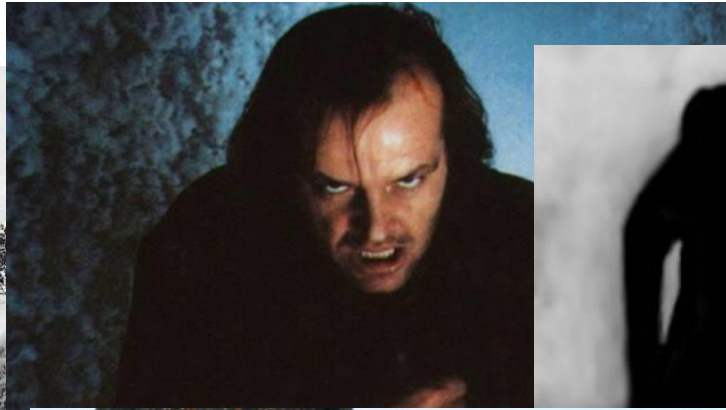


# **Coding Horrors**

**A Horror Film Fan's Guide to PHP  
Coding Nightmares**

# Coding Horrors



# Coding Horrors



# Coding Horrors – Friday the 13<sup>th</sup>





# Coding Horrors – Friday the 13<sup>th</sup>

```
// 3 month appointments
$date_to = date('d/m/Y');
$date_from = date("d/m/Y", strtotime(" +3 months"));

$get = "select * from appointments where date between '$date_from' and '$date_to'";
$get_connect = mysqli_query($con2, $get);
$get_rows = mysqli_num_rows($get_connect);
```

# Coding Horrors – Friday the 13<sup>th</sup>

```
mysql> select * from appointments;
```

```
+----+-----+-----+
| id | date      | appointment          |
+----+-----+-----+
| 1  | 2/1/2018  | PHPNW January meetup |
| 2  | 6/2/2018  | PHPNW February Meetup |
| 3  | 6/3/2018  | PHPNW March Meetup   |
| 4  | 3/4/2018  | PHPNW April Meetup   |
| 5  | 1/5/2018  | PHPNW May Meetup     |
| 6  | 5/6/2018  | PHPNW June Meetup    |
| 7  | 3/7/2018  | PHPNW July Meetup    |
| 8  | 7/8/2018  | PHPNW August Meetup  |
| 9  | 4/9/2018  | PHPNW September Meetup |
| 10 | 2/10/2018 | PHPNW October Meetup |
| 11 | 6/11/2018 | PHPNW November Meetup |
| 12 | 4/12/2018 | PHPNW December Meetup |
+----+-----+-----+
12 rows in set (0.01 sec)
```

```
mysql> select * from appointments
```

```
    -> where date between '2/1/2018' and '5/1/2018';
```

```
+----+-----+-----+
| id | date      | appointment          |
+----+-----+-----+
| 1  | 2/1/2018  | PHPNW January meetup |
| 4  | 3/4/2018  | PHPNW April Meetup   |
| 7  | 3/7/2018  | PHPNW July Meetup    |
| 9  | 4/9/2018  | PHPNW September Meetup |
| 10 | 2/10/2018 | PHPNW October Meetup |
| 12 | 4/12/2018 | PHPNW December Meetup |
+----+-----+-----+
6 rows in set (0.00 sec)
```

# Coding Horrors



# Coding Horrors – The Ring





# Coding Horrors – The Ring

```
$studentArray = array();
$query1 = "SELECT * FROM students ORDER BY name";
$studentList = mysqli_query($conn,$query1)
    or die ("cannot query the table1: " . mysqli_error($conn));
while ($student = mysqli_fetch_array($studentList)) {
    $studentId = $student['id'];
    $courses = array();
    $query2 = "SELECT * FROM classes WHERE student_id='$studentId'";
    $classList = mysqli_query($conn,$query2)
        or die ("cannot query the table2: " . mysqli_error($conn));
    while ($class = mysqli_fetch_array($classList)) {
        array_push($classes, $class['name']);
    }
    array_push($studentArray, array($studentId, $student['name'], implode(', ', $classes)));
}
```

# Coding Horrors – The Ring

```
SELECT student.id,  
       student.name,  
       group_concat(class.name separator ', ') as class_names  
FROM students as student  
LEFT JOIN classes as class  
      ON class.student_id = student.id  
GROUP BY student.id,  
         student.name  
ORDER BY student.name;
```

