

# PHP OOP - Access Modifiers

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### PHP - Access Modifiers

Properties and methods can have access modifiers which control where they can be accessed.

There are three access modifiers:

- public the property or method can be accessed from everywhere. This is default
- protected the property or method can be accessed within the class and by classes derived from that class
- private the property or method can ONLY be accessed within the class

In the following example we have added three different access modifiers to three properties (name, color, and weight). Here, if you try to set the name property it will work fine (because the name property is public, and can be accessed from everywhere). However, if you try to set the color or weight property it will result in a fatal error (because the color and weight property are protected and private):

## Example

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```
<?php
class Fruit {
 public $name;
 protected $color;
  private $weight;
$mango = new Fruit();
$mango->name = 'Mango'; // OK
```



In the next example we have added access modifiers to two functions. Here, if you try to call the set\_color() or the set\_weight() function it will result in a fatal error (because the two functions are considered protected and private), even if all the properties are public:

### Example

```
<?php
class Fruit {
 public $name;
 public $color;
 public $weight;
 function set name($n) { // a public function (default)
    $this->name = $n;
 }
 protected function set_color($n) { // a protected function
   $this->color = $n;
 private function set_weight($n) { // a private function
   $this->weight = $n;
 }
}
$mango = new Fruit();
$mango->set_name('Mango'); // OK
$mango->set_color('Yellow'); // ERROR
$mango->set_weight('300'); // ERROR
?>
```

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