

エディタ中立なPHP開発環境の現在

Modern editor-independent
development
environment for **PHP** **公開版**

2018-11-23 Akiba Tokyo, Japan
VimConf 2018 [#vimconf](https://twitter.com/vimconf)

日本語でok

なぜ2018年にIDEと

Emacsを選ぶのか

Why was IDE and Emacs chosen, now in 2018?

pixiv

2018-02-19 FJCT #techbeerbash
Tech Beer Bash 2018 vol.1

WIP:

Emacsでインテリジェントな

PHPコーディング2018

Intelligent PHP coding in Emacs.

pixiv

2018-06-16 #phpconfuk_rej
PHPカンファレンス福岡2018前夜祭りプロジェクトコン

筆者の英語は残念なので
発表済みの日本語資料を
先に読むことをおすすめ

Qiita



@tadsan 2018年07月31日に投稿 4263 views

PHPで開発が捗るリアルタイムエラーチェック

PHP

Emacs

Vim

PHPStan

| Who am I...?

aka @tadsan

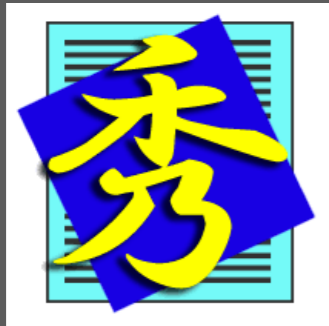


- Kenta Usami (うさみけんた, @zonuexe)
- Language hobbyist, I love Lisp.
- Web programmer @pixiv
- Founder of Emacs-**PHP**
 - <https://github.com/emacs-php>





| My favorite text editors



Maruo Editor (秀丸)



Mery



micro



TATEditor

I usually use Emacs



- That's because it's a Lisp machine that is easy for me to hack.
- There are reasons for each person to choose an editor.
- I am a professional programmer so I would like to raise development efficiency.

First of all...

We hate
“Religious War”

宗教戦争

Code of Conduct

VIMCONF

An International Vim Conference

Code of Conduct

[日本語版はこちら](#) / [Japanese Version](#)

VimConf is an international conference series of community events for knowledge-sharing, communication, and collaboration, focusing mainly on technology. (TODO: rewrite a paragraph)

Our prime goal is to provide events where all of the attendees can enjoy, and feel welcome to attend. To this end, we expect all who participate in our events to be courteous and be civil towards one another.

We ask that all participants including, but not limited to, the organizers and

Windows
VS
UNIX

Tab
vs
Space

Statically typed

vs

Dynamic typing

...and

Emacs

vs

vi



No

It was a joke?
It violates professionalism.





おk?

