

By: Adam Culp Twitter: @adamculp

- About me
- OSS Contributor

- The

- PHP Certified
- Zend Certification Advisory Board
- PHP-Fig voting member (IBM i Toolkit)
- Consultant at Zend Technologies
- Organizer SoFloPHP (South Florida)
- Organizer SunshinePHP (Miami)
- Long distance (ultra) runner
- Photography Enthusiast
 - Judo Black Belt Instructor







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I am the PHP Ninja!!!



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• I Help Build The Web



- Manual Debugging Methods
 - Manual

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- Echo ""
- Print ""
- eval()
- print_r()
- var_dump()
- die()
- console_log()
- Toolbars (framework specific of otherwise)

• The Ugly

```
public function process(ServerRequestInterface $request,
    echo '1';
    $flash = $request->getAttribute( name: 'flash');
    echo '2';
    $notices = $flash->getMessages();
    echo '3';
    $migrations = $this->connection->fetchAll('SELECT * I
```

Automated



- Breakpoints
 - Inform debugger to stop execution at a given point
 - Click in the gutter to activate a breakpoint.
 - A red dot is added, and line highlights in red

```
19
               $this->template = $template;
               $this->connection = $connection;
20
21
           }
22
23 of
           public function process(ServerRequestInterface $request, |
24
               $flash = $request->getAttribute( name: 'flash');
25
      $notices = $flash->getMessages();
26
27
               $migrations = $this->connection->fetchAll('SELECT * FI
28
29
               return new HtmlResponse($this->template->render( name:
30
31
32
      }
33
```

• IDE Listening

- Activate "listening" in chosen IDE
- Call up the app in a browser





and the second second

- IDE Debugging Starts
 - Debug panel or perspective



• Automated Debugging Methods

- Step-Debugging

- Step Over
- Step Into (and Force Step Into)
- Step Out

Debug 🔆 index.php	
	Debugger 🔲 Console → 🎽 🛨 🎽 🞽 🎽 🎽 📲 📵 🎉 🗊
	Image: Frames →■ →■ Variables
6:	↑ ↓ ★ ► ■ \$delegate = {Zend\Stratigility\Next} [4] ↓ ♥ ♥ ■ \$delegate = {Zend\Stratigility\Next} [4]
	 MigrationsReadAction.php:30, Migrations A LazyLoadingMiddleware.php:60, Zend Expressiv DispatchMiddleware.php:90, Zend Expressiv Next.php:128, Zend Stratigility Next->proces LazyLoadingMiddleware.php:60, Zend Expressiv LazyLoadingMiddleware.php:60, Zend Expressiv LazyLoadingMiddleware.php:60, Zend Expressiv Next.php:128, Zend Stratigility Next->proces Next.php:128, Zend Stratigility Next->proces ImplicitOptionsMiddleware.php:69, Zend Expressiv Next.php:128, Zend Stratigility Next->proces ImplicitHeadMiddleware.php:75, Zend Expressive Next.php:128, Zend Stratigility Next->proces Next.php:128, Zend Stratigility Next->proces ImplicitHeadMiddleware.php:75, Zend Expressive Next.php:128, Zend Stratigility Next->proces ImplicitHeadMiddleware.php:75, Zend Expressive ImplicitHeadMiddleware.

- Automated Debugging Methods
 - Step-Over
 - Decline to follow call into a class or function.
 - Button or F8 key



- Automated Debugging Methods
 - Step-Into
 - Accept to follow call into a class or function.
 - Button or F7 key



- Automated Debugging Methods
 - Step-Out
 - Break out of a class or function, back to execution point.
 - Button or ^F8 key (Shift+F8)





- Thank you!
- Code at: https://github.com/adamculp

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