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☰   ⌂   HTML   CSS   ◑   🌐   🔍

PHP OOP - Static Methods

❮ Previous   Next ❯

PHP - Static Methods

Static methods can be called directly - without creating an instance of the class first.

Static methods are declared with the `static` keyword:

Syntax

```php
<?php
class ClassName {
  public static function staticMethod() {
    echo "Hello World!";
  }
}
?>
```

To access a static method use the class name, double colon (::), and the method name:

Syntax

```php
ClassName::staticMethod();
```

Let's look at an example:

Example

```php
<?php
class greeting {
  public static function welcome() {
    echo "Hello World!";
  }
}

// Call static method
greeting::welcome();
?>
```

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Example Explained

Here, we declare a static method: welcome(). Then, we call the static method by using the class name, double colon (::), and the method name (without creating an instance of the class first).

PHP - More on Static Methods

A class can have both static and non-static methods. A static method can be accessed from a method in the same class using the `self` keyword and double colon (::):

Example

```php
<?php
class greeting {
  public static function welcome() {
    echo "Hello World!";
  }

  public function __construct() {
```

```php
      self::welcome();
  }
}

new greeting();
?>
```

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Static methods can also be called from methods in other classes. To do this, the static method should be `public`:

Example

```php
<?php
class greeting {
  public static function welcome() {
    echo "Hello World!";
  }
}

class SomeOtherClass {
  public function message() {
    greeting::welcome();
  }
}
?>
```

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To call a static method from a child class, use the `parent` keyword inside the child class. Here, the static method can be `public` or `protected`.

Example

```php
<?php
class domain {
  protected static function getWebsiteName() {
    return "W3Schools.com";
```

```php
    }
  }

class domainW3 extends domain {
  public $websiteName;
  public function __construct() {
    $this->websiteName = parent::getWebsiteName();
  }
}

$domainW3 = new domainW3;
echo $domainW3 -> websiteName;
?>
```

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❮ Previous

Next ❯

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