



# STEP INTO DEBUGGING



GARY HOCKIN  
@GeeH

IN THE BEGINNING,  
THERE WAS VAR\_DUMP

**AND IT WAS GOOD**

# <?php

```
die(var_dump($countries));
```

```
array (size=239)
```

```
0 =>
```

```
object(Application\Entities\Country) [321]
```

```
private 'code' => string 'ABW' (length=3)
```

```
private 'name' => string 'Aruba' (length=5)
```

```
private 'continent' => string 'North America' (length=13)
```

```
private 'region' => string 'Caribbean' (length=9)
```

```
private 'surfaceArea' => string '193.00' (length=6)
```

```
private 'indepYear' => null
```

```
private 'population' => string '103000' (length=6)
```

```
private 'lifeExpectancy' => string '78.4' (length=4)
```

```
...
```

AND IT'S *STILL* GOOD

AND IT'S *STILL* GOOD  
(SOMETIMES)

# <?php

```
public function getDQL()
{
    if ($this->_dql !== null && $this->_state === self::STATE_CLEAN) {
        echo 'FIRST IF' . PHP_EOL;
        return $this->_dql;
    }
    switch ($this->_type) {
        case self::DELETE:
            echo 'DELETE' . PHP_EOL;
            $dql = $this->_getDQLForDelete();
            break;
        case self::UPDATE:
            echo 'UPDATE' . PHP_EOL;
            $dql = $this->_getDQLForUpdate();
            break;
        case self::SELECT:
        default:
            echo 'DEFAULT' . PHP_EOL;
            $dql = $this->_getDQLForSelect();
            break;
    }
    $this->_state = self::STATE_CLEAN;
    $this->_dql = $dql;
    var_dump($dql);
    return $dql;
}
```

# INTRODUCING XDEBUG



A PHP extension that enables you to step debug PHP scripts (and much more)

