

DEBUGGING IN PHP

“The most effective debugging tool is still careful thought, coupled with judiciously placed print statements.”

Brian W. Kernighan, in the paper Unix for Beginners (1979)


```

$seen[(string) $scheduledTask->getTaskId()][$scheduledTask->getTaskCompletionWindow()->getEnd()]

if (empty($latestScheduledTask) ||
    $latestScheduledTask->getTaskCompletionWindow()->getEnd() < $scheduledTask->getTaskCompletionWindow()->getEnd()
) {
    $latestScheduledTask = $scheduledTask;
}

```

```

// Nothing wrong with this. Just don't deploy it.
echo $event->getWhen()->format('Y-m-d h:ia T') . ' < ' .
    $scheduledTask->getTaskCompletionWindow()->getEnd()->format('Y-m-d h:ia T') .
    "\n";

```

```

if ($event->getWhen() < $scheduledTask->getTaskCompletionWindow()->getEnd()) {
    // This scheduled task has not expired yet...

    if ($event->getWhen() >= $scheduledTask->getTaskCompletionWindow()->getStart()) {
        // ... but it has started, so we want to request that the next window
        // be generated...

        $hasCurrent = true;
        $needsNext[] = $scheduledTask->getTaskCompletionWindow();
    } else {
        $hasNext = true;
    }

    // We're done here for now...
    continue;
}

```

[PRO EMERGENCY] Exception [8]: Undefined offset: 0 ~ APPPATH/classes/Controller/Report.php [1417]



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Nov 17 (1 day ago)

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Exception [8]: Undefined offset: 0 ~ APPPATH/classes/Controller/Report.php [1417]

Array

```
(
  [0] => Array
    (
      [file] =>
/var/www/secure.datecheckpro.com/htdocs/system/classes/Kohana/Kohana/Exception.php
      [line] => 148
      [function] => add
      [class] => Log
      [object] => Log Object
        (
          [_log_levels:protected] => Array
            (
              [0] => EMERGENCY
              [2] => CRITICAL
              [3] => ERROR
              [4] => WARNING
              [5] => NOTICE
              [6] => INFO
              [7] => DEBUG
            )
          [_messages:protected] => Array
            (
            )
          [_writers:protected] => Array
            (
            )
          )
        )
    )
)
```


-rw-r--r--	1	www-data	www-data	636	Nov	18	14:56	20141118145649.json
-rw-r--r--	1	www-data	www-data	1091	Nov	18	15:01	20141118150153.json
-rw-r--r--	1	www-data	www-data	635	Nov	18	15:02	20141118150204.json
-rw-r--r--	1	www-data	www-data	1093	Nov	18	15:04	20141118150405.json
-rw-r--r--	1	www-data	www-data	636	Nov	18	15:04	20141118150414.json
-rw-r--r--	1	www-data	www-data	1094	Nov	18	15:15	20141118151543.json
-rw-r--r--	1	www-data	www-data	638	Nov	18	15:23	20141118152302.json
-rw-r--r--	1	www-data	www-data	1093	Nov	18	15:24	20141118152407.json
-rw-r--r--	1	www-data	www-data	635	Nov	18	15:24	20141118152426.json
-rw-r--r--	1	www-data	www-data	1093	Nov	18	15:30	20141118153009.json
-rw-r--r--	1	www-data	www-data	636	Nov	18	15:30	20141118153051.json
-rw-r--r--	1	www-data	www-data	635	Nov	18	15:31	20141118153111.json
-rw-r--r--	1	www-data	www-data	1091	Nov	18	15:44	20141118154420.json
-rw-r--r--	1	www-data	www-data	1619	Nov	18	15:48	20141118154820.json
-rw-r--r--	1	www-data	www-data	636	Nov	18	15:48	20141118154835.json
-rw-r--r--	1	www-data	www-data	1093	Nov	18	15:50	20141118155000.json
-rw-r--r--	1	www-data	www-data	636	Nov	18	15:50	20141118155031.json
-rw-r--r--	1	www-data	www-data	1089	Nov	18	15:53	20141118155303.json
-rw-r--r--	1	www-data	www-data	635	Nov	18	15:53	20141118155332.json
-rw-r--r--	1	www-data	www-data	1092	Nov	18	16:02	20141118160225.json
-rw-r--r--	1	www-data	www-data	634	Nov	18	16:02	20141118160246.json
-rw-r--r--	1	www-data	www-data	1090	Nov	18	16:07	20141118160757.json
-rw-r--r--	1	www-data	www-data	637	Nov	18	16:08	20141118160817.json
-rw-r--r--	1	www-data	www-data	1093	Nov	18	16:13	20141118161324.json
-rw-r--r--	1	www-data	www-data	1094	Nov	18	16:24	20141118162405.json


```

if (empty($rawPost)) {
    $rawPost = file_get_contents("php://input");
    $ts      = time();
    $logPost = true;
    Analog::log($rawPost, Analog::INFO);
}

$postData = json_decode($rawPost);

$filename = SITEROOT . '/logs/' . date('YmdHis', $ts) . '.json';
file_put_contents($filename, $rawPost);

$syncTables = array('products', 'storeproducts', 'lowstocks', 'qualitycontrols');

foreach ($syncTables as $syncTable) {
    $method = '_save' . ucfirst($syncTable);
    if (isset($postData->data->$syncTable) && is_array($postData->data->$syncTable)) {
        foreach ($postData->data->$syncTable as $item) {
            $msg = $this->$method((array) $item);
            if (true !== $msg) {
                $result = array(
                    'result' => array(
                        'success' => false,
                        'message' => $msg,
                    )
                );
                file_put_contents($filename2, json_encode($result));
                return $result;
            }
        }
    }
}