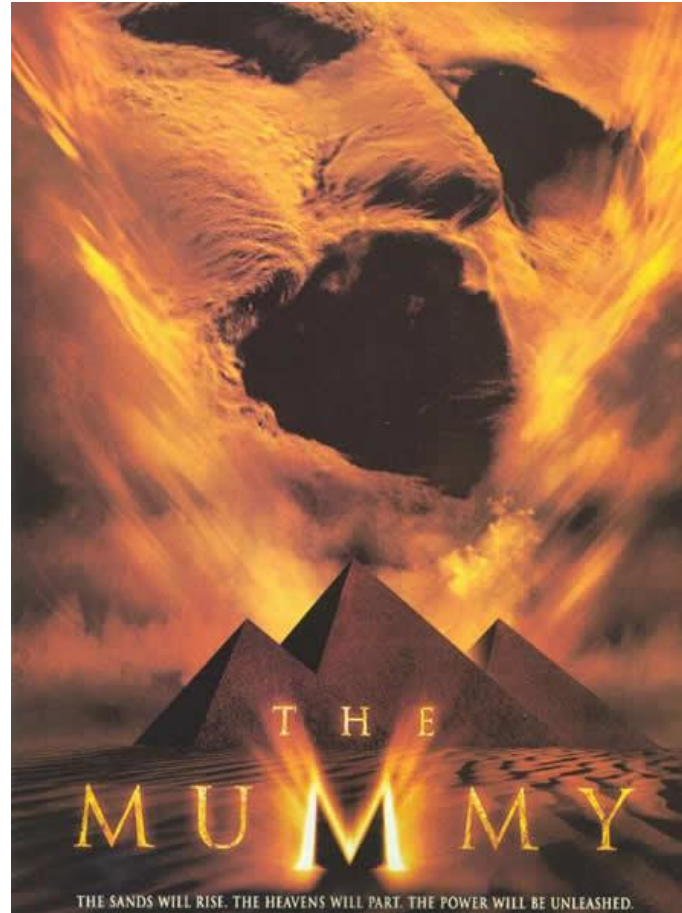
# Coding Horrors – The Ring

```
SELECT student.id,  
       student.name,  
       class.name as class_name  
FROM students as student  
LEFT JOIN classes as class  
      ON class.student_id = student.id  
ORDER BY student.name;
```

# Coding Horrors



# Coding Horrors – The Mummy





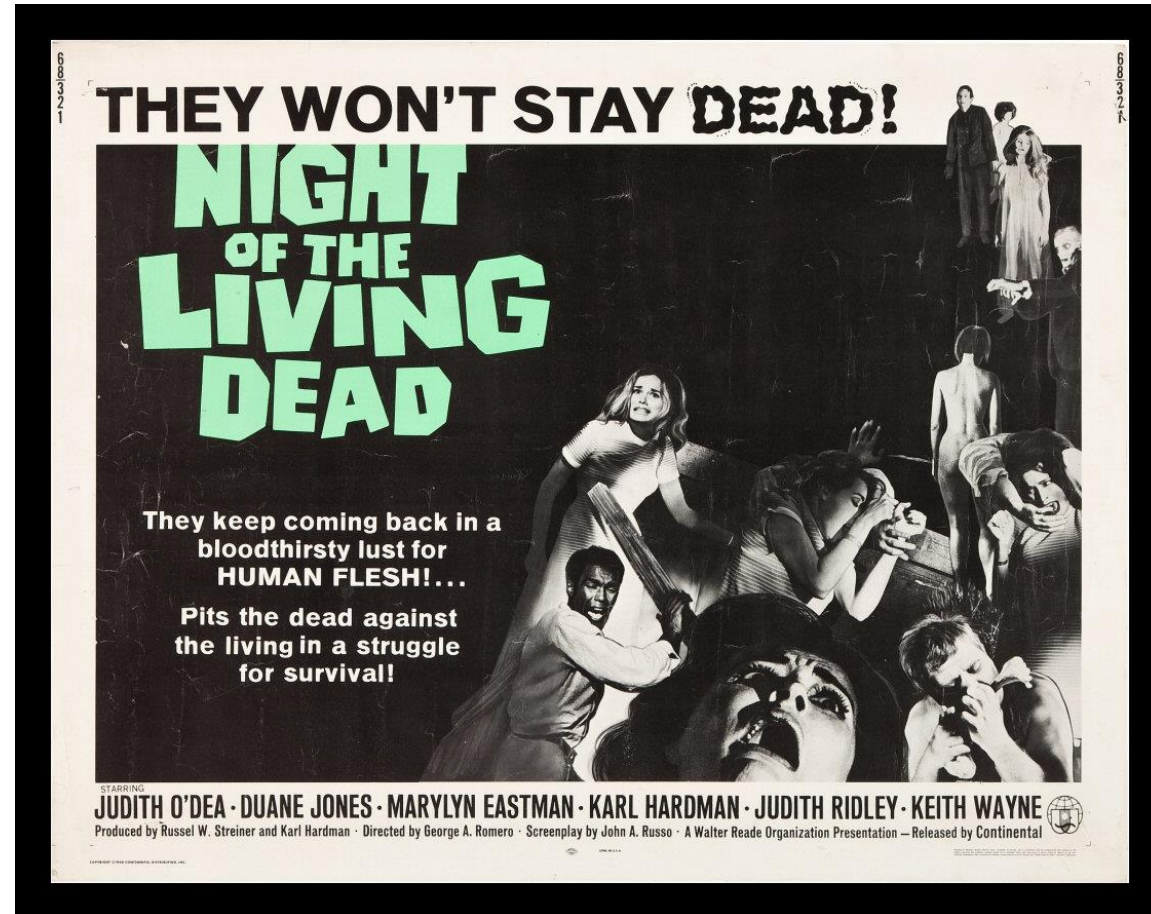
# Coding Horrors – The Mummy

```
$Data = $connection->prepare(
    "SELECT * FROM :TableName ORDER BY :OrderByColumn :OrderDirection LIMIT 10 OFFSET :Offset"
);
$Data->bindValue(':TableName', $TableName, PDO::PARAM_STR);
$Data->bindValue(':Offset', $Offset, PDO::PARAM_INT);
$Data->bindValue(':OrderByColumn', $OrderColumn, PDO::PARAM_STR);
$Data->bindValue(':OrderDirection', $OrderDirection, PDO::PARAM_STR);
$Data->execute();
```

