

# What's New in Xdebug

*Symfony UG*

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<https://derickrethans.nl/talks/xdebug-symugberlin>

<https://xdebug.org>

# About Me

Derick Rethans

- I'm European, living in London
- ~~PHP 7.4 Release Manager~~
- **PHP Foundation**
- **Xdebug** & PHP's Date/Time support
- I ♥ 🌍 maps, I ♥ 🍺 beer, I ♥ 🥃 whisky
- mastodon: @derickr@phpc.social



# Introducing Modes

## Off

Loaded, but miniscule overhead

# Introducing Modes

## Develop

Every day debugging aides

# Introducing Modes

## Debugger

Debugging applications with an IDE  
Previously: remote debugger

# Introducing Modes

## Tracing

Tracing the execution of a script to a file

# Introducing Modes

## Profiler

Profiling application performance

# Introducing Modes

## Coverage

Which code is run during tests

# Introducing Modes

## Time Traveller



# Introducing Modes

# xdebug\_info()

Like `phpinfo()`, but then for Xdebug

## DEMO

# xdebug\_info( string \$category )

Obtain information about Xdebug programatically

## DEMO

```
xdebug_notify( mixed $data )
```

Send data over debugging protocol

# DEMO

# Breakpoint Resolving

Xdebug now finds the closest breakpoint line

## DEMO

# Breakpoint Resolving

Xdebug now finds the closest breakpoint line

## DEMO

How does this work?

# Breakpoint Resolving

Xdebug now finds the closest breakpoint line

## DEMO

How does this work?

Let's check the log...

## DEMO

# Return Values?

DEMO

# Breakpoint Resolving — Revised

The IDE can set breakpoints on non-existing files...

## DEMO

# xdebug\_connect\_to\_client()

Prods Xdebug to try to make a debug connection again

## DEMO

# "Smart" Host Names

Helping with the configuration madness...

```
xdebug.client_host=
```

```
xdebug://gateway
```

# "Smart" Host Names

Helping with the configuration madness...

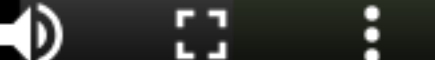
```
xdebug.client_host=
```

```
xdebug://gateway
```

```
xdebug://nameserver
```



0:00 / 0:50



<https://xdebug.cloud>

# Supporting Xdebug

It's Open Source and free (as in "free beer")  
I would like to work more on Xdebug, to help **you**

## Features and Bugs

<https://bugs.xdebug.org>

 **BECOME A PATRON**

<https://www.patreon.com/derickr>

 **Sponsor**

<https://github.com/sponsors/derickr>

# Business Support

Community	Pro	Business
	1 developer	2-20 developers
Choose amount on <a href="#">Patreon</a> or <a href="#">GitHub</a>	£ 200/year *	£ 1000/year *
Tech Support: <a href="#">Stackoverflow</a> Issue Priority: Low ✓ Monthly News Post	✓ Tech Support: E-mail ✓ Issue Priority: Medium ✓ Access to Commercial Add-ons (soon) ✓ Monthly E-mail Newsletter (opt-in) ✓ Invoice †	✓ Tech Support: E-mail ✓ Issue Priority: High ✓ An hour long presentation or workshop ✓ Access to Commercial Add-ons (soon) ✓ Monthly E-mail Newsletter (opt-in) ✓ Invoice † ✓ "Thank You" with link on site
Support Xdebug via <a href="#">Patreon</a> or <a href="#">GitHub</a>	Sign Up	Sign Up

<https://xdebug.org/support>

Bubble Shooter

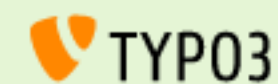
Find My Electric



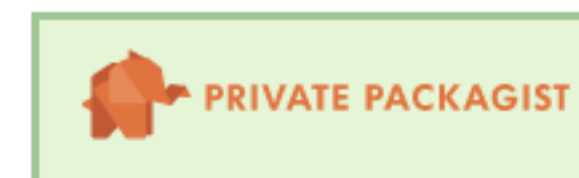
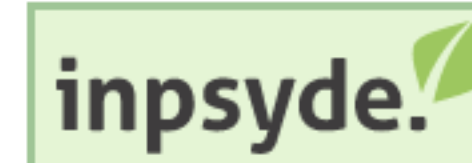
IO Belgium

b13

REWE Digital GmbH

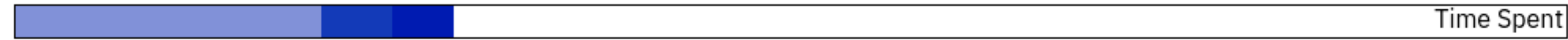
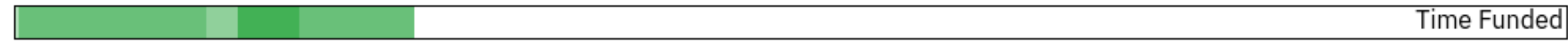


Tideways




# Transparency

## September 2023



Day	Type	Description	Hours
3	bug	Reinvestigating comments to #1374	0.50
5	xdebug3	Preparing releases etc for PHP 8.3 and a 3.3.0alpha1 release	4.00
6	xdebug3	Finalising 3.3.0alpha1 release	0.75
6	xdebug3	Making 3.3.0alpha2 release as PECL web was broken	0.75
8	xdebug3	Issue #2203: Change default max_nesting_level to 512	0.25
14	bug	Triaging issues	2.50
18	xdebug3	Issue #2077: Reimplementing collect_params, after a few exploratory implementations	3.00
19	xdebug3	Issue #1732: Finalise and merge flamegraph tracing output	2.00
25	bug	Investigate read after free with generators	1.00
25	docs	Make flamegraph video	1.50
25	docs	Make dbgproxy video	3.00
28	xdebug3	Switching from intercepting execute_ex to Observer API	4.00
29	xdebug3	Switching from intercepting execute_ex to Observer API	5.00

For additional information, please see the [monthly](#) report.



**Any Queries?**

# Resources



## Slides

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