

What's new in *PHP* 7.3

PHP User Group Rheinhessen #55 (16.10.2018)

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PHP 7.3 Timeline

Alpha 1 am 7. Juni 2018, Beta 1 am 2. August 2018, RC 1 am 13. September 2018

Geplantes Release-Datum: *13. Dezember 2018*

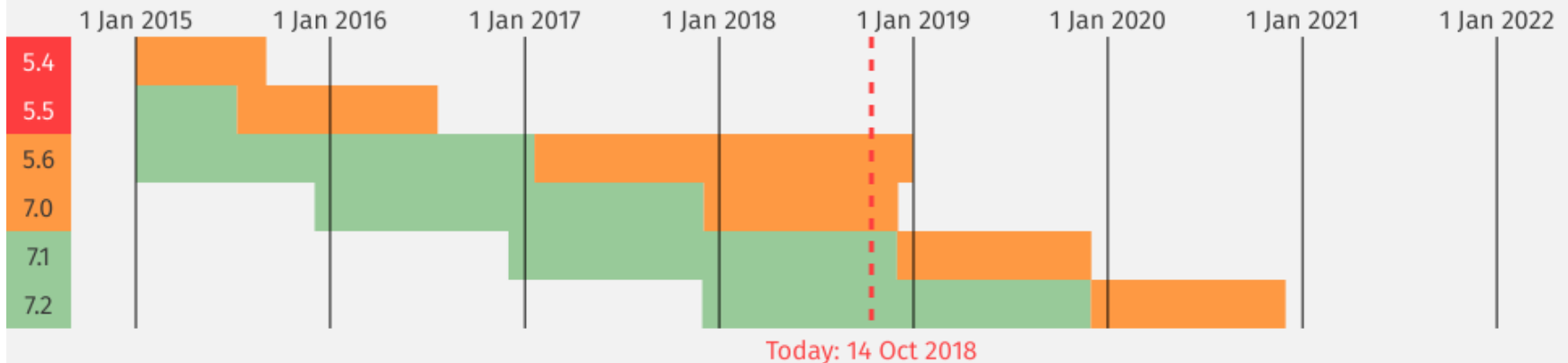
Release-Manager: Christoph M. Becker, Stanislav Malyshev

Aktuelle Versionen (Stand: 14.10.2018)

Currently Supported Versions

Branch	Initial Release		Active Support Until		Security Support Until	
5.6 *	28 Aug 2014	4 years, 1 month ago	19 Jan 2017	1 year, 8 months ago	31 Dec 2018	in 2 months
7.0	3 Dec 2015	2 years, 10 months ago	3 Dec 2017	10 months ago	3 Dec 2018	in 1 month
7.1	1 Dec 2016	1 year, 10 months ago	1 Dec 2018	in 1 month	1 Dec 2019	in 1 year, 1 month
7.2	30 Nov 2017	10 months ago	30 Nov 2019	in 1 year, 1 month	30 Nov 2020	in 2 years, 1 month

Or, visualised as a calendar:



Running/testing PHP 7.3 in Docker

```
$ docker run -it --rm -v "$PWD":/app -w /app \
php:7.3.0RC3-cli php index.php
```

Heredoc/Nowdoc Closing Marker Indentation

```
<?php
class HeredocExample {
    public $content = <<<EOT
        Ich bin
        ein wichtiger
        Text
        EOT;
}
$ex = new HeredocExample();
echo $ex->content;

    Ich bin
    ein wichtiger
    Text
```

Here doc/Now doc Closing Marker New Line

```
<?php
$values = [<<<END
a
b
c
END, 'd e f'];
```

Allow a trailing comma in function calls

Yes 30 : 10 No

```
<?php
$bar = function(...$args) {
    //
};
$bar(
    'closure',
    'bar',
);
// oder:
$foo = new Foo(
    'constructor',
    'bar',
);
// oder:
var_dump(
    $whatIsInThere,
    $probablyABugInThisOne,
    $oneMoreToCheck,
);
```

JSON_THROW_ON_ERROR

This RFC instead proposes adding a new option flag value for `json_decode()` and `json_encode()`, `JSON_THROW_ON_ERROR`. When passed this flag, the error behaviour of these functions is changed. The global error state is left untouched, and if an error occurs that would otherwise set it, these functions instead throw a `JsonException` with the message and code set to whatever `json_last_error()` and `json_last_error_msg()` would otherwise be respectively.

```
try {  
    json_decode("{", false, 512, JSON_THROW_ON_ERROR);  
} catch (\JsonException $exception) {  
    echo $exception->getMessage();  
}
```


list() Reference Assignment

```
$array = [1, 2];  
list($a, &$amp;b) = $array;
```

macht das gleiche wie:

```
$array = [1, 2];  
$a = $array[0];  
$b =& $array[1];
```

is_countable

```
bool is_countable(mixed $var)
```

Beispiel:

```
// bisher  
if (is_array($foo) || $foo instanceof Countable) {  
    // $foo is countable  
}  
  
// PHP 7.3  
if (is_countable($foo)) {  
    // $foo is countable  
}
```

array_key_first(), array_key_last()

```
$array = ['a' => 1, 'b' => 2, 'c' => 3];  
  
$firstKey = array_key_first($array);  
$lastKey = array_key_last($array);  
assert($firstKey === 'a');  
assert($lastKey === 'c');
```

Deprecations 1/2

- Undocumented mbstring function aliases: `mbereg_replace()`
-> `mb_ereg_replace()`

- String search functions with integer needle

```
$str = "There are 10 apples";  
var_dump(strpos($str, "10")); // int(10)  
var_dump(strpos($str, 10));  // bool(false)
```

- `fgetss()` function and `string.strip_tags` filter:
| `fgetss` â€” Gets line from file pointer and strip HTML tags
- Defining a free-standing `assert()` function

Deprecations 2/2

- `FILTER_FLAG_SCHEME_REQUIRED` and `FILTER_FLAG_HOST_REQUIRED`
- `pdo_odbc.db2_instance_name` php.ini directive
- `each()` - use `foreach` instead (it is more than 10 times faster)
- `assert()` with string argument - it is using `eval()` internally!
- `$errcontext` argument of error handler - use `debug_backtrace()` instead

Ausblick auf PHP 7.4: Typed Properties

```
class Example {  
    // All types with the exception of "void" and "callable"  
    public int $scalarType;  
    protected ClassName $classType;  
    private ?ClassName $nullableClassType;  
  
    // Types are also legal on static properties  
    public static iterable $staticProp;  
  
    // Types can also be used with the "var" notation  
    var bool $flag;  
  
    // Typed properties may have default values  
    public string $str = "foo";  
    public ?string $nullableStr = null;  
  
    // The type applies to all properties in one declaration  
    public float $x, $y;  
    // equivalent to:  
    public float $x;  
    public float $y;  
}
```

Community-driven PHP 8 Wish List Top 10

1. Generics
2. Arrow functions aka short lambdas
3. Multi-threading
4. Scalar objects
5. Method overloading
6. Async programming (ansync/await, promises, event loops)
7. Static typing (typed everything)
8. Remove `<?php` and `declare_strict` statement
9. Boot-time preloading
10. Property accessors

Thanks!