Contributing to Core

My Journey to Add array_column() to the PHP Core

Ben Ramsey

Our journey begins

array_column()

```
array array_column ( array $array , mixed
$column_key [, mixed $index_key = null ] )
```

```php
$records = array(
    array(
        'id' => 2135,
        'first_name' => 'John',
        'last_name' => 'Doe',
    ),
    array(
        'id' => 3245,
        'first_name' => 'Sally',
        'last_name' => 'Smith',
    ),
    array(
        'id' => 5342,
        'first_name' => 'Jane',
        'last_name' => 'Jones',
    ),
    array(
        'id' => 5623,
        'first_name' => 'Peter',
        'last_name' => 'Doe',
    )
);
```

```php
$first_names = array_column($records, 'first_name');
print_r($first_names);
```

```
Array
(
    [0] => John
    [1] => Sally
    [2] => Jane
    [3] => Peter
)
```

```php
$last_names = array_column($records, 'last_name', 'id');
print_r($last_names);
```

```
Array
(
    [2135] => Doe
    [3245] => Smith
    [5342] => Jones
    [5623] => Doe
)
```

My history

A brief history of internals
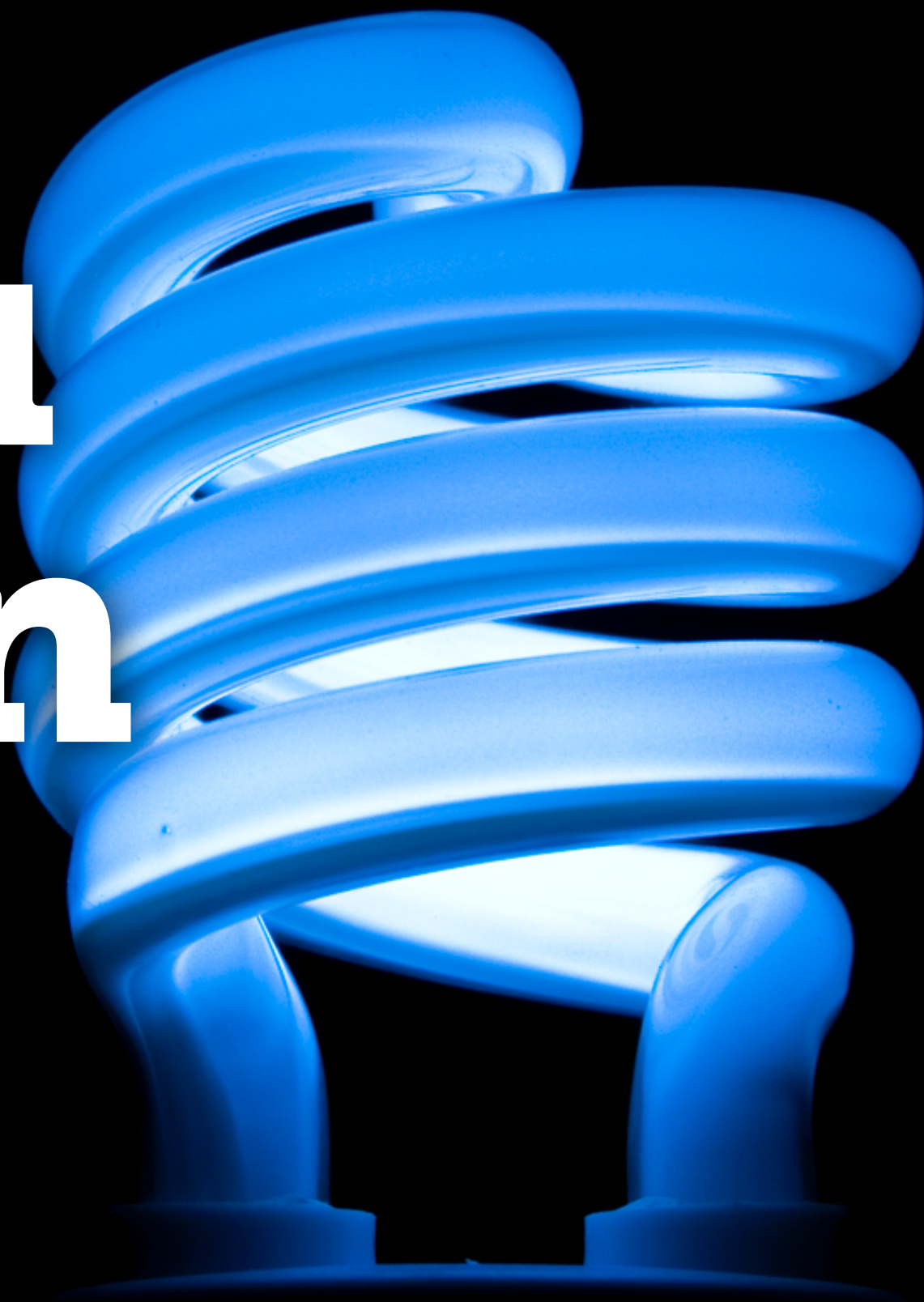
Changes

RFC Process

Subversion

Release Process

Voting Process

DVCS (Git)

So, you have an idea?

1. Email internals

internals@lists.php.net

Don't be intimidated

Propose your idea

Get feedback

Don't get discouraged

2. Create an RFC

Get wiki karma, if needed

Create your RFC on the wiki by going to a URL like wiki.php.net/rfc/my_rfc and clicking "Create this page"

Follow the RFC template provided

Add your RFC to the "In Draft" section on wiki.php.net/rfc

3. Open discussion

Change the status of your RFC to "Under Discussion"

Move your RFC to the "Under Discussion" section on wiki.php.net/rfc

Send email to internals to introduce your RFC

Try to answer/resolve all questions; incorporate the feedback into your RFC

4. Call for votes

When all questions have been resolved and a minimum of 2 weeks have passed, change the RFC status to "Voting"

Move your RFC to the "Voting" section on wiki.php.net/rfc

Add the voting macro to the RFC page

Start a new thread on internals with "[VOTE]" in the subject line

5. Voting ends

Your RFC will be:

1. Accepted

2. Declined

3. Needs more discussion

In any case, update the status of the RFC on the wiki

