**CONSTRANTS**

Constants are like variables except that once they are defined they cannot be changed or undefined.

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| --- | --- |
| PHP's magic constants | |
| Name | Description |
| \_\_LINE\_\_ | The current line number of the file. |
| \_\_FILE\_\_ | The full path and filename of the file . |
| \_\_DIR\_\_ | The directory of the file. If used inside an include, the directory of the included file is returned. |
| \_\_FUNCTION\_\_ | The function name. |
| \_\_CLASS\_\_ | The class name. |
| \_\_METHOD\_\_ | The class method name. |
| \_\_NAMESPACE\_\_ | The name of the current namespace. |

**Code:**

<?php

echo \_\_LINE\_\_;

?>

**Math’s Functions**

1. Minimum

The min() function returns the lowest value in an array, or the lowest value of several specified values.

<?php  
echo(min(2,4,6,8,10) . "<br>");  
echo(min(22,14,68,18,15) . "<br>");  
echo(min(array(4,6,8,10)) . "<br>");  
echo(min(array(44,16,81,12)));  
?>

1. Maximum

The max() function returns the highest value in an array, or the highest value of several specified values.

<?php  
echo(max(2,4,6,8,10) . "<br>");  
echo(max(22,14,68,18,15) . "<br>");  
echo(max(array(4,6,8,10)) . "<br>");  
echo(max(array(44,16,81,12)));  
?>

1. SquareRoot

<?php  
echo(sqrt(0) . "<br>");  
echo(sqrt(1) . "<br>");  
echo(sqrt(9) . "<br>");  
echo(sqrt(0.64) . "<br>");  
echo(sqrt(-9));  
?>

1. Random Number

<?php  
echo(rand() . "<br>");  
echo(rand() . "<br>");  
echo(rand(10,100));  
?>

**PHP Typecasting for Different Datatype**

<?php

$count = 5;

$count = (string) $count;

$count = (float) $count;

$count = (boolean) $count;

$count = (array) $count;

$count = (object) $count;

?>

**Regular Expression Functions**

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| Function | Description |
| preg\_match() | Returns 1 if the pattern was found in the string and 0 if not |
| preg\_match\_all () | Returns the number of times the pattern was found in the string, which may also be 0 |
| preg\_replace() | Returns a new string where matched patterns have been replaced with another string |

1. The preg\_match() function will tell you whether a string contains matches of a pattern.

<?php  
$str = "demo";  
$pattern = “Pattern khud bnana hai 😊 “;  
echo preg\_match($pattern, $str); ?>

1. The preg\_match\_all() function will tell you how many matches were found for a pattern in a string.

<?php  
$str = "The rain in SPAIN falls mainly on the plains.";  
$pattern = " Pattern khud bnana hai 😊 ";  
echo preg\_match\_all($pattern, $str); // Outputs 4  
?>

1. The preg\_match\_all() function will tell you how many matches were found for a pattern in a string.

<?php  
$str = "The rain in SPAIN falls mainly on the plains.";  
$pattern =” Pattern khud bnana hai 😊 ";  
echo preg\_match\_all($pattern, $str); // Outputs 4  
?>

1. The preg\_replace() function will replace all of the matches of the pattern in a string with another string.

<?php  
$str = "Visit Microsoft!";  
$pattern =” Pattern khud bnana hai 😊 ";  
echo preg\_replace($pattern, "demo", $str); ?>

**Array Functions**

Syntax to create PHP indexed arrays:

$a = array(value1, value2, value3, ...)

Syntax to create PHP associative arrays:

$a = array(key1 => value1, key2 => value2...)

