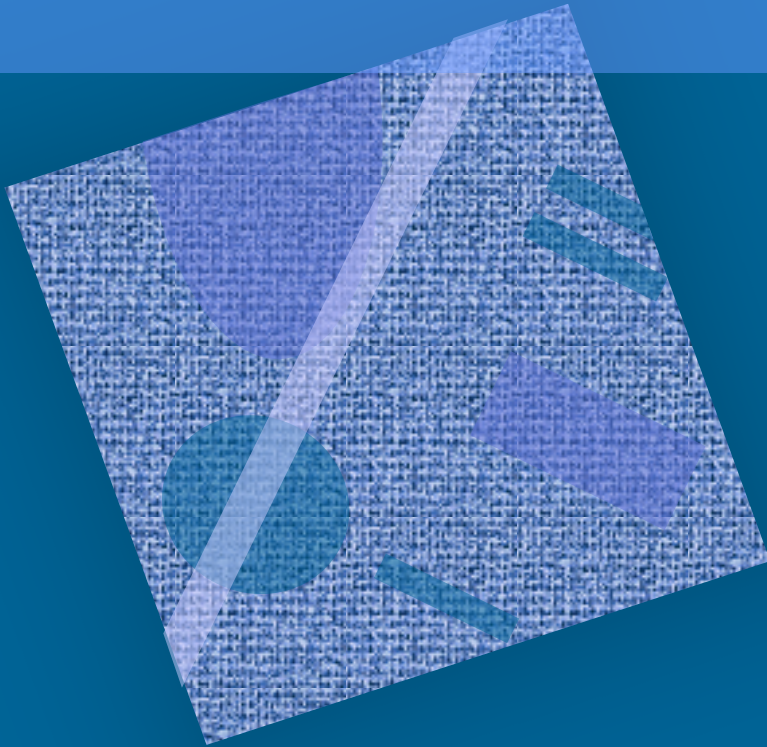


COMS 469: Interactive Media II



Agenda

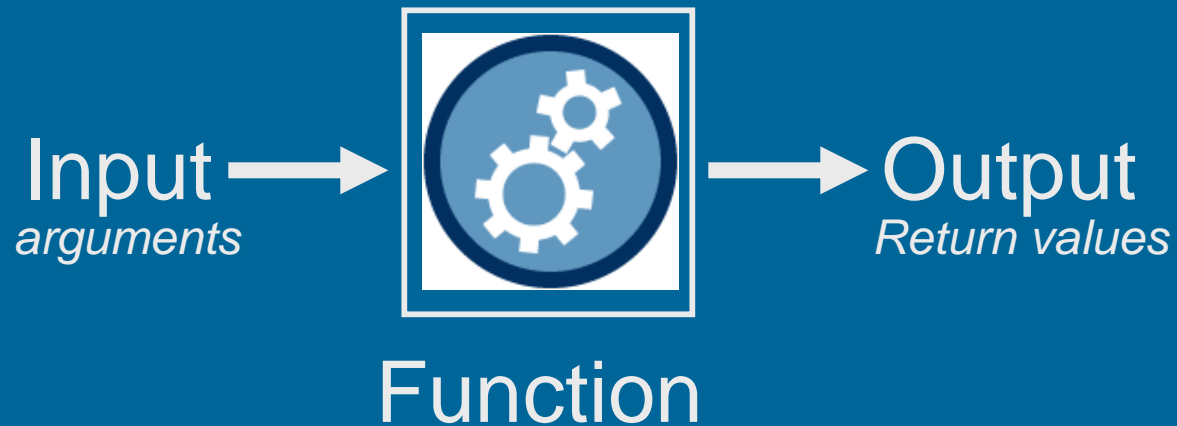
- Review
- Files and Directories

Review

- User Defined Functions
- Cookies
- File Includes
- CMS Admin Login

Review

- User Defined Functions



Functions

- *Defining* a Function

```
function compute_area($height, $width)
{
    return $height * $width;
}
```

- *Invoking* a Function

```
compute_area(2, 4);
```

Invoke the `compute_area` function,
which is passed the arguments 2 and 4.

- Variable Scope

- local vs. global

```
function_form.php user_registration2.php
<html> <head> <title> Form Validation Redux </title> </head>
<body>
  <h1>User Registration</h1>
  <?php
    $name = $_POST['name'];
    $email = $_POST['email'];
    $submit = $_POST['submit'];

    function getInputErrors($key, $errArray)
    {
      if (in_array($key, $errArray))
        return "<div style='color:#ff0000;font-si";

    $inputErrors = array();
    $submitted = false;
    if (isset($submit))
    {
      $submitted = true;
      if (empty($name))
        $inputErrors[] = 'name';
      if (empty($email) || !ereg("^[a-zA-Z0-9_\\-."))
        $inputErrors[] = 'email';
    }
    if (($submitted==true && count($inputErrors)>0) |
  <?php
  <form method="post" action="function_form.php">
    Name: <input type="text" size="25" name="name" v
      <?php echo getInputErrors("name", $inputEr

    Email: <input type="text" size="25" name="email"
      <?php echo getInputErrors("email", $input
    <input type="submit" name="submit" value="Submit

  <?php
  }
  else
    echo "all is okay";
  <?php
</body>
</html>
```

Validation – version #3
Form Validation Function



Review

- Cookies

- setcookie() function

- Arguments - name, value, expiration

- ```
setcookie("fruit", "banana", time()+3600);
```

- Reading a Cookie

- Every cookie and its value is contained in the PHP array `$_COOKIE`

- ```
foreach ($_COOKIE as $name => $value)  
    echo "<br>$name => $value";
```

Review

login.html

authentication.php

secretstuff.php



Using cookies for
login & authentication

Review

```
login.html
<html>
<head>
<title>Login Page</title>
</head>
<body>

<h1>Login</h1>
<hr>
Please enter your username and password.

<form method="post" action="authentication.php">
<p><b>User Name:</b>
<br><input type="text" name="username" size="16"></p>

<p><b>Password:</b>
<br><input type="password" name="password" size="16"></p>

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

login.html

```
secretstuff.php
<html>
<head>
<title>Login Page</title>
</head>
<body>

<?php
if (empty($_COOKIE['username']))
{
echo "<h2>Access Denied</h2><hr>";
echo "Hey Chump, go back to the <a href='login.html'>Login page</a>";
return false;
}
echo "<h2>Secret Stuff</h2><hr>";
echo "This is the Secret Stuff...don't you feel special?";
?>
</body>
</html>
```

secretstuff.php

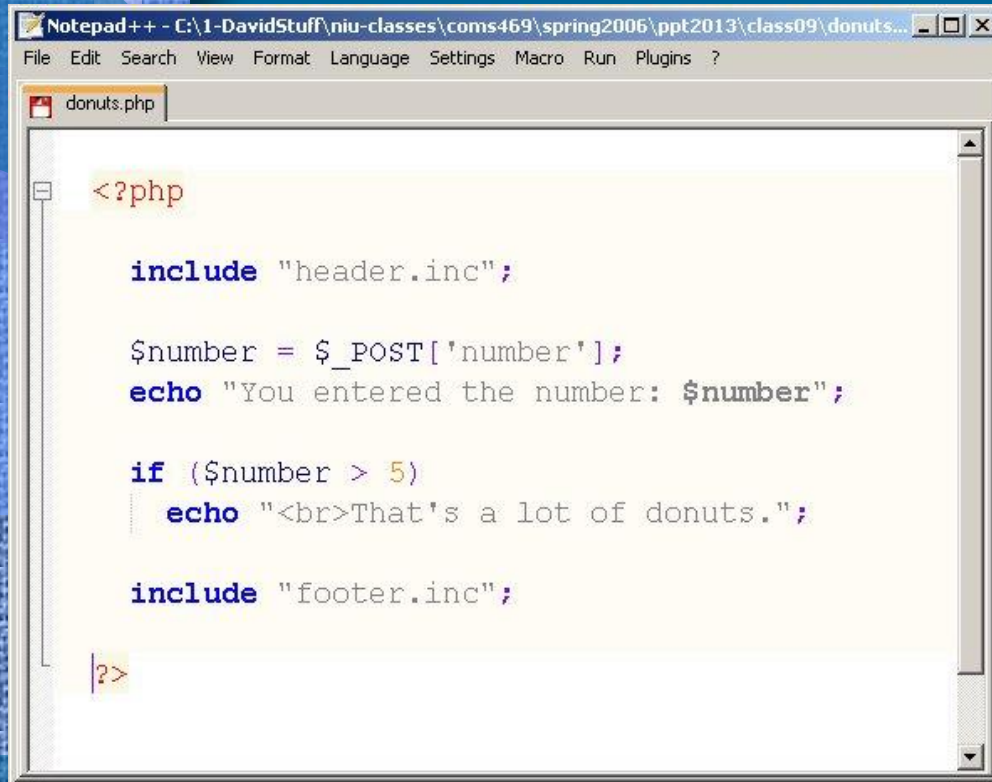
```
authentication.php
<?php
$username = $_POST['username'];
$password = $_POST['password'];

if($username == "admin" && $password == "1234")
{
setcookie("username", $username, time()+1200);
echo "<html><body><h2>Access Approved</h2><hr>";
echo "You may now look at all the <a href='secretstuff.php'>secret stuff</a>";
}
else
{
setcookie("username", "", time()-3600);
echo "<html><body><h2>Access Denied</h2><hr>";
echo "Please return to the <a href='login.html'>login page</a> and try again."
}
?>
```

authentication.php

mypage.php

Review

A screenshot of the Notepad++ text editor. The title bar shows the file path: C:\1-DavidStuff\niu-classes\coms469\spring2006\ppt2013\class09\donuts... The menu bar includes File, Edit, Search, View, Format, Language, Settings, Macro, Run, Plugins, and ?. The active window is titled 'donuts.php' and contains the following PHP code:

