

Contributing to Core

**My Journey to Add
`array_column()` to PHP**

Ben Ramsey



HI, I'M BEN.

I'm a web craftsman, author, and speaker. I build a platform for professional photographers at ShootProof. I enjoy APIs, open source software, organizing user groups, good beer, and spending time with my family. Nashville, TN is my home.

✿ Books

- ✿ *Zend PHP Certification Study Guide*
- ✿ *PHP 5 Unleashed*
- ✿ Nashville PHP & Atlanta PHP
- ✿ `array_column()`
- ✿ `ramsey/uuid` library
- ✿ virtPHP
- ✿ PHP League OAuth 2.0 Client

ShootProof []



ShootProof []

We're hiring.

Our
journey
begins



array_column()

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

```
$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',  
    )  
);
```

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

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

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

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

My story



gb [PHP-INTERNAL] [DRAFT] x

grokbase.com/t/php/php-internals/126nxxa80p/draft-rfc-array-column-function

Grokbase > Groups > PHP > php-internals > June 2012

FAQ | Add search

grokbase

[PHP-INTERNAL] [DRAFT] RFC - array_column() function

 Ben Ramsey 
Jun 21, 2012 at 2:27 pm

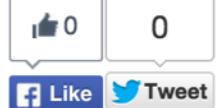
Hi all,

I've written a draft version of an RFC for pull request 56 (<https://github.com/php/php-src/pull/56>), to add array_column() to the core. Please take a look and provide feedback so that I can improve the patch/proposal.

https://wiki.php.net/rfc/array_column

Thanks,
Ben

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17 responses

Discussion Navigation

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Discussion Overview

| | |
|------------|---------------------------------------|
| group | php-internals |
| categories | php |
| posted | Jun 21, '12 at 2:27p |
| active | Jun 27, '12 at 6:13a |
| posts | 18 |
| users | 13 |
| website | php.net |

Preferences

| | |
|------------|--------------------------|
| responses | expanded |
| font | variable |
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13 users in discussion



Implement new array functi x

GitHub, Inc. [US] https://github.com/php/php-src/pull/56

GitHub This repository Search Explore Features Enterprise Blog Sign up Sign in

 **php / php-src** Watch 817 Star 6,152 Fork 2,231

Implement new array function array_column() #56

 **Closed** ramsey wants to merge 12 commits into `php:PHP-5.3` from `unknown repository`

Conversation 21 Commits 12 Files changed 5 +337 -0

 ramsey commented on Apr 14, 2012

array_column() returns the values of the specified column from a multi-dimensional array.

I've actually had this patch sitting around for several years, and I decided to take a look, clean it up, and finally submit it. Inspired by database methods like PDOStatement::fetchColumn(), I wrote this to scratch an itch, since I've often had the need to take a recordset array and pull a single column of values from it, which normally involves looping over the array and creating a new array of the values for the column I want to pull. I decided to implement this in the PHP core to save that step.

You can take a look at the test included to see how it works. The second parameter is the key for the column to return, which can be a number for numeric indexes or a string for associative arrays. If it can't find the column specified, it simply returns an empty array.

 ramsey added some commits on Apr 13, 2012

-  Implement new array function array_column() ... 993d9fe
-  Adding tests for the negative results of array_column() 2b81bb7
-  Adding test for columns not present in all rows for array_column(). 5cfca33
-  Simplify the code and use zend_hash_next_index_insert() 0a511b2

Establishing secure connection... ↗ array_column() fe86688

Labels
None yet

Milestone
No milestone

Assignee
No one assigned

10 participants


Implement new array function

GitHub, Inc. [US] https://github.com/php/php-src/pull/56

 **ramsey** commented on Apr 17, 2012

@cataphract, can you suggest how that might look like PHP? I don't think my implementation is too far off. With some slight modifications, it might be possible to achieve something similar to what you're asking.

