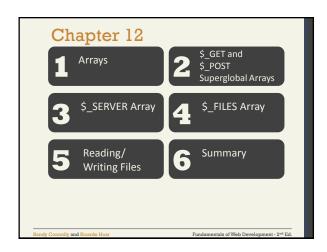
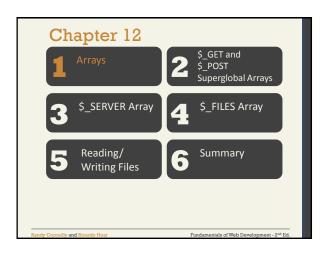
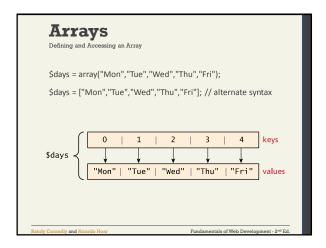
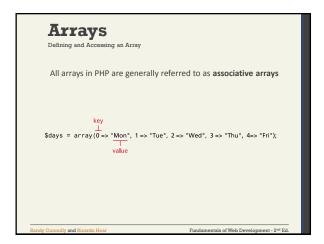
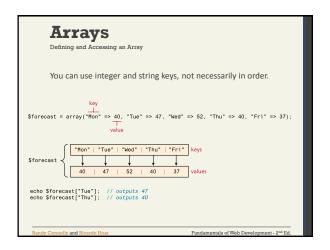
## PHP Arrays and Superglobals Chapter 12 Randy Connolly and Ricardo Hoar Fundamentals of Web Development











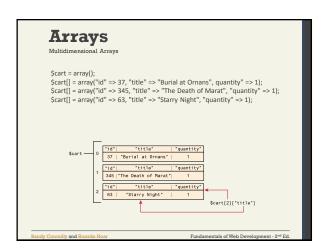
```
Arrays

Multidimensional Arrays

Smonth = array
(
array("Mon", "Tue", "Wed", "Thu", "Fri"),
array("Mon", "Tue", "Wed", "Thu", "Fri"),
array("Mon", "Tue", "Wed", "Thu", "Fri")
);

saoath

Description of the state o
```



```
Arrays

Iterating through an Array - while

// while loop

$i=0;

while ($i < count($days)) {
    echo $days[$i] . "<br>;

$i++;
}

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```

```
Arrays

Iterating through an Array - do while

// do while loop

$i=0;

do {

echo $days[$i] . "<br>";

$i++;
} while ($i < count($days));
```

```
Arrays

Iterating through an Array - for

// for loop

for ($i=0; $i<count($days); $i++) {

    echo $days[$i] . "<br/>};

}
```

```
Arrays
Iterating through an Array - foreach

// foreach: iterating through the values

foreach ($forecast as $value) {
    echo $value . "<br/>;
}

// foreach: iterating through the values AND the keys

foreach ($forecast as $key => $value) {
    echo "day[" . $key . "]=" . $value;
}

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```

-					
Δ	11/2	7/	3	37	C
л	11	4	O	w	P-

Adding and Deleting Elements

An element can be added to an array simply by using a key/index that hasn't been used, as shown below:

### \$days[5]= "Sat";

As an alternative to specifying the index, a new element can be added to the end of any array using empty square brackets after the array name, as follows:

\$days[]= "Sun";

Delete with unset()

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### **Arrays**

Array Sorting

sort(\$days);

As the values are all strings, the resulting array would be:

Array ([0] => Fri [1] => Mon [2] => Sat [3] => Sun [4] => Thu

[5] => Tue [6] => Wed)

asort(\$days);

The resulting array in this case keeps associations so is:

Array ([4] => Fri [0] => Mon [5] => Sat [6] => Sun [3] => Thu

[1] => Tue [2] => Wed)

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## **Arrays**

More Array Operations

- array\_keys(\$someArray)
- array\_values(\$someArray)
- array\_rand(\$someArray, \$num=1)
- array\_reverse(\$someArray)
- array\_walk(\$someArray, \$callback, \$optionalParam)
- in\_array(\$needle, \$haystack, \$optionalStrict)
- shuffle(\$someArray)

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## Arrays Superglobal Arrays

PHP uses special predefined associative arrays called superglobal variables that allow the programmer to easily access HTTP headers, query string parameters, and other commonly needed information

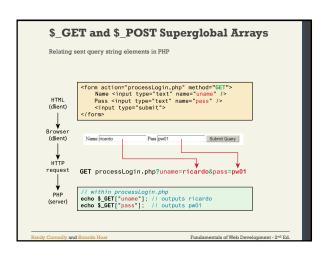
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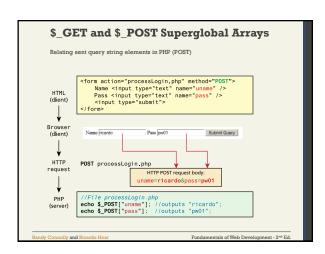
### **Arrays**

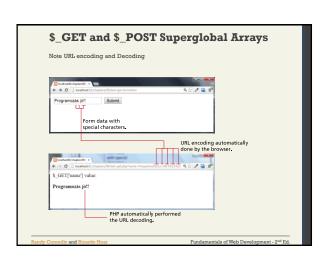
Superglobal Arrays

- \$GLOBALS Array for storing data that needs superglobal scope
- \$\_COOKIES Array of cookie data passed to page via HTTP request
- \$\_ENV Array of server environment data
- \$\_FILES Array of file items uploaded to the server
- \$\_GET Array of query string data passed to the server via the URL
- \$\_POST Array of query string data passed to the server via the HTTP
- \$\_REQUEST Array containing the contents of \$\_GET, \$\_POST, and \$\_COOKIES
- \$\_SESSION Array that contains session data
- \$\_SERVER Array containing information about the request and the server

## Chapter 12 \$\_FILES Array \$\_SERVER Array Reading/ Summary Writing Files Fundamentals of Web Development - 2nd Ed



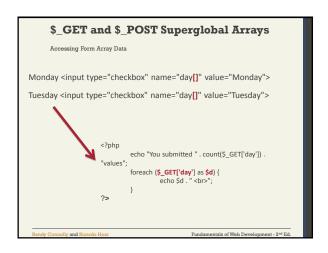