```
<?php

include "header.inc";

$number = $_POST['number'];
echo "You entered the number: $number";

if ($number > 5)
    echo "<br>That's a lot of donuts.";

include "footer.inc";

?>
```

File Includes

require "header.inc"
include "header.inc"

mypage.php

```
Notepad++ - C:\1-DavidStuff\niu-classes\coms469\spring2006\ppt2013\class09\donuts...
File Edit Search View Format Language Settings Macro Run Plugins ?
donuts.php
<?php

include "header.inc";

$number = $_POST['number'];
echo "You entered the number: $number";

if ($number > 5)
    echo "<br>That's a lot of donuts.";

include "footer.inc";

?>
```

header.inc

```
page6-1 - Notepad
File Edit Format View Help
<html>
<head>
<title>The Donut Counter</title>
</head>

<body>
<h1>The Donut Count</h1>
```

footer.inc

```
page6-1 - Notepad
File Edit Format View Help
<p>This page &copy; 2004, Joe Arada</p>
</body>
</html>
```

Require vs. Include

require is not an executable statement; include is executable. Consequently, include provides more options and flexibility.

Content Management Site



widgets.php



adminlogin.php



authentication.php



header.inc



news.php



news.txt



addnews.php



adminheader.inc



footer.inc



products.php



products.txt



addproduct.php



footer.inc



links.php



links.txt



addurl.php

Content Management Site



widgets.php



adminlogin.php



authentication.php



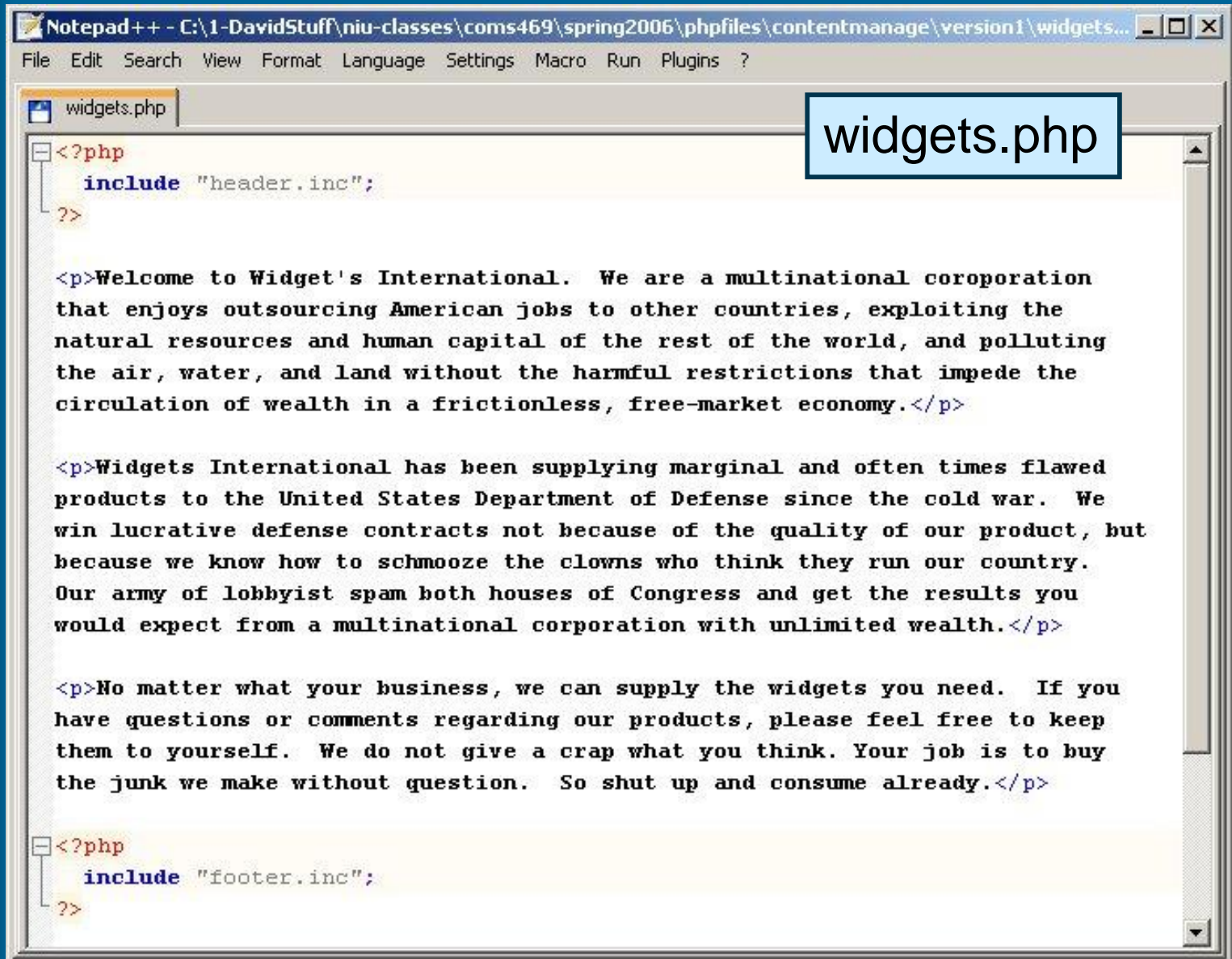
header.inc



adminheader.inc



footer.inc



```
Notepad++ - C:\1-DavidStuff\niu-classes\coms469\spring2006\phpfiles\contentmanage\version1\widgets...
File Edit Search View Format Language Settings Macro Run Plugins ?

widgets.php

<?php
    include "header.inc";
?>

<p>Welcome to Widget's International. We are a multinational corporation
that enjoys outsourcing American jobs to other countries, exploiting the
natural resources and human capital of the rest of the world, and polluting
the air, water, and land without the harmful restrictions that impede the
circulation of wealth in a frictionless, free-market economy.</p>

<p>Widgets International has been supplying marginal and often times flawed
products to the United States Department of Defense since the cold war. We
win lucrative defense contracts not because of the quality of our product, but
because we know how to schmooze the clowns who think they run our country.
Our army of lobbyist spam both houses of Congress and get the results you
would expect from a multinational corporation with unlimited wealth.</p>

<p>No matter what your business, we can supply the widgets you need. If you
have questions or comments regarding our products, please feel free to keep
them to yourself. We do not give a crap what you think. Your job is to buy
the junk we make without question. So shut up and consume already.</p>

<?php
    include "footer.inc";
?>
```

widgets.php

adminlogin.php

```
<?php
    include "header.inc";
?>

<h2>Administrator Login</h2>
<hr>
Please enter your username and password to enter the
administrator section of the Widgets International site.

<form method="post" action="authentication.php">
    <br><br>
    <b>User Name:</b>
    <br><input type="text" name="username" size="16">

    <br><br>
    <b>Password:</b>
    <br><input type="password" name="password" size="16">

    <br><br>
    <input type="submit" value="Login">
</form>

<?php
    include "footer.inc";
?>
|
```

adminlogin.php

authentication.php

```
<?php
$username = $_POST['username'];
$password = $_POST['password'];

if($username == "admin" && $password == "1234")
(
    setcookie("username", $username, time()+1200);
    include "adminheader.inc";
    echo "<h2>Administrator Access Approved</h2><hr>";
    echo "Use the links on the left to make changes to the Widget's International
Site. Changes will be registered immediately. After updating one of the pages, check
it to make sure the changes have been saved. If you have any problems with this page,
please report the errors to the <a href='mailto:yourname@niu.edu'>site manager</a>
    <p>&nbsp;</p><p>&nbsp;</p>
    <p>&nbsp;</p><p>&nbsp;</p>";
    include "footer.inc";
)
else
(
    setcookie("username", "", time()-3600);
    include "header.inc";
    echo "<h2>Access Denied</h2><hr>";
    echo "The User Name and Password you entered are not valid. Please return to the
login page and try again.
    <p>&nbsp;</p><p>&nbsp;</p>
    <p>&nbsp;</p><p>&nbsp;</p>";
    include "footer.inc";
)
?>
```

authentication.php


```
<html>
<head>
<title>Widgets International</title>
<style type="text/css">
  body {background-color: #ffffff;}