 **pierrejoye** commented on Apr 18, 2012

@ramsey
btw, pls put a RFC together and send a notification mail to internals once you are ready, referring to this discussion too to avoid to have to discuss everything again from scratch :)

 **cataphract** commented on Apr 18, 2012

@ramsey You could for instance use `null` mean both `All` and to specify a range. This can be sorted out later. For instance, for my examples above:

```
array_part($foo, [null, [2, null]]);  
array_part($foo, [null, 2]);  
array_part($foo, [[1, 3], 2]);
```

 **smalyshev** commented on May 2, 2012

Owner

I think we shouldn't try to boil the ocean here. `array_column` is very useful on its own. If we will need super-method to do everything and make fresh coffee, we could add it later, but that IMHO should not hold adding `array_column`.

php PHP: rfc:array_column

https://wiki.php.net/rfc/array_column

php Login Register Search

start > rfc > array_column

Request for Comments: array_column

Version: 2.4 Date: 2013-01-11 Author: Ben Ramsey ramsey@php.net Status: Implemented in PHP 5.5 First Published at: http://wiki.php.net/rfc/array_column

Introduction

This RFC proposes a new array function that returns the values of the specified column from a multi-dimensional array. Inspired by database methods like `PDOStatement::fetchColumn()`, `array_column()` moves useful functionality into the core that once had to be implemented in userland code with sometimes complex loops.

This has been submitted as a [pull request on GitHub](#), where there has already been a significant amount of discussion.

Specification

Description

```
array array_column(array $input, mixed $columnKey[, mixed $indexKey])
```

– Table of Contents

- Request for Comments: array_column
- Introduction
- Specification
 - Description
 - Parameters
 - Return Values
 - Examples
- Proposal and Patch
- Mailing list discussion
- Voting
- Changelog

Implement new array functi x

GitHub, Inc. [US] https://github.com/php/php-src/pull/56

 **ramsey** commented on Sep 5, 2012

I need to make some changes, based on feedback.

  **ramsey** referenced this pull request from a commit on Nov 9, 2012

 **array_column**: Cleaning up, as recommended in pull request #56 comments 

 **Istrojny** commented on Jan 5, 2013

@**ramsey** could you call a vote on internals on this function?

  **ramsey** referenced this pull request from a commit on Jan 11, 2013

 **array_column**: Cleaning up, as recommended in pull request #56 comments 

  **ramsey** referenced this pull request on Jan 11, 2013

Implement new array function array_column() #257 

 **ramsey** commented on Jan 11, 2013

Closing this pull request. It is superseded by pull request #257.

  **ramsey** closed this on Jan 11, 2013

 **Majkl578** commented on Jan 11, 2013

@**ramsey**: Next time, there is no need for new issue, just rebase your branch and force-push it, history will be updated here automatically.

Implement new array functi x

GitHub, Inc. [US] https://github.com/php/php-src/pull/257

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php / php-src Watch 817 Star 6,152 Fork 2,231

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 on Jan 11, 2013

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>

 ramsey added some commits on Apr 13, 2012

| Commit | Message | SHA |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------|
|  | 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 |
|  | Fixing typo in test for array_column() | 10da6f0 |

Labels: None yet

Milestone: No milestone

Assignee: No one assigned

11 participants: 

Implement new array functi x

GitHub, Inc. [US] https://github.com/php/php-src/pull/257

sc0ttkclark commented on Jan 11, 2013

Ready for this!

ramsey commented on Jan 11, 2013

Thanks to the push from @Istrojny, I've opened up voting for this:
<http://news.php.net/php.internals/64870>

asgrim commented on Jan 12, 2013

I don't think there is need for the alias is there? Surely aliases are just for backwards compatibility?
Apologies if that was already discussed on the other PR, on my phone with slow net. Apart from that, this looks useful! 👍

fittnt commented on Jan 12, 2013

👍

array_column: Removed array_pluck() alias ✖ 3439a09

Istrojny commented on the diff on Jan 19, 2013

ext/standard/array.c View full changes

| ✖ | ((5 lines not shown)) |
|------|--------------------------------------------------------------------------------|
| 2567 | + Return the values from a single column in the input array, identified by the |
| 2568 | + value_key and optionally indexed by the index_key */ |
| 2569 | +PHP_FUNCTION(array_column) |
| 2570 | +{ |
| 2571 | + zval *array, *zcolumn, *key, NULL, **data, **erval, **ival, |

php.internals: [VOTE] array 

news.php.net/php.internals/64870  

 PHP.net news server web interface

From: [Ben Ramsey](#) **Date:** Fri Jan 11 19:17:18 2013

Subject: [VOTE] array_column() function

Groups: [php.internals](#)

I've opened voting for the array_column() function RFC.

