHP 8.0.0 and can generally be resolved by dropping the default value, without a change in functionality –

```
<?php
function test($a = [], $b) {} // Before
function test($a, $b) {}     // After
?>
```

One exception to this rule are parameters of the form Type \$param = null, where the null default makes the type implicitly nullable. This usage remains allowed, but it is recommended to use an explicit nullable type instead –

```
<?php
function test(A $a = null, $b) {} // Still allowed
```

```
function test(?A $a, $b) {}           // Recommended
?>
```

Calling `get_defined_functions()` with `exclude_disabled` explicitly set to `false` is deprecated and no longer has an effect. `get_defined_functions()` will never include disabled functions.

Sort comparison functions that return `true` or `false` will now throw a deprecation warning, and should be replaced with an implementation that returns an integer less than, equal to, or greater than zero.

```
<?php
// Replace
usort($array, fn($a, $b) => $a > $b);
// With
usort($array, fn($a, $b) => $a <=> $b);
?>
```

## Implicit Incompatible float to int Conversions

The implicit conversion of float to int which leads to a loss in precision is now deprecated. This affects array keys, int type declarations in coercive mode, and operators working on ints.

## Calling a Static Element on a Trait

Calling a static method, or accessing a static property directly on a trait is deprecated. Static methods and properties should only be accessed on a class using the trait.

## Date Functions

`date_sunrise()` and `date_sunset()` have been deprecated. Use `date_sun_info()` instead.

`strtotime()` has been deprecated. Use `date_parse_from_format()` instead (for locale-independent parsing), or `IntlDateFormatter::parse()` (for locale-dependent parsing).

`strftime()` and `gmstrftime()` have been deprecated. You can use `date()` instead (for locale-independent formatting), or `IntlDateFormatter::format()` (for locale-dependent formatting).

## Dynamic Properties

The creation of dynamic properties is deprecated. Instead, use `stdClass` that allows dynamic properties.

