

# PHP CLASSES AND OBJECTS

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### CLASS DEFINITION

```
class Automobile {
     /* class body */
```

- Class names cannot be reserved word (part of the language)
- Cannot start with numbers

# CLASS 'NEW'

To create an instance, new must be used.

## CLASS \$THIS

```
$this->firstName;
$this->displayName();
```

Use \$this-> within an object

### CLASS CONSTRUCTOR

For initialization before use.

### CLASS CONSTRUCTOR

```
<?php
                                 Default function argument
class Person {
                                 values
 private $firstname;
 private $middleName;
 private $lastname;
    constructor($first = " ", $middle = " ", $last = " ") {
      $this->$firstname = $first;
      $this->$middleName = $middle;
      $this->$lastname = $last;
```

# CLASS PARENT CONSTRUCTOR

```
<?php
class BaseClass {
    function __construct() {
        print "In BaseClass constructor\n";
class SubClass extends BaseClass {
    function __construct() {
        parent::__construct();
        print "In SubClass constructor\n";
```



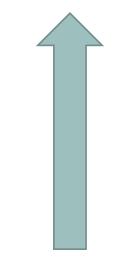
var or

private

public

protected





class & subclasses

Seen anywhere

## CLASS VISIBILITY

# private \$socialNumber = null;

private properties can not be accessed (seen or used) in subclasses

## CLASS VISIBILITY

# private \$socialNumber = null;

Create **protected methods** in the parent class allow subclasses to touch private attributes.

# CLASS SCOPE RESOLUTION OPERATOR

```
<?php
class MyClass {
    const CONST VALUE = 'A constant value';
echo MyClass::CONST VALUE;
?>
```

## CLASS FINAL

```
<?php
class BaseClass {
   public function test() {
       echo "BaseClass::test() called\n";
   final public function moreTesting() {
       echo "BaseClass::moreTesting() called\n";
class ChildClass extends BaseClass {
   public function moreTesting() {
       echo "ChildClass::moreTesting() called\n";
// Results in Fatal error: Cannot override final method BaseClass::moreTesting()
?>
```

#### CLASS STATIC FUNCTION

```
<?php
class Foo {
    public static function aStaticMethod() {
        // ...
Foo::aStaticMethod();
$classname = 'Foo';
$classname::aStaticMethod(); // As of PHP 5.3.0
?>
```

#### CLASS STATIC ATTRIBUTE

```
<?php
class Foo
    public static $my_static = 'foo';
    public function staticValue() {
        return self::$my_static;
class Bar extends Foo
    public function fooStatic() {
        return parent::$my_static;
?>
```

## CLASS OVERRIDING

```
class SomeOtherClass extends SomeClass{
  function scream($count = 1) {
    for ($i = 0; $i < $count; $i++) {
       echo 'Whoohoo!<br>';
    }
  }
}
```

```
class SomeClass {
  function scream($count = 1) {
    for ($i = 0; $i < $count; $i++) {
      echo 'Eek!<br>';
    }
}
```