# Coding Horrors



# Coding Horrors – Night of the Living Dead



# Coding Horrors – Night of the Living Dead

```
function getAddressDetails() {  
    $data->name = 'Mark';  
    // $data->address = 'mi casa';  
    // $data->city = 'Manchester';  
    // $data->country = 'UK';  
    // return json_encode($data, JSON_UNESCAPED_UNICODE);  
    return json_encode($data);  
}
```

# Coding Horrors – Night of the Living Dead

```
function getAddressDetails() {  
    $data->name = 'Mark';  
    return json_encode($data);  
}
```

```
git commit -m "Remove address, which is now accessed through a separate API call"
```



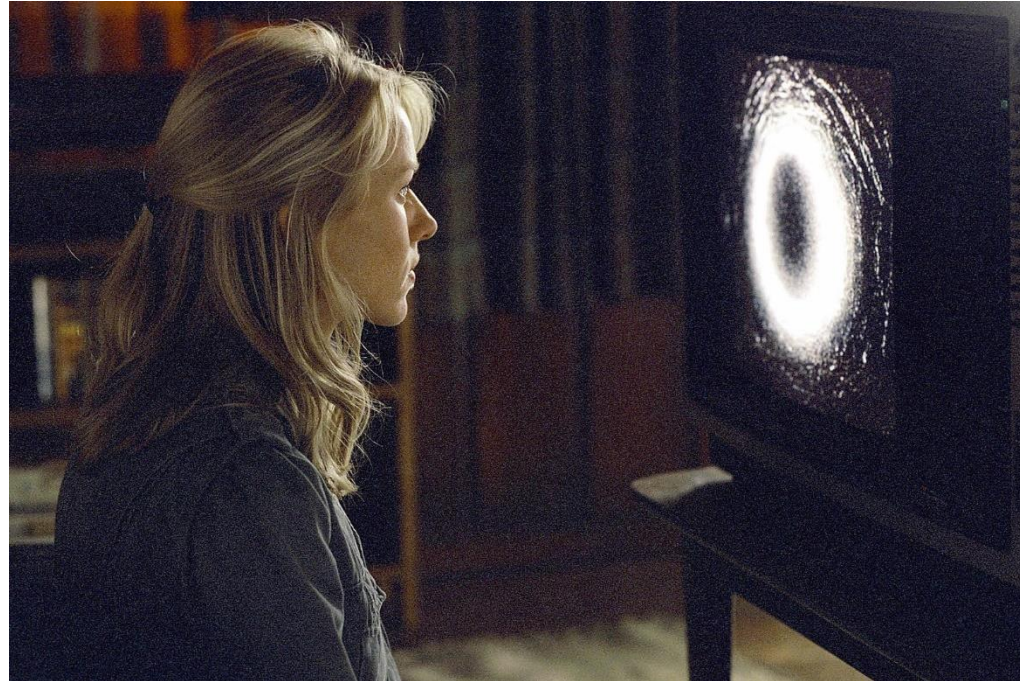
# Coding Horrors – Night of the Living Dead

```
function addValues($a, $b, $options) {  
    $sum = 0;  
    return $a + $b;  
}
```

# Coding Horrors – Night of the Living Dead

```
function squareIt($bar) {  
    return $bar ** 2;  
    $bar *= $bar;  
    return $bar;  
}
```