6. Implementation

Once implemented, update the RFC again with:

1. The version it was merged into

2. Links to the commits/pull request

3. A link to the PHP manual entry

The mailing list

Here be dragons?

Not really

Just passionate people

1. Respect other people working on the project.

2. Do not post when you are angry.

3. Make sure you know what you are talking about.

4. Be aware of what previous posters have said.

5. Use your real name & keep signatures to two lines.

6. Now and then, step back from an active thread.

7. Do not top post.

8. Do not hijack threads.

Creating an RFC

🔒 https://wiki.php.net/rfc/my_rfc?do=edit&rev=0

php   Edit this page   Admin   Logout   ramsey (ramsey)   Search

start

Edit the page and hit Save. See [syntax](#) for Wiki syntax. Please edit the page only if you can **improve** it. If you want to test some things, learn to make your first steps on the [playground](#).

B *I* <u>U</u> TT ~~S~~ | | | | | | | |

```
====== PHP RFC: Your Title Here ======
  * Version: 0.9
  * Date: 2013-02-24 (use today's date here)
  * Author: Your Name, your_email_address@example.com
  * Status: Draft (or Under Discussion or Accepted or Declined)
  * First Published at: http://wiki.php.net/rfc/your_rfc_name

This is a suggested template for PHP Request for Comments (RFCs).  Change this template to suit your RFC.  Not all RFCs need to
be tightly specified.  Not all RFCs need all the sections below.
Read https://wiki.php.net/rfc/howto carefully!


Quoting [[http://news.php.net/php.internals/71525|Rasmus]]:

> PHP is and should remain:
> 1) a pragmatic web-focused language
> 2) a loosely typed language
> 3) a language which caters to the skill-levels and platforms of a wide range of users
```

[Save] [Preview] [Cancel]

Edit summary [created   ] ☐ Minor Changes

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Introduction

Proposal

Backward Incompatible Changes

Proposed PHP Version

Open Issues

Patches and Tests

Implementation

Rejected Features

Set up your environment

GitHub

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ramsey / **vagrant-php-src-dev**

★ Star 26   ⑂ Fork 3

Uses Vagrant to provision a basic virtual environment for hacking on the PHP core.

