P - Classes and Objects

Next ›

ate for objects, and an object is an instance of class.

ave a class named Fruit. A Fruit can have properties like name, We can define variables like $name, $color, and $weight to hold the perties.

al objects (apple, banana, etc.) are created, they inherit all the properties and behaviors from the class, but each object will have different values for the properties.

Define a Class

A class is defined by using the `class` keyword, followed by the name of the class and a pair of curly braces ({}). All its properties and methods goes inside the braces:

Syntax

```
<?php
class Fruit {
  // code goes here...
```

Below we declare a class named Fruit consisting of two properties ($name and $color) and two methods set_name() and get_name() for setting and getting the $name property:

Example

```
<?php
class Fruit {
  // Properties
  public $name;
  public $color;

  // Methods
  function set_name($name) {
    $this->name = $name;
  }
  function get_name() {
    return $this->name;
  }
}
?>
```

Try it Yourself »

Note: In a class, variables are called properties and functions are called methods!

Define Objects

have different property values.

Objects of a class is created using the `new` keyword.

In the example below, $apple and $banana are instances of the class Fruit:

Example

```
<?php
class Fruit {
  // Properties
  public $name;
  public $color;

  // Methods
  function set_name($name) {
    $this->name = $name;
  }
  function get_name() {
    return $this->name;
  }
}

$apple = new Fruit();
$banana = new Fruit();
$apple->set_name('Apple');
$banana->set_name('Banana');

echo $apple->get_name();
echo "<br>";
echo $banana->get_name();
?>
```

Try it Yourself »

In the example below, we add two more methods to class Fruit, for setting and getting the $color property:

Example

```
class Fruit {
  // Properties
  public $name;
  public $color;

  // Methods
  function set_name($name) {
    $this->name = $name;
  }
  function get_name() {
    return $this->name;
  }
  function set_color($color) {
    $this->color = $color;
  }
  function get_color() {
    return $this->color;
  }
}

$apple = new Fruit();
$apple->set_name('Apple');
$apple->set_color('Red');
echo "Name: " . $apple->get_name();
echo "<br>";
echo "Color: " . $apple->get_color();
?>
```

Try it Yourself »

PHP - The $this Keyword

The $this keyword refers to the current object, and is only available inside methods.

Look at the following example:

Example

```
<?php
class Fruit {
```

```
$apple = new Fruit();
?>
```

So, where can we change the value of the $name property? There are two ways:

1. Inside the class (by adding a set_name() method and use $this):

Example

```
<?php
class Fruit {
  public $name;
  function set_name($name) {
    $this->name = $name;
  }
}
$apple = new Fruit();
$apple->set_name("Apple");
?>
```

Try it Yourself »

2. Outside the class (by directly change the property value):

Example

```
<?php
class Fruit {
  public $name;
}
$apple = new Fruit();
$apple->name = "Apple";
?>
```

Try it Yourself »

You can use the `instanceof` keyword to check if an object belongs to a specific class:

Example

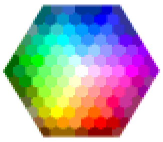
```
<?php
$apple = new Fruit();
var_dump($apple instanceof Fruit);
?>
```

Try it Yourself »

❮ Previous

Next ❯

COLOR PICKER



HOW TO

Tabs
Dropdowns
Accordions
Side Navigation
Top Navigation
Modal Boxes
Progress Bars
Parallax

Google Maps
Range Sliders
Tooltips
Slideshow
Filter List
Sort List

SHARE

👍

CERTIFICATES

HTML
CSS
JavaScript
SQL
Python
PHP
jQuery
Bootstrap
XML

Read More »

REPORT ERROR

PRINT PAGE

FORUM

ABOUT

Top Tutorials

HTML Tutorial
CSS Tutorial
JavaScript Tutorial
How To Tutorial
SQL Tutorial
Python Tutorial
W3.CSS Tutorial
Bootstrap Tutorial
PHP Tutorial
jQuery Tutorial
Java Tutorial
C++ Tutorial

Top References

HTML Reference
CSS Reference
JavaScript Reference
SQL Reference
Python Reference
W3.CSS Reference
Bootstrap Reference
PHP Reference
HTML Colors
jQuery Reference
Java Reference
Angular Reference

HTML Examples
CSS Examples
JavaScript Examples
How To Examples
SQL Examples
Python Examples
W3.CSS Examples
Bootstrap Examples
PHP Examples
jQuery Examples
Java Examples
XML Examples

Web Certificates

HTML Certificate
CSS Certificate
JavaScript Certificate
SQL Certificate
Python Certificate
jQuery Certificate
PHP Certificate
Bootstrap Certificate
XML Certificate

Get Certified »