# Coding Horrors



# Coding Horrors – The Ring (US Remake)



# Coding Horrors – The Ring (US Remake)

DRY

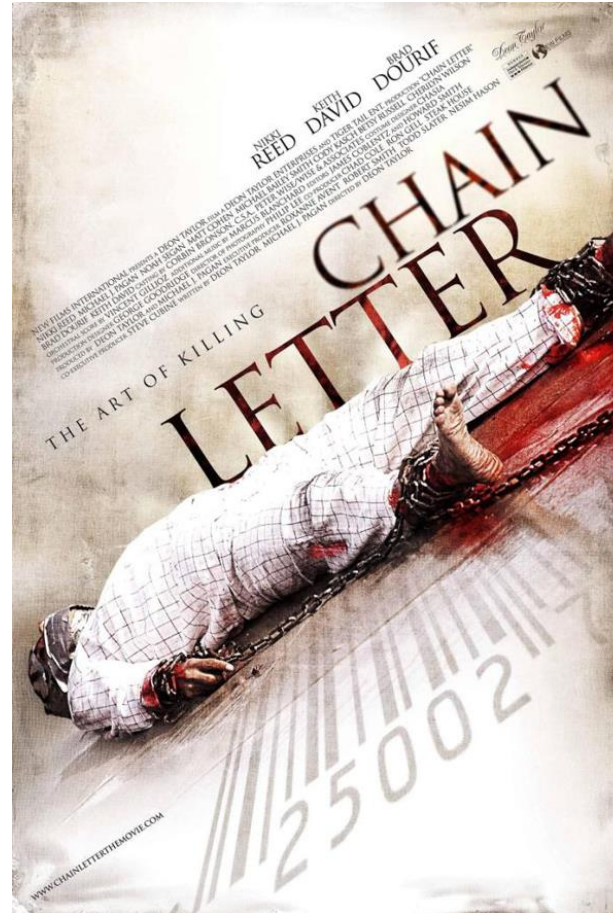
Don't Repeat Yourself



# Coding Horrors



# Coding Horrors – Chain Letter



# Coding Horrors – Chain Letter

```
mysql> select * from users;
```

id	username	password	followers
1	Shirley	5f4dcc3b5aa765d61d8327deb882cf99	8,6,10
2	Deborah	d1133275ee2118be63a577af759fc052	4
3	Julie	25d55ad283aa400af464c76d713c07ad	4,5
4	Jane	4297f44b13955235245b2497399d7a93	3,5
5	Jennifer	d8578edf8458ce06fbc5bb76a58c5ca4	3,4
6	Alison	827ccb0eea8a706c4c34a16891f84e7b	9,1
7	Philipa	8621ffdbc5698829397d97767ac13db3	NULL
8	Sue	acc6f2779b808637d04c71e3d8360eeb	1
9	Annabel	0d107d09f5bbe40cade3de5c71e9e9b7	6
10	Cathy	5badcaf789d3d1d09794d8f021f40f0e	3,1

```
10 rows in set (0.00 sec)
```

# Coding Horrors – Chain Letter

```
mysql> select * from users where followers like '%1%';
```

```
+----+-----+-----+-----+
| id | username | password | followers |
+----+-----+-----+-----+
| 1 | Shirley | 5f4dcc3b5aa765d61d8327deb882cf99 | 8,6,10 |
| 6 | Alison | 827ccb0eea8a706c4c34a16891f84e7b | 9,1 |
| 8 | Sue | acc6f2779b808637d04c71e3d8360eeb | 1 |
| 10 | Cathy | 5badcaf789d3d1d09794d8f021f40f0e | 3,1 |
+----+-----+-----+-----+
```

```
4 rows in set (0.00 sec)
```

# Coding Horrors – Chain Letter

```
mysql> select * from users where followers like '%,1,%';
```

```
Empty set (0.00 sec)
```

```
mysql> select * from users
```

```
    -> where followers = '1' or followers like '1,%' or followers like '%,1,%' or followers like '%,1';
```

```
+----+-----+-----+-----+
| id | username | password | friends |
+----+-----+-----+-----+
|  6 | Alison  | 827ccb0eea8a706c4c34a16891f84e7b | 9,1 |
|  8 | Sue     | acc6f2779b808637d04c71e3d8360eeb | 1   |
| 10 | Cathy   | 5badcaf789d3d1d09794d8f021f40f0e | 3,1 |
+----+-----+-----+-----+
```

```
3 rows in set (0.00 sec)
```



