# Better Debugging with Xdebug

ConFoo 2025

### Derick Rethans

derick@xdebug.org — @derickr@phpc.social

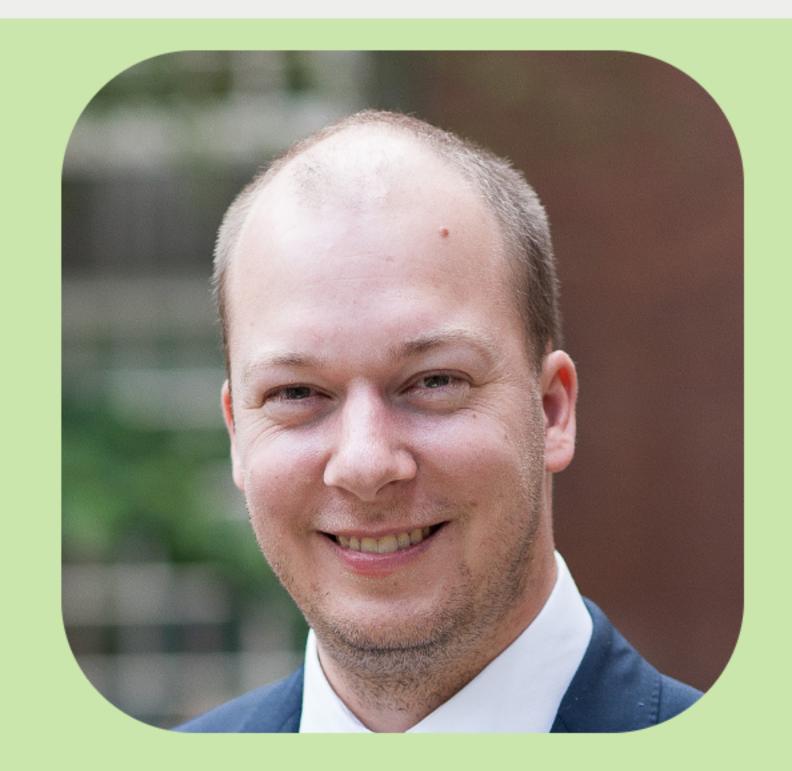
https://derickrethans.nl/talks/xdebug-confoo25

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



# xdebug\_info()

Like phpinfo(), but then for Xdebug

# xdebug\_info( string \$category )

Obtain information about Xdebug programatically

# xdebug\_notify( mixed \$data )

Send data over debugging protocol

# Recently Added Features

### **Breakpoint Resolving**

Xdebug now finds the closest breakpoint line

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### DEMO

How does this work?

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Xdebug now finds the closest breakpoint line

DEMO

How does this work?

Let's check the log...

### Return Values?

### **Breakpoint Resolving — Revised**

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

## xdebug\_connect\_to\_client()

Prods Xdebug to try to make a debug connection again

### "Smart" Host Names

Helping with the configuration madness...

xdebug.client\_host=

xdebug://gateway

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Helping with the configuration madness...