```



```
shellab@web04:/var/www/secure.datecheckpro.com/logs$ tail gitpull-error.log
```

```
Jul 15, 2014 12:31 pm: Updating Site
```

```
Jul 17, 2014 2:27 pm: Updating Site
```

```
Jul 17, 2014 3:02 pm: Updating Site
```

```
Jul 21, 2014 5:08 pm: Updating Site
```

```
Jul 22, 2014 1:04 pm: Updating Site
```

```
Aug 5, 2014 10:15 am: Updating Site
```

```
Aug 5, 2014 10:17 am: Updating Site
```

```
Aug 12, 2014 3:33 pm: Updating Site
```

```
Aug 12, 2014 3:36 pm: Updating Site
```

```
Oct 13, 2014 9:43 am: Updating Site
```

phpunit:

[exec] PHPUnit 3.7.37 by Sebastian Bergmann.

[exec]

[exec] Configuration read from /var/www/pinpoint.dev/phpunit.xml.dist

[exec]

[exec] 63 / 198 (31%)

[exec] 126 / 198 (63%)

[exec] 189 / 198 (95%)

[exec]

[exec]

[exec] Time: 6.33 seconds, Memory: 18.25Mb

[exec]

[exec] OK (198 tests, 2660 assertions)

[exec]

[exec] Generating code coverage report in Clover XML format ... done

[exec]

[exec] Generating code coverage report in HTML format ... done

BUILD SUCCESSFUL

Total time: 18 seconds



<http://xdebug.org>

- * Stack Traces on Error Conditions
- * Maximum Nesting Protection
- * Code Coverage Analysis
- * Profiling
- * Remote Debugging

Stack Traces on Error Conditions

Parse error: syntax error, unexpected '\$this' (T_VARIABLE) in
`/var/www/pinpoint.dev/src/Taskle/Module/TableOfContents/Action/TableOfContentsAction.php`
on line **34**



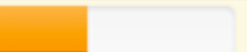



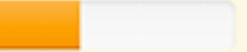





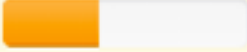



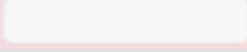
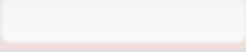
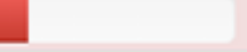