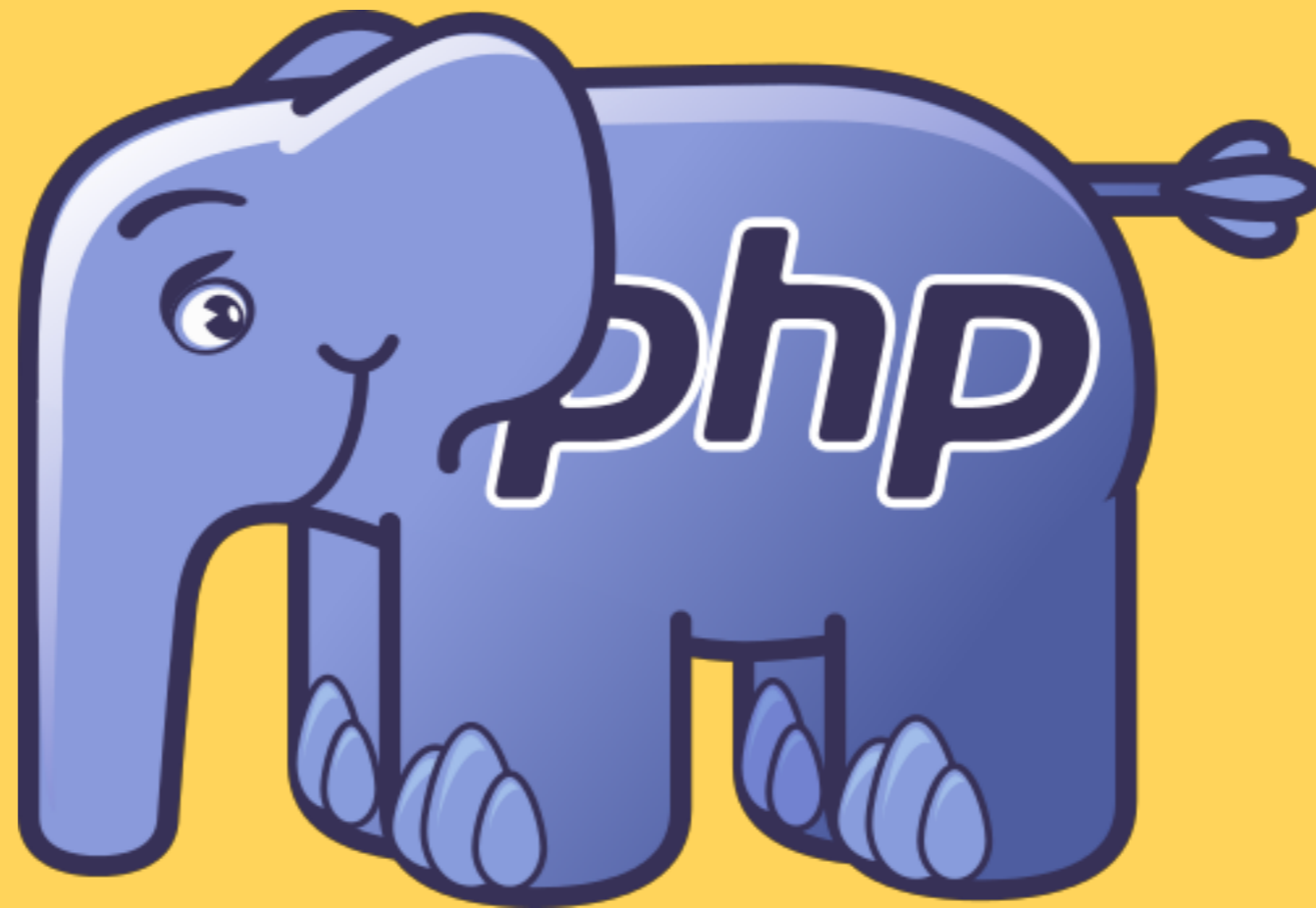
Even outside
the conference.
Is that okay?



リスペクト

Text editor and Plugin
developers and power users
respect each other and
incorporate the trends of
other text editors.

ElePHPant



| What's PHP?



<?php



- It is a kind of Web platform.
- Small sites, many CMS, large scale SNS are built with PHP.
- It is also a general purpose programming language.

| PHP as a Language

手続き？



- PHP is procedural and it has object-oriented feature.
- Weak typing and dynamic type-checking.
- PHP is relatively suitable for static analysis in dynamic langs.

知らんけど



*“We have things like protected properties.
We have abstract methods. We have all
this stuff that your computer science
teacher told you you should be using.
I don't care about this crap at all.”*

–Rasmus Lerdorf

https://en.wikiquote.org/wiki/Rasmus_Lerdorf



なんでもできる

Abstract class, Trait, Interface,
Generator, Iterator, Closure, Dynamic
function call, Anonymous class, eval,
Type declaration, Associative array
(Hash table), Reflection API, Self-
documentation, Standard I/O, REPL,
Lazy class loading, etc...

| PHP coding styles

ばらばら



- PHP can be run on cheap hosting servers.
- PHP as a HTML template,
PHP as a CGI script,
PHP as a OOP language...
- Various people share PHP.

| PHP needs IDE?

くあwせdrftgy



- In the early days of my career, there was no one around me developing with IDE.
- However, the scale of our code was huge and it was obvious that tool assistance is necessary.

| PHP with text editor

ふじこ p ; @



- The usual way to code PHP with a text editor is tag jump.
- But project has multiple methods with the same name in OOP.
- There is no smart input completion.

| Refactoring...?

むりぽ



- The important thing is sed and a visual check.
- Must allow the possibility of a run-time error due to refactoring.

Photoshop



PhpStorm

| JetBrains IDE

つよい



- PhpStorm is an IDE derived from IntelliJ IDEA (Java IDE).
- JetBrains' IDE is good at static analysis and refactoring.
- The PHP static analysis features of PhpStorm is practical.

| Static Analysis

解析できるぞ



- Static analysis is required for error detection of code path not executed in test.
- PhpStorm can check mistakes with high accuracy if conditions for specifying types are available.