<http://xdebug.org>





**DERICK RETHANS**

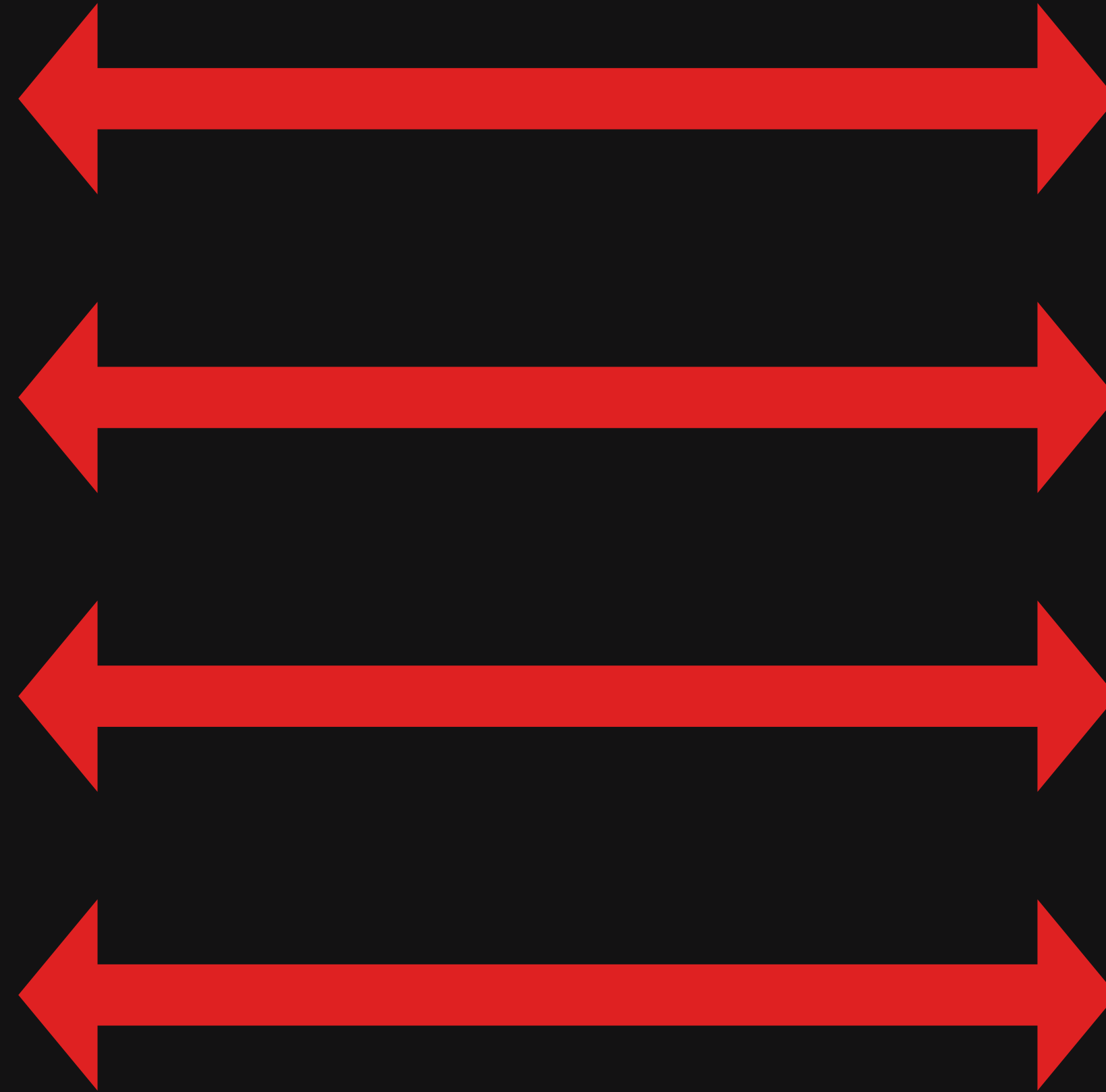
@derickr

<http://www.facesoftheelephant.com/image/134982910242>

**XDEBUG  
"CLIENT"**

debug "events"

