

PHP If Statements

```
if (TRUE){  
    echo "TRUE is always true";  
}  
  
$condition1 = TRUE;  
if ($condition1) {  
    // This code block will execute  
}  
  
$condition2 = FALSE;  
if ($condition2) {  
    // This code block will not execute  
}
```

PHP **if** statements evaluate a boolean value or expression and execute the provided code block if the expression evaluates to **TRUE**.

PHP Truthy and Falsy

```
if ("What's going on?"){ // evaluates to TRUE
    echo "Let us explain.";
}
// Prints: Let us explain...
```

PHP values within a condition will always be evaluated to `TRUE` or `FALSE`. Values that will evaluate to `TRUE` are known as *truthy* and values that evaluate to `FALSE` are known as *falsy*.

Falsy values include:

- `false`
- `0`
- empty strings
- `null`
- `undefined`
- `NaN`.

All other values are *truthy*.

PHP else statement

```
$condition = FALSE;
if ($condition) {
    // This code block will not execute
} else {
    // This code block will execute
}
```

A PHP else statement can follow an `if` block. If the condition of the `if` does not evaluate to `TRUE`, the code block following `else` will be executed.

PHP Boolean Values

```
// booleans
$is_true = TRUE;
$is_false = FALSE;

echo gettype($is_true);
// Prints: boolean
echo gettype($is_false);
// Prints: boolean
```

PHP Boolean values are either `TRUE` or `FALSE`, which are the only members of the `boolean` type

PHP ternary operator

```
// Without ternary
$isClicked = FALSE;
if ($isClicked) {
    $link_color = "purple";
} else {
    $link_color = "blue";
}
// $link_color = "blue";

// With ternary
$isClicked = FALSE;
$link_color = $isClicked ? "purple" : "blue";
// $link_color = "blue";
```

In PHP, the ternary operator allows for a compact syntax in the case of binary (`if/else`) decisions. It evaluates a single condition and executes one expression and returns its value if the condition is met and the second expression otherwise.

The syntax for the ternary operator looks like the following:

```
condition ? expression1 : expression2
```

PHP comparison operators

```
// Comparison operators
1 > 3; // FALSE
3 > 1; // TRUE
250 >= 250; // TRUE
1 === 1; // TRUE
1 === 2; // FALSE
1 === "1"; // FALSE
```

PHP *comparison operators* are used to compare two values and return `TRUE` or `FALSE` depending on the validity of the comparison. Comparison operators include:

- identical (`===`)
- not identical (`!==`)
- greater than (`>`)
- less than (`<`)
- greater than or equal (`>=`)
- less than or equal (`<=`)

PHP elseif statements

```
$fav_fruit = "orange";

if ($fav_fruit === "banana"){
    echo "Enjoy the banana!";
} elseif ($fav_fruit === "apple"){
    echo "Enjoy the apple!";
} elseif ($fav_fruit === "orange"){
    echo "Enjoy the orange!";
} else {
    echo "Enjoy the fruit!";
}

// Prints: Enjoy the orange!
```

PHP `elseif` statements must be paired with an `if` statement, but many `elseif` s can be chained from a single `if`.

`elseif` s provide an additional condition to check (and corresponding code to execute) if the conditional statements of the `if` block and any preceding `elseif` s are not met.

PHP switch statement

```
switch ($letter_grade){  
    case "A":  
        echo "Terrific";  
        break;  
    case "B":  
        echo "Good";  
        break;  
    case "C":  
        echo "Fair";  
        break;  
    case "D":  
        echo "Needs Improvement";  
        break;  
    case "F":  
        echo "See me!";  
        break;  
    default:  
        echo "Invalid grade";  
}
```

PHP `switch` statements provide a clear syntax for a series of comparisons in which a value or expression is compared to many possible matches and code blocks are executed based on the matching `case`.

In PHP, once a matched `case` is encountered, the code blocks of all subsequent cases (regardless of match) will be executed until a `return`, `break`, or the end of the statement is reached. This is known as *fall through*.

PHP readline()

```
echo "\nWhat's your name?\n";  
$name = readline(">> "); // receives user input
```

The PHP built-in `readline()` function takes a string with which to prompt the user. It waits for the user to enter text into the terminal and returns that value as a string.