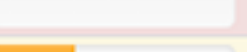



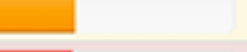





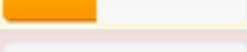



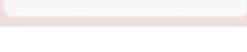
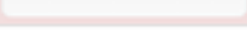
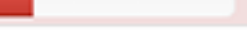
(!) Parse error: syntax error, unexpected '\$this' (T_VARIABLE) in <code>/var/www/pinpoint.dev/src/Taskle/Module/TableOfContents/Action/TableOfContentsAction.php</code> on line 34				
Call Stack				
#	Time	Memory	Function	Location
1	0.0005	232656	{main}()	./index.php:0
2	0.0478	1226888	Silex\Application->run()	./index.php:9
3	0.0534	1310784	Silex\Application->handle()	./Application.php:500
4	0.0658	1566256	Symfony\Component\HttpKernel\HttpKernel->handle()	./Application.php:519
5	0.0658	1566752	Symfony\Component\HttpKernel\HttpKernel->handleRaw()	./HttpKernel.php:66
6	0.1537	3212232	Silex\ServiceControllerResolver->getController()	./HttpKernel.php:133
7	0.1537	3212304	Silex\CallbackResolver->convertCallback()	./ServiceControllerResolver.php:50
8	0.1537	3212480	Pimple\Container->offsetGet()	./ServiceControllerResolver.php:56
9	0.1537	3212512	Taskle\Module\TableOfContents\Provider\TableOfContentsServiceProvider->Taskle\Module\TableOfContents\Provider\{closure}()	./Container.php:112
10	0.1537	3212808	spl_autoload_call()	./Container.php:20
11	0.1537	3212888	Composer\Autoload\ClassLoader->loadClass()	./Container.php:0
12	0.1537	3213048	Composer\Autoload\includeFile()	./ClassLoader.php:274

Maximum Nesting Protection

(!) Fatal error: Maximum function nesting level of '10' reached, aborting! in /var/www/pinpoint.dev/vendor/composer/ClassLoader.php on line 317				
Call Stack				
#	Time	Memory	Function	Location
1	0.0006	232656	{main}()	./index.php:0
2	0.0062	552728	spl_autoload_call()	./index.php:4
3	0.0062	552816	Composer\Autoload\ClassLoader->loadClass()	./index.php:0
4	0.0063	553408	Composer\Autoload\includeFile()	./ClassLoader.php:274
5	0.0073	569768	include('/var/www/pinpoint.dev/vendor/silex/silex/src/Silex/Application.php')	./ClassLoader.php:382
6	0.0073	570024	spl_autoload_call()	./ClassLoader.php:46
7	0.0073	570064	Composer\Autoload\ClassLoader->loadClass()	./ClassLoader.php:0
8	0.0073	570064	Composer\Autoload\ClassLoader->findFile()	./ClassLoader.php:273
9	0.0073	570112	Composer\Autoload\ClassLoader->findFileWithExtension()	./ClassLoader.php:299

Code Coverage Analysis

/var/www/pinpoint.dev/src/Taskle / Domain / Model (Dashboard)

	Code Coverage								
		Lines			Functions and Methods			Classes and Traits	
Total		57.90%	2140 / 3696		61.60%	555 / 901		40.74%	55 / 135
 AvailableRecurrence		41.41%	53 / 128		44.44%	20 / 45		37.50%	3 / 8
 Company		94.12%	32 / 34		90.00%	18 / 20		71.43%	5 / 7
 Department		39.19%	29 / 74		55.56%	15 / 27		57.14%	4 / 7
 Image		0.00%	0 / 260		0.00%	0 / 25		16.67%	1 / 6
 Location		88.99%	97 / 109		79.17%	38 / 48		75.00%	6 / 8
 Priority		39.77%	35 / 88		57.58%	19 / 33		62.50%	5 / 8
 Recurrence		89.74%	35 / 39		86.67%	26 / 30		0.00%	0 / 3
 Task		73.07%	1248 / 1708		74.02%	188 / 254		35.71%	10 / 28
 TaskTemplate		77.76%	577 / 742		71.72%	213 / 297		34.15%	14 / 41
 Taskboard		38.64%	34 / 88		54.55%	18 / 33		62.50%	5 / 8
 User		0.00%	0 / 426		0.00%	0 / 89		18.18%	2 / 11

