

Web Application development II

Data type and variables

PHP is a Loosely Typed Language

- ▶ No need to define type of variable
- ▶ PHP automatically converts the variable to the correct data type depending its value.
- ▶ Eg :
- ▶ `$x = 12;`

Scope

- ▶ The scope of a variable is the part of the script where the variable can be referenced/used
- ▶ Scopes
 - ▶ Local
 - ▶ Global
 - ▶ Static

Example

```
<?php
$x = 5; // global scope

function myTest() {
    // using x inside this function will generate an error
    echo "<p>Variable x inside function is: $x</p>";
    $v = 12;
    echo "<p>local variables value : $v</p>";
}
myTest();

echo "<p>Variable x outside function is: $x</p>";
?>
```

Static

```
<?php  
function myTest() {  
    static $x = 0;  
    echo $x;  
    $x++;  
}
```

```
myTest();  
myTest();  
myTest();  
?>
```

Data Types

- ▶ PHP supports the following data types:
 - ▶ String
 - ▶ Integer
 - ▶ Float (floating point numbers - also called double)
 - ▶ Boolean
 - ▶ Array
 - ▶ Object
 - ▶ NULL
 - ▶ Resource

Example

```
<?php  
$x = 5985;  
var_dump($x);  
?>
```

Constants

- ▶ Constants are like variables except that once they are defined they cannot be changed or undefined.
- ▶ Syntax
 - ▶ `define(name, value, case-insensitive)`
- ▶ Constants are automatically global and can be used across the entire script.

Example

- ▶

```
<?php  
define("GREETING", "Welcome to W3Schools.com!", true);  
echo greeting;  
?>
```

OR

- ▶

```
<?php  
define("GREETING", "Welcome to W3Schools.com!");  
echo GREETING;  
?>
```