You can vote at https://wiki.php.net/rfc/array_column#voting

Regards,
Ben

[**<< previous**](#) **php.internals (#64870)** [**next >**](#)

Written by Jim Winstead. no rights reserved. ([source code](#))

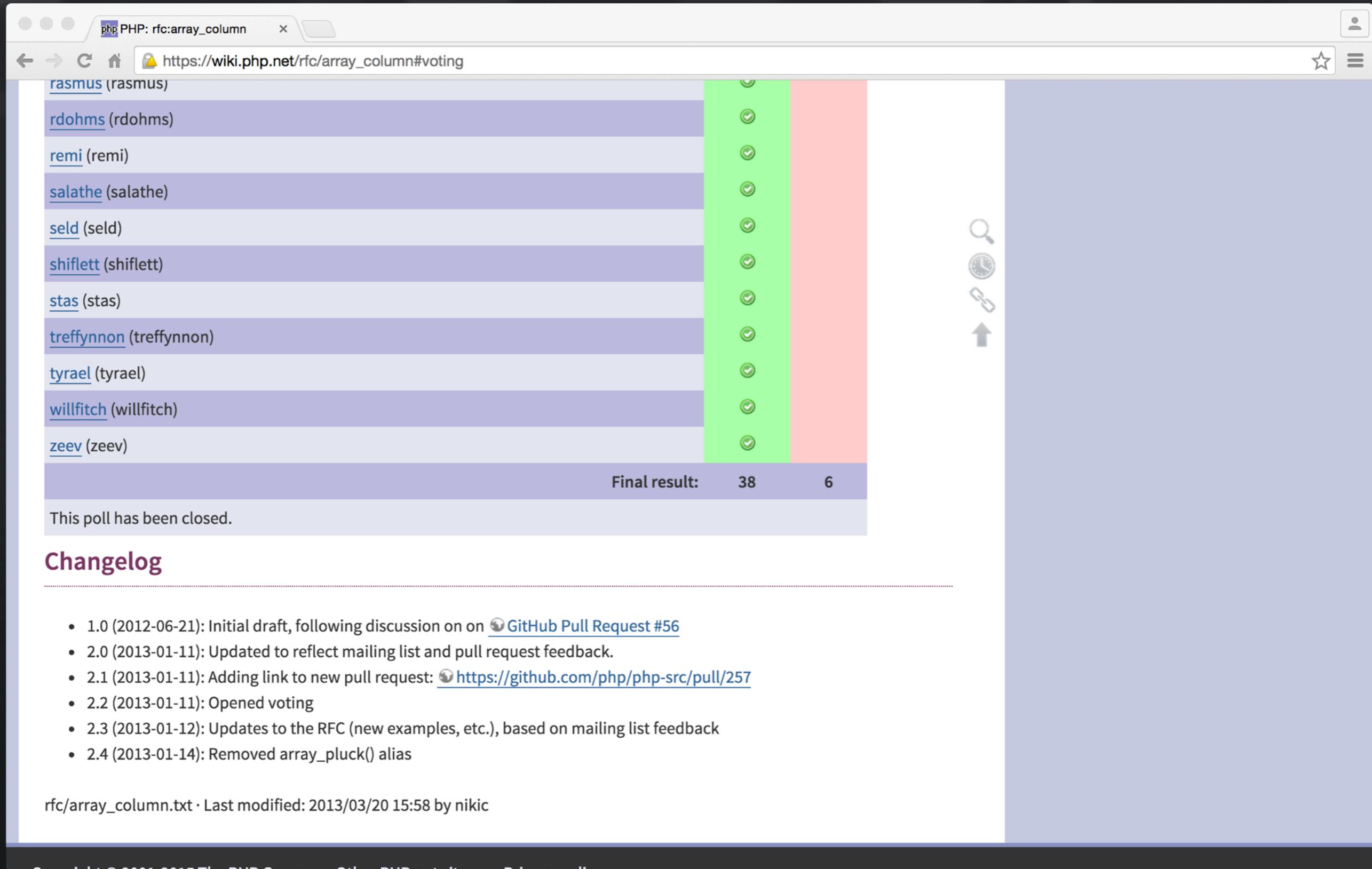
php PHP: rfc:array_column x https://wiki.php.net/rfc/array_column#voting

