How to add elements to an empty array in PHP?

Asked 14 years, 1 month ago Modified 1 month ago Viewed 1.4m times



If I define an array in PHP such as (I don't define its size):



Do I simply add elements to it using the following?

```
$cart[] = 13;
$cart[] = "foo";
```

Don't arrays in PHP have an add method, for example, cart.add(13)?

```
php arrays variables
```

\$cart[] = obj;

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edited Apr 14, 2014 at 8:20

Pe Peter Mortensen

Morte 31k 21 106 130

asked Mar 24, 2009 at 9:35



9 Answers

Sorted by:

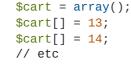
Highest score (default)



Both <u>array push</u> and the method you described will work.

```
1019
```







//Above is correct. but below one is for further understanding
\$cart = arrav();

```
1
```

Is the same as:

```
<?php
$cart = array();
array_push($cart, 13);
array_push($cart, 14);</pre>
```

\$

```
// Or
$cart = array();
array_push($cart, 13, 14);
?>
```

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edited Nov 22, 2018 at 8:58

Yoram de Langen
5,311 3 24 31

answered Mar 24, 2009 at 9:42



As stated in the PHP documentation, if you're only pushing a single element every time (like in a loop) or a single element once, it's best to use the \$cart[] = 13 method not only because it's less characters to do the same operation, but it also doesn't impose the performance overhead of a function call, which array_push() would. Edit: But, great answer. Effectively the same, and majority of uses won't even notice a performance difference, but helps to know those nuances.

— Mattygabe Jan 15, 2011 at 5:10

**

- 87 Is it just me or does the \$cart[]=... syntax, at first glance, look like a variable assignment and not an implicit array_push? Brad Hein Feb 5, 2014 at 16:36
- 11 A It definitely does to me. I wouldn't mind an explanation of why its **not** an assignment.

 limeandcoconut May 20, 2014 at 4:05
- \$cart[] = 13; is faster. has less characters and looks better. Gal Bracha Jul 28, 2014 at 6:54
- 1'll just offer my alternative viewpoint that it's VERY confusing for other language programmers to read the syntax of cart[] =..., I've got experience with a lot of languages and I'd never guess that's what it does. Erti-Chris Eelmaa Oct 13, 2016 at 18:02



It's better to not use <u>array push</u> and just use what you suggested. The functions just add overhead.

105



//We don't need to define the array, but in many cases it's the best solution.
\$cart = array();

//Automatic new integer key higher than the highest
//existing integer key in the array, starts at 0.

\$cart[] = 13; \$cart[] = 'text';

//Numeric key
\$cart[4] = \$object;

//Text key (assoc)
\$cart['key'] = 'test';

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edited Jul 31, 2015 at 7:16

kamal pal

4,157 5 25 40

answered Mar 24, 2009 at 9:47



"If you're adding multiple values to an array in a loop, it's faster to use array_push than repeated [] = statements" php.net/manual/en/function.array-push.php#84959 - Ollie Glass Dec 18, 2010 at 17:15

Absolutely correct if your use-case is adding a single item or items one at a time. If all values are known at the same time, it's probably best just to use the array_push notation depending on how many items must be added the extra characters from re-typing the array name each time may be more of a performance hindrance than the function call over-head. As always, judgment should be exercised when choosing. Good answers! – Mattygabe Jan 15, 2011 at 5:13

2 his answer is the most complete. - Lokiare May 24, 2018 at 16:19

1) array_push() has a *return value*, whereas the others do not. Perhaps this is the/one reason for its overhead? It seems to be a consensus to use the other methods, unless you need that return value. 2) *If you need elements to be added to the end of the array*, use either array_push() or += method of concatenation (not shown in this answer), or \$cart[] = 13 methods. Using the named/numeric key method (\$cart[4] = \$object and \$cart['key'] = 'test'` methods do not *guarantee* the element will be added to the *end* of the array, only that it will be *in* the array.

— SherylHohman Jun 30, 2020 at 23:40

5.10.j.. 10.11.10.11.00.11.00, 2020 dt 20.10 p

@SherylHohman: This \$cart[] = will add values to the end of the array. – OIS Sep 11, 2020 at 5:48



Based on my experience, solution which is fine(the best) when keys are not important:

\$cart = []; \$cart[] = 13; \$cart[] = "foo"; \$cart[] = obj;

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edited Nov 5, 2020 at 14:09

answered Oct 14, 2015 at 13:15

fico7489 fico74 **7,815** 7 54 89

You can use <u>array push</u>. It adds the elements to the end of the array, like in a stack.

11 You could have also done it like this:

\$cart = array(13, "foo", \$obj);

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edited Mar 24, 2009 at 10:03

answered Mar 24, 2009 at 9:37



```
$cart = array();
$cart[] = 11;
$cart[] = 15;

// etc

//Above is correct. but below one is for further understanding
$cart = array();
```

```
How to add elements to an empty array in PHP? - Stack Overflow
        for(\$i = 0; \$i \le 5; \$i++){}
                   $cart[] = $i;
        //if you write $cart = [$i]; you will only take last $i value as first element
        in array.
        }
        echo "";
        print_r($cart);
        echo "";
      Share Edit Follow Flag
                                                                         answered Oct 23, 2019 at 1:59
                                                                            🔧 unpluggeDloop
                                                                               109 1 5
         $cart[] = $i; - that part of code add elements to array ----> $cart = [$i]; - this will pass compiler but
         you will not get what you want – unpluggeDloop Oct 28, 2019 at 12:08 🖍
      REMEMBER, this method overwrites first array, so use only when you are sure!
4
        $arr1 = $arr1 + $arr2;
      (see source)
1
      Share Edit Follow Flag
                                          edited May 23, 2017 at 11:47
                                                                         answered May 3, 2015 at 17:05
```

```
Community Bot
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1 — Why the downvote, can someone explain why this is bad? is it insecure? – Sandy Jan 18, 2017 at
  14:14
```

```
$products_arr["passenger_details"]=array();
       array_push($products_arr["passenger_details"],array("Name"=>"Isuru Eshan","E-
       Mail"=>"isuru.eshan@gmail.com"));
2
       echo "";
       echo json_encode($products_arr, JSON_PRETTY_PRINT);
       echo "";
       //0R
       $countries = array();
       $countries["DK"] = array("code"=>"DK", "name"=>"Denmark", "d_code"=>"+45");
       $countries["DJ"] = array("code"=>"DJ", "name"=>"Djibouti", "d_code"=>"+253");
       $countries["DM"] = array("code"=>"DM", "name"=>"Dominica", "d_code"=>"+1");
       foreach ($countries as $country){
       echo "";
       echo print_r($country);
       echo "";
       }
```

6 — @SandyBeach it's not an answer – mateos Mar 25, 2017 at 6:39

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edited Nov 22, 2018 at 6:42

answered Nov 22, 2018 at 6:37





If you are trying to append to an associative array



```
//append to array
$countries["continent"] = "Europe";
```





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Sammy **39** 6



When one wants elements to be added with zero-based element indexing, I guess this will work as well:

-1



```
// adding elements to an array with zero-based index
$matrix= array();
$matrix[count($matrix)]= 'element 1';
$matrix[count($matrix)]= 'element 2';
$matrix[count($matrix)]= 'element N';
```

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answered Jun 23, 2014 at 9:19