Legend

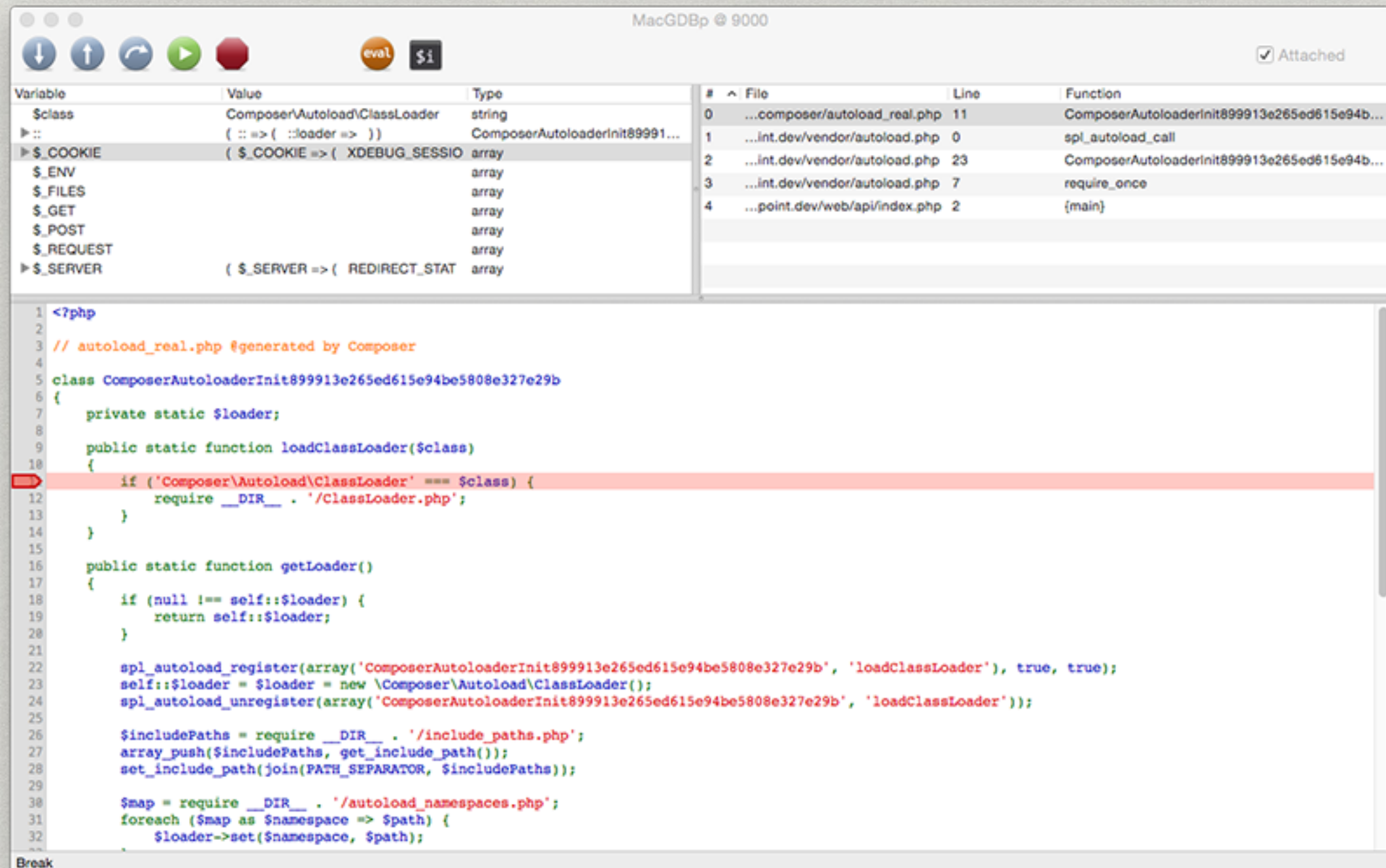
Low: 0% to 35% Medium: 35% to 70% High: 70% to 100%

Generated by [PHP_CodeCoverage 1.2.18](#) using [PHP 5.5.9-1ubuntu4.5](#) and [PHPUnit 3.7.37](#) at Thu Nov 20 17:35:16 UTC 2014.

Profiling (qcachegrind)