Voting

Voting ends not before Friday, January 18, 2013. The PHP language is not changed, so a 50% + 1 majority is required.

| Accept array_column() for inclusion in PHP? | | |
|---------------------------------------------------|-----|----|
| Real name | Yes | No |
| ab (ab) | ✓ | |
| aharvey (aharvey) | ✓ | |
| arpad (arpad) | | ✓ |
| ashnazg (ashnazg) | ✓ | |
| blanchonvincent (blanchonvincent) | ✓ | |
| cataphract (cataphract) | ✓ | |
| chx (chx) | ✓ | |
| davey (davey) | ✓ | |
| derick (derick) | ✓ | |
| fa (fa) | ✓ | |
| frozenfire (frozenfire) | ✓ | |
| googleguy (googleguy) | | ✓ |
| guilhermeblanco (guilhermeblanco) | ✓ | |
| gwynne (gwynne) | ✓ | |
| hradtke (hradtke) | ✓ | |
| ifeghali (ifeghali) | ✓ | |
| juliens (juliens) | ✓ | |

Search | Back | Forward | Up



A brief history of internals





changes

RFC Process

wiki.php.net/rfc/howto

Subversion

wiki.php.net/rfc/phpvcs

Release Process

wiki.php.net/rfc/releaseprocess

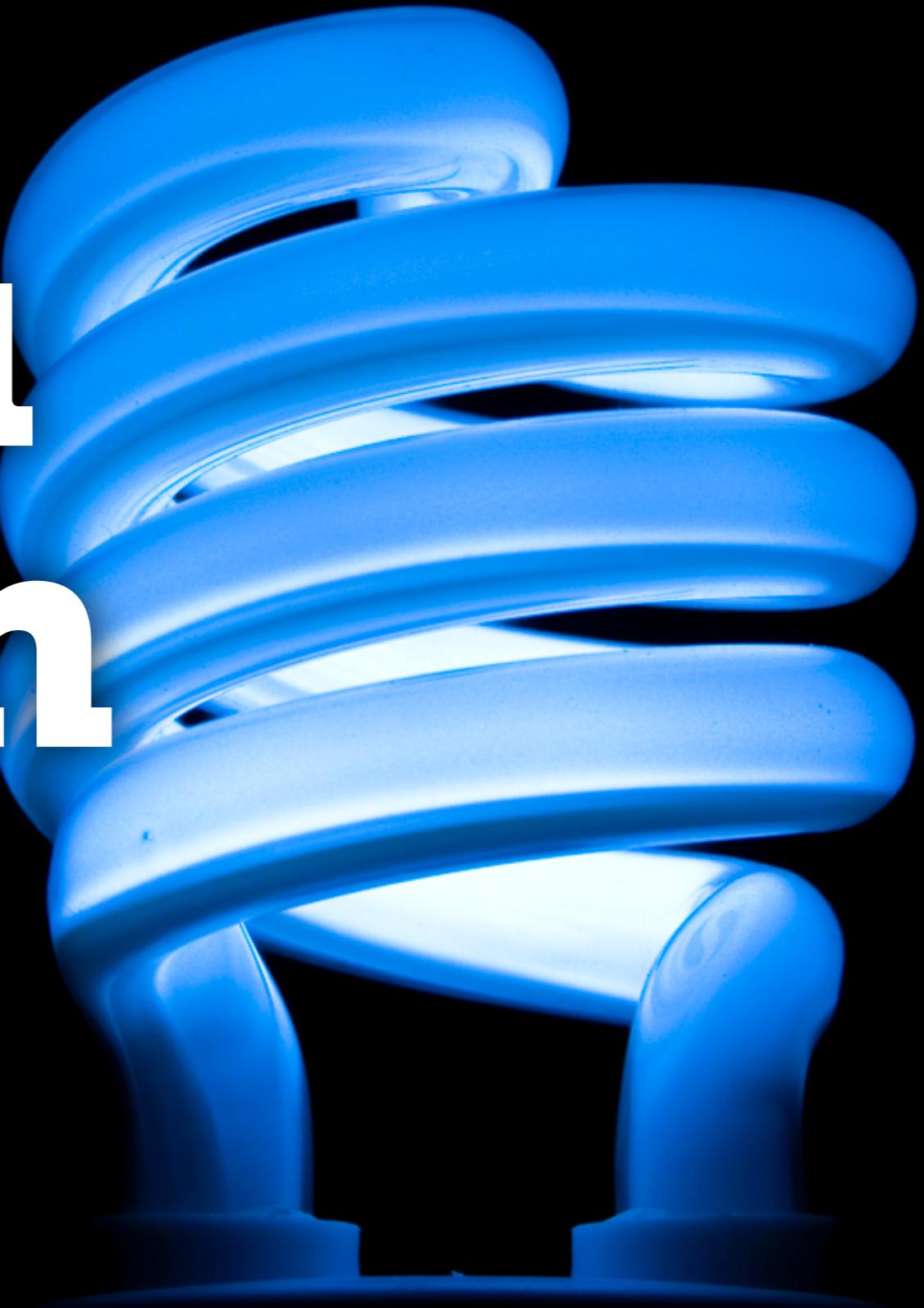
Voting Process

wiki.php.net/rfc/voting

DVCS (Git)

wiki.php.net/rfc/dvcs

**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

php PHP: rfc:my_rfc

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

php Edit this page Admin Logout ramsey (ramsey)

Search

references > 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 TT S H H H H H

===== 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]]:

Save Preview Cancel

Edit summary Minor Changes

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Introduction

Proposal

Backward Incompatible Changes

Proposed PHP Version

Open Issues

Patches and Tests

Implementation

Rejected Features

php PHP: rfc:array_column

https://wiki.php.net/rfc/array_column

php Login Register Search

start > rfc > array_column

Request for Comments: array_column

Version: 2.4 Date: 2013-01-11 Author: Ben Ramsey ramsey@php.net Status: Implemented in PHP 5.5 First Published at: http://wiki.php.net/rfc/array_column