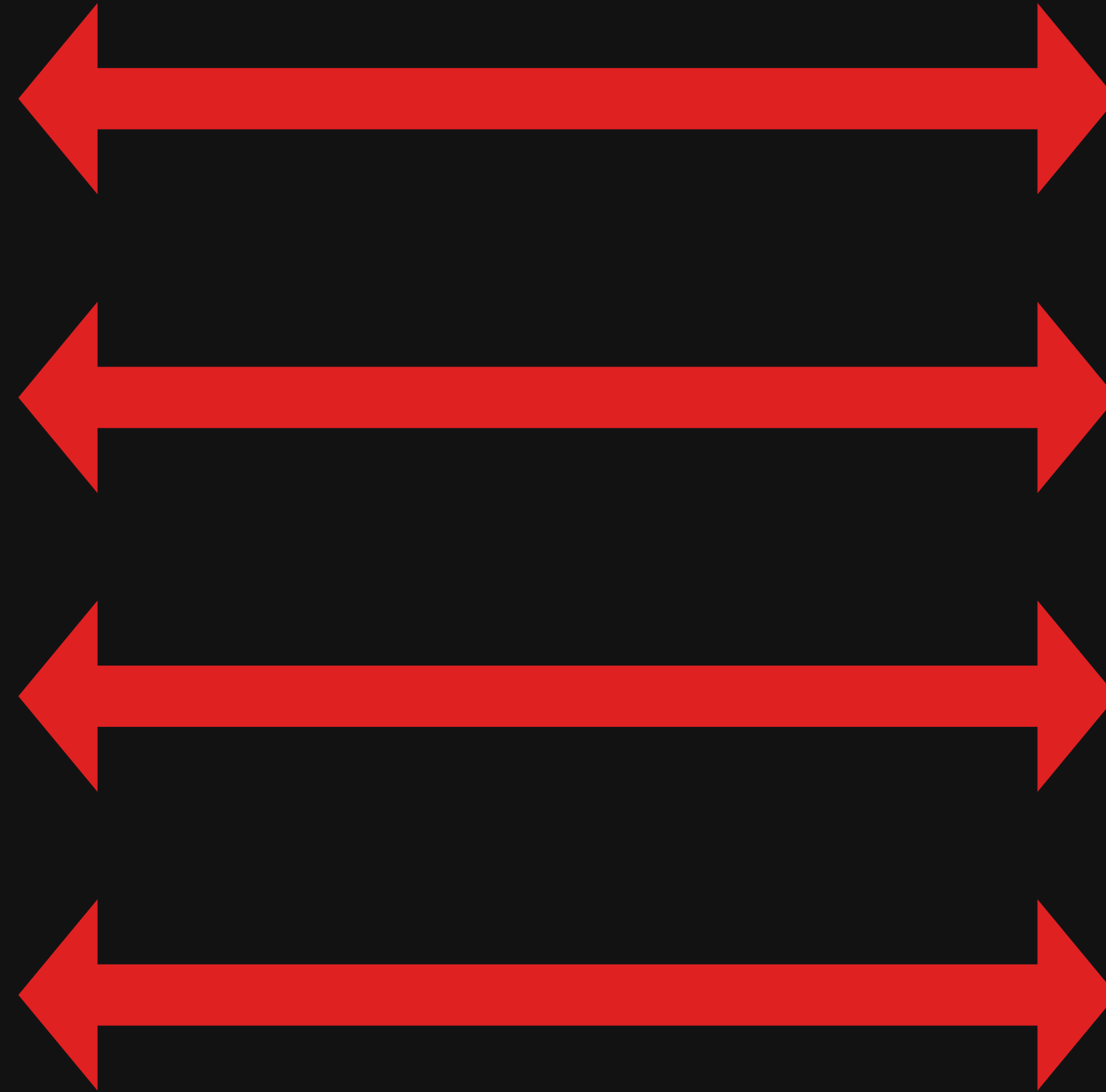
**XDEBUG  
"SERVER"**



XDEBUG  
"CLIENT"



debug "events"