Coding on PhpStorm

ミスがわかる



```
11 foreach (x() as $dt) {  
12     $dd ->
```

Undefined variable \$dd more... (⌘F1)

```
14  
15 $str = 'string';  
16 echo count($str);
```

Expected array|Countable, got string more... (⌘F1)

| Coding on PhpStorm スマート



Typed

```
foreach (x() as $dt) {
```

\$dt->

```
}  
diff(datetime2 : \DateTimeInterface, [absolute : b... DateInterval  
format(format : string) string  
getOffset() int  
getTimestamp() int  
getTimezone() DateTimeZone
```

Press ^Space again to see more variants >> π

| Coding on PhpStorm

わかりやすい



Popup
signature

```
datetime2 : \DateTimeInterface, [absolute : bool = false]
```



```
$dt->diff()
```

```
}
```

```
1  
2  
3  
4
```


Awesome!
PhpStorm

But, do we have to
purchase PhpStorm
to write PHP?

No, No.

Since we are developers,
we can create FREE
implementations other
than PhpStorm.

クォリテイタカス



PHP QA Projects

Several PHP static
analyzer projects
are active

Phan

PHPStan

Phpactor

| Phan

鬼強い



- <https://github.com/phan/phan>
- Static analyzer
- Slow, but it inspects the entire project precisely
- It's included LSP Server

| PHPStan

鬼速い



- <https://github.com/phpstan/phpstan>
- Dynamic and Static hybrid
- Very fast and accurate
- Specific RPC and LSP

| PSR-5 (PHPDoc)

互换性



- PHP Standard Recommendation(Draft)
- PHPDoc is the de facto standard for writing type definitions in DocComment.
- They are working on the standard specification of that tag and type definition

| Phpactor

鬼速い



- <http://phpactor.github.io/phpactor/>
- Phpactor provide code jump, completion, refactoring
- This is under development and is now inferior to PhpStorm, but it is promising in the future.

各位仲良く



Editor-independent Movements

| LSP

スマート



- Language Server Protocol
<https://microsoft.github.io/language-server-protocol/>
- A Language Server is meant to provide the language-specific smarts and communicate with development tools over a protocol that enables inter-process communication.

| EditorConfig

Tab vs Space



- <https://editorconfig.org/>
- Indent and Newline code can be set for each file name and extension.

| EditorConfig

エディタ横断



```
# Unix-style newlines with a newline ending every file
[*]
end_of_line = lf
insert_final_newline = true

# Set default charset
[*.{js,py}]
charset = utf-8

# 4 space indentation
[*py]
indent_style = space
indent_size = 4

# Tab indentation (no size specified)
[Makefile]
indent_style = tab
```





vim

On Vim

| ALE

編集集中にわかる



- Asynchronous Lint Engine
<https://github.com/w0rp/ale>
- ALE supports PHP syntax checker, PHPStan, Phan, Psalm, PHP CS, PHP-CS-Fixer and LSP

Coding on Vim+ALE ミスがわかる



```
--      if (php_sapi_name() === 'cli') {  
          try {  
              $this->addPlugin('Bake');  
          } catch (MissingPluginException $e) {  
              // Do not halt if the plugin is missing  
          }  
      }
```

src/Application.php

Function php_sapi_name not found.

```
      $a = 1;  
      $b = [];  
--      echo $a + $b;  
  
      if (PHP_SAPI === 'cli') {  
          try {  
              $this->addPlugin('Bake');  
          } catch (MissingPluginException $e) {  
              // Do not halt if the plugin is missing  
          }  
      }
```

src/Application.php

Binary operation "+" between 1 and array() results in an error.

Coding on Vim+ALE

型付けされてる



```
>> * @return \Cake\Http\MiddlewareQueue The updated middleware queue.
*/
public function middleware($middlewareQueue)
{
    return 1;
    $middlewareQueue
        // Catch any exceptions in the lower layers,
        // and make an error page/response
        ->add(ErrorHandlerMiddleware::class)
}

src/Application.php
Method App\Application::middleware() should return Cake\Http\MiddlewareQueue but returns int.
```

Typed

| Phpactor

リファクタ



- Phpactor Vim Plugin Provides
 - Context menu
 - Code Navigation
 - Completion (It supports Vim's Omni-completion, Deoplete, NeoVim's NCM and NCM 2)

A cartoon character with a yellow head and a white face is shown in the top right corner. The character has a large, blue speech bubble coming from its mouth. The speech bubble contains the Japanese text "なにそれ" (nani sore), which translates to "What is that?" in English. The character's eyes are wide open, and its mouth is open as if speaking.

なにそれ

Veonim

| Veonim



やばい

- veonim is a simple modal IDE built on neovim.
<https://github.com/veonim/veonim>
- That is integrated with LSP and has a graphical interface like IDE.
- Veonim realized almost all the functions I wanted as ideal Vim.

| Veonim

やばい



- I learned Veonim by @ShougoMatsu two weeks ago.
- He said that I do not use yet because my plugins does not work.
- I have not finished studying Veonim yet, but this may be a wonderful IDE