Booleans

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The `bool` type only has two values, and is used to express a truth value. It can be either ENTITY or ENTITY.

Syntax

To specify a `bool` literal, use the constants ENTITY or ENTITY. Both are case-insensitive.

```
<?php

$foo = True; // assign the value TRUE to $foo

var_dump($foo); // bool(true)
?>
```

Typically, the result of an operator which returns a `bool` value is passed on to a control structure.

```
<?php

$action = "show_version";
$show_separators = true;

// == is an operator which tests
// equality and returns a boolean
if ($action == "show_version") {
    echo "The version is 1.23";
```

```
}

// this is not necessary...
if ($show_separators == TRUE) {
    echo "<hr>\n";
}

// ...because this can be used with exactly the same meaning:
if ($show_separators) {
    echo "<hr>\n";
}
?>
```

Converting to boolean

To explicitly convert a value to `bool`, use the `(bool)` cast. Generally this is not necessary because when a value is used in a logical context it will be automatically interpreted as a value of type `bool`. For more information see the Type Juggling page.

When converting to `bool`, the following values are considered ENTITY:

- the boolean ENTITY itself
- the integer `0` (zero)
- the floats `0.0` and `-0.0` (zero)
- the empty string `""`, and the string `"0"`
- an array with zero elements
- the unit type NULL (including unset variables)
- Internal objects that overload their casting behaviour to bool. For example, `GMP` objects representing the value `0`.

Every other value is considered ENTITY (including resource and `NAN`).

> `-1` is considered ENTITY, like any other non-zero (whether negative or positive) number!

Casting to Boolean

```php
<?php
var_dump((bool) "");        // bool(false)
var_dump((bool) "0");       // bool(false)
var_dump((bool) 1);         // bool(true)
var_dump((bool) -2);        // bool(true)
var_dump((bool) "foo");     // bool(true)
var_dump((bool) 2.3e5);     // bool(true)
var_dump((bool) array(12)); // bool(true)
var_dump((bool) array());   // bool(false)
var_dump((bool) "false");   // bool(true)
?>
```

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