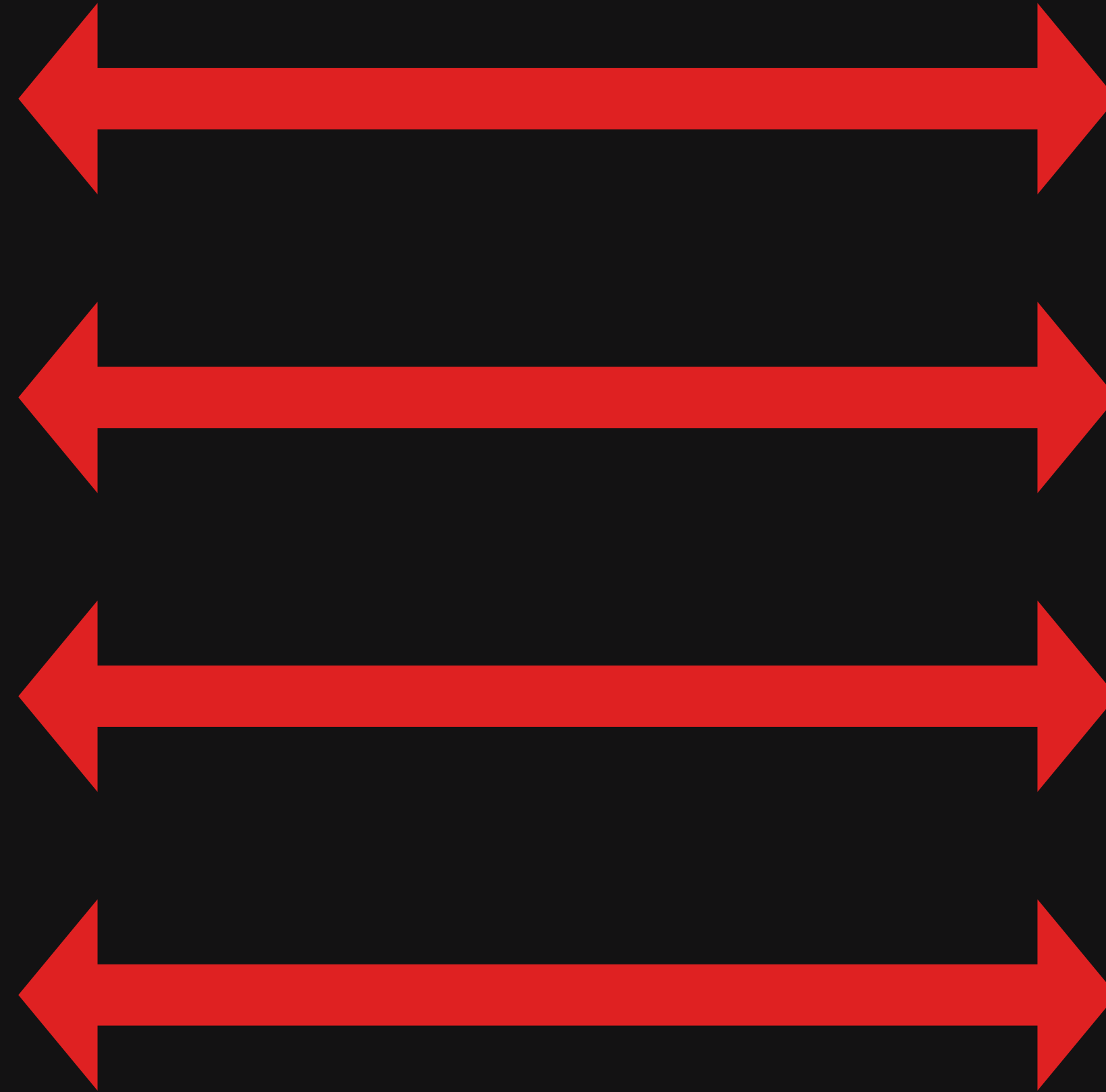


XDEBUG  
"SERVER"

XDEBUG  
"CLIENT"



debug "events"