xdebug.client\_host=

xdebug://gateway

xdebug://nameserver

# Recently Added Features

### Xdebug 3.3: Control Sockets

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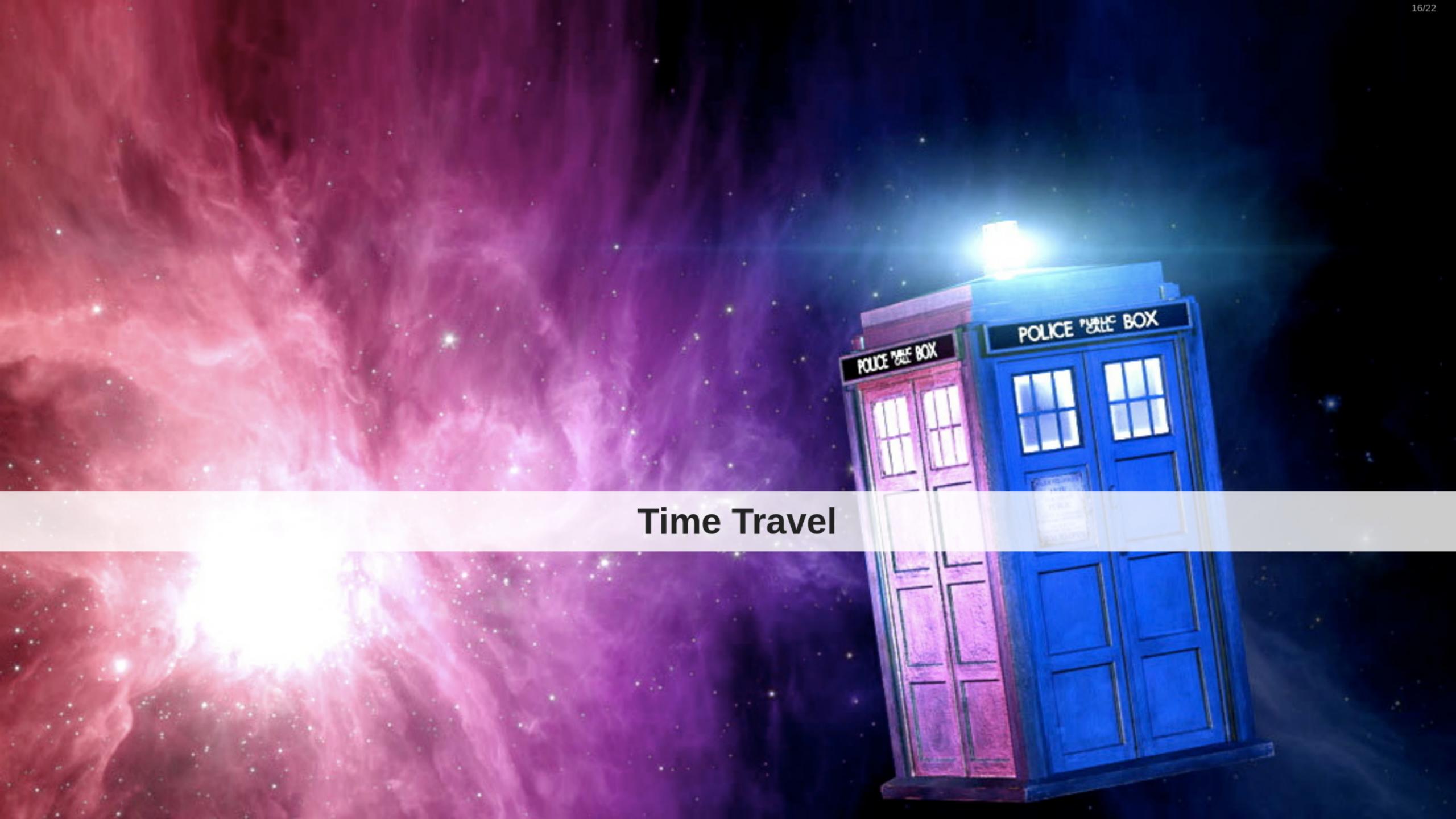
- Linux Only
- Local System Only
- Windows Support in Progress
- IDE Support under Discussion

