



PHP

(PHP: Hypertext Preprocessor)

ICS4U - Mr. Emmell

Many wonderful tutorials online

<https://www.learn-php.org/>

Basics

- Finally, a server-side language
 - **All execution is done before being sent to the browser**
 - The browser will never see any PHP code, so this cannot directly interact with JavaScript.
- Is used to OUTPUT HTML
- All blocks begin with `<?php` and end with `?>`

```
<?php $message = "Hello World!"; ?>
<html>
  <head></head>
  <body>
    <?php echo $message; ?>!
  </body>
</html>
```

Variables & Operators

- Similar to JavaScript, all variables are declared without type, like this:
`$myVariable = 42;`
- PHP has many types of variables, but the most basic variable types are integer, float, strings, and booleans.
- Standard set of C operands apply here as well.
 - Except string concatenation is different! (not a + sign)
 - Instead, we use a period.

```
$myString = "Thanks for all " . "the fish";
$myString = "The answer is " . 42;
```

Examples:

```
<?php
    $answer = 42;
    if ($answer == 42) {
        echo "You are correct!";
    } else {
        echo "Sorry, that is not the answer.";
    }
?>
```

Examples

```
<?php
    $firstName = "Frank";
    $lastName = "Zappa";
    echo $firstName." ".$lastName;
?>
```

Examples

```
<?php
    $question = true;
    if ($question) {
        $result = 6*7;
    }
?>
```

```
<?php
    for ($x = 1; $x<=5; $x++) {
        echo "<h\".$x."> Test title! </h\".$x.">\n";
    }
?>
```

Arrays

```
$odd_numbers = [1,3,5,7,9];
$first_odd_number = $odd_numbers[0];
$second_odd_number = $odd_numbers[1];
```

```
echo "The first odd number is $first_odd_number\n";
echo "The second odd number is $second_odd_number\n";
```

```
print_r($odd_numbers); // output the contents of the array
    print_r is a great function! Use it to display contents
```