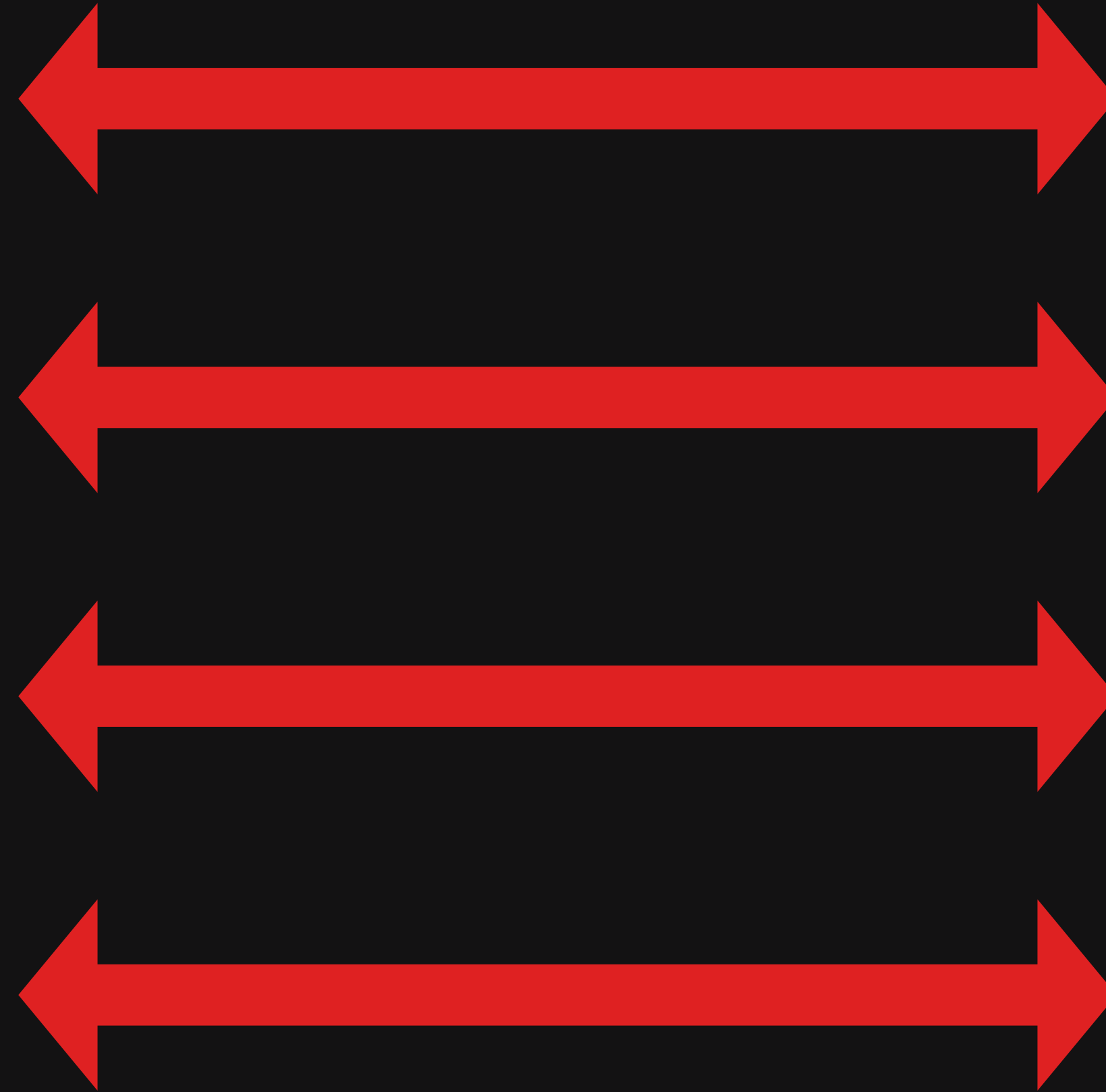
XDEBUG  
"SERVER"



XDEBUG  
"CLIENT"



debug "events"



XDEBUG  
"SERVER"



**OTHER IDEAS ARE AVAILABLE**

**INSTALL THE XDEBUG EXTENSION**

# OSX



```
brew install php<version>-xdebug
```



# LINUX



```
apt-get install php<version>-xdebug
```

```
yum install php<version>-xdebug
```

# WINDOWS

(GOOD LUCK)



Download the binaries from:

<https://xdebug.org/download.php>



```
php -v
```

```
PHP 5.6.17 (cli) (built: Jan  8 2016 10:27:48)
```

```
Copyright (c) 1997-2015 The PHP Group
```

```
Zend Engine v2.6.0, Copyright (c) 1998-2015 Zend Technologies
```

```
with Xdebug v2.3.3, Copyright (c) 2002-2015, by Derick Rethans
```

  
\$  
php -v

PHP 5.6.17 (cli) (built: Jan 8 2016 10:27:48)

Copyright (c) 1997-2015 The PHP Group

Zend Engine v2.6.0, Copyright (c) 1998-2015 Zend Technologies

with Xdebug v2.3.3, Copyright (c) 2002-2015, by Derick Rethans


  
\$  
php --ini

**Configuration File (php.ini) Path:** /usr/local/etc/php/5.6

**Loaded Configuration File:** /usr/local/etc/php/5.6/php.ini

**Scan for additional .ini files in:** /usr/local/etc/php/5.6/conf.d

**Additional .ini files parsed:** /usr/local/etc/php/5.6/conf.d/ext-intl.ini,  
**/usr/local/etc/php/5.6/conf.d/ext-xdebug.ini**