# Coding Horrors – Chain Letter

```
mysql> select * from users where find_in_set(1,friends);
```

```
+----+-----+-----+-----+
| id | username | password | friends |
+----+-----+-----+-----+
| 6 | Alison | 827ccb0eea8a706c4c34a16891f84e7b | 9,1 |
| 8 | Sue | acc6f2779b808637d04c71e3d8360eeb | 1 |
| 10 | Cathy | 5badcaf789d3d1d09794d8f021f40f0e | 3,1 |
+----+-----+-----+-----+

3 rows in set (0.00 sec)
```

# Coding Horrors



# Coding Horrors – The Mummy Returns



# Coding Horrors – The Mummy Returns

```
$q = "SELECT id, name FROM test WHERE name like ':%foo%'";  
$s = "carrot";  
$sth = $dbh->prepare($q);  
$sth->bindParam(':foo', $s);  
$sth->execute();
```

# Coding Horrors – The Mummy Returns

```
$q = "SELECT id, name FROM test WHERE name like :foo";  
$s = "carrot";  
$s = "%{$s}%";  
$sth = $dbh->prepare($q);  
$sth->bindParam(':foo', $s);  
$sth->execute();
```

# Coding Horrors – The Mummy Returns

```
$q = "SELECT * FROM posts WHERE post_title LIKE :q OR post_text LIKE :q";  
$s = "carrot";  
$s = "%{$s}%";  
$sth = $dbh->prepare($q);  
$sth->bindParam(':q', $s);  
$sth->execute();
```



# Coding Horrors – The Mummy Returns

```
$q = "SELECT * FROM posts WHERE post_title LIKE :q1 OR post_text LIKE :q2";  
$s = "carrot";  
$s = "%{$s}%";  
$sth = $dbh->prepare($q);  
$sth->bindParam(':q1', $s);  
$sth->bindParam(':q2', $s);  
$sth->execute();
```

# Coding Horrors



# Coding Horrors – Halloween



# Coding Horrors – Halloween

```
function monthList() {  
    $startDate = new DateTime();  
    $endDate = (clone $startDate)  
        ->add(new DateInterval('P1Y'));  
    $dateRange = new DatePeriod($startDate, new DateInterval('P1M'), $endDate);  
    foreach($dateRange as $date) {  
        yield $date;  
    }  
}  
  
foreach(monthList() as $date) {  
    echo $date->format("M Y") . PHP_EOL;  
}
```

# Coding Horrors – Halloween

Jan 2018

Feb 2018

Mar 2018

Apr 2018

May 2018

Jun 2018

Jul 2018

Aug 2018

Sep 2018

Oct 2018

Nov 2018

Dec 2018

Jan 2018

Mar 2018

Apr 2018

May 2018

Jun 2018

Jul 2018

Aug 2018

Sep 2018

Oct 2018

Nov 2018

Dec 2018

Jan 2019

# Coding Horrors – Halloween

```
function monthList() {  
    $startDate = new DateTime('first day of this month');  
    $endDate = (clone $startDate)  
        ->add(new DateInterval('P1Y'));  
    $dateRange = new DatePeriod($startDate, new DateInterval('P1M'), $endDate);  
    foreach($dateRange as $date) {  
        yield $date;  
    }  
}  
  
foreach(monthList() as $date) {  
    echo $date->format("M Y") . PHP_EOL;  
}
```