|  |  |
| --- | --- |
| Function | Description |
| array() | Creates an array |
| array\_change\_key\_case() | Changes all keys in an array to lowercase or uppercase |
| [array\_chunk()](https://www.w3schools.com/php/func_array_chunk.asp) | Splits an array into chunks of arrays |
| [array\_column()](https://www.w3schools.com/php/func_array_column.asp) | Returns the values from a single column in the input array |
| [array\_combine()](https://www.w3schools.com/php/func_array_combine.asp) | Creates an array by using the elements from one "keys" array and one "values" array |
| [array\_count\_values()](https://www.w3schools.com/php/func_array_count_values.asp) | Counts all the values of an array |
| [array\_diff()](https://www.w3schools.com/php/func_array_diff.asp) | Compare arrays, and returns the differences (compare values only) |
| [array\_diff\_assoc()](https://www.w3schools.com/php/func_array_diff_assoc.asp) | Compare arrays, and returns the differences (compare keys and values) |
| [array\_diff\_key()](https://www.w3schools.com/php/func_array_diff_key.asp) | Compare arrays, and returns the differences (compare keys only) |
| [array\_diff\_uassoc()](https://www.w3schools.com/php/func_array_diff_uassoc.asp) | Compare arrays, and returns the differences (compare keys and values, using a user-defined key comparison function) |
| [array\_diff\_ukey()](https://www.w3schools.com/php/func_array_diff_ukey.asp) | Compare arrays, and returns the differences (compare keys only, using a user-defined key comparison function) |
| [array\_fill()](https://www.w3schools.com/php/func_array_fill.asp) | Fills an array with values |
| [array\_fill\_keys()](https://www.w3schools.com/php/func_array_fill_keys.asp) | Fills an array with values, specifying keys |
| [array\_filter()](https://www.w3schools.com/php/func_array_filter.asp) | Filters the values of an array using a callback function |
| [array\_flip()](https://www.w3schools.com/php/func_array_flip.asp) | Flips/Exchanges all keys with their associated values in an array |
| [array\_intersect()](https://www.w3schools.com/php/func_array_intersect.asp) | Compare arrays, and returns the matches (compare values only) |
| [array\_intersect\_assoc()](https://www.w3schools.com/php/func_array_intersect_assoc.asp) | Compare arrays and returns the matches (compare keys and values) |
| [array\_intersect\_key()](https://www.w3schools.com/php/func_array_intersect_key.asp) | Compare arrays, and returns the matches (compare keys only) |
| [array\_intersect\_uassoc()](https://www.w3schools.com/php/func_array_intersect_uassoc.asp) | Compare arrays, and returns the matches (compare keys and values, using a user-defined key comparison function) |
| [array\_intersect\_ukey()](https://www.w3schools.com/php/func_array_intersect_ukey.asp) | Compare arrays, and returns the matches (compare keys only, using a user-defined key comparison function) |
| [array\_key\_exists()](https://www.w3schools.com/php/func_array_key_exists.asp) | Checks if the specified key exists in the array |
| [array\_keys()](https://www.w3schools.com/php/func_array_keys.asp) | Returns all the keys of an array |
| [array\_map()](https://www.w3schools.com/php/func_array_map.asp) | Sends each value of an array to a user-made function, which returns new values |
| [array\_merge()](https://www.w3schools.com/php/func_array_merge.asp) | Merges one or more arrays into one array |
| [array\_merge\_recursive()](https://www.w3schools.com/php/func_array_merge_recursive.asp) | Merges one or more arrays into one array recursively |
| [array\_multisort()](https://www.w3schools.com/php/func_array_multisort.asp) | Sorts multiple or multi-dimensional arrays |
| [array\_pad()](https://www.w3schools.com/php/func_array_pad.asp) | Inserts a specified number of items, with a specified value, to an array |
| [array\_pop()](https://www.w3schools.com/php/func_array_pop.asp) | Deletes the last element of an array |
| [array\_product()](https://www.w3schools.com/php/func_array_product.asp) | Calculates the product of the values in an array |
| [array\_push()](https://www.w3schools.com/php/func_array_push.asp) | Inserts one or more elements to the end of an array |
| [array\_rand()](https://www.w3schools.com/php/func_array_rand.asp) | Returns one or more random keys from an array |
| [array\_reduce()](https://www.w3schools.com/php/func_array_reduce.asp) | Returns an array as a string, using a user-defined function |
| [array\_replace()](https://www.w3schools.com/php/func_array_replace.asp) | Replaces the values of the first array with the values from following arrays |
| [array\_replace\_recursive()](https://www.w3schools.com/php/func_array_replace_recursive.asp) | Replaces the values of the first array with the values from following arrays recursively |
| [array\_reverse()](https://www.w3schools.com/php/func_array_reverse.asp) | Returns an array in the reverse order |
| [array\_search()](https://www.w3schools.com/php/func_array_search.asp) | Searches an array for a given value and returns the key |
| [array\_shift()](https://www.w3schools.com/php/func_array_shift.asp) | Removes the first element from an array, and returns the value of the removed element |
| [array\_slice()](https://www.w3schools.com/php/func_array_slice.asp) | Returns selected parts of an array |
| [array\_splice()](https://www.w3schools.com/php/func_array_splice.asp) | Removes and replaces specified elements of an array |
| [array\_sum()](https://www.w3schools.com/php/func_array_sum.asp) | Returns the sum of the values in an array |