  
\$

```
vim /usr/local/etc/php/5.6/conf.d/ext-xdebug.ini
```

```
[xdebug]
```

```
zend_extension="/usr/local/opt/php56-xdebug/xdebug.so"
```

```
xdebug.remote_enable=on
```

```
xdebug.remote_connect_back=on
```

## INSTALL XDEBUG

```
brew install php56-xdebug
```

## CHECK PHP CONFIG

```
php -v
```

```
php -ini
```

## UPDATE XDEBUG

```
xdebug.remote_enable=on
```

```
xdebug.remote_connect_back=on
```



**PLEASE DON'T USE IN PRODUCTION**

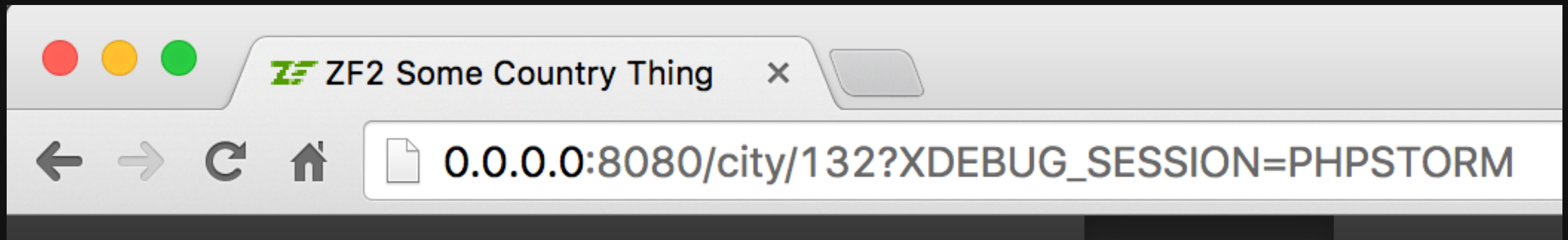


# TELL XDEBUG YOU WANT TO DEBUG



Use either a query string parameter  
OR a cookie

```
XDEBUG_SESSION=PHPSTORM
```





## Xdebug helper

Wrep

Easy debugging, profiling and tracing extension for Xdebug

★ RATE IT

Developer Tools

★★★★★ (267)



## Xdebug Output Toggler

george.g.larson@gmail.com

Toggle Xdebug output

+ ADD TO CHROME

Developer Tools

★★★★★ (3)

# ZF2 Some Country Thing

- [Aruba](#)
- [Afghanistan](#)
- [Angola](#)
- [Anguilla](#)
- [Albania](#)
- [Andorra](#)
- [Netherlands Antilles](#)
- [United Arab Emirates](#)
- [Argentina](#)

- ⚙️ Debug
- 🕒 Profile
- 📄 Trace
- ⚙️ Disable

XDEBUG  
"CLIENT"

Hello?

XDEBUG  
"SERVER"



XDEBUG  
"CLIENT"



Hello?



breakpoints



XDEBUG  
"SERVER"



XDEBUG  
"CLIENT"



Hello?



breakpoints



breakpoint!



XDEBUG  
"SERVER"



XDEBUG  
"CLIENT"



Hello?



breakpoints



breakpoint!



step into



XDEBUG  
"SERVER"





**BREAKPOINT?!?!?!?**

# BREAKPOINT?!?!?!?



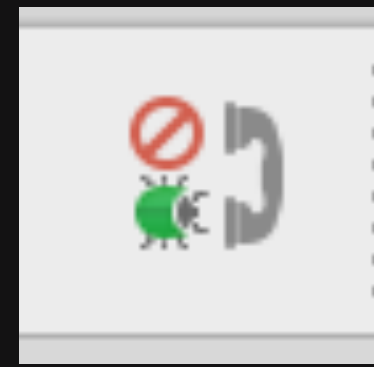
Please **BREAK** at this **POINT** and tell the server what's going on