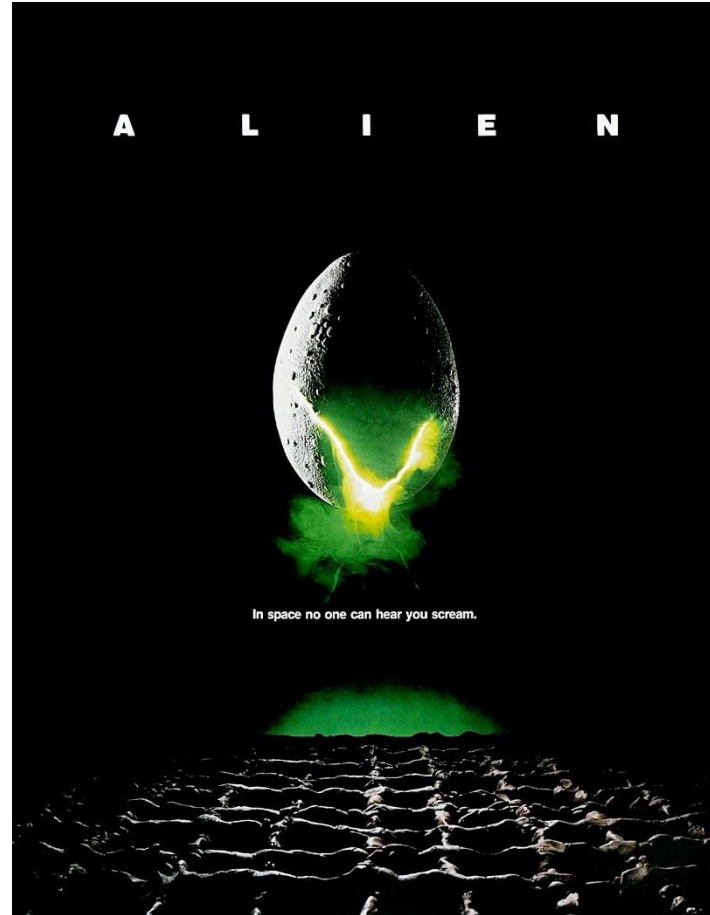


# Coding Horrors

IN SPACE NO ONE CAN HEAR YOU SCREAM



# Coding Horrors – Alien



# Coding Horrors – Alien

```
if (strpos(" " . $fileURL, "s3://") >= 1) {  
    // Do something  
}
```

# Coding Horrors – Alien

*php* Downloads Documentation Get Involved Help

## Return Values

---

Returns the position of where the needle exists relative to the beginning of the **haystack** string (independent of offset). Also note that string positions start at 0, and not 1.

Returns **FALSE** if the needle was not found.

**Warning** This function may return Boolean **FALSE**, but may also return a non-Boolean value which evaluates to **FALSE**. Please read the section on [Booleans](#) for more information. Use [the === operator](#) for testing the return value of this function.

# Coding Horrors – Alien

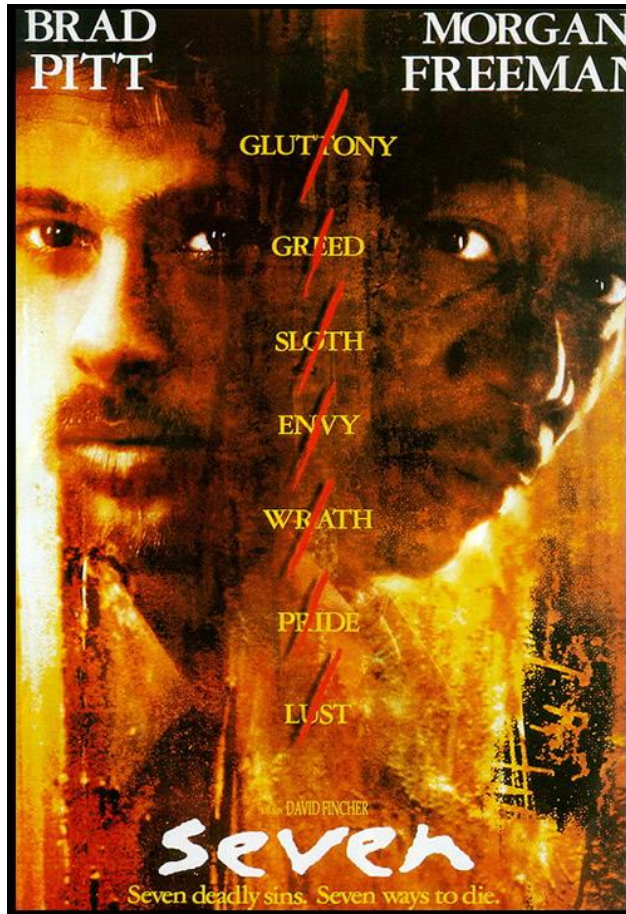
```
if (strpos($fileURL, "s3://") !== false) {  
    // Do something  
}
```

# Coding Horrors





# Coding Horrors – Se7en



# Coding Horrors – Se7en

```
$calendar = [  
    01 => 'January',  
    02 => 'February',  
    03 => 'March',  
    04 => 'April',  
    05 => 'May',  
    06 => 'June',  
    07 => 'July',  
    08 => 'August',  
    09 => 'September',  
    10 => 'October',  
    11 => 'November',  
    12 => 'December',  
];
```

# Coding Horrors – Se7en

```
1 => January  
2 => February  
3 => March  
4 => April  
5 => May  
6 => June  
7 => July  
0 => September  
10 => October  
11 => November  
12 => December
```

# Coding Horrors – Se7en

```
$calendar = [  
    1 => 'January',  
    2 => 'February',  
    3 => 'March',  
    4 => 'April',  
    5 => 'May',  
    6 => 'June',  
    7 => 'July',  
    8 => 'August',  
    9 => 'September',  
    10 => 'October',  
    11 => 'November',  
    12 => 'December',  
];
```

