

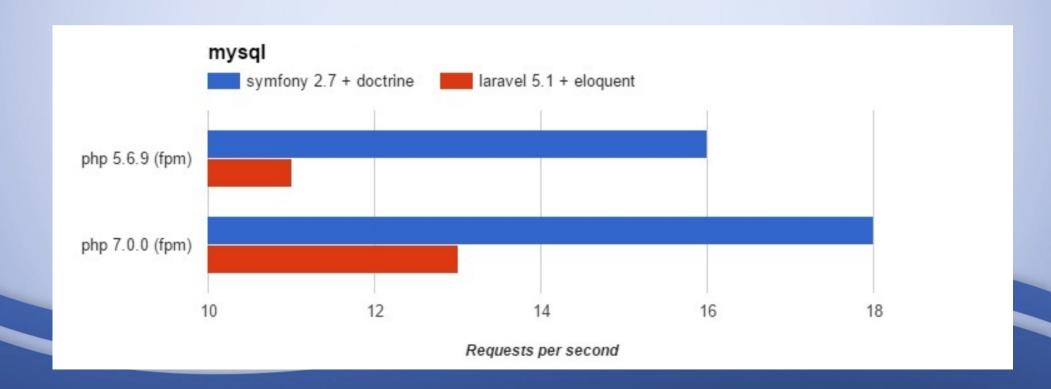
- Php 7 is two times faster than php 5.6
- Php 7 uses significantly less memory than php 5.6

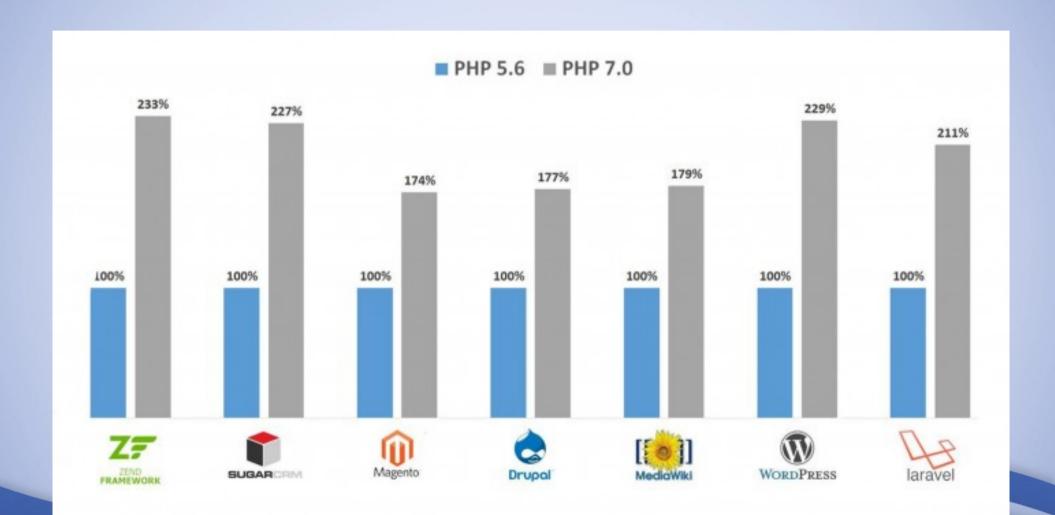


 Hello world – one action, one controller and one view. It was without any additional optimization.



 Mysql - one "INSERT INTO" using a standard tool for handing databases supplied with frameworks.





#### New features

- Scalar type declarations;
- Return type declarations;
- Null coalescing operator;
- Spaceship operator;
- Constant arrays using define();
- Anonymous classes;
- Filtered unserialize();
- IntlChar;

- Expectations;
- Group use declarations;
- Generator Return Expressions;
- Generator delegation;
- Integer division with intdiv();
- Session options;

Scalar type declarations come in two flavours: coercive (default) and strict. The following types for parameters can now be enforced (either coercively or strictly): strings (string), integers (int), floating-point numbers (float), and booleans (bool). They augment the other types introduced in PHP 5: class names, interfaces, array and callable.

```
//declare (strict_types=1);
function sumOld($a,$b){
    return $a+$b;
}

function sumNew(int $a, int $b) {
    return $a+$b;
}

echo "1: ".sumOld("10 abc",5)."<br>;
echo "2: ".sumNew("10 abc",5)."<br>;
echo "3: ".sumNew(10,5)." <br>;
echo "4: ".sumNew("10",5)." <br>;
echo "5: ".sumOld("10",5)."<br>;
echo "5: ".sumOld("10",5)."<br>;
```