Introduction

This RFC proposes a new array function that returns the values of the specified column from a multi-dimensional array. Inspired by database methods like `PDOStatement::fetchColumn()`, `array_column()` moves useful functionality into the core that once had to be implemented in userland code with sometimes complex loops.

This has been submitted as a [pull request on GitHub](#), where there has already been a significant amount of discussion.

Specification

Description

```
array array_column(array $input, mixed $columnKey[, mixed $indexKey])
```

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- Changelog

Set up your environment

A scenic mountain landscape. In the foreground, there's a rocky area with some green plants and red flowers. Behind that, there are green hills and mountains. The sky is filled with white and grey clouds.

php.net/build-setup.php

ramsey/vagrant-php-src-dev

GitHub, Inc. [US] https://github.com/ramsey/vagrant-php-src-dev

GitHub This repository Search Explore Features Enterprise Blog Sign up Sign in

ramsey / **vagrant-php-src-dev** Watch 3 Star 35 Fork 3

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

15 commits 1 branch 0 releases 2 contributors

branch: master vagrant-php-src-dev / +

Add the correct version of bison for PHP

ramsey authored on Dec 19, 2014 latest commit 357a15a795

puppet Add the correct version of bison for PHP 2 months ago

.gitignore Adding .DS_Store to the ignore list 2 years ago

README.md Create README.md 2 years ago

Vagrantfile Upgrade to Ubuntu 14.04.1 LTS (Trusty Tahr) 2 months ago

README.md

vagrant-php-src-dev

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

<> Code

Issues 0

Pull Requests 0

Pulse

Graphs

HTTPS clone URL
https://github.com/ramsey/vagrant-php-src-dev

You can clone with [HTTPS](#) or [Subversion](#).

