

PHP8 - What's New In PHP8? Cheat Sheet

by Dave Child (DaveChild) via cheatography.com/1/cs/27364/

PHP8 Variable Types	
Class/int- erface name	An instance of the class or interface
self	The same class the type is used in
parent	The parent of the class the type is used in
callable	Something callable
bool	A boolean
int	An integer
float	A float
string	A string
array	An array
iterable	Array or traversable
object	An object
mixed	Any value
Return Types	
void	Function will not return anything
static	Function may return stati

New mixed type Mixed means any one of: array bool callable string int resource float null object

Note that because mixed already contains null, it is not nullable itself.

Return static

Static is now a valid return type.

The nullsafe operator (copy)

\$foo = \$bar->getBaz()?>asFormatted();

Quickly check for nulls in method returns.

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Union types

public function foo(Foo|Bar
\$input): int|float;

You can now specify more than one type in a type hint:

- The void type cannot be part of a union.
- Unions can be nullable by including null as a type or preceding with a question mark.

Named arguments

```
function foo(string $a, int $b,

?string $c = null)
{
     ...
}
foo(
     c: 'value c',
     a: 'value a'
);
```

Pass values to functions and methods by name, regardless of the order in which they are defined.

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Attributes

```
use
App\Attributes\ExampleAttribute;
#[Exam ple Att ribute]
class Foo
{
    #[E xam ple Att ribute]
    public const FOO =
'foo';

    #[E xam ple Att ribute]
    public $x;

    #[E xam ple Att ribute]
    public function foo(#[ -
Exa mpl eAt tri bute] $bar) { }
```

Structured metadata

Match expression

Switch statements made simple. Note, the comparisons made by match use strict types.

Constructor property promotion

In the above example Currency and int are both automatically made public properties of the class and assigned values on construction.

Weak maps

A weak map allows for storage of key-value pairs, but the PHP garbage collection will drop a weak map element where the only reference to it is the weak map itself.

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Throw expression

```
$triggerError = fn () => throw
new MyError();
$foo = $bar[' off set'] ?? throw
new Custom Ex( 'of fset');
```

Throw is now an expression instead of a statement, making it more flexible.

Non-capturing catches

When you catch exceptions and throwables, you no longer need a variable.

::class on objects

```
$foo = new Foo();
var du mp( $fo o:: class);
```

Works the same as $get_cl ass()$.



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Trailing comma in parameter lists

```
public function (
        string $param eterA,
       int $param eterB,
       Foo $objec tfoo,
) {
       // ...
```

You can now end a parameter list with a comma without an error.

Create DateTime objects from interfaces

DateTi meI mmu tab le: :cr eat eFr omI nte -

rfa ce (Dat eTi meI nte rface \$other);

New Stringable interface (cont)

```
function bar(string|Stringable $stringable) { /
.../}
bar(new Foo());
bar('abc');
```

New functions

fdiv()

get_de bug _type()

get re sou rce id()

```
str co nta ins ('h ays tack', 'needle
```

Breaking Changes

Internal errors and engine warnings have been made consistent and/or reclassified.

The @ operator no longer silences fatal errors.

The default error reporting level is now $\operatorname{\mathbb{E}}\ \operatorname{AL}$

The default PDO error mode is no longer silent. Does

Concatenation precedence has changed addition now precedes concatenation.

Namespheres can now include reserved

DateTime::createFromInterface(DateTimeInterface str_st art s_w ith ('h ays tack', 'ne names

```
Reflaystacko nFu nct ion ::i sDi sa
b lstart witheflec tio nPa ram ete r:
: oneedle?ass() and Reflec tio nPa r
```

New Stringable interface

\$other);

```
class Foo
       public function toSt -
ring(): string
                return 'foo';
```

```
str_en ds_ wit h(' hay stack', 'needlam Does r:: isC all able() have been
                                         depresettedk
e')
                                         There are more breaking and engine
```

changes this list is limited to those you are mostl#kelleso encounter. For a full rundownivisherclowut Brent's article linked belowero without

an error.

With Thanks

Thispis (a) doubtdensed version of the excellent PHP8twriterep you can find by Brent at stitodetaib

Fetch the numeric ID of a resource



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