Notice: A non well formed numeric value encountered in 2: 15

4: 15 5: 15

1:15

```
declare (strict_types=1);
echo "1: ".sumOld("10 abc",5)."<br>";
echo "2: ".sumNew("10 abc",5)."<br>";
echo "3: ".sumNew(10,5)." <br>";
echo "4: ".sumNew("10",5)." <br>";
echo "5: ".sumOld("10",5)."<br>";
```

1: 15

**Fatal error**: Uncaught TypeError: Argument 1 passed to sumNew() must be of the type integer, string given, called in /var/www/html/php7prezentacja/index.php on line 12 and defined in /var/www/html/php7prezentacja/index.php:7 Stack trace: #0 /var/www/html/php7prezentacja/index.php(12): sumNew('10 abc', 5) #1 {main} thrown in /var/www

```
declare (strict_types=1);
echo "1: ".sumOld("10 abc",5)."<br>"//echo "2: ".sumNew("10 abc",5)."<br>";
echo "3: ".sumNew(10,5)." <br>";
echo "4: ".sumNew("10",5)." <br>";
echo "5: ".sumOld("10",5)."<br>";
```

1: 15 3: 15

**Fatal error**: Uncaught TypeError: Argument 1 passed to sumNew() must be of the type integer, string given, called in /var/www/html/php7prezentacja/index.php on line 14 and defined in /var/www/html/php7prezentacja/index.php:7 Stack trace: #0 /var/www/html/php7prezentacja/index.php(14): sumNew('10', 5) #1 {main} thrown in /var/www

# Return type declarations

PHP 7 adds support for return type declarations. Similarly to argument type declarations, return type declarations specify the type of the value that will be returned from a function. The same types are available for return type declarations as are available for argument type declarations.

# Return type declarations

```
public function getName():String {
            return $this->name:
         public function getAge():int{
            return $this->age;
$userNew=new ClassTest;
$userNew->setName("Radek");
function setObject(ClassTest $object): ClassTest{
    $object->setLikeIt(false);
    $object->setInWollet(12.56);
    return $object;
$aaa=setObject($userNew);
var dump($aaa);
```

```
object(ClassTest)#1 (4) { ["name":"ClassTest":private]=> string(5) "Radek" ["age":"ClassTest":private]=> int(22) ["likeIt":"ClassTest":private]=> bool(false) ["cashInYourWallet":"ClassTest":private]=> float(12.56) }
```

# Return type declarations

**Fatal error**: Uncaught TypeError: Return value of setObject() must be an instance of ClassTest, string returned in /var/www/html/php7prezentacja/testCla.php:20 Stack trace: #0 /var/www/html/php7prezentacja/testCla.php(23): setObject(Object(ClassTest)) #1 {main} thrown in /var/www/html/php7prezentacja/testCla.php on line 20

#### Changed functions

- debug\_zval\_dump() now prints "int" instead of "long", and "float" instead of "double"
- dirname() now optionally takes a second parameter, depth, to get the name of the directory depth levels up from the current directory.
- getrusage() is now supported on Windows.
- mktime() and gmmktime() functions no longer accept is\_dst parameter.
- preg\_replace() function no longer supports "\e" (PREG\_REPLACE\_EVAL). preg\_replace\_callback() should be used instead.

# Changed functions

- setlocale() function no longer accepts category passed as string. LC\_\* constants must be used instead.
- exec(), system() and passthru() functions have NULL byte protection now.
- shmop\_open() now returns a resource instead of an int, which has to be passed to shmop\_size(), shmop\_write(), shmop\_read(), shmop\_close() and shmop\_delete().
- substr() and iconv\_substr() now return an empty string, if string is equal to start characters long.
- xml\_set\_object() now requires to manually unset the \$parser when finished, to avoid memory leaks.

#### **Removed Extensions**

- ereg
- mssql
- mysql
- sybase\_ct

#### Removed SAPIs

- aolserver
- apache
- apache\_hooks
- apache2filter
- caudum
- continuity
- isapi
- milter

- nsapi
- phttpd
- pi3web
- roxen
- thttpd
- tux
- webjames