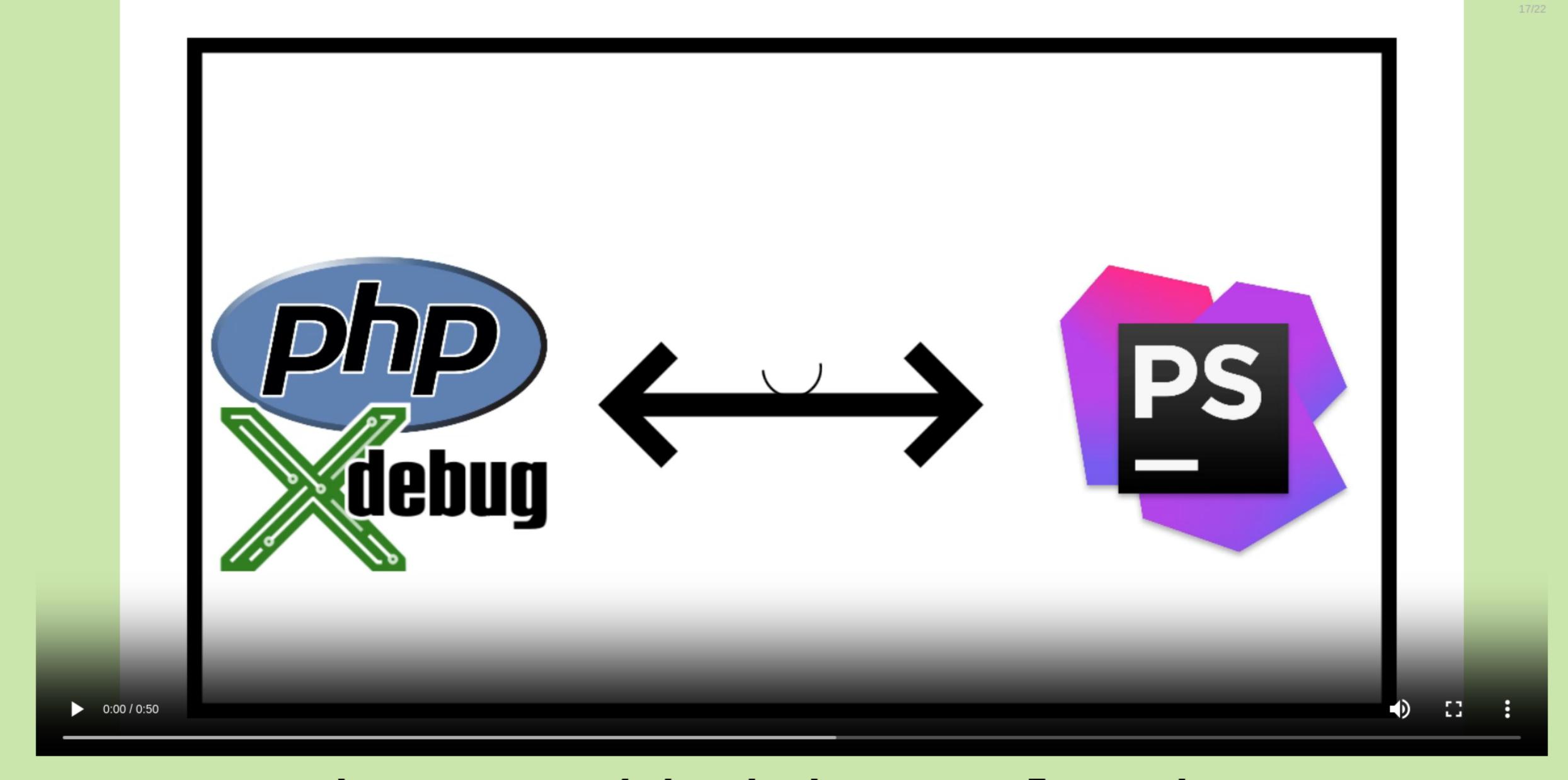
### Future Features

### Xdebug 3.4: Native Path Mapping