  .content {
background-color: #f0f0f0;
padding-top: 10px; padding-right: 10px; padding-bottom: 10px; padding-left: 10px;
margin-top: 10px; margin-right: 10px; margin-bottom: 10px; margin-left: 10px;
}

  a:link {color: #005577; text-decoration: none;}
  a:visited {color: #005577; text-decoration: none;}
  a:hover {color: #bcbcbc; text-decoration: none;}

  td {
font-family: verdana, arial, helvetica, sans-serif; font-size: 13px;
vertical-align: top;
}

  .title {
font-size: 44px; font-weight: normal; color: #ffffff;
margin-top: 5px; margin-bottom: 5px; margin-left: 20px;
padding-top: 5px; padding-bottom: 5px; padding-left: 20px;
}

  h2 {font-size: 20px; font-weight: normal; color: #005577;}
  h6 {font-size: 9px; font-weight: normal; color: #aaaaaa;}

</style>
</head>

<body>
<table width="70%" border="0" cellspacing="10" cellpadding="0" align="center">
  <tr>
    <td colspan="2" bgcolor="#005577"><p class="title">Widgets International</p></td></tr>
  <tr>
    <td valign="top">
      <b><a href="news.php">News</a>
      <br><a href="products.php">Products</a>
      <br><a href="links.php">Links</a>
      <br><a href="widgets.php">Home</a>
      <br><a href="adminlogin.php">Admin</a></b></td>

    <td valign="top" class="content">
```

header.inc

```

<html>
<head>
<title>Widgets International</title>
<style type="text/css">
  body {background-color: #ffffff;}

  .content {
background-color: #f0f0f0;
padding-top: 10px; padding-right: 10px; padding-bottom: 10px; padding-left: 10px;
margin-top: 10px; margin-right: 10px; margin-bottom: 10px; margin-left: 10px;
}

  a:link {color: #005577; text-decoration: none;}
  a:visited {color: #005577; text-decoration: none;}
  a:hover {color: #bcbcbc; text-decoration: none;}

  td {
font-family: verdana, arial, helvetica, sans-serif; font-size: 13px;
vertical-align: top;
}

  .title {
font-size: 44px; font-weight: normal; color: #ffffff;
margin-top: 5px; margin-bottom: 5px; margin-left: 20px;
padding-top: 5px; padding-bottom: 5px; padding-left: 20px;
}

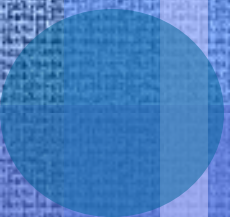
  h2 {font-size: 20px; font-weight: normal; color: #005577;}
  h6 {font-size: 9px; font-weight: normal; color: #aaaaaa;}

</style>
</head>

<body>
<table width="70%" border="0" cellspacing="10" cellpadding="0" align="center">
  <tr>
    <td colspan="2" bgcolor="#005577"><p class="title">Widgets International</p></td></tr>
    <tr>
      <td valign="top">
        <b><a href="addnews.php">News</a>
        <br><a href="addproduct.php">Products</a>
        <br><a href="addurl.php">Links</a>
        <br><a href="widgets.php">Home</a>
        <br><a href="adminlogin.php">Admin</a></b></td>
      <td valign="top" class="content">

```

adminheader.inc



Notepad++ - C:\1-DavidStuff\niu-classes\coms469\spring2006\phpfiles\contentmanage\version1\fo...

File Edit Search View Format Language Settings Macro Run Plugins ?

footer.inc

```
</td>
</tr>

<tr>
  <td> &nbsp;</td>
  <td align="center"><h6>&copy; 2013 Widgets International</h6></td>
</tr>
</table>
</body>
</html>
```

footer.inc

Today

- Objective
 - Continue CMS example
 - Type of site for project #2
- Topics
 - Files and directories
 - Content Management



Working with Files & Directories

- File Permissions/Privileges
 - Privileges
 - Determine what operations different users can perform on a particular file
 - Determine what operations PHP can perform on an individual file
 - UNIX (server OS) allow for three operations
 - Read – **r**
 - Write – **w**
 - Execute – **x**

Working with Files & Directories

- Sequence
 - In UNIX, permissions are always specified in the order **r w x**
 - If a letter is missing from the sequence and replaced by a hyphen, that means the file in question does not permit the operation
 - rW-
 - r-X
 - r--

Working with Files & Directories

- Specification
 - Permissions are specified as three groups of three characters – Three triads
 - First Triad = Privileges of the file owner
 - Second Triad = Privileges of the group
 - Third Triad = Privileges of other users
 - Example = `rwXr-Xr--`
 - Owner of the file can read, write & execute – `rwX`
 - The group can read and execute – `r-X`
 - Other users can read – `r--`

Working with Files & Directories

- Changing Permissions
 - The file owner can change the permissions on a file; this will be necessary to get PHP to write to and read from files
 - In UNIX you change permissions by using the `chmod` command
 - Remember the UNIX operating system uses a command-line interface
 - Issue commands at the UNIX prompt instead of pointing and clicking

Working with Files & Directories

- Changing Permissions

- Each privilege has a numeric value – *Octal Digits*
 - $r = 4$
 - $w = 2$
 - $x = 1$
- To specify permissions in octal digits you calculate the sum of each triad
 - $rwX = 7$
 - $r-x = 5$
 - $r-- = 4$
- Example `rwXr-xr--` will be octal `754`

Working with Files & Directories

- Changing Permissions
 - Changing from the UNIX Shell
 - Use `chmod` followed by the privileges in octal digits and the file name
 - i.e. `chmod 744 textinfo`
 - Commercial web hosts usually provide a GUI permissions feature with their control panel

formmail.php

Mode	User	Group	World
Read	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Write	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Execute	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Permission	<input type="text" value="7"/>	<input type="text" value="4"/>	<input type="text" value="4"/>

Change

FileZilla - Connected to www.comm.niu.edu

File Edit Transfer View Queue Server Help

Address: User: Password: Port:

```

Command:
Response: 257 "/gunkel/version1" is current directory.
Command: PWD
Response: 257 "/gunkel/version1" is current directory.
Command: REST 0
Response: 350 Restarting at byte offset 0. Send RETR to initiate transfer.
Command: PWD
Response: 257 "/gunkel/version1" is current directory.
  
```

Local Site: Remote Site:

Filename	Filesize	Filetype	Last Modified
..			
1-DavidStuff		File Folder	3/31/2006 7:03..
Active Worlds		File Folder	3/16/2004 15:0..
Adobe		File Folder	9/5/2003 21:37..
AHGHome		File Folder	2/3/2006 13:52..
ANNWeb		File Folder	9/17/2005 9:02..
ANNWork		File Folder	10/19/2005 18:..
ART Scans		File Folder	3/22/2005 20:1..
CKBrowser		File Folder	2/27/2004 20:5..
DELL		File Folder	9/7/2003 15:41..
designbutcher		File Folder	1/14/2006 11:3..
DIGIPIX		File Folder	1/19/2004 23:3..

Filename	Filesize	Filetype	Date	Time
content3-2.php	2063	Microsoft Pi...	11/29/2004	
content3-3.php	1871	Microsoft Pi...	11/29/2004	
data.txt	741	Text Docu...	03/19/2006	20:49
errors.txt	7430	Text Docu...	03/29/2006	19:28
header.inc	92	INC File	11/29/2004	
links.php	597	Microsoft Pi...	11/29/2004	
news.php	590	Microsoft Pi...	11/29/2004	
page1.php	127	Microsoft Pi...	11/29/2004	
page10-1.html	354	HTML Docu...	11/29/2004	
page10-1.php	371	Microsoft Pi...	11/29/2004	
page11-1.php	1825	Microsoft Pi...	11/29/2004	
page11-1alt.php	1872	Microsoft Pi...	11/29/2004	

38 folders and 59 files with 2946775245 bytes. Selected 1 file with 741 bytes.

Local Filename	Size	Direction	Remote Filename	Host	Status
C:\1-DavidStuff\webresources\phpfile...	3796	-->	/gunkel/s05/mendlik/registration/html/...	www.comm.niu.e...	
C:\1-DavidStuff\webresources\phpfile...	840	-->	/gunkel/s05/mendlik/registration/html/...	www.comm.niu.e...	
C:\1-DavidStuff\webresources\phpfile...	2865	-->	/gunkel/s05/mendlik/registration/html/...	www.comm.niu.e...	
C:\1-DavidStuff\webresources\phpfile...	3131	-->	/gunkel/s05/mendlik/registration/html/...	www.comm.niu.e...	
C:\1-DavidStuff\webresources\phpfile...	6148	-->	/gunkel/s05/mendlik/registration/html/i...	www.comm.niu.e...	
C:\1-DavidStuff\webresources\phpfile...	328	-->	/gunkel/s05/mendlik/registration/html/i...	www.comm.niu.e...	
C:\1-DavidStuff\webresources\phpfile...	767	-->	/gunkel/s05/mendlik/registration/html/i...	www.comm.niu.e...	

Ready Queue: 47 KB

FileZilla - Connected to www.comm.niu.edu

File Edit Transfer View Queue Server Help

Address: www.comm.niu.edu User: dgunkel Password: Port: 21 Quickconnect

Response: 150 Opening ASCII mode data connection for /bin/ls (1189 bytes).
 Response: 226 Transfer successful.
 Status: Directory listing successful
 Command: PWD
 Response: 257 "/gunkel/version1" is current directory.
 Command: PWD
 Response: 257 "/gunkel/version1" is current directory.

Local Site: C:\ Remote Site: /gunkel/

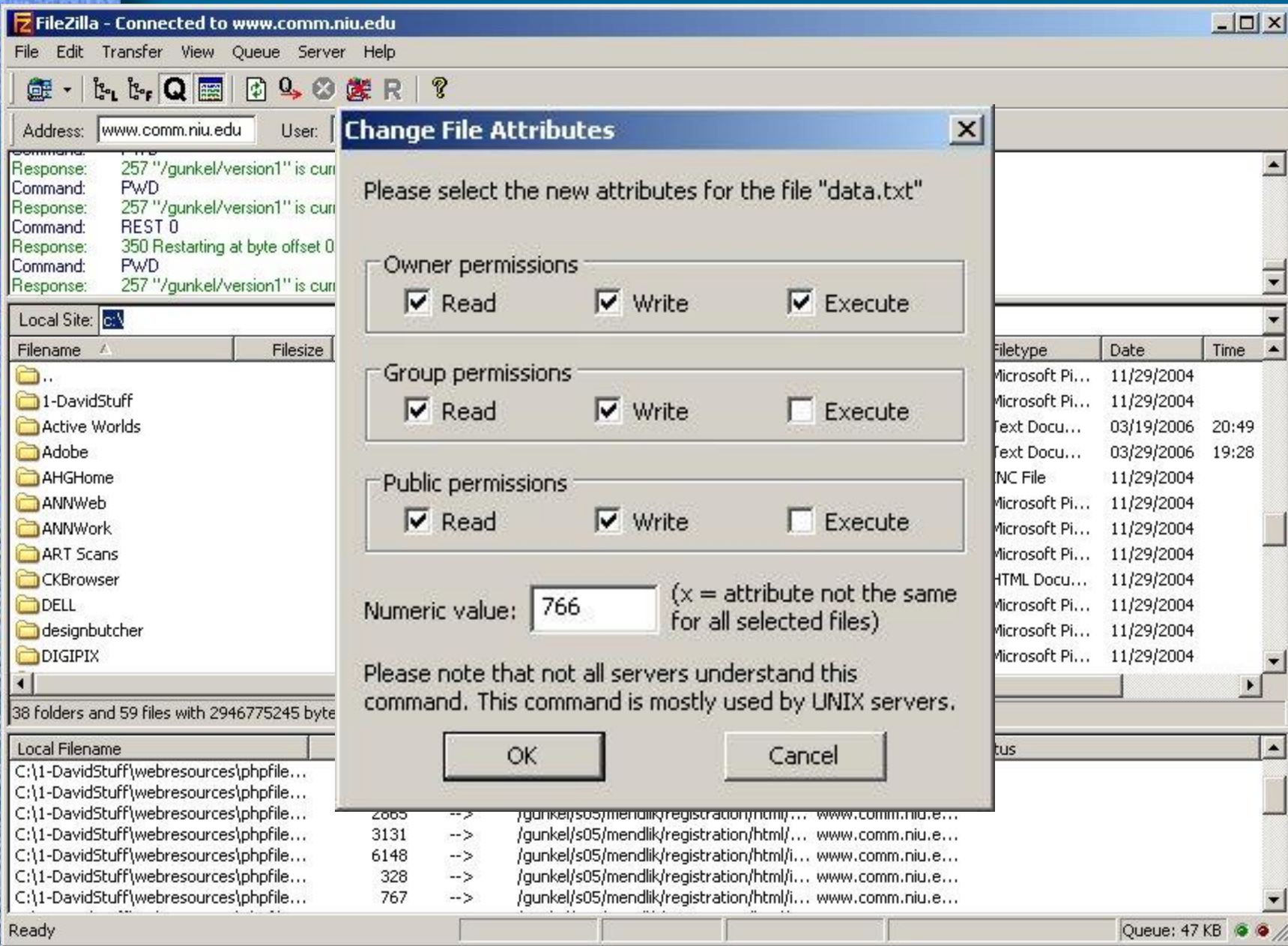
Filename	Filesize	Filetype	Last Modified
..			
1-DavidStuff		File Folder	3/31/2006 7:03..
Active Worlds		File Folder	3/16/2004 15:0..
Adobe		File Folder	9/5/2003 21:37..
AHGHome		File Folder	2/3/2006 13:52..
ANNWeb		File Folder	9/17/2005 9:02..
ANNWork		File Folder	10/19/2005 18:..
ART Scans		File Folder	3/22/2005 20:1..
CKBrowser		File Folder	2/27/2004 20:5..
DELL		File Folder	9/7/2003 15:41..
designbutcher		File Folder	1/14/2006 11:3..
DIGIPIX		File Folder	1/19/2004 23:3..

Filename	Filesize	Filetype	Date	Time
content3-2.php	2063	Microsoft Pi...	11/29/2004	
content3-3.php	1871	Microsoft Pi...	11/29/2004	
data.txt	741	Text Docu...	03/19/2006	20:49
err	7430	Text Docu...	03/29/2006	19:28
he	92	INC File	11/29/2004	
link	597	Microsoft Pi...	11/29/2004	
ne	590	Microsoft Pi...	11/29/2004	
pa	127	Microsoft Pi...	11/29/2004	
pa	354	HTML Docu...	11/29/2004	
pa	371	Microsoft Pi...	11/29/2004	
pa	1825	Microsoft Pi...	11/29/2004	
pa	1872	Microsoft Pi...	11/29/2004	

38 folders and 59 files with 2946775245 bytes. Selected 1 file with 741 bytes.

Local Filename	Size	Direction	Remote Filename	Host	Status
C:\1-DavidStuff\webresources\phpfile...	3796	-->	/gunkel/s05/mendlik/registration/html/...	www.comm.niu.e...	
C:\1-DavidStuff\webresources\phpfile...	840	-->	/gunkel/s05/mendlik/registration/html/...	www.comm.niu.e...	
C:\1-DavidStuff\webresources\phpfile...	2865	-->	/gunkel/s05/mendlik/registration/html/...	www.comm.niu.e...	
C:\1-DavidStuff\webresources\phpfile...	3131	-->	/gunkel/s05/mendlik/registration/html/...	www.comm.niu.e...	
C:\1-DavidStuff\webresources\phpfile...	6148	-->	/gunkel/s05/mendlik/registration/html/i...	www.comm.niu.e...	
C:\1-DavidStuff\webresources\phpfile...	328	-->	/gunkel/s05/mendlik/registration/html/i...	www.comm.niu.e...	
C:\1-DavidStuff\webresources\phpfile...	767	-->	/gunkel/s05/mendlik/registration/html/i...	www.comm.niu.e...	

Ready Queue: 47 KB



FileZilla - Connected to www.comm.niu.edu

File Edit Transfer View Queue Server Help



Address: www.comm.niu.edu User:

Response: 257 "/gunkel/version1" is cur
Command: PWD
Response: 257 "/gunkel/version1" is cur
Command: REST 0
Response: 350 Restarting at byte offset 0
Command: PWD
Response: 257 "/gunkel/version1" is cur

Local Site: c:\

- | Filename | Filesize |
|---------------|----------|
| .. | |
| 1-DavidStuff | |
| Active Worlds | |
| Adobe | |
| AHGHome | |
| ANNWeb | |
| ANNWork | |
| ART Scans | |
| CKBrowser | |
| DELL | |
| designbutcher | |
| DIGIPIX | |

38 folders and 59 files with 2946775245 byte

Local Filename
C:\1-DavidStuff\webresources\phpfile...
C:\1-DavidStuff\webresources\phpfile...
C:\1-DavidStuff\webresources\phpfile...
C:\1-DavidStuff\webresources\phpfile...
C:\1-DavidStuff\webresources\phpfile...
C:\1-DavidStuff\webresources\phpfile...

Change File Attributes

Please select the new attributes for the file "data.txt"

Owner permissions

Read Write Execute

Group permissions

Read Write Execute

Public permissions

Read Write Execute

Numeric value: (x = attribute not the same for all selected files)

Please note that not all servers understand this command. This command is mostly used by UNIX servers.

OK

Cancel

Filetype	Date	Time
Microsoft Pi...	11/29/2004	
Microsoft Pi...	11/29/2004	
Text Docu...	03/19/2006	20:49
Text Docu...	03/29/2006	19:28
NC File	11/29/2004	
Microsoft Pi...	11/29/2004	
Microsoft Pi...	11/29/2004	
Microsoft Pi...	11/29/2004	
HTML Docu...	11/29/2004	
Microsoft Pi...	11/29/2004	
Microsoft Pi...	11/29/2004	
Microsoft Pi...	11/29/2004	

Working with Files & Directories

- PHP functions
 - PHP has a number of functions to access and manipulate files
 - In order for PHP to be able to read, write, or execute a file, the file must have the proper permissions or privileges associated with it.
 - i.e. If you want users to enter data that is stored in a file, that file needs to have read and write privileges
 - Privileges specify the extent to which PHP is permitted to manipulate information stored in a file
 - Most of the files we will be accessing and using will be text files, but these functions apply to any kind of file

Working with Files & Directories

- Obtaining a File's Attributes
 - PHP provides several functions that let you obtain information describing a file
 - Some PHP functions to obtain file attributes

<code>file_exists()</code>	Returns true if file exists
<code>fileatime()</code>	Returns file's access time
<code>filemtime()</code>	Returns file's modify time
<code>fileperms()</code>	Returns the file's permissions
<code>filesize()</code>	Returns file size in bytes
<code>is_readable()</code>	Returns true if file is readable
<code>is_writable()</code>	Returns true if file is writable

- i.e. `file_exists($filename)`

Working with Files & Directories

- Changing File Privileges – `chmod()`
 - `chmod()` function
 - Takes two arguments – filename and mode
 - `chmod(filename, mode)`
 - Mode is expressed in octal digits prefixed by a zero
 - Example
 - `chmod("text.txt", 0744)`
 - Changes the permissions on `text.txt` to `rwxr--r--`

Working with Files & Directories

- Opening a file – `fopen()`
 - Before you can read or write to a file, you need to open it
 - `fopen(filename, mode)`
 - Example `$fh = fopen("data.txt", "r");`

Opens the file "data.txt" for reading
 - Values - `fopen()` returns a value
 - Return `false`, if PHP was unable to open the file
 - Return an integer called a *file handle*, if PHP was able to open the file

Working with Files & Directories

- Opening a file – `fopen()`

Mode	Read	Write	Create	Truncate	Pointer
“r”	x				beginning
“r+”	x	x			beginning
“w”		x	x	x	beginning
“w+”	x	x	x	x	beginning
“a”		x	x		end
“a+”	x	x	x		end

- Read & write = read from or write to the file
- Create = make the file, if it does not exist
- Truncate = erase the contents of the file
- Pointer = indicates the byte location within the file at which the next operation (read or write) will occur

Working with Files & Directories

- Closing a file
 - Close file when you are done with it
 - `fclose(filehandle)`

