



**MINDSPRING**  
Computing

# PHP 101

Introduction to PHP

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# What can PHP be used for?

- Website Content Management Systems
- Adding dynamic content to static sites
- Running a website off a database
- Processing html forms
- Creating themed sites



# What you need

- Webserver (Apache , IIS etc)
- PHP Module (For your OS/Webserver)



Optional:

- Database (mySQL, MSSQL, Access, Oracle etc)



# The Basics, Hello world

## HTML Hello World

```
<html>
  <head>
    <title>PHP Test</title>
  </head>
  <body>
    <p>Hello World</p>
  </body>
</html>
```

## Perl CGI Hello World

```
#!/usr/local/bin/perl
print "Content-type: text/html\n\n";
print <<"EOF";
<html>
  <head>
    <title>PHP Test</title>
  </head>
  <body>
    <p>Hello World</p>
  </body>
</html>
EOF
```



# PHP Hello World

```
<html>  
  <head>  
    <title>PHP Test</title>  
  </head>  
  <body>  
    <?php echo '<p>Hello World</p>'; ?>  
  </body>  
</html>
```



# Variables in PHP

```
<?php
    $name = 'Bob';
    print "My name is $name";

    print "My Surname is $_POST['surname']";

    print "My Initials are $_GET['initials']";
?>
```



# Arrays in PHP

```
<?php
```

```
$arr = array("foo" => "bar", "12" => true);
```

```
print "$arr['foo']"; // bar
```

```
print "$arr['12']"; // 1
```

```
$arr['foo'] = "pub"
```

```
?>
```



# Getting data from html forms

## form.html:

```
<html>
<head>
<title></title>
</head>
<body>
<form method="post" action="email.php">

  First Name: <input name="firstname" /> <p>

  Surname Name: <input name="surname"
    /></p>

  <p>Initials: <input name="initials" /></p>

  <input type="submit" value="Send">
</form>
</body>
</html>
```

## email.php

```
<?php
$email = "Here are the variables from your form:
  \n";
foreach ($_POST as $key => $value) {
  $email .= "$key: $value \n";
}
$to = 'sales@shopping.co.za';
$subject = 'email form';
$headers = 'From: noreply@shopping.co.za';
mail($to, $subject, $email, $headers);
?>

<html ><head>
<title>Submit form</title>
<meta http-equiv="refresh" content="2;
  URL=result.html" />
</head>
<font color=red>Processing.....</font>
</html>
```



# OO PHP code

## Defining the Class

```
<?php
class client {
    public $name;
    public $telephone;

    public function __construct(){
    }

    public function bill($amount, $hours){
        print "please bill $this->name $amount for $hours work";
    }
}
?>
```



# OO PHP code

## Creating and using objects

```
<?php
    $favourite_client = new client;
    $favourite_client->name="Microsoft";
    $favourite_client->bill("R8000",5);
?>
```

### **Output:**

please bill Microsoft R8000 for 5 work



# PHP and MySQL

```
<?php
$link = mysql_connect('mysql_host', 'mysql_user', 'mysql_password')
mysql_select_db('my_database') or die('Could not select database');

$query = 'SELECT * FROM my_table';
$result = mysql_query($query) or die('Query failed: ' . mysql_error());

// Printing results in HTML
echo "<table>\n";
while ($line = mysql_fetch_array($result, MYSQL_ASSOC)) {
    echo "\t<tr>\n";
    foreach ($line as $col_value) {
        echo "\t\t<td>$col_value</td>\n";
    }
    echo "\t</tr>\n";
}
echo "</table>\n";

// Free resultset
mysql_free_result($result);

// Closing connection
mysql_close($link);
?>
```



# PHP Resources

<http://www.php.net>

<http://www.apache.org>

<http://www.mysql.com>

<http://www.hotscripts.com>

<http://www.freshmeat.net>



# The Next Big Thing?

**Python® is a dynamic object-oriented programming language that can be used for many kinds of software development. It offers strong support for integration with other languages and tools, comes with extensive standard libraries, and can be learned in a few days. Many Python programmers report substantial productivity gains and feel the language encourages the development of higher quality, more maintainable code.**

# Questions and Answers

PHP

Linux

Open Source

Life, The Universe and Everything

