Basic Syntax

Files start with	<?php
Single line comment	// a comment
Multi-line comment	/ comment /
End of instruction	;
Include code from another file	require_once('some_file.php');

Classes and Objects

```
class SomeClass {
    private $property;
    public $anotherProperty;
    protected $yetAnotherProperty = null;
    public function __construct($arg=null)
{
    $this->property = $arg;
}
public function someMethod()
{
    echo "Hi";
}
public function getProperty()
{
    return $this->property;
}
public function setProperty( $p )
{
    $this->property = $p;
}
}
}
$myObject = new SomeClass( "123" );
echo $myObject->getProperty(); // 123
$myObject->property; // ERROR:private
```

Variables

$variableName;
$variableName = "Some String";
$variableName = 'Some String';
$variableName = strtoupper('text');
$variableName = 5;
$variable = "Some {$otherVariable} info";
echo $variableName; // output
$newVar = $var1 . $var2; // concatenation

Functions

```
function multiply($arg1, $arg2)
{
    return $arg * $arg2;
}
$param = 4;
$param2 = 8;
$answer = multiply($param, $param2);
```

Control Structure: IF

```
// if something is true do something else
if( $something == true ) {
    doSomethingElse();
} elseif( $something == false ) {
    // however, if something is false, do
something
    doSomething();
} else {
    // otherwise, lets do nothing
    doNothing();
}
```

Control Structure: Loops

```
foreach( $myArray as $key => $value ) {
    echo "My array has the value {$value} stored
against the key {$key}<br />";
}
while( someCondition == true ) {
    echo 'hello';
}
```

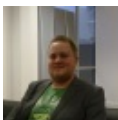## Numerical Operations

Addition	$variable = $variable + 5;
Subtraction	$variable = $variable - 5;
Multiplication	$variable = $variable * 5;
Division	$variable = $variable / 5;

Arrays

Create	$myArray = array();
Push into	$myArray[] = "Something";
Push to associative	$myArray['key'] = "Value";
Create numeric	$myArray = array('value', 'value2');
Create associative	$a = array('key'=>'val');
Print from numeric	echo $myArray[0];
Print from associative	echo $myArray['key'];
Associative arrays	Keys are strings
Numeric arrays	Keys are numbers: 0,1,2,3,4

Control Structure: Switch

```
switch( $someVariable ) {
    case 1:
        echo "Some variable equals 1";
        break;
    case "cheese"
        echo "Some variable equals cheese";
        break;
    default:
        echo "No idea";
        break;
}
```