# Coding Horrors



# Coding Horrors – Pan's Labyrinth



# Coding Horrors – Pan's Labyrinth

```
public function __construct(
    \Magento\Framework\Model\Context $context,
    \Magento\Framework\View\DesignInterface $design,
    \Magento\Framework\Registry $registry,
    \Magento\Store\Model\App\Emulation $appEmulation,
    \Magento\Store\Model\StoreManagerInterface $storeManager,
    \Magento\Framework\App\RequestInterface $request,
    \Magento\Newsletter\Model\Template\Filter $filter,
    \Magento\Framework\App\Config\ScopeConfigInterface $scopeConfig,
    \Magento\Newsletter\Model\TemplateFactory $templateFactory,
    \Magento\Framework\Filter\FilterManager $filterManager,
    array $data = []
) {
    parent::__construct($context, $design, $registry, $appEmulation, $storeManager, $data);
    $this->_storeManager = $storeManager;
    $this->_request = $request;
    $this->_filter = $filter;
    $this->_scopeConfig = $scopeConfig;
    $this->_templateFactory = $templateFactory;
    $this->_filterManager = $filterManager;
}
```



# Coding Horrors – Pan's Labyrinth

The ideal number of arguments for a function is zero (niladic). Next comes one (monadic) followed closely by two (dyadic). Three arguments (triadic) should be avoided where possible. More than three (polyadic) requires very special justification—and then shouldn't be used anyway.

Bob Martin – “Clean Code”

# Coding Horrors



# Coding Horrors – Scream



# Coding Horrors – Scream

```
$sql = "SELECT MAX(id) AS max_page FROM videos";  
$result = @$conn->query($sql);  
$row = @mysql_fetch_array($result);  
echo $row["max_page"];
```

# Coding Horrors – Scream

```
@dns_get_record();
```

```
dns_get_record();
```

# Coding Horrors – Scream

```
Warning: dns_get_record() expects at least 1 parameter, 0 given in  
%filename% on %line%
```

# Coding Horrors – Scream

```
set_error_handler(function($errno, $errstr, $errfile, $errline, array $errcontext) {  
    if (error_reporting() === 0) {  
        // error was suppressed with the @-operator  
        throw new \ErrorException(  
            'WHY ARE YOU SUPPRESSING ERRORS RATHER THAN HANDLING THEM!'  
        );  
        // return false;  
    }  
    throw new \ErrorException($errstr, 0, $errno, $errfile, $errline);  
});
```

# Coding Horrors – Scream

```
try {  
    @dns_get_record();  
} catch (\ErrorException $e) {  
    echo 'EXCEPTION: ', $e->getMessage(), PHP_EOL;  
}
```

```
try {  
    dns_get_record();  
} catch (\ErrorException $e) {  
    echo 'EXCEPTION: ', $e->getMessage(), PHP_EOL;  
}
```

