

One final note before you look at the code changes. PHP provides several operations to compare two values. The following table provides a summary of these operators, including the new PHP 7 Spaceship Operator.

Operation	Result - returns TRUE if...
<code>\$a == \$b</code>	<code>\$a</code> and <code>\$b</code> are equal ignoring cases
<code>\$a === \$b</code>	<code>\$a</code> and <code>\$b</code> equal if case is the same
<code>\$a != \$b</code> , <code>\$a <> \$b</code>	<code>\$a</code> and <code>\$b</code> are not equal ignoring cases
<code>\$a !== \$b</code>	<code>\$a</code> and <code>\$b</code> are not equal or not same case
<code>\$a < \$b</code>	<code>\$a</code> is less than <code>\$b</code>
<code>\$a <= \$b</code>	<code>\$a</code> is less than or equal to <code>\$b</code>
<code>\$a > \$b</code>	<code>\$a</code> is greater than <code>\$b</code>
<code>\$a >= \$b</code>	<code>\$a</code> is greater than or equal to <code>\$b</code>

(Available with PHP 7) `$a <=> $b` returns -1 if `$a < b`, returns 0 if `$a` equals `$b`
 returns 1 if `$a > $b`

In addition, the Null Coalesce Operator can be used to check if a value is 'set' (contains something) before it is used in a ternary operation.

```
$dog_name = $_POST['value'] ?? 'No Name';
```

In this example, if something exists in value, it is placed in `$dog_name`. If value is not set, No Name is placed in `$dog_name`. This operator is available in PHP 7. To allow for backward capability, the examples in this book will not demonstrate this operator.

Let's update the Dog class to include all the set methods needed.

```
<?php
class Dog
{
// ----- Properties -----
private $dog_weight = 0;
private $dog_breed = "no breed";
private $dog_color = "no color";
private $dog_name = "no name";

}
```

Example 3-9. Dog class with set methods in dog.php

```
// ----- Set Methods -----
function set_dog_name($value)
{
$error_message = TRUE;
 ctype_alpha($value) && strlen($value) <= 20 ? $this->dog_name = $value : $error_message = FALSE;
return $error_message;
}
function set_dog_weight($value)
{
$error_message = TRUE;
 ctype_digit($value) && ($value > 0 && $value <= 120) ? $this->dog_weight = $value :
$error_message = FALSE;
return $error_message;
}
```