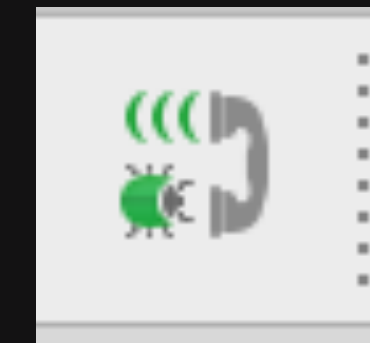
<http://www.goldposter.com/86057/>

**TELL PHPSTORM TO LISTEN**

OFF



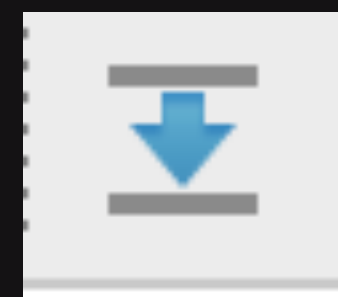
ON





**PLEASE STAND BY**

# STEP OVER (F8)



Step over the current function/method

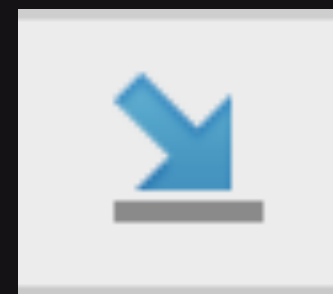
Runs the function/method, but doesn't debug into it



**PLEASE STAND BY**



# STEP INTO (F9)



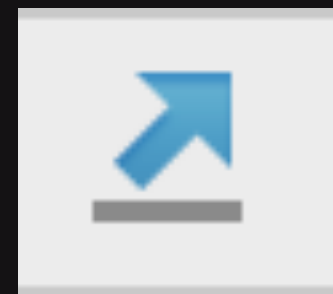
**Step into the current function/method**

**Move to the file the function was declared and steps over that function**



**PLEASE STAND BY**

# STEP OUT (F9)



Step out of the current function/method

Move to the place that the return value is used



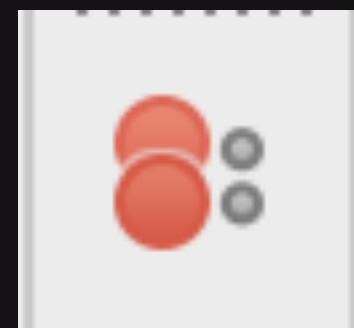
**PLEASE STAND BY**

# ADVANCED BREAKPOINTS



<http://www.comingsoon.net/movies/trailers/480825-new-point-break-poster>

# VIEW BREAKPOINTS



Misnomer as you can add/remove/edit existing breakpoints



**PLEASE STAND BY**





**BONUS**

<https://flic.kr/p/gqhi3N>

**CONSOLE**

# CONSOLE



Allows you to view and manipulate variable values on-the-fly



**PLEASE STAND BY**

*Double Bonus*

WHEN LIT

( LITES WHEN F-H  
ARE HIT )

# COMMAND LINE

# COMMAND LINE



**EXPORT** an **XDEBUG\_CONFIG** value to  
set IDE key



```
export XDEBUG_CONFIG="idekey=PhpStorm"
```





**PLEASE STAND BY**

# COMMAND LINE



Don't forget to **UNSET** the **XDEBUG\_CONFIG** value to avoid confusion



\$

unset XDEBUG\_CONFIG





ANY  
QUESTIONS?

<https://joind.in/talk/e43ec>



GARY HOCKIN  
@GeeH



**SUPER DUPER BONUS**

<https://twitter.com/jmikola/status/695659879244177408>

# FRAMEWORKS



**PLEASE STAND BY**



ANY  
QUESTIONS?

<https://joind.in/talk/e43ec>



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