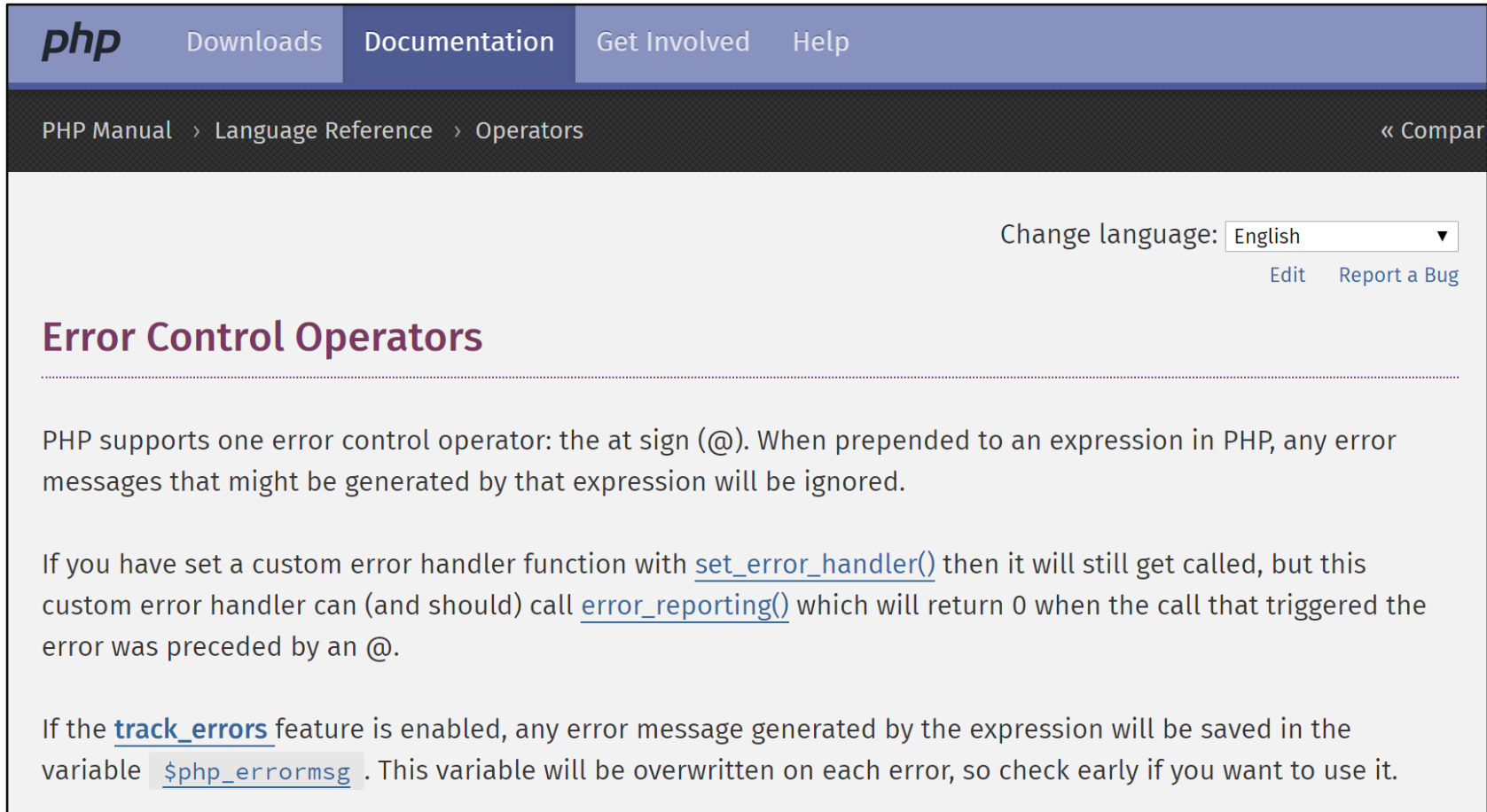


# Coding Horrors – Scream

EXCEPTION: WHY ARE YOU SUPPRESSING ERRORS RATHER THAN HANDLING THEM?

EXCEPTION: `dns_get_record()` expects at least 1 parameter, 0 given

# Coding Horrors – Scream



The screenshot shows the PHP Manual website. The top navigation bar includes links for 'php', 'Downloads', 'Documentation' (which is highlighted), 'Get Involved', and 'Help'. Below this, a breadcrumb trail reads 'PHP Manual > Language Reference > Operators'. On the right side of the breadcrumb trail is a link '« Compar'. A language selection dropdown is set to 'English', with links for 'Edit' and 'Report a Bug' nearby. The main heading is 'Error Control Operators'. The text explains that PHP uses the '@' symbol to ignore error messages. It also mentions that a custom error handler can be set using 'set\_error\_handler()' and should call 'error\_reporting()' which returns 0 if an error was preceded by '@'. Finally, it notes that if the 'track\_errors' feature is enabled, error messages are saved in the '\$php\_errormsg' variable, which is overwritten on each error.

**php** Downloads Documentation Get Involved Help

PHP Manual > Language Reference > Operators « Compar

Change language: English ▼  
[Edit](#) [Report a Bug](#)

## Error Control Operators

PHP supports one error control operator: the at sign (@). When prepended to an expression in PHP, any error messages that might be generated by that expression will be ignored.

If you have set a custom error handler function with [set\\_error\\_handler\(\)](#) then it will still get called, but this custom error handler can (and should) call [error\\_reporting\(\)](#) which will return 0 when the call that triggered the error was preceded by an @.

If the [track\\_errors](#) feature is enabled, any error message generated by the expression will be saved in the variable `$php_errormsg`. This variable will be overwritten on each error, so check early if you want to use it.

# Coding Horrors – Scream

- Scream
  - PECL Extensions
- Disables the @ error control operator so that all errors are reported.

```
ini_set('scream.enabled', true);
```

# Coding Horrors



# Coding Horrors – Dawn of the Dead



# Coding Horrors – Dawn of the Dead

```
/**
 * Convert a date from PHP to Excel
 *
 * @param mixed $dateValue unix timestamp or datetime object
 * @param string $timezone Optional timezone name for adjustment from UTC
 * @return mixed Excel date/time value
 */
public function PHPToExcel(DateTimeImmutable $dateValue, DateTimeZone $timezone = null) {
    // Do stuff
}
```



# Coding Horrors



# Coding Horrors





# Who am I?

## Mark Baker



Senior Software Engineer  
MessageBird BV, Amsterdam

Coordinator and Developer of:



Open Source PHPOffice library

PHPExcel, PHPWord, PHPPowerPoint, PHPProject, PHPVisio

Minor contributor to PHP core (SPL Datastructures)

Other small open source libraries available on github



@Mark\_Baker



<https://github.com/MarkBaker>



<http://uk.linkedin.com/pub/mark-baker/b/572/171>



<http://markbakeruk.net>