Incl.	Self	Called	Function	Location
■	48.27	■ 33.77	257 Composer\Autoload\includeFile	ClassLoader.php
	6.92	6.00	257 Composer\Autoload\ClassLoader->findFileWithExtension	ClassLoader.php
■	25.12	4.81	45 Symfony\Component\Yaml\Parser->parse	Parser.php
■	9.13	4.00	41 Symfony\Component\Yaml\Parser->getNextEmbedBlock	Parser.php
	2.65	2.51	413 Symfony\Component\Yaml\Parser->getCurrentLineIndent...	Parser.php
	4.17	2.20	221 Symfony\Component\Yaml\Inline::parseScalar	Inline.php
	2.97	2.12	42 Symfony\Component\Routing\RouteCompiler::compilePat...	RouteCompiler.php
	2.24	1.91	42 Symfony\Component\Routing\Generator\UrlGenerator->d...	UrlGenerator.php
	1.82	1.71	221 Symfony\Component\Yaml\Inline::evaluateScalar	Inline.php
	3.98	1.57	204 Symfony\Component\Yaml\Inline::parse	Inline.php
■	57.98	1.47	257 Composer\Autoload\ClassLoader->loadClass	ClassLoader.php
	2.34	1.38	14 Silex\ControllerCollection->flush	ControllerCollection.ph
	2.05	1.27	1 ComposerAutoloaderInit899913e265ed615e94be5808e...	autoload_real.php
■	8.14	1.17	257 Composer\Autoload\ClassLoader->findFile	ClassLoader.php
	4.23	1.09	42 Symfony\Component\Routing\RouteCompiler::compile	RouteCompiler.php
■	7.72	1.06	42 Symfony\Component\Routing\Generator\UrlGenerator->g...	UrlGenerator.php
	1.11	1.04	1 JDesrosiers\Silex\Provider\CorsServiceProvider->determin...	CorsServiceProvider.ph
■	75.92	1.02	222 Pimple\Container->offsetGet	Container.php
	1.09	1.02	462 Symfony\Component\Yaml\Parser->isCurrentLineBlank	Parser.php
	1.06	1.02	528 Symfony\Component\Yaml\Parser->moveToNextLine	Parser.php
	0.93	0.88	430 Symfony\Component\Yaml\Parser->isCurrentLineComment	Parser.php
	1.65	0.83	213 Symfony\Component\Yaml\Parser->isCurrentLineEmpty	Parser.php
	1.67	0.79	102 Silex\ControllerCollection->match	ControllerCollection.ph
■	58.59	0.74	257 php::spl_autoload_call	php:internal
	0.74	0.74	660 php::preg_match	php:internal

Remote Debugging (MacGDBp & Xdebug Helper)



The image shows the MacGDBp interface at version 9000. The top bar includes navigation icons (back, forward, search, etc.) and a status bar indicating 'Attached'. The main window is divided into three panes:

- Variables Pane:** Displays a list of variables and their values. The variable `$COOKIE` is expanded, showing an array with `XDEBUG_SESSION`.
- Stack Trace Pane:** Shows the call stack with the following entries:

#	File	Line	Function
0	...composer/autoload_real.php	11	ComposerAutoloaderInit899913e265ed615e94b...
1	...int.dev/vendor/autoload.php	0	spl_autoload_call
2	...int.dev/vendor/autoload.php	23	ComposerAutoloaderInit899913e265ed615e94b...
3	...int.dev/vendor/autoload.php	7	require_once
4	...point.dev/web/api/index.php	2	{main}
- Code Pane:** Displays the source code of `autoload_real.php`. The code is a PHP file generated by Composer, defining the `ComposerAutoloaderInit899913e265ed615e94b5808e327e29b` class. A red highlight is placed on line 12, which is the start of the `loadClassLoader` function's conditional logic.

```
1 <?php
2
3 // autoload_real.php @generated by Composer
4
5 class ComposerAutoloaderInit899913e265ed615e94b5808e327e29b
6 {
7     private static $loader;
8
9     public static function loadClassLoader($class)
10     {
11         if ('Composer\Autoload\ClassLoader' === $class) {
12             require __DIR__ . '/ClassLoader.php';
13         }
14     }
15
16     public static function getLoader()
17     {
18         if (null !== self::$loader) {
19             return self::$loader;
20         }
21
22         spl_autoload_register(array('ComposerAutoloaderInit899913e265ed615e94b5808e327e29b', 'loadClassLoader'), true, true);
23         self::$loader = $loader = new \Composer\Autoload\ClassLoader();
24         spl_autoload_unregister(array('ComposerAutoloaderInit899913e265ed615e94b5808e327e29b', 'loadClassLoader'));
25
26         $includePaths = require __DIR__ . '/include_paths.php';
27         array_push($includePaths, get_include_path());
28         set_include_path(join(PATH_SEPARATOR, $includePaths));
29
30         $map = require __DIR__ . '/autoload_namespaces.php';
31         foreach ($map as $namespace => $path) {
32             $loader->set($namespace, $path);
33         }
34     }
35 }
```




<http://phpdbg.com/>

- * Integrated into PHP 5.6 core
- * Not an extension
- * Better support coming soon



Andrew Shell
<http://blog.andrewshell.org>
@andrewshell