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.php
```

Don't forget to set your test executable:

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

lxr.php.net

This is your friend.

It allows you to quickly search for symbols and references within the PHP source.

Search {0 Search

lxr.php.net

{OpenGrok}

Full Search
Definition
Symbol
File Path
History

In Project(s)

OTHER_IMPLEMENT
PECL
PHP_5_2
PHP_5_3
PHP_5_4
PHP_5_5

OpenGrok - a "wicked fast" source browser!

The following trees are available:

- PHP – master branch (github)
- PHP – phpng (github)
- PHP – 5.6 (github)
- PHP – 5.5 (github)
- PHP – 5.4 (github)
- PHP – 5.3 (github)
- PHP – 5.2 (github)
- PHP – abandoned unicode tree (github)
- PECL (trunk/master branch of most extensions)
- Third party libraries (some third party libraries used by PHP)
- Other implementations of the PHP language (e.g. HipHop, Phalanger)

The trees are updated hourly, except PECL, which is updated daily.

Reference: [OpenGrok Help](#), [Lucene Query Parser Syntax](#)

served by {OpenGrok} on 

Indexes created Wed Feb 18 19:18:47 UTC 2015

0 Search

lxr.php.net/search?q=array_column&defs=&refs=&path=&hist=&project=PHP_5_6

{OpenGrok}

Home Sort by: [last modified time](#) | **relevance** | path

Full Search
Definition
Symbol
File Path
History

In Project(s)

PECL
PHP_5_2
PHP_5_3
PHP_5_4
PHP_5_5
PHP_5_6

Searched **full:array_column** (Results 1 - 4 of 4) sorted by relevance

/PHP_5_6/ext/standard/
HAD array.c 2419 * Specialized conversion rules for **array_column()** function
2443 /* {{ proto array **array_column**(array input, mixed column_key[, mixed index_key])
2446 PHP_FUNCTION(**array_column**)
HAD php_array.h 74 PHP_FUNCTION(**array_column**); **variable**
HAD basic_functions.c 3299 PHP_FE(**array_column**, arginfo_array_column)
/PHP_5_6/
HAD NEWS 1839 . Added **array_column** function which returns a column in a multidimensional
1840 array. https://wiki.php.net/rfc/array_column. (Ben Ramsey)

Completed in 52 milliseconds

served by {OpenGrok} on 
Indexes created Wed Feb 18 19:18:47 UTC 2015

lxr.php.net/search?&q=array_column&project=PHP_5_6&sort=lastmodti

0 Cross Reference: /PHP_5_6

lxr.php.net/xref/PHP_5_6/ext/standard/array.c#2443

{OpenGrok}

Cross Reference: array.c

xref: /PHP_5_6/ext/standard/array.c

Home | History | Annotate | Line# | Navigate | Download | Search | only in /PHP_5_6/ext/standard/

