WRITE TO A FILE

t is often necessary to access text files stored on the Web server from within a PHP page. Writing data to text files allows you to store data, such as configuration settings and application information.

Before you can write to a file, you must establish a connection to the file by using the fopen function to open a file and create a file pointer. A file pointer indicates the file you want to work with. The fopen function takes two arguments-the name of the file to be opened and the access mode you want to use.

To open a file for writing, the w access mode can be specified. This access mode creates a new file if the file does not already exist. Using the w access mode will also overwrite any information already in an existing file.

When a file is opened for writing, the file position indicator is placed at the start of a file. The file position indicator indicates where the next operation will be performed in the file.

You can use the fputs function to write a line of information to the file. The fputs function usually takes two arguments—a file pointer and the information to be written to the file. You may also specify the maximum length of the line to be written, in bytes. After the maximum length has been reached, any extra information at the end of a line will not be written to the file.

Once all the information has been written to a file, the fclose function should be used to close the connection to the file.

As with other operations involving accessing a file, the proper permissions that allow the file to be written to must be in place. For information about permissions, you should consult your operating system's documentation.

Extra

There are several different access mode use when opening a file. Each access m the file position indicator in a specific lo

	ACCESS MODE:	DESCRIPTION:
	r	Open a file for read at the start of the fi
	r+	Open a file for read indicator at the star
	W	Open a file for writ at the start of the fi
	w+	Open a file for read indicator at the star not exist.
	a	Open a file for writ at the end of the fil
	a+	Open a file for read indicator at the end not exist.

WRITE TO A FILL

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php<br \$filePointer = fopen("data.txt",	·····);	php<br \$filePointer = fopen("data.txt", "w	");	php<br \$filePoint	ter = fopen("data.txt", "w")	:		¥1000150	
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 		Information was written to a file.		fputs(\$fi] fputs(\$fi]	LePointer, "Pat \\$1015 LePointer, "Pat \\$1015 LePointer, "April \\$1000	5.26\r\n"); 3.50\r\n");			
				fclose(\$fi ?>	.lePointer);				
				<pre>//body> </pre>	JN WAS WEILLEN LU A FILE.				
1 To open a file and create a file pointer,	Between the parentheses, type the name of the file you want to open followed by a	-4 To write a line of information to the file,	6 Type a line of information you want to write to the file	7 Repea until you all the int	it steps 4 to 6 have specified formation you	8 To close the file, type fclose ().	Wh is disp	ien the PHP page blayed in a Web ser, the information	10 You can use your text editor to open the file and view its contents or use a
the file pointer followed by = fopen().	comma.	5 Between the parentheses,	You may also specify	want to v	vrite to the file.	Between the parentheses, type	will be	e written to the file.	PHP page to read the file. For information about
124	mode that allows you to write to the file, type "w".	type the name of the file pointer followed by a comma.	the line of information, in bytes.			pointer.			reading a file using a PHP page, see page 126.

WORK WITH FILES

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READ A FILE

fter creating a file pointer and opening a file for reading, you can access the contents of the file. This allows you to display the data in a Web browser or compare the data in the file to other data. When opening the file, you must specify an access mode that allows reading from the file. The r access mode is typically used.

When a file is initially opened for reading, the file position indicator is placed at the beginning of the file. The fgets function is used to read the line of text indicated by the file position indicator and must have two arguments-the file pointer and the maximum length of the line to be read, in bytes. After a line of text is read from the file, the file position indicator automatically moves to the next line of text in the file.

A while loop is often used to process each line in a file. With each iteration of the loop, the information retrieved from the file using the fgets function can be assigned to a variable and displayed to the client using the print function.

The fgets function will read a line of text up to the maximum length specified or until it reaches a newline character. A line will be truncated if it is longer than the maximum length specified. When the fgets function is used again, it will read the next line in the file and not the remainder of the previous line that was truncated.

The feof function can be used to determine if the end of a file has been reached. The feof function takes the file pointer as an argument and is usually used with the Not operator (!) as the condition tested in a while loop.

Once all the lines from a file have been read, the fclose function should be used to close the connection to the file.

Extra

Most computers that use Web server software and PHP have sophisticated username and password-based security features. When using PHP to read a file, the correct permissions that allow the PHP script to read the file must be enabled on the Web server that stores the file. Web servers are typically configured to use a special user account, such as web or http, to allow access to files. This user account must have read permissions for the files to be opened because when PHP attempts to read a file, the operating system interprets it as an attempt to read the file by the username assigned to the Web server. The special user account on the Web server must be set up before files can be accessed using PHP.

READ A FILE



WORK WITH FILES

5

The file function may be used to automatically open, read and close a file. The file function takes the name of a file as an argument and returns the entire contents of the file as an array. Each element in the array will correspond to a line of information in the file. You do not need to create a file pointer when using the file function. Example:

\$lines = file("data.txt"); foreach (\$lines as \$value) print \$value . "
";

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displays the result o reading a file.

COPY OR DELETE A FILE

P HP provides functions that allow you to manage files from within a PHP page. For example, the copy function creates a copy of a file, while the unlink function deletes a file. Copying a file is useful for creating a backup copy of a file. Deleting a file lets you remove a file that is no longer needed by the PHP page.

It is good programming practice to verify whether a file exists before attempting to copy or delete the file. You can use the file_exists function to determine whether a file exists. The file_exists function returns a value of true if a file you specify exists and a value of false if the file does not exist.

The copy function takes two arguments—the filename or path of the file to be copied and the filename or path of the copy you want to create. When the file is copied, the copy function duplicates the file without removing the original file. The unlink function derives its name from the command used to delete files on Unix computers. The unlink function takes the filename or path of the file you want to delete as its argument.

When specifying arguments for the copy and unlink functions, if the file you want to copy or delete is located in the current directory, you can specify just the name of the file. If the file is located in a different directory, you must specify the full path to the file. You may want to store the name or path of a file in a variable and then use the variable with the copy or unlink function.

When the copy and unlink functions are successful, they return an integer value other than 0. If the functions are not successful, they return a value of 0.

Extra

In order to successfully copy and delete files, you must have the appropriate file and operating system permissions on the computer where the files are stored. For example, you cannot delete a file that has read-only permissions set. For information about the permissions for an operating system, refer to the operating system's documentation.

The copy function is also useful for moving a file from one directory to another. To move a file, you use the copy function to create a copy of the file in the directory you want to move the file to. You can then use the unlink function to remove the original file from the directory you no longer want to store the file.

Example:

copy("formdata.txt", "backup/webfile/formdata.txt"); unlink("formdata.txt");

COPY A FILE

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A copy of the file formdata.txt has been created.	
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copy("Formdata.txt", "formdata.bak");	
b The copy of the file (D)formula.txt(/D) has been created.cury;	
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DELETE A FILE



in quotation marks.

WORK WITH FILES

5

to determine the size of a file in bytes. Determining the size of a file is useful when you want to delete large files in order to free up storage space.
TYPE THIS:
<pre>print "The size of the file is: "; print filesize("formdata.txt") . " bytes";</pre>
RESULT:
RESULT: The size of the file is: 1867 bytes
RESULT: The size of the file is: 1867 bytes
RESULT: The size of the file is: 1867 bytes

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DETERMINE THE STATUS OF A FILE

I hen working with files, it is often necessary to determine information about a file before performing an action. For example, you should verify that a file can be written to by a PHP page before opening the file for writing.

The is file function allows you to determine if a file you specify is a file. This is useful when you want to ensure that an item is a file rather than a directory or a link to another file. The is file function is commonly used to verify that an item is a file before attempting to open the file. The function returns a value of true if the item you specify is a file.

Before opening a file you want to read, it is common practice to use the is readable function to verify that the file can be read from a PHP page. If a file exists and is readable, the is readable function returns a value of true.

To determine whether a file can be written to by a PHP page, you use the is writable function. If the file exists and can be written to, the function returns a value of true. The is writable function is commonly used to check the status of files that can be written to by multiple users, since such files are frequently temporarily unavailable for writing while in use by another user.

The is file, is readable and is writable functions all take a single argument that indicates the file you want to check. The argument can be the file name or path of the file, such as c:\webfiles\form.dat, or a variable that stores the filename or path, such as \$filename. If the file you want to check is in the current directory, you can specify just the name of the file. If the file is located in a different directory, you must specify the full path of the file.

Extra

Determining the status of a file can improve the efficiency of a PHP script. For example, before performing a complex process, such as retrieving information from a database and appending the information to a file, a check can be made to ensure the data can be written to the file.

The is file, is readable and is writable functions may be affected by the operating system you are running and the file system used by the computer that stores the files. While the is file, is readable and is writable functions should perform as expected on Unix systems, there may be incompatibilities that interfere with the operation of these functions on other systems.

DETERMINE THE STATUS OF A FILE

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 <body></body>	(<pre>\$fileName = "test.php";</pre>	<pre>` print "\$fileName is not a file. ''; }</pre>	Determine File Status	<u> </u>
<h3>Determine File Status</h3>	1	if (is_file(\$fileName)) {	if (is_readable(\$fileName)) {	test.php is a file. test.php is readable	
<pre><?php </pre></pre>		<pre>print "\$fileName is a file. ; }</pre>	<pre>print "\$fileName is readable. ; }</pre>	test.php can be written to.	
<pre>if (is_file(\$fileName)) { print "\$fileName is a file. } else { print "\$fileName is not a file. } ?> </pre>	9"; . (br>";	<pre>else { print "\$fileName is not a file. "; } if (is_readable(\$fileName)) { print "\$fileName is readable. "; } else { print "\$fileName is not readable. "; } ?></pre>	<pre>else { print "\$fileName is not readable. >"; } if (is_writable(\$fileName)) { print "\$fileName can be written to. >"; } else { print "\$fileName cannot be written to. >"; }</pre>	御] Done	
 To store the path of a file you want to check in a variable, type the code that assigns the path to the variable. To determine whether the file is a file, type is file(). 	 Between the parentheses, type the name of the variable that stores the path of the file. Type the code that uses the result of determining whether the file is a file. 	 5 To determine whether the file can be read from the PHP page, type is_readable(). 6 Between the parentheses, type the name of the variable that stores the path of the file. 	 B To determine whether you can write to the file, type is_writable(). B Between the parentheses, type the name of the variable that stores the path of the file. 	11 Display the PHP page in a Web browser.	The Web browser displays the results of determining the status of a file.

WORK WITH FILES

5

You can use the is dir function to determine whether an item is a directory. The is dir function returns a value of true if the directory you specify exists and is a directory. if (is dir("c:\data\webinfo")) print "c:\data\webinfo is a directory."; else print "This is not a directory."; V c:\data\webinfo is a directory.

SET FILE GROUP AND PERMISSIONS ON UNIX

Y ou can use a PHP page to change the group a file belongs to and set the permissions for the file. Changing the group and permissions for a file allows you to restrict access to the file.

The system function allows you to execute UNIX commands from within a PHP page. To view the group and permissions for each file in the current directory, you can use the ls -l command.

The chgrp function is used to assign a file to a new group. To use the chgrp function, you specify the location and name of the file you want to assign to a new group followed by the name of the group.

Unix systems allow you to assign any combination of read (r), write (w), and execute (x) permissions to a file's owner, the group the file belongs to and all other users. The permissions for a file are typically represented by a dash followed by a series of nine characters. The first three characters represent the permissions for the file's owner. The next three characters represent the permissions for the owner's group and the last three characters represent the permissions for all other users.

To change the permissions for a file, you use the chmod function. The chmod function takes two arguments—the location and name of the file and the octal value representing the file permissions you want to use. The octal value consists of three digits, which represent the permissions for the owner, followed by the permissions for the owner's group and the permissions for other users. For example, the -rwxr-xr-x permissions will have an octal value of 755. You should precede the octal value with a zero (0).

The chgrp and chmod functions return a value of true when the functions are executed successfully.

Extra

quotation marks.

Only the owner of a file or the system administrator can change the group or permissions for a file. When using the chgrp function, the owner of a file can assign the file only to a group to which the owner belongs. The system administrator can assign a file to any group.

The fileowner function allows you to determine the owner of a file. You can use the filegroup function to determine the group a file belongs to, which is usually the group to which the owner belongs. These functions retrieve an ID number that represents the user name of the owner or the name of the group. You can use the password file or group file available in Unix to match an ID number with the corresponding user name or group name.

YPE THIS:

print ("The UID is: " . fileowner("/var/www/html/file1")) . "br"; print ("The GID is: " . filegroup("/var/www/html/file1"));

SET FILE GROUP AND PERMISSIONS ON UNIX

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print " <pre>'; system('1s -1"); </pre>	<pre>print "<pre>"; system("1s -1");</pre></pre>	<pre>system("ls -1"); print "</pre> "; Newf
print ""; print " New file permissions: <pr>"; print "<pre>";</pre></pr>	<pre>print "</pre> "; chgrp("/var/www/html/file1", "apache"); print "/bNew file permissions://b/bb2";	chgrp("/var/www/html/file1", "apache"); chmod("/var/www/html/file1", 0755); print " New file permissions:
print ""; ?>	<pre>print "Conew File permissions.Cop/Cor/ ; print "Copre>"; print "Copre>";</pre>	<pre>print "<pre>'; system("ls -1"); print "</pre>"; </pre>
1 To execute a Unix command from the PHP page, type system (). 2 To display a list of files in the current directory and the permissions for each file, type "Is –I" between the parentheses.	 CHANGE FILE GROUP To assign a file to a new group, type chgrp(). Between the parentheses, type the location and name of the file, enclosed in quotation marks. Type a comma, followed by the name of the group to which you want to assign the file, enclosed in quotation marks. 	 SET FILE PERMISSIONS 6 To change the permissions for a file, type chmod(). 7 Between the parentheses, type the location and name of the file, enclosed in 8 Type a comma, followed by the octal value that represents the permissions you want to assign to the file. The octal value should be preceded by 0. 9 To display an updated list of the files in the current directory, repeat steps 1 and 2.

WORK WITH FILES

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splay the PHP page Veb browser. The Web browser displays the results of changing the group and permissions for a file.

CREATE AND DELETE DIRECTORIES

HP provides functions that allow you to manage directories from within a PHP page. The mkdir function creates a new directory, while the rmdir function removes an existing directory. You may want to create a directory to store temporary files and then remove the directory when the files are no longer needed by the PHP page.

When working with directories in the current directory, you specify the name of the directory you want to create or remove. If you want to work with directories in a different directory, you must specify the full path of the directory you want to create or remove. You may want to store the name or path of a directory in a variable and then use the variable with the mkdir or rmdir function.

When creating a new directory on a computer running the UNIX operating system, you must also specify permissions for the directory. Permissions control access to the directory and determine the operations, such as reading and writing, that can be performed.

CREATE A DIRECTORY

🖉 Untitled - Notepad _ 8 × <u>F</u>ile <u>E</u>dit <u>S</u>earch <u>H</u>elp File Edit View Favorites Tools Help 🗢 Back 🔹 🔿 🖉 🙆 🚮 🔯 Search 📾 Favorites 🎯 History 🛛 🖏 🚭 💽 👻 🚍 🙎 <html> <head> Address 🝘 http://127.0.0.1/createdirectory.php 💌 🧬 Go 🛛 Links 🏾 <title>Create a Directory</title> </head> **Create a Directory** <body> The directory **temp** has been created. <h3>Create a Directory</h3> <?nhn \$dirName = "temp"; if (!file_exists(\$dirName)) mkdir(\$dirName, 0700); print "The directpry \$dirName has been created.
"; 2> </body> </html> 🔮 Internet **1** To store the name or **3** Between the **5** Display the PHP page The directory has path of the directory you parentheses, type the in a Web browser. been created. want to create in a variable, name of the variable type the code that assigns the you created in step 1. information to the variable. -4 If necessary, type a **2** To create a directory, comma and then type type mkdir(). the octal value for the permissions you want

the directory to use.

A directory you want to remove must not contain any files or subdirectories. You must delete any existing files and subdirectories from a directory before you can delete the directory. For information about deleting files, see page 128.

When the mkdir and rmdir functions successfully create or remove a directory, they return an integer value other than 0. If the functions are not successful, they return a value of 0.

It is good programming practice to verify whether a directory exists before attempting to create or remove the directory. You can use the file exists function to determine whether a file exists.

Extra

PHP allows you to specify permissions for a director octal notation. When creating a directory on a complete running the UNIX operating system, you can convert UNIX permissions to octal notation using the following chart. The UNIX permissions include read (r), write (and execute (x). The octal value will consist of three digits, representing the permissions for the owner, followed by the permissions for the owner's group and the permissions for other users. For example, a directory with permissions -rwxrw-r-- will have the octal value 764. When entering the permissions in a PHP script, precede the octal value with a zero (0).

OCTAL VALUE:
0
1
2
3
4
5
6
7

DELETE A DIRECTORY



WORK WITH FILES

5

y in uter ng w)	In order to successfully create and remove directories, you must have the appropriate file and operating system permissions on the computer where the directories are to be created or removed. For information about the permissions for an operating system, refer to the operating system's documentation.	
	The chdir function allows you to change which directory you are working in. This is useful when you want to work with files stored in another directory. To change the current directory, specify the name of the directory you want to work in, enclosed in quotation marks.	
	Example: chdir("temp");	
a Directory - Mie	crosoft Internet Explorer	7 X
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