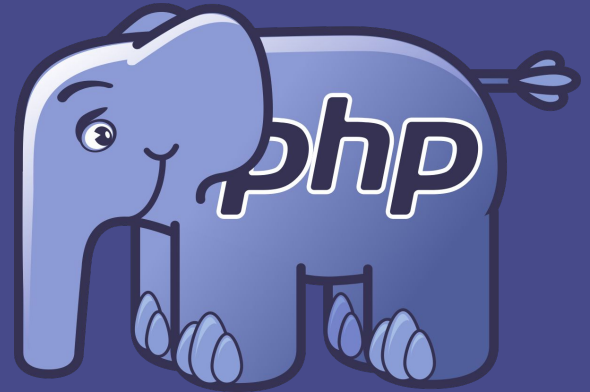# PHP Course Lecture 2

Temuri Takalandze

@ABGEO

Type Casting

```php
<?php
    $float = 3.14;
    $toInt = (int)$float;
    $toString = (string)$float;

    var_dump($float);
    var_dump($toInt);
    var_dump($toString);
```

Operators

- Assignment Operators
- Math Operators
- Increment/Decrement Operators
- Comparison Operators
- Logical Operators

If-Else Statements

```php
<?php
    $number = 4;

    if ($number % 2 === 0) {
        echo "This number is Even.";
    } else {
        echo "This number is Odd.";
    }
```

Elseif Statements

```php
<?php
    $number = 4;

    if ($number > 0) {
        echo "This number is greater than 0.";
    } else if ($number < 0) {
        echo "This number is less than 0.";
    } else {
        echo "This number is 0.";
    }
```

Switch-Case Statement

```php
<?php
    $number = 2;
    $numberToWord = "";

    switch ($number) {
        case 1:
            $numberToWord = "One";
            break;

        // ...

        case 9:
            $numberToWord = "Nine";
            break;
    }

    echo "{$number} ($numberToWord)";
```

Ternary Operator

```php
<?php
    $number = 4;
    echo "This number is " . ($number % 2 === 0 ? "Even" : "Odd") . ".";
```

Loops

```php
<?php
   for ($i = 0; $i < 10; $i++) {
       echo "Hello, World!\n";
   }
```

Loops

- While
- Do-While
- For
- Foreach

Functions

```php
<?php
    function printPerson($person) {
        echo "First Name: {$person['firstName']}\n";
        echo "Last Name: {$person['lastName']}\n";
        echo "Age: {$person['age']}\n";
    }

    $person = [
        'firstName' => 'John',
        'lastName' => 'Doe',
        'age' => '25',
    ];

    printPerson($person);
```

Scopes

```php
<?php
    $a = 10;

    function someFunction() {
        $a = 1000;
        echo "{$a}\n";
    }


    echo "{$a}\n";
    someFunction();
    echo "{$a}\n";
```

Global Variables

```php
<?php
    $a = 10;

    function someFunction() {
        global $a;
        $a = 1000;
        echo "{$a}\n";
    }


    echo "{$a}\n";
    someFunction();
    echo "{$a}\n";
```

Basic Built in PHP functions

- Date & Time Functions
  - **getdate()** - Returns date/time information of a timestamp or the current local date/time
  - **date()** - Formats a local date and time.
  - **time()** - Returns current Unix timestamp;
  - **date_parse()** - Returns an associative array with detailed info about a specified date
  - ...
- String Manipulation Functions
  - **str_repeat()** - Repeats a string a specified number of times
  - **str_replace()** - Replaces some characters in a string
  - **strlen()** - Returns the length of a string
  - **strpos()** - Returns the position of the first occurrence of a string inside another string
  - **strtolower()** - Converts a string to lowercase letters
  - **strtoupper()** - Converts a string to uppercase letters
  - **substr()** - Returns a part of a string
  - **ucfirst()** - Converts the first character of a string to uppercase
  - **ucwords()** - Converts the first character of each word in a string to uppercase
  - ...

Basic Built in PHP functions

- Math Functions
  - **abs()** - Returns the absolute (positive) value of a number
  - **max()** - Returns the highest value in an array, or the highest value of several specified values
  - **min()** - Returns the **lowest** value in an array, or the highest value of several specified values
  - **pi()** - Returns the value of PI
  - **pow()** - Returns x raised to the power of y
  - **rand()** - Generates a random integer
  - …