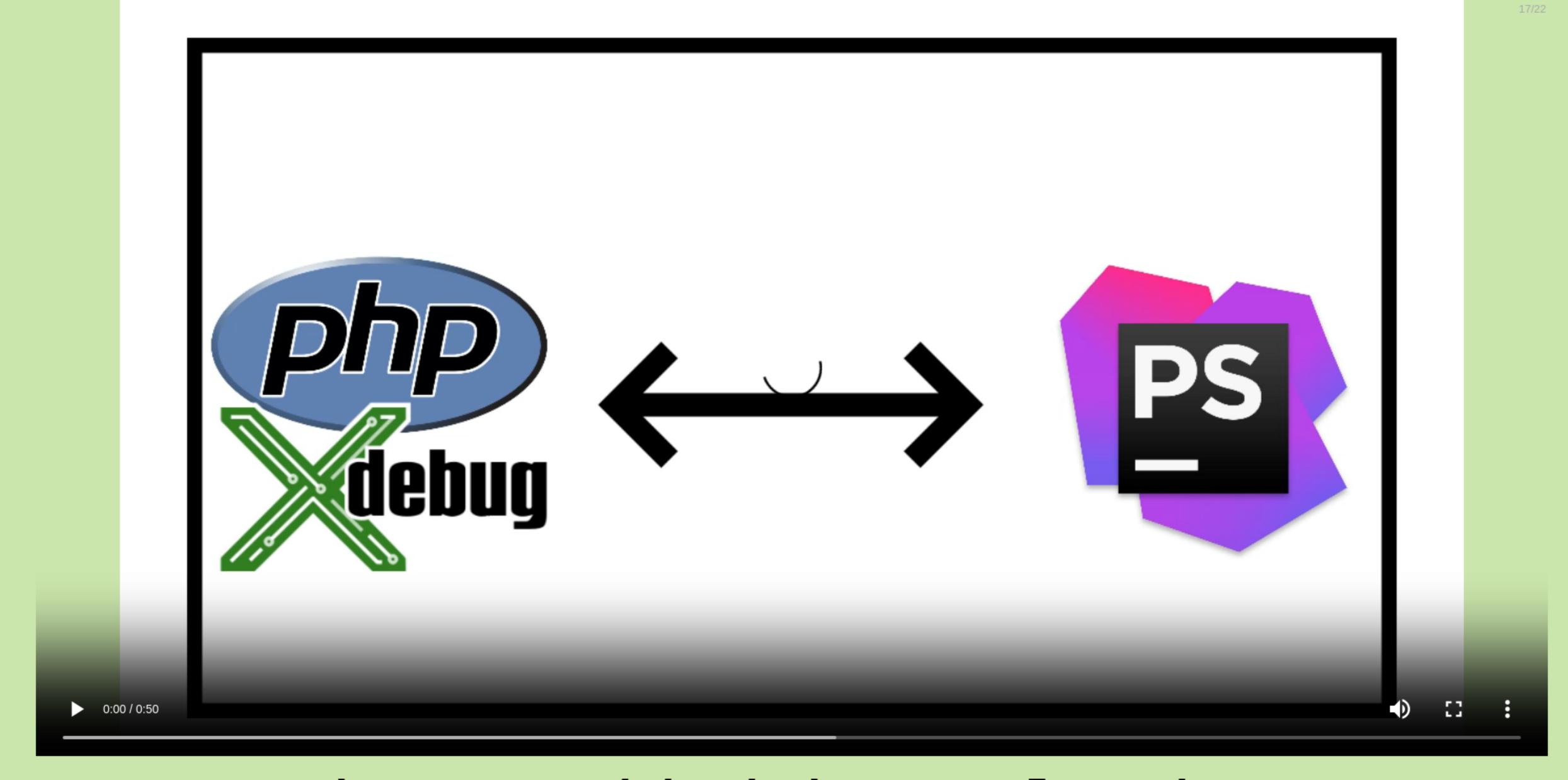
# Using project specific file to map directories, files, and line ranges

