

Difficulty Level : Basic • Last Updated : 15 Mar, 2022

PHP magic methods are special methods that are called automatically when certain conditions are met. There are several magic methods in PHP. Every magic method follows certain rules –

- Every magic method starts with a double underscore ( \_\_\_).
- They are predefined and neither can be created nor removed.
- Magic methods have reserved names and their name should not be used for other purposes.
- Magic methods are automatically called when certain criteria are met.

Method Names	Return types	Condition of calling
construct()	NaN	This method gets called automatically every time the object of a particular class is created.
		The function of this magic method is the same as the constructor in any OOP language.
destruct()	NaN	As the name suggests this method is called when the object is destroyed and no longer in use.

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toString	<b>j()</b>	St	ring	This method is called when we need to convert the object into a string.
				For example: echo \$obj;



		The \$obj->toString(); will be called magically.
get(\$name)	NaN	This method is called when an inaccessible variable or non-existing variable is used.
set(\$name , \$value)	NaN	This method is called when an inaccessible variable or non-existing variable is written.
debugInfo()	array	This magic method is executed when an object is used inside var_dump() for debugging purposes.

The following are code snippets and examples to understand magic methods better.

construct() Method: In the below example the ManicMethod class has a manic

```
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class MagicMethod {
    function __construct() {
        echo "This is the construct magic method";
    }
}

// Creating object of Magic method class

$obj = new MagicMethod();

?>
```

### Output

This is the construct magic method

**\_\_destruct() Method:** In the below example, the MagicMethod class has a magic method **\_\_destruct()** that gets called automatically when the object of MagicMethod destroys.

### **PHP**

### Output

```
This doctrust magic mathed gate called
```

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- **\$name:** This contains the name of the method which was called.
- **\$parameters:** This is an array of parameters that were given to that method.

### **PHP**

```
class MagicMethod {
    function __call($name , $parameters) {
        echo "Name of method =>" . $name."\n";
        echo "Parameters provided\n";
        print_r($parameters);
    }
}

// Instantiating MagicMethod
$obj = new MagicMethod();

$obj->hello("Magic" , "Method");
?>
```

### Output

```
Name of method =>hello
Parameters provided
Array
(
     [0] => Magic
     [1] => Method
)
```

**\_\_toString() Method:** This method gets called when an object is treated as a string. This method is also useful to represent an object as a String.

```
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$obj = new MagicMethod();
echo $obj;
?>
```

### Output

You are using MagicMethod object as a String

**\_\_get(\$name) Method:** This method gets called when an inaccessible (private or protected ) variable or non-existing variables are used.

### **PHP**

```
<?php

class MagicMethod {
    function __get($name) {
        echo "You are trying to get '" . $name .
        "' which is either inaccessible
        or non existing member";
    }
}

$obj = new MagicMethod();
$obj->value;
?>
```

### Output

You are trying to get 'value' which is either inaccessible or non existing member

\_\_set(\$name, \$value) Method: This method is called when an inaccessible variable

```
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   runction set(\phiname , \partial value) {
         echo "You are trying to modify '"
           . $name . "' with '" . $value .
           JavaScript jQuery PHP
                                                       ReactJS AngularJS
HTML CSS
                                     Bootstrap NodeJS
                                                                          Express]:
$obj = new MagicMethod();
$obj->value = "Hello";
?>
```

#### Output

```
You are trying to modify 'value' with 'Hello' which is either inaccessible or non-existing member
```

\_\_debugInfo() Method: This method is used when the <u>var\_dump()</u> function is called with object as a parameter. This method should return an array containing all the variables which may be useful in debugging.

#### **PHP**

```
<?php

class MagicMethod {
    function __debugInfo() {
        return array("variable"=> "value");
    }
}

$obj = new MagicMethod();
var_dump($obj);

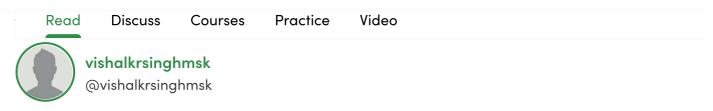
?>
```

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