⟳ **10** commits	⑂ **1** branch	⌑ **0** releases	⑃ **2** contributors

⟳ branch: master ▾   **vagrant-php-src-dev** / ⊞

Update the Vagrantfile for more memory, etc.

ramsey authored 2 months ago   latest commit 403b20c3fc ⎘

📁 puppet	Set up the VM for PHP 5.6 development by default	2 months ago
📄 .gitignore	Adding .DS_Store to the ignore list	10 months ago
📄 README.md	Create README.md	10 months ago
📄 Vagrantfile	Update the Vagrantfile for more memory, etc.	2 months ago

📖 **README.md**

vagrant-php-src-dev

Uses Vagrant to provision a basic virtual environment for hacking on the PHP core.

The machine that these scripts creates is a basic environment to use for modifying, building, testing, and contributing to the PHP core. It is not full-featured on purpose. However, it does do some helpful initial system

‹› Code

⊙ Issues   0

⑊ Pull Requests   0

⟋ Pulse

▥ Graphs

⑃ Network

HTTPS clone URL

https://github.com ⎘

You can clone with HTTPS or Subversion. ⑦

🖥 Clone in Desktop

⬇ Download ZIP

Contributing to PHP Core

bram.se/php-contrib

Build cycle

Running make can take a while; no need to run configure or make clean after every code change

Don't forget to buildconf

Compiler warning messages can be difficult to see; use:

```
make 2> tee ~/php55-make.log
```

Running tests

Running make test can also take forever

You can run individual tests:

```
sapi/cli/php run-tests.php ext/
standard/tests/array/
array_column_basic.phpt
```

Don't forget to set your test executable:

```
export TEST_PHP_EXECUTABLE=/home/
vagrant/src/php-src/sapi/cli/php
```

Sending a pull request

https://github.com/php/php-src/pull/257

GitHub

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php / **php-src**

⭐ Star **4,080**   ⑂ Fork **1,349**

Implement new array function array_column() #257

🔴 **Closed**   **ramsey** wants to merge 14 commits into `php:PHP-5.3` from `unknown repository`

| 💬 Conversation **18** | ⑄ Commits **14** | 📄 Files changed **5** |

+528 −0

---

ramsey commented a year ago

This pull request supersedes pull request #56. I have cleaned it up and have rebased branch PHP-5.3 onto my branch.

This pull request also includes new work as a result of feedback received on the original pull request and mailing list discussion.

References:

- https://wiki.php.net/rfc/array_column
- #56
- http://marc.info/?l=php-internals&m=134030710017255&w=2

Milestone
No milestone

Assignee
No one assigned

Notifications

11 participants

---

ramsey added some commits 2 years ago

⑄	Implement new array function array_column() ···	9035a1e
⑄	Adding tests for the negative results of array_column()	a811e5b
⑄	Adding test for columns not present in all rows for array_column().	dc4dfe8
⑄	Simplify the code and use zend_hash_next_index_insert()	6a27b89

But I don't know C

```
printf("hello, world\n");
```

...LANGUAGE...

...compile it successfully, lo...your output went... With these mechanical...thing else is comparatively easy.

...to print "hello, world" is

Just how to run this program depends on the UNIX operating system... a specific example, on the source program in a file whose name ends... compile it with the command

cc hello.c

haven't...

Find a mentor

You win some, you lose some

About the process

PHP RFCs
wiki.php.net/rfc

How to create a PHP RFC
wiki.php.net/rfc/howto

Chris Jones's blog post, "The Mysterious PHP RFC Process…"
blogs.oracle.com/opal/entry/the_mysterious_php_rfc_process

Voting RFC
wiki.php.net/rfc/voting

Developing core

PHP Internals Book
www.phpinternalsbook.com

Extending and Embedding PHP
www.amazon.com/Extending-Embedding-PHP-Sara-Golemon/dp/067232704X

php-src on GitHub
github.com/php/php-src

References about maintaining and extending PHP
wiki.php.net/internals/references

Thank you

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joind.in/10801

Photo Credits

Photo Credits

8. "Dragon" by Paola Kizette Cimenti,
   flickr.com/photos/kizette/2973745353

9. "Nature montagnarde" by Benoit Theodore,
   flickr.com/photos/gelinh/6498667217

10. "printf('hello, world\n');" by isipeoria,
    flickr.com/photos/isipeoria/6691167811

11. "Interns and Mentors" courtesy of Pacific Northwest National Laboratory,
    flickr.com/photos/pnnl/7161669168