```
2443 /* {{{ proto array array_column(array input, mixed column_key[, mixed index_key])
2444  * Return the values from a single column in the input array, identified by the
2445  * value_key and optionally indexed by the index_key */
2446 PHP_FUNCTION(array_column)
2447 {
2448     zval **zcolumn = NULL, **zkey = NULL, **data;
2449     HashTable *arr_hash;
2450     HashPosition pointer;
2451
2452     if (zend_parse_parameters(ZEND_NUM_ARGS() TSRMLS_CC, "hz!|z!", &arr_hash, &zcolumn, &zkey) == FAILURE) {
2453         return;
2454     }
2455
2456     if ((zcolumn && !array_column_param_helper(zcolumn, "column" TSRMLS_CC)) ||
2457         (zkey && !array_column_param_helper(zkey, "index" TSRMLS_CC))) {
2458         RETURN_FALSE;
2459     }
2460
2461     array_init(return_value);
2462     for (zend_hash_internal_pointer_reset_ex(arr_hash, &pointer);
2463          zend_hash_get_current_data_ex(arr_hash, (void**)&data, &pointer) == SUCCESS;
2464          zend_hash_move_forward_ex(arr_hash, &pointer)) {
2465         zval **zcolval, **zkeyval = NULL;
2466         HashTable *ht;
2467
2468         if (Z_TYPE_PP(data) != IS_ARRAY) {
2469             /* Skip elements which are not sub-arrays */
2470             continue;
2471         }
2472         ht = Z_ARRVAL_PP(data);
2473
2474         if (!zcolumn) {
2475             /* NULL column ID means use entire subarray as data */
2476             zcolval = data;
2477
2478             /* Otherwise, skip if the value doesn't exist in our subarray */
2479         } else if ((Z_TYPE_PP(zcolumn) == IS_STRING) &&
2480             (zend_hash_find(ht, Z_STRVAL_PP(zcolumn), Z_STRLEN_PP(zcolumn) + 1, (void**)&zcolval) == FAILURE)) {
2481             continue;
2482         } else if ((Z_TYPE_PP(zcolumn) == IS_LONG) &&
2483             (zend_hash_index_find(ht, Z_LVAL_PP(zcolumn), (void**)&zcolval) == FAILURE)) {
2484             continue;
2485         }
2486     }
2487 }
```

Rasmus's php7dev

php7dev is a Debian 7.8 Vagrant image which is preconfigured for testing PHP apps and developing extensions across many versions of PHP.

Every version of PHP since 5.3 is precompiled and installed in /usr/local/php*.

rlerdorf/php7dev · GitHub

GitHub, Inc. [US] https://github.com/rlerdorf/php7dev

GitHub

This repository Search Explore Features Enterprise Blog Sign up Sign in

rlerdorf / php7dev

Watch 12 Star 90 Fork 8

Documentation for the php7dev Vagrant box image

32 commits 1 branch 0 releases 4 contributors

Merge pull request #3 from Baldrs/patch-1 ...

rlerdorf authored 7 days ago latest commit f0f1186322

| File | Description | Time |
|--------------|--------------------------------------------------------------------------|-------------|
| scripts | ssh keys issue for Windows | 8 days ago |
| .gitignore | Add default Vagrantfile and supporting scripts / configuration files | 19 days ago |
| LICENSE | Initial commit | 20 days ago |
| README.md | Provide workaround info for users of vagrant < 1.5 | 7 days ago |
| Vagrantfile | Get rid of annoying "stdin: is not a tty" error | 17 days ago |
| aliases | Revove alias for serve.sh functionality | 18 days ago |
| newphp | Simplify and support custom builds | 17 days ago |
| php7dev.yaml | Remove functionality for created sites and nginx vhosts. Tweak folder... | 18 days ago |

Code Issues Pull Requests Pulse Graphs

HTTPS clone URL <https://github.com/rlerdorf/php7dev>

You can clone with [HTTPS](#) or [Subversion](#).

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Sending a pull request

Implement new array functi x

GitHub, Inc. [US] https://github.com/php/php-src/pull/257

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php / php-src Watch 817 Star 6,152 Fork 2,231

Implement new array function array_column() #257

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

 ramsey added some commits on Apr 13, 2012

| Commit | Author | Date |
|---------------------------------------------------------------------|--------|--------------|
| Implement new array function array_column() ... | ramsey | Apr 13, 2012 |
| Adding tests for the negative results of array_column() | ramsey | Apr 13, 2012 |
| Adding test for columns not present in all rows for array_column(). | ramsey | Apr 13, 2012 |
| Simplify the code and use zend_hash_next_index_insert() | ramsey | Apr 13, 2012 |
| Fixing typo in test for array_column() | ramsey | Apr 13, 2012 |

Labels: None yet

Milestone: No milestone

Assignee: No one assigned

11 participants: 

But I don't know C

Just how to run this program depends on the system. With these mechanical instructions, however, you can compile it successfully, load it into memory, and run it. The first step is to type in the source code. In this case, the source code is the program "hello, world".

```
1 // hello.c
2
3 #include <stdio.h>
4
5 int main()
6 {
7     printf("hello, world\n");
8 }
```

After you have typed in the source code, save the file as "hello.c". Then you can compile it with the command "cc hello.c". Finally, you can run the program by typing "hello" at the prompt.

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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

Other ways to help

Documentation team

Sysops team

QA team

Answer questions on the PHP general user mailing list: php.net/mailing-lists.php



THANK YOU. ANY QUESTIONS?

If you want to talk more, feel free to contact me.

 joind.in/14256

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 [@ramsey](https://twitter.com/ramsey)

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This presentation was created using Keynote. The text is set in Museo Slab and Helvetica Neue. The source code is set in Ubuntu Mono. The iconography is provided by Font Awesome.

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Contributing to Core
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4



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10



2



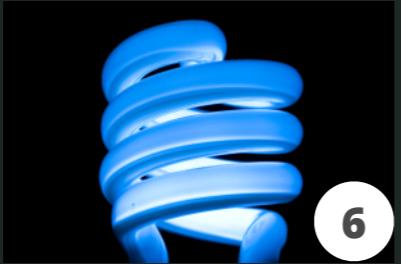
5



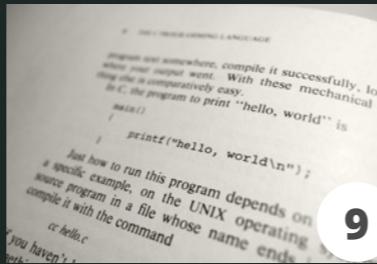
8



3



6



9

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