CNT 4714: Enterprise Computing Fall 2009

Introduction to PHP – Part 1

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Introduction to PHP

- PHP is officially known as PHP: Hypertext Preprocessor and is very rapidly becoming the most popular server-side scripting language for creating dynamic web pages.
- PHP was created in 1994 by Rasmus Lerdorf (who currently works for Linuxcare, Inc. as a senior open-source researcher) to track users at his Web site. Lerdorf originally called it Personal Home Page Tools in a package he released in 1995. It eventually became an Apache Software Foundation project.
- PHP2 featured built-in database support and form handling. In 1997, PHP3 was released and featured a new parser which substantially increased performance and led to an explosion in PHP use.



Introduction to PHP (cont.)

- PHP4 featured the Zend Engine and was considerably faster and more powerful than its predecessors and further enhanced the popularity of PHP.
- The current release is PHP 5.3.0 and features the Zend Engine 2, which provides further increases in speed and functionality. You can download the latest version of PHP at <u>www.php.net</u>. For more details on the Zend Engine 2 see <u>www.zend.com</u>.
- Today more than 17 million domains utilize PHP technology.
- All of the examples we'll be looking at use the latest stable version of PHP which is 5.3.0 and was released June 30, 2009.



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Introduction to PHP (cont.)

- The power of the Web resides not only in serving content to users, but also in responding to requests from users and generating Web pages with dynamic content.
- Interactivity between the user and the server has become a crucial part of Web functionality. While other languages can also perform these functions, PHP was written specifically for interacting with the Web.
- PHP code is embedded directly into XHTML documents. This allows the document author to write XHTML in a clear, concise manner, without having to use multiple print statements, as is necessary with other CGI-based languages.

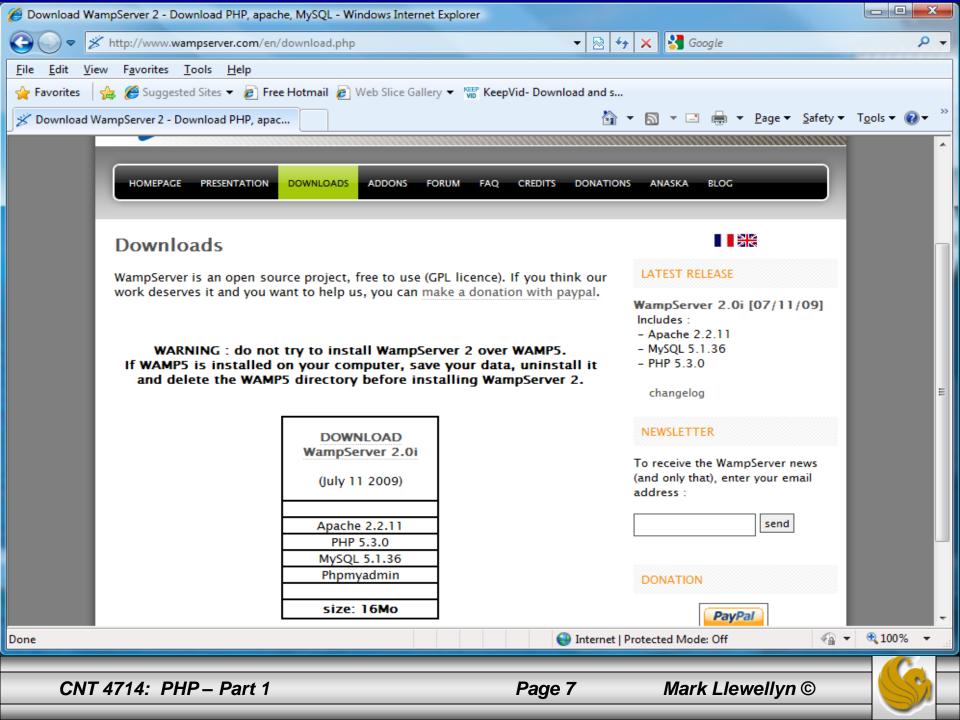


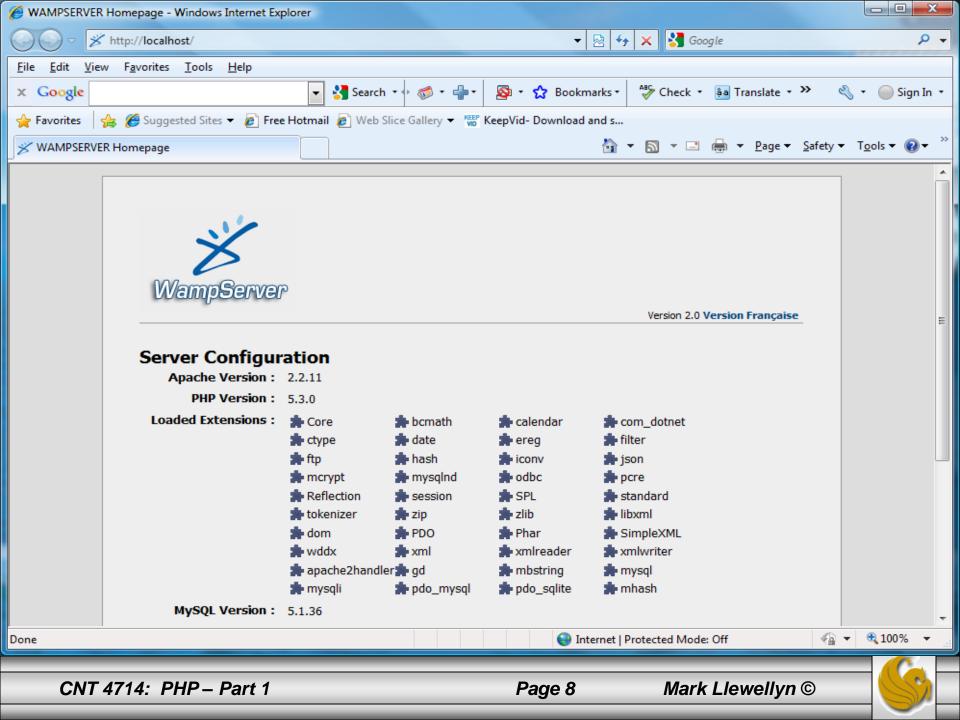
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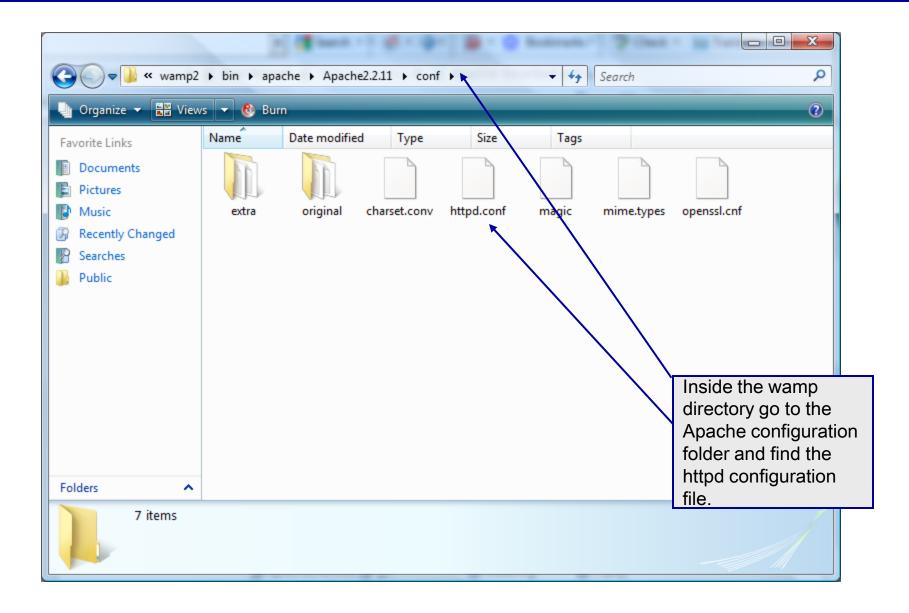
- PHP script file names usually end with .php, although a server can be configured to handle other file extensions.
- To run a PHP script, PHP must first be installed on your system. Download PHP 5.3.0 from <u>www.php.net</u>. (Most recent version is 5.3.0.)
- Although PHP can be used from the command line, a Web server is required to take full advantage of the scripting language. I would suggest the Apache server available from <u>www.apache.org</u>. (Note: this is not the Tomcat server you've already used.) Current version is 2.2.11 which is a new major version change from the previous 2.0.xx versions (mostly in the areas of security).
- The easiest way to get this setup is to use WAMP Server. The current version of this is WAMP 2.0 which automatically loads and configures Apache 2.2.11, MySQL 5.1.36 and PHP 5.3.0 This is how I'll show you to get it set-up. Go to www.wampserver.com.



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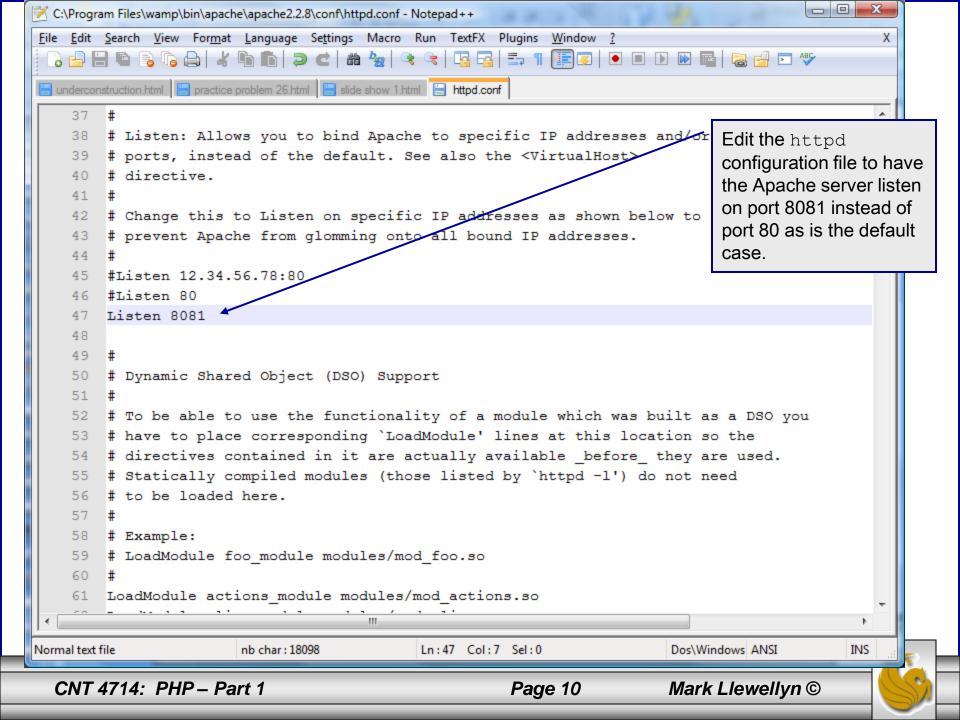




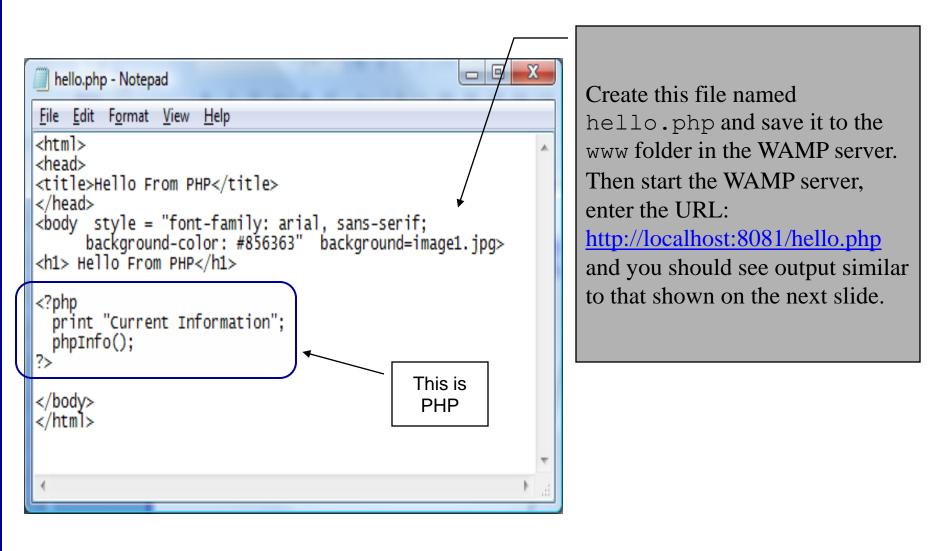




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A PHP Test Example

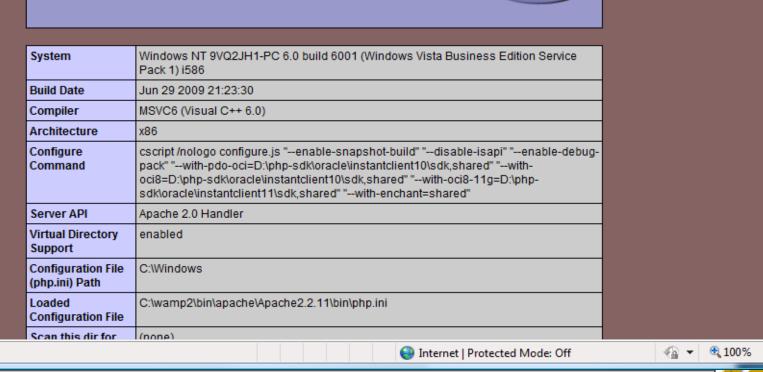






Current Information

PHP Version 5.3.0



Done

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A First PHP Example

- The following two pages illustrate a simple PHP "hello world" program.
- In PHP, code is inserted between the scripting delimiters <?php and ?>. PHP code can be placed anywhere in XHTML markup, as long as the code is enclosed in these scripting delimiters.
- Place all of your XHTML and PHP files inside the WAMP www directory.



welcome.php Example

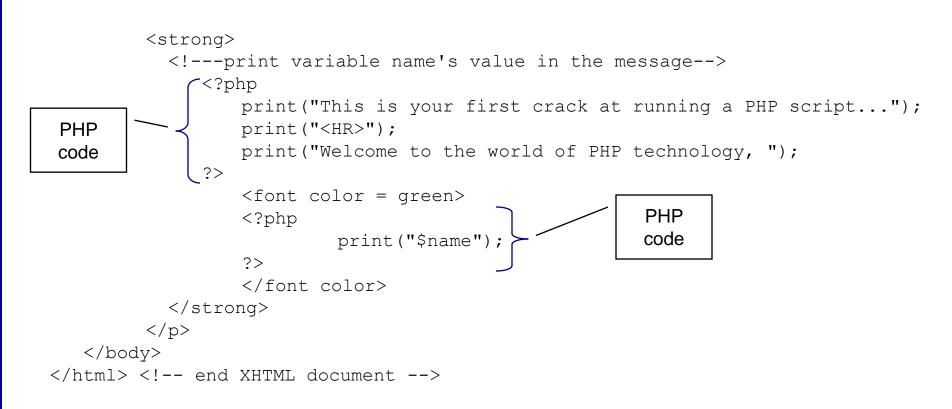
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">

```
<!-- welcome.php -->
<!-- XHTML file containing a PHP script. -->
                                                                  PHP code
<?php
                                                                  declaring a
    $name = "Mark"; //php declaration and assignment
                                                                  variable.
?>
<html xmlns = "http://www.w3.org/1999/xhtml">
   <!-- head section of document -->
   <head>
      <title>A Simple PHP Document</title>
   </head>
   <!-- body section of document -->
   <body style = "font-size: 2em">
    <hr>
    <font color = blue><h1> Generating HTML From PHP </h1></font color>
```



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welcome.php Example





welcome.php Example Output

A Simple PHP Document - Windows Internet Explorer						
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A Simple PHP Document						
Generating HTML From PHP This is your first crack at running a PHP script						
Welcome to the world of PHP technology, Mark						
Done						
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Viewing Client/Server Environment Variables

- Knowledge of a client's execution environment is useful to system administrators who want to provide client-specific information.
- Environment variables contain information about a script's environment, such as the client's web browser, the HTTP host and the HTTP connection.
 - The table on the next page summarizes some of the superglobal arrays defined by PHP.
- The XHTML document on page 19 displays the values of the server's environment variables in a table. PHP stores the server variables and their values in the \$_SERVER array. Iterating through the array allows one to view all of the server's environment variables.



Some Superglobal Environment Arrays

Variable Name	Description
\$_SERVER	Data about the currently running server.
\$_ENV	Data about the client's environment.
\$_GET	Data posted to the server by the get method.
\$_POST	Data posted to the server by the post method.
\$_COOKIE	Data contained in cookies on the client's computer.
\$GLOBALS	Array containing all global variables.



server.php Example

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
 "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<!-- server.php
                         -->
<!-- Program to display $_SERVER variables -->
<html xmlns = "http://www.w3.org/1999/xhtml">
 <head>
   <title>SERVER Variables Display</title>
 </head>
 <body style = "font-family: arial, sans-serif;
   background-color: #856363" background=image1.jpg>
   <table border = "0" cellpadding = "2" cellspacing = "0"
    width = "100%">
   <?php
                                                             Iterate through the
    // print the key and value for each element
                                                             $_SERVER array to list all
    // in the $_SERVER array
                                                             of the SERVER variables for
    foreach ($ SERVER as $key => $value )
                                                             the current server on which
      print( "
                                                             PHP is running.
        <strong>$key</strong> $value");
   ?>
   </body>
</html>
```

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HTTP_ACCEPT_LANGUAGE	en-us		
HTTP_USER_AGENT	Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.0; Trident/4.0; GTB6; SL 2.0.50727; InfoPath.2; .NET CLR 3.5.30729; .NET CLR 3.0.30618)	LCC1; .NET CLR	
HTTP_ACCEPT_ENCODING		E	
HTTP_HOST	localhost:8081		
HTTP_CONNECTION	Keep-Alive		
РАТН	C:\Windows\system32;C:\Windows;C:\Windows\System32\Wbem;;C:\Win \WindowsPowerShell\v1.0\;C:\Program Files\QuickTime\QTSystem\	ndows\System32	
SystemRoot	C:\Windows		
COMSPEC	C:\Windows\system32\cmd.exe		
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WINDIR	C:\Windows		
SERVER_SIGNATURE			
SERVER_SOFTWARE	Apache/2.2.11 (Win32) PHP/5.3.0 localhost		
SERVER_NAME SERVER ADDR	127.0.0.1		
SERVER_PORT	8081		
REMOTE_ADDR	127.0.0.1		
Done	See Internet Protected Mode: Off	A A A A	
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