https://xdebug.org/funding/001-native-path-mapping





https://xdebug.cloud



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

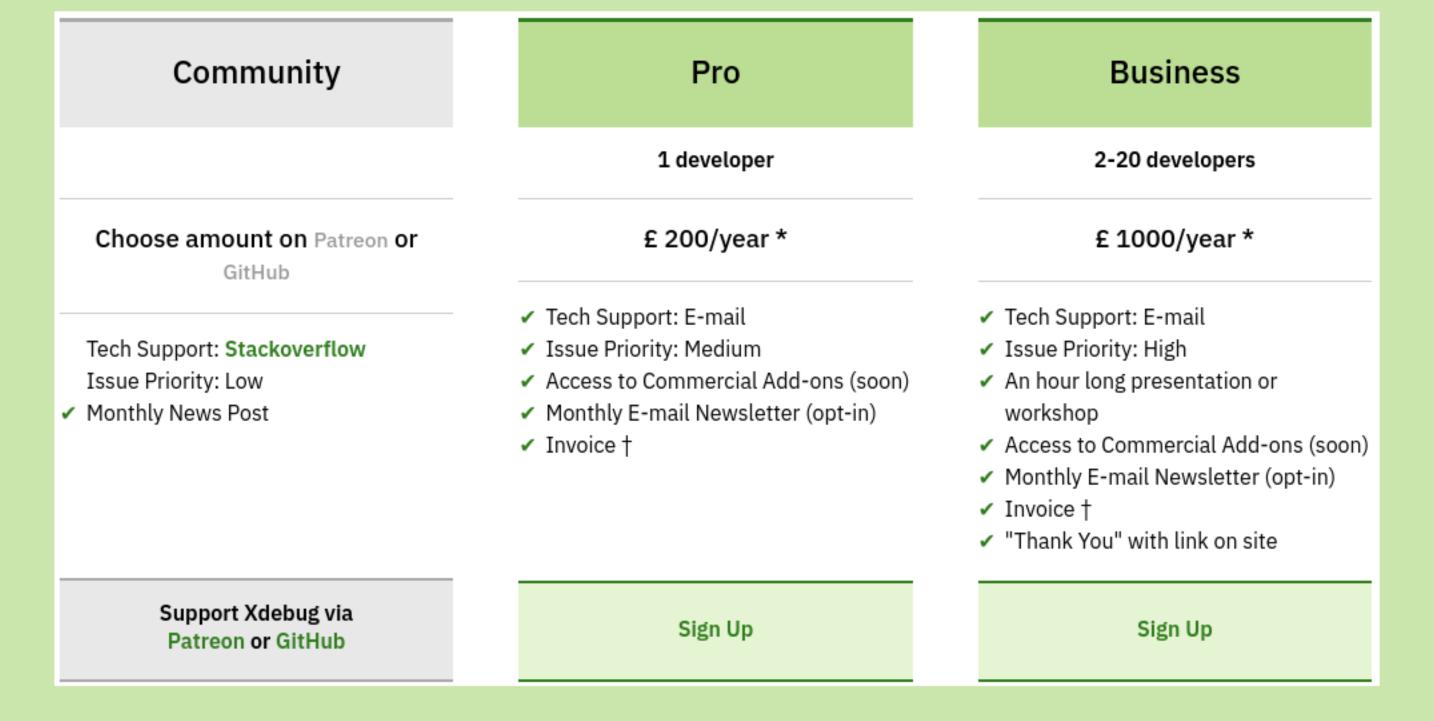


https://www.patreon.com/derickr

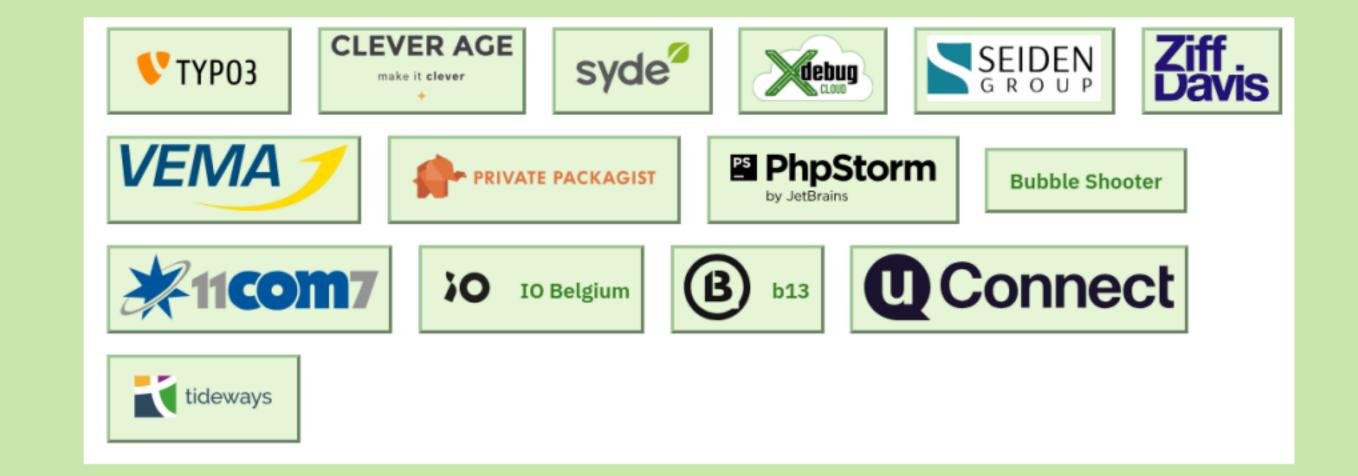


https://github.com/sponsors/derickr

### **Business Support**



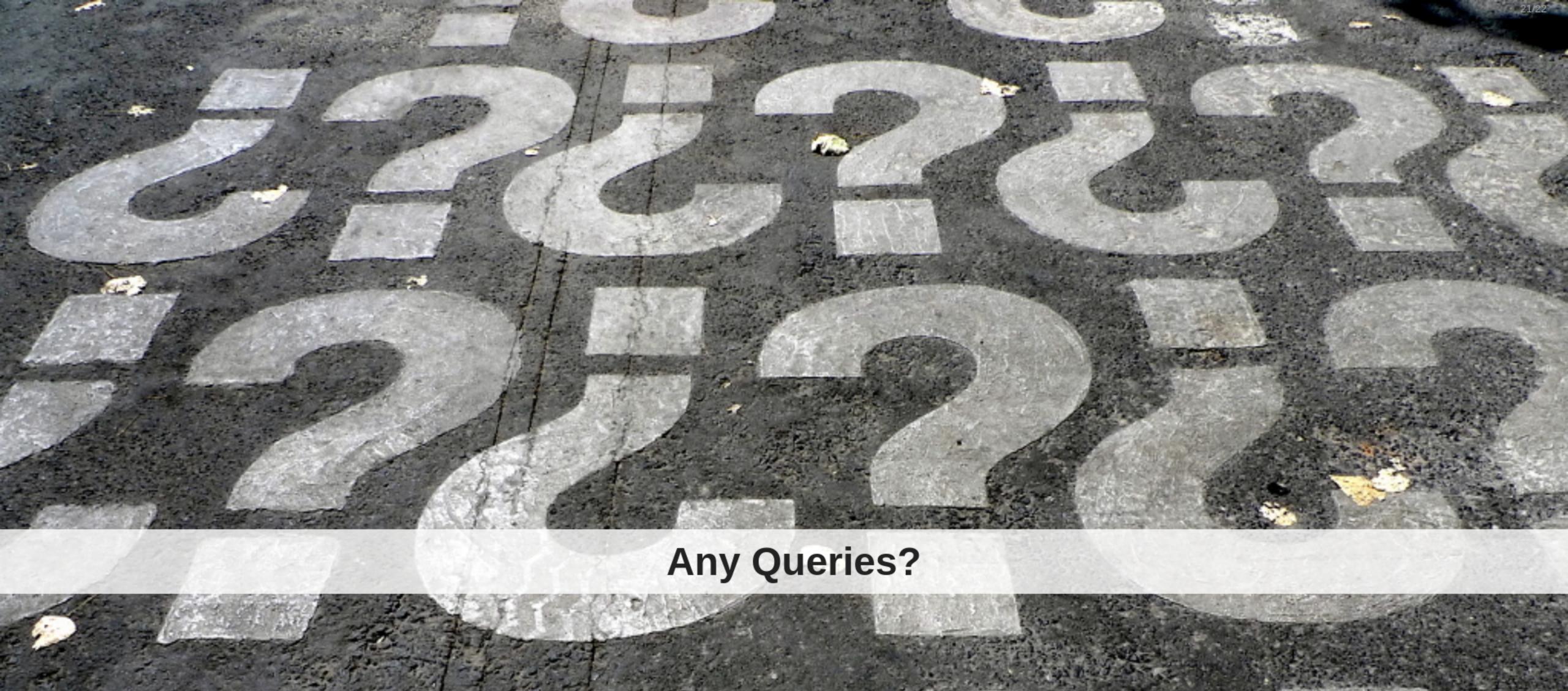
### https://xdebug.org/support



### **Transparency**

### May 2024

			Time Funded	
			Time Spent	
Day	Туре	Description	Hours	
1	bug	Issue #2264: Precision with overloaded var_dump	2.00	
1	website	Update website with "projects" features, including accepting funding for projects	6.00	
20	bug	Triage, and dbgpProxy/dgpClient binaries license questions	1.00	
20	ci	Fixing Xdebug CI	1.50	
20	docs	Add descriptions for published binary tools	0.50	
27	xdebug3	Create PIE definition file	0.50	
29	xdebug3	PHP 8.4 support: Wrapping closures/ Fixing tests	4.00	
30 (	xdebug3	Tryingout Xdebug changes needed for "Exit" opcode removal	4.00	
31	xdebug3	Creating a release and testing with PIE	3.50	





#### 22/22

#### Resources



#### **Slides**

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https://xdebug.cloud

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