```
$fh = fopen("data.txt", "r");  
  
fclose($fh);
```

Working with Files & Directories

- Verifying Completion of a File Operation
 - File operations can fail for a variety of reasons
 - Consequently, it's not a bad idea to verify that an operation worked

```
$fh = fopen("data.txt", "r");  
if (!$fh)  
{  
    die("Failed to open file data.txt");  
}
```

```
$fh = fopen("data.txt", "r");  
OR die("Failed to open file data.txt");
```

The die() function terminates fopen() function and prints an error message

Working with Files & Directories

- Reading a file

- file_get_contents(filename)

- Reads the entire contents of the file into a string variable

```
$contents = file_get_contents("data.txt") OR die('Cannot read file');  
echo $contents;
```

- file(filename)

- Reads the entire contents of the file into an array
 - Use a looping statement to extract individual elements

```
$contents = file("data.txt") OR die('Cannot read file');  
foreach ($contents as $line)  
{  
    echo $line;  
}
```

Working with Files & Directories

- Writing to a File
 - `fwrite(filehandle, data)`
 - *filehandle* = the value returned by `fopen()`
 - *data* = a string value to be written to the file
 - Example

```
$fh = fopen("stuff.txt", "a");
if (!$fh)
{
    die("Failed to open the file stuff.txt");
}
$ok = fwrite($fh, "This is good stuff. \n");
echo "<br>Results of write: $ok";
fclose($fh);
```

Working with Files & Directories

- Writing to a File

- `fwrite(filehandle, data)`

- `filehandle` = the value returned by `fopen()`
- `data` = a string value to be written to the file

- Example

```
$fh = fopen("stuff.txt", "a");
if (!$fh)
{
    die("Failed to open the file stuff.txt");
}
$ok = fwrite($fh, "This is good stuff. \n");
echo "<br>Results of write: $ok";
fclose($fh);
```

1) In this example, one line of text "This is good stuff" is written to the file "stuff.txt" by using the `fwrite()` function.

Working with Files & Directories

- Writing to a File

- `fwrite(filehandle, data)`

- *filehandle* = the value returned by `fopen()`
- *data* = a string value to be written to the file

- Example

```
$fh = fopen("stuff.txt", "a");  
if (!$fh)  
{  
    die("Failed to open the file stuff.txt");  
}  
$ok = fwrite($fh, "This is good stuff. \n");  
echo "<br>Results of write: $ok";  
fclose($fh);
```

2) Because the file is opened using mode "a", the data is appended to the file. That is, the new data is written after any existing data.

Working with Files & Directories

- Writing to a File

- `fwrite(filehandle, data)`

- *filehandle* = the value returned by `fopen()`
- *data* = a string value to be written to the file

- Example

```
$fh = fopen("stuff.txt", "a");
if (!$fh)
{
    die("Failed to open the file stuff.txt");
}
$ok = fwrite($fh, "This is good stuff. \n");
echo "<br>Results of write: $ok";
fclose($fh);
```

3) The `\n` at the end of the text string is a termination character. It indicates that the line is ended. This allows for PHP to read the file line by line.

Working with Files & Directories

- Other PHP file functions
 - `copy(source, destination)`
 - `rename(oldname, newname)`
 - `unlink(filename)`
 - `rewind(filehandle)`
 - `fseek(filehandle, offset)`
 - `ftell(filehandle)`

Working with Files & Directories

- PHP also includes functions to access and manipulate Directories
- Directories are groupings of files (also called folders).
- Approach
 - Manipulating Directories is less common than manipulating files.
 - It is good to know the range of available PHP functions, but you probably won't use these in the short term

Working with Files & Directories

- Get and Change the working Directory
 - `getcwd()` – returns the name of the current directory
 - `chdir(dirname)` – changes the current directory to *dirname*
- Manipulating paths
 - `dirname(path)` – takes the path to a specified file and returns all but the file name
 - `basename(path)` – takes the path to a specified file and returns the file name
 - `pathinfo()` – returns an array that includes three elements: *dirname*, *basename*, and *file extension*

Working with Files & Directories

- Reading Directory Contents
 - `opendir()` – makes dir. available for reading
 - `readdir()` – reads a directory entry
 - `closedir()` – closes a directory
- Creating & Removing (deleting) Directories
 - `mkdir(dirname, mode)`
 - `rmdir(dirname)`

Application

- We now know enough about PHP to create an actual application
- Content Management Site
 - A web site that permits easy update of information without having to re-write HTML
 - Basic Elements
 - Administrator access that permits the writing of new information to files
 - User access to dynamically generated content

Application

- Structure
 - Administrator side
 - Page Login to protect administrator pages
 - writeinfo() & handleform() functions to update the individual files that contain content
 - adminheader.inc to create admin page layout
 - User side
 - readinfo() function to extract data from files
 - header.inc & footer.inc to control page layout

Content Management Site



widgets.php



adminlogin.php



authentication.php



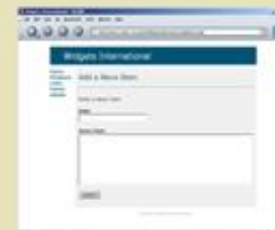
header.inc



news.php



news.txt



addnews.php



adminheader.inc



footer.inc



products.php



products.txt



addproduct.php



footer.inc



links.php



links.txt



addurl.php

header.inc

```
header - Notepad
File Edit Format View Help
<html>
<head>
<title>Widgets International</title>
<style type="text/css">
body {Background-color: #ffffff;}

.content {
background-color: #f0f0f0;
padding-top: 10px; padding-right: 10px; padding-bottom: 10px; padding-left: 10px; margin-top: 10px; margin-right: 10px; margin-bottom: 10px; margin-left: 10px;
}

a:link {color: #005577; text-decoration: none;}
a:visited {color: #005577; text-decoration: none;}
a:hover {color: #bcbcbc; text-decoration: none;}

td {
font-family: verdana, arial, helvetica, sans-serif; font-size: 13px; vertical-align: top;
}

.title {
font-size: 24px; font-weight: normal; color: #ffffff; margin-top: 5px; margin-bottom: 5px; margin-left: 20px; padding-top: 5px; padding-bottom: 5px;
}

h2 {font-size: 20px; font-weight: normal;

```

Widgets International - Mozilla
http://www.com11.niu.edu:8080/gunkel/version1/news.php

Widgets International

What's New and Happening

7 January 2003
Widgets International is successful in outsourcing all US jobs. All Widgets International's manufacturing now takes place *off-shore*, where we can exploit the local labor force and pollute the environment without impunity.

30 March 2004
Widgets International names a new CIO. Iggy Pop will take over operations of the Widgets International information network in May of 2004. Mr. Pop comes to Widgets with over 25 years of network management, data mining, and pointless exploitation of his own body. Widgets International welcomes Mr. Pop to its staff and invites anyone who has comments about this appointment to write it on a piece of paper and then stick it up their ass. 31 March 2004

31 March 2004
blah blah glah geik tisdkwie

1 April 2004
Today Widgets successfully landed an amoeba on the moon.

1 April 2004
Today we invented the name *Design Butcher*. This is title of

```
news - Notepad
File Edit Format View Help
7 January 2003 Widgets International
outsourcing all US jobs. All Widgets
International's manufacturing now takes
place off-shore, where we can exploit
the local labor force and pollute the
environment without impunity.
30 March 2004 Widgets International
names a new CIO. Iggy Pop will take
over operations of the Widgets
International information network
in May of 2004. Mr. Pop comes to
Widgets with over 25 years of
network management, data mining,
and pointless exploitation of his
own body. Widgets International
welcomes Mr. Pop to its staff and
invites anyone who has comments
about this appointment to write it
on a piece of paper and then stick
it up their ass.
```

news.txt

```
news - Notepad
File Edit Format View Help
<?php
include "header.inc";

function readinfo()
{
    $open = fopen("news.txt", "r");
    if ($open)
    {
        echo "<h2>What's New and Happening</h2>";
        echo "<hr>";
        $data = file("news.txt");
        for ($n = 0; $n < count($data); $n++)
        {
            $getline = explode("\t", $data[$n]);
            echo ("<p><b>$getline[0]</b><br>$getline[1]</p>");
        }
        fclose ($open);
    }
    else
    {
        echo "<br>Processing Error. Unable to access information.";
    }
}

readinfo();

include "footer.inc";

?>
```

news.php

```
footer - Notepad
File Edit Format View Help
<</td>
</tr>
<tr>
<td align="center"><h6>&copy; 2004 Widgets International</h6></td>
</tr>
</table>
</body>
</html>
```

footer.inc

Content Management

- Entirely different way to create, manage and deliver information over the web
 - Learning to think in this fashion is the main goal of working with PHP
 - PHP commands are relatively easy to learn and use. The real skill comes in using these commands to construct complex and dynamic web sites
- This is the kind application you should be producing for your second project
 - Project two should be organized around this sort of content management approach
 - Outcome – a flexible, responsive, and dynamic web site for your client

Content Management Site



widgets.php



adminlogin.php



authentication.php



header.inc



news.php



news.txt



addnews.php



adminheader.inc



footer.inc



products.php



products.txt



addproduct.php



footer.inc



links.php



links.txt



addurl.php

Content Management Site



widgets.php



adminlogin.php



authentication.php



header.inc



news.php



news.txt



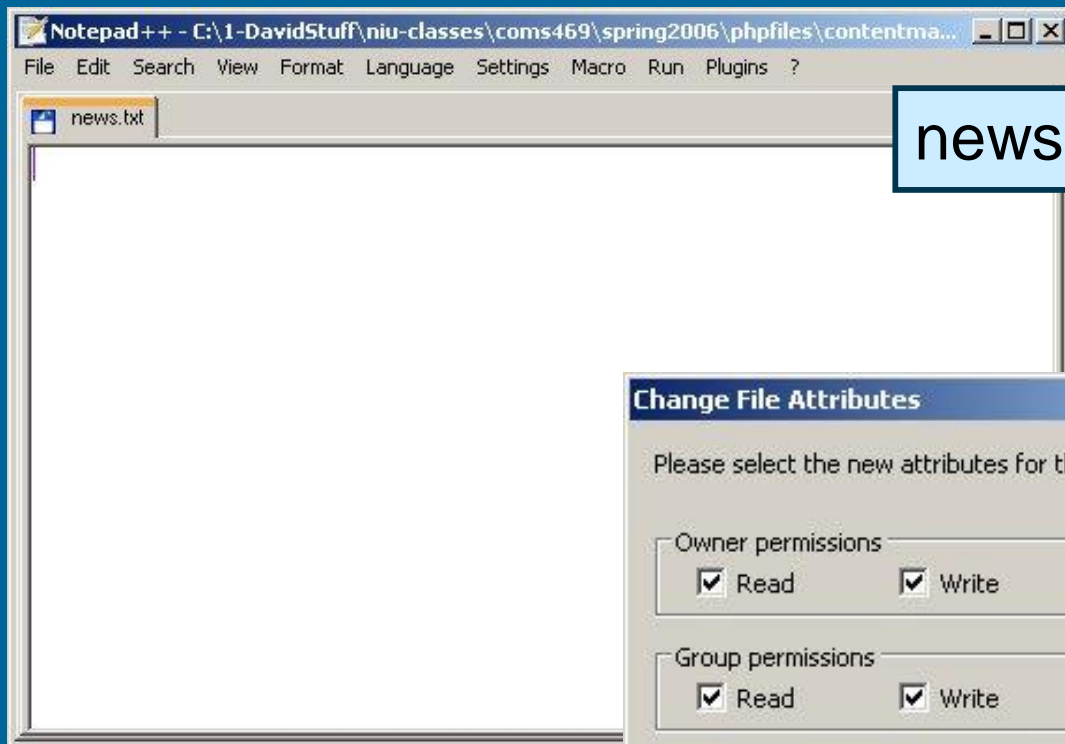
addnews.php



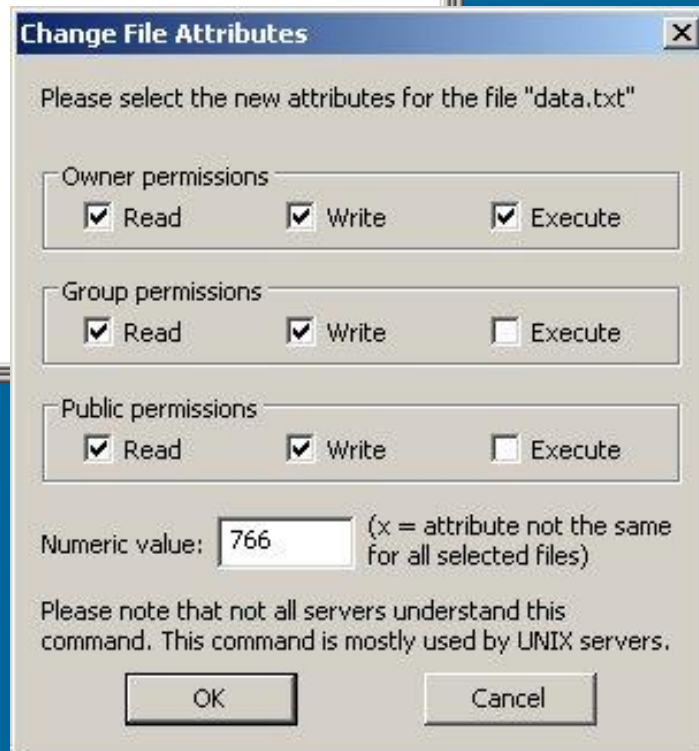
adminheader.inc



footer.inc



news.txt



news.php

```
1 <?php
2 include "header.inc";
3 function readinfo()
4 {
5     $open = fopen("news.txt", "r");
6     if ($open)
7     {
8         echo "<h2>What's New and Happening</h2>";
9         echo "<hr>";
10        $data = file ("news.txt");
11        for ($n = 0; $n < count($data); $n++)
12        {
13            $getline = explode("\t", $data[$n]);
14            echo ("<p><b>$getline[0]</b><br>$getline[1]</p>");
15        }
16        fclose($open);
17    }
18    else
19    {
20        echo "<br>Processing Error.  Unable to access information.";
21    }
22 }
23 readinfo();
24 include "footer.inc";
25 ?>
```

```
1 <?php
2 include "header.inc";
3 function readinfo()
4 {
5     $open = fopen("news.txt", "r");
6     if ($open)
7     {
8         echo "<h2>What's New and Happening</h2>";
9         echo "<hr>";
10        $data = file ("news.txt");
11        for ($n = 0; $n < count($data); $n++)
12        {
13            $getline = explode("\t", $data[$n]);
14            echo ("<p><b>$getline[0]</b><br>$getline[1]</p>");
15        }
16        fclose($open);
17    }
18    else
19    {
20        echo "<br>Processing Error.  Unable to access information.";
21    }
22 }
23 readinfo();
24 include "footer.inc";
25 ?>
```

Include the header.inc

```
1 <?php
2 include "header.inc";
3 function readinfo()
4 {
5     $open = fopen("news.txt", "r");
6     if ($open)
7     {
8         echo "
9         echo "
10        $data
11        for ($
12        {
13            $g
14            ec
15        }
16        fclose($open);
17    }
18    else
19    {
20        echo "<br>Processing Error. Unable to access information.";
21    }
22 }
23 readinfo();
24 include "footer.inc";
25 ?>
```

Define a function readinfo() which will extract the information stored in the file news.txt

Open a connection to the file by assigning the value of the fopen() function to the variable \$open.

The fopen() function takes two arguments, the filename and "r" which indicates the mode read and uses the pointer beginning.


```
1 <?php
2 include "header.inc";
3 function readinfo()
4 {
5     $open = fopen("news.txt", "r");
6     if ($open)
7     {
8         echo "<h2>What's New and Happening</h2>";
9         echo "<hr>";
10        $data = file ("news.txt");
11        for ($n = 0; $n < count($data); $n++)
12            {
13                $getl...
14                echo
15            }
16        fclose($open);
17    }
18    else
19    {
20        echo "<br>";
21    }
22 }
23 readinfo();
24 include "footer.inc";
25 ?>
```

Use a conditional statement to test whether the file was successfully opened.

If the file was opened, then echo a heading and a horizontal rule `<hr>`

Apply the `file()` function to the file `news.txt` and to assign the results to the variable `$data`. The function `file()` automatically creates an array, so `$data` will be an array variable.

```
1 <?php
```

```
2 i The for statement loops through the information stored in the $data array and
3 f writes this information into a new array called $getline.
4 {
```

```
5 Within the loop, use the explode() function to create the individual $getline
6 elements from the $data array by separating out the two components based
7 upon the location of the tab. Using this new array variable, you can then echo
8 each element separately - $getline[0] and $getline[1]
9
```

```
10 $data = file ("news.txt");
11 for ($n = 0; $n < count($data); $n++)
12 {
13     $getline = explode("\t", $data[$n]);
14     echo ("

<b>$getline[0]</b><br>$getline[1]</p>");
15 }
16 fclose($open);
17 }


```

```
18 else
```

```
19 {
20     echo " End the first part of the conditional by closing the file with the
21         fclose() function.
22 }
```

```
22 }
```

```
23 readinfo();
```

```
24 include "footer.inc";
```

```
25 ?>
```

```
1 <?php
2 include "header.inc";
3 function readinfo()
4 {
5     $open = fopen("news.txt", "r");
6     if ($open)
7     {
8         echo "<h2>What's New and Happening</h2>";
9         echo "<hr>";
10        $data = file ("news.txt");
11        for ($n = 0; $n < count($data); $n++)
12        {
13            $getline = explode("\t", $data[$n]);
14            echo ("<p><b>$getline[0]</b><");
15        }
16        fclose ($open);
17    }
18    else
19    {
20        echo "<br>Processing Error.  Unable to access information.";
21    }
22 }
23 readinfo ();
24 include "footer.inc";
25 ?>
```

If the file did not open, echo an error message.

```
1 <?php
2 include "header.inc";
3 function readinfo()
4 {
5     $open = fopen("news.txt", "r");
6     if ($open)
7     {
8         echo "<h2>What's New and Happening</h2>";
9         echo "<hr>";
10        $data = file ("news.txt");
11        for ($n = 0; $n < count($data); $n++)
12        {
13            $getline = explode("\t", $data[$n]);
14            echo ("<p><b>$getline[0]</b><br>$getline[1]</p>");
15        }
16        fclose($open);
17    }
18    else
19    {
20        echo "<br>Processing Error.  Unable to access information.";
21    }
22 }
23 readinfo();
24 include "footer.inc";
25 ?>
```

Call the function readinfo()
and include the footer.

news.php

```
1 <?php
2 include "header.inc";
3 function readinfo()
4 {
5     $open = fopen("news.txt", "r");
6     if ($open)
7     {
8         echo "<h2>What's New and Happening</h2>";
9         echo "<hr>";
10        $data = file ("news.txt");
11        for ($n = 0; $n < count($data); $n++)
12        {
13            $getline = explode("\t", $data[$n]);
14            echo ("<p><b>$getline[0]</b><br>$getline[1]</p>");
15        }
16        fclose($open);
17    }
18    else
19    {
20        echo "<br>Processing Error.  Unable to access information.";
21    }
22 }
23 readinfo();
24 include "footer.inc";
25 ?>
```

```
1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
5     return false;
6 }
7 $array = $_POST['array'];
8 include "adminheader.inc";
9 echo "<h2>Add a News Item</h2><hr>";
10 function writeinfo($date, $news)
11 {
12     $open = fopen("news.txt", "a");
13     if ($open)
14     {
15         fwrite ($open, "$date\t$new\n");
16         fclose ($open);
17         $worked = TRUE;
18     }
19     else
20     {
21         $worked = FALSE;
22     }
23     return $worked;
24 }
25 if ($array["date"])
26 {
27     $callfunction = writeinfo($array["date"], $array["news"]);
28     if ($callfunction)
29     {
30         echo "<br>The News Item has been added to the data file.";
31     }
32     else
33     {
34         echo "<br>Your submission was not processed due to a system error.";
35     }
36 }
37 else
38 {
39     echo "<br>Enter a News Item";
40 }
41 ?>
42 <form method="post" action="addnews.php">
43 <br><b>Date</b>
44 <br><input type="text" name="array[date]" size="30">
45 <br><br><b>News Item</b>
46 <br><textarea name="array[news]" rows="8" cols="70"> </textarea>
47 <p><input type="submit" name="submit" value="submit"></p>
48 </form>
49 <?php include "footer.inc"; ?>
```

addnews.php

```

1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
5     return false;
6 }
7 $array = $_POST['array'];
8 include "adminheader.inc";
9 echo "<h2>Add a News Item</h2><br>";
10 function writeinfo($date, $news)
11 {
12     $open = fopen("news.txt", "a");
13     if ($open)
14     {
15         fwrite ($open, "$date\t$new\n");
16         fclose ($open);
17         $worked = TRUE;
18     }
19     else
20     {
21         $worked = FALSE;
22     }
23     return $worked;
24 }
25 if ($array["date"])
26 {
27     $callfunction = writeinfo($array["date"], $array["news"]);
28     if ($callfunction)
29     {
30         echo "<br>The News Item has been added to the data file.";
31     }
32     else
33     {
34         echo "<br>Your submission was not processed due to a system error.";
35     }
36 }
37 else
38 {
39     echo "<br>Enter a News Item";
40 }
41 ?>

```

Check for authentication.

If the username element of the COOKIE super-global array is empty (meaning that the user did not login as administrator), then echo an access denied message and return false so that you exit the script.

If the user did a successful authentication, then the username is not empty and this part of the script does nothing.

```

1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
5     return false;
6 }
7 $array = $_POST['array'];
8 include "adminheader.inc";
9 echo "<h2>Add a News Item</h2><hr>";
10 function writeinfo($date, $news)
11 {
12     $open = fopen("news.txt", "a");
13     if ($open)
14     {
15         fwrite ($open, "$date\t$new\n");
16         fclose ($open);
17         $worked = TRUE;
18     }
19     else
20     {
21         $worked = FALSE;
22     }
23     return $worked;
24 }
25 if ($array["date"])
26 {
27     $callfunction = writeinfo($array["date"], $array["news"]);
28     if ($callfunction)
29     {
30         echo "<br>The News Item has been added to the data file.";
31     }
32     else
33     {
34         echo "<br>Your submission was not processed due to a system error.";
35     }
36 }
37 else
38 {
39     echo "<br>Enter a News Item";
40 }
41 ?>

```

Initialize the array variable called \$array
 Include the adminheader.inc file
 echo a heading for the page


```

1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
5     return false;
6 }
7 $array = $_POST['array'];
8 include "adminheader.inc";
9 echo "<h2>Add a News Item</h2><hr>";
10 function writeinfo($date, $news)
11 {
12     $open = fopen("news.txt", "a");
13     if ($open)
14     {
15         fwrite ($open, "$date\t$new\n");
16         fclose ($open);
17         $worked = TRUE;
18     }
19     else
20     {
21         $worked = FALSE;
22     }
23     return $worked;
24 }
25 if ($array["date"])
26 {
27     $callfunction = writeinfo($array["date"], $array["news"]);
28     if ($callfunction)
29     {
30         echo "<br>The News Item has been added to the data file.";
31     }
32     else
33     {
34         echo "<br>Your submission was not processed due to a system error.";
35     }
36 }
37 else
38 {
39     echo "<br>Enter a News Item";
40 }
41 ?>

```

Define a function called writeinfo() which will take two arguments \$date and \$news

Open a connection to the file by using the fopen() function and assign the results to \$open (which is an array variable)

```

1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     echo "Access Denied - Return to <a href=
5     return false;
6 }
7 $array = $_POST['array'];
8 include "adminheader.inc";
9 echo "<h2>Add a News Item</h2><hr>";
10 function writeinfo($date, $news)
11 {
12     $open = fopen("news.txt", "a");
13     if ($open)
14     {
15         fwrite ($open, "$date\t$new\n");
16         fclose ($open);
17         $worked = TRUE;
18     }
19     else
20     {
21         $worked = FALSE;
22     }
23     return $worked;
24 }
25 if ($array["date"])
26 {
27     $callfunction = writeinfo($array["date"], $array["news"]);
28     if ($callfunction)
29     {
30         echo "<br>The News Item has been a
31     }
32     else
33     {
34         echo "<br>Your submission was not
35     }
36 }
37 else
38 {
39     echo "<br>Enter a News Item";
40 }
41 ?>

```

Use a conditional statement to test whether the file was successfully opened.

If the file was opened, then use the `fwrite()` function to write data to the file. This function takes two arguments, *filehandle* and *data*. The *filehandle* is `$open`. The *data* is a string composed of the values of `$date` and `$news`. The `\t` is the horizontal tab character and the `\n` is an end of line character.

Close the file by using the `fclose()` function and assign the value `TRUE` to the variable `$worked`.

If the file did not open, then set the variable `$worked` to `FALSE`.

After the conditional statement, return the value of the variable `$worked`.

```

1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
5     return false;
6 }
7 $array = $
8 include "a
9 echo "<h2>
10 function w
11 {
12     $open =
13     if ($ope
14     {
15         fwri
16         fcl
17         $wor
18     }
19     else
20     {
21         $wor
22     }
23     return $worked;
24 }

```

Include another conditional statement to call the function writeinfo()

If there is a date element in the \$array, then call the function writeinfo(), pass it the values of \$array["date"] and \$array["news"], and assign the result to the \$callfunction variable.

Use conditional statement to provide messages.

If the variable \$callfunction is true, then echo a message that indicate that the information has been received.

If the variable \$callfunction is not true, then echo an error message.

```

25     if ($array["date"])
26     {
27         $callfunction = writeinfo($array["date"], $array["news"]);
28         if ($callfunction)
29         {
30             echo "<br>The News Item has been added to the data file.";
31         }
32         else
33         {
34             echo "<br>Your submission was not processed due to a system error.";
35         }
36     }
37     else
38     {
39         echo "<br>Enter a News Item";
40     }
41 ?>

```

```

1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
5     return false;
6 }
7 $array = $_POST['array'];
8 include "adminheader.inc";
9 echo "<h2>Add a News Item</h2><hr>";
10 function writeinfo($date, $news)
11 {
12     $open = fopen("news.txt", "a");
13     if ($open)
14     {
15         fwrite ($open, "$date\t$news\n");
16         fclose ($open);
17         $worked = TRUE;
18     }
19     else
20     {
21         $worked = FALSE;
22     }
23     return $worked;
24 }
25 if ($array["date"])
26 {
27     $callfunction = writeinfo($array["date"], $array["news"]);
28     if ($callfunction)
29     {
30         echo "<br>The News Item has been added to the data file.";
31     }
32     else
33     {
34         echo "<br>Your submission was not processed due to a system error.";
35     }
36 }
37 else
38 {
39     echo "<br>Enter a News Item";
40 }
41 ?>

```

If there is not a date element in the \$array, then echo "Enter a news item."

```
1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
5     return false;
6 }
7 $array = $_POST['array'];
8 include "adminheader.inc";
9 echo "<h2>Add a News Item</h2><hr>";
10 function writeinfo($date, $news)
11 {
12     $open = fopen("news.txt", "a");
13     if ($open)
14     {
15         fwrite ($open, "$date\t$new\n");
16         fclose ($open);
17         $worked = TRUE;
18     }
19     else
20     {
21         $worked = FALSE;
22     }
23     return $worked;
24 }
25 if ($array["date"])
26 {
27     $callfunction = writeinfo($array["date"], $array["news"]);
28     if ($callfunction)
29     {
30         echo "<br>The News Item has been added to the data file.";
31     }
32     else
33     {
34         echo "<br>Your submission was not processed due to a system error.";
35     }
36 }
37 else
38 {
39     echo "<br>Enter a News Item";
40 }
41 ?>
42 <form method="post" action="addnews.php">
43 <br><b>Date</b>
44 <br><input type="text" name="array[date]" size="30">
45 <br><br><b>News Item</b>
46 <br><textarea name="array[news]" rows="8" cols="70"> </textarea>
47 <p><input type="submit" name="submit" value="submit"></p>
48 </form>
49 <?php include "footer.inc"; ?>
```

```
address.php x
1 <?php
2 if (empty($ COOKIE['username']))
3 {
4     echo
5     return
6 }
7 $array =
8 include "
9 echo "<h2
10 function
11 {
12     $open =
13     if ($op
14     {
15         fwr
16         fcl
17         $wc
18     }
19 }
20 class
```

HTML form. The form's action should be set to addnews.php, which means the form processes itself. The form has one type=text input for the Date and one textarea for the News. The name of the first input field is array[date]; the name of the second is array[news]. Include the footer.inc file

```
42 <form method="post" action="addnews.php">
43 <br><b>Date</b>
44 <br><input type="text" name="array[date]" size="30">
45 <br><br><b>News Item</b>
46 <br><textarea name="array[news]" rows="8" cols="70"> </textarea>
47 <p><input type="submit" name="submit" value="submit"></p>
48 </form>
49 <?php include "footer.inc"; ?>
```

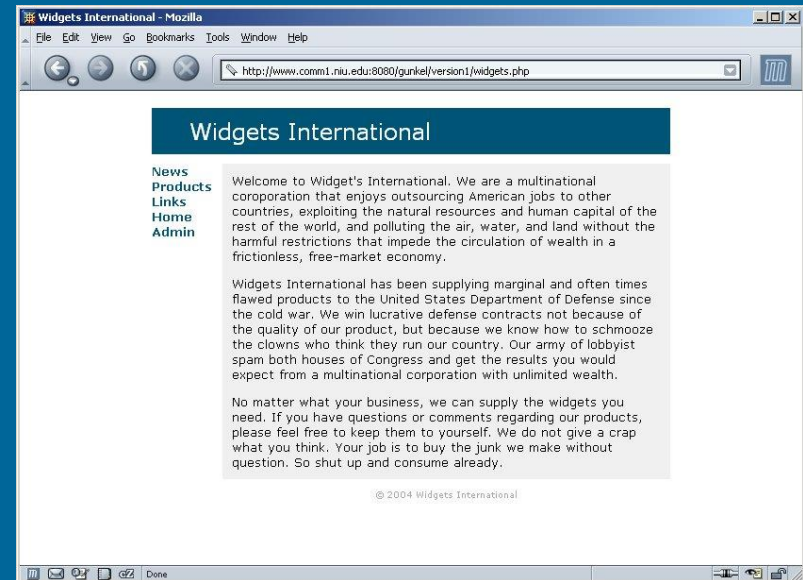
```
39     echo "<br>Enter a News Item";
40 }
41 ?>
42 <form method="post" action="addnews.php">
43 <br><b>Date</b>
44 <br><input type="text" name="array[date]" size="30">
45 <br><br><b>News Item</b>
46 <br><textarea name="array[news]" rows="8" cols="70"> </textarea>
47 <p><input type="submit" name="submit" value="submit"></p>
48 </form>
49 <?php include "footer.inc"; ?>
```

```
1 <?php
2 if (empty($_COOKIE['username']))
3 {
4     echo "Access Denied - Return to <a href='widgets.php'>Main Page</a>";
5     return false;
6 }
7 $array = $_POST['array'];
8 include "adminheader.inc";
9 echo "<h2>Add a News Item</h2><hr>";
10 function writeinfo($date, $news)
11 {
12     $open = fopen("news.txt", "a");
13     if ($open)
14     {
15         fwrite ($open, "$date\t$new\n");
16         fclose ($open);
17         $worked = TRUE;
18     }
19     else
20     {
21         $worked = FALSE;
22     }
23     return $worked;
24 }
25 if ($array["date"])
26 {
27     $callfunction = writeinfo($array["date"], $array["news"]);
28     if ($callfunction)
29     {
30         echo "<br>The News Item has been added to the data file.";
31     }
32     else
33     {
34         echo "<br>Your submission was not processed due to a system error.";
35     }
36 }
37 else
38 {
39     echo "<br>Enter a News Item";
40 }
41 ?>
42 <form method="post" action="addnews.php">
43 <br><b>Date</b>
44 <br><input type="text" name="array[date]" size="30">
45 <br><br><b>News Item</b>
46 <br><textarea name="array[news]" rows="8" cols="70"> </textarea>
47 <p><input type="submit" name="submit" value="submit"></p>
48 </form>
49 <?php include "footer.inc"; ?>
```

addnews.php

Content Management

- Upload all 9 files to the server
 - widgets.php
 - adminlogin.php
 - authentication.php
 - news.php
 - addnews.php
 - header.inc
 - adminheader.inc
 - footer.inc
 - news.txt



widgets.php

Content Management Site



widgets.php



adminlogin.php



authentication.php



news.php



news.txt



addnews.php



header.inc



adminheader.inc



footer.inc

Content Management Site



widgets.php



adminlogin.php



authentication.php



news.php



news.txt



addnews.php



header.inc



adminheader.inc



products.php



products.txt



addproduct.php



footer.inc



footer.inc



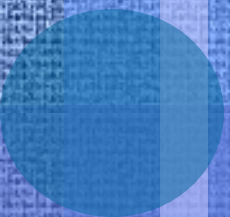
links.php



links.txt



addurl.php



Preview

- PHP & MySQL
- Read
 - Ch. 7 - Working with Databases and SQL (pp. 185-247)
 - Ch. 9 - Working with Cookies, Sessions and Headers (pp. 301-313)