

### Basic Syntax

Files start with	<?php
Single line comment	// a comment
Multi-line comment	/ <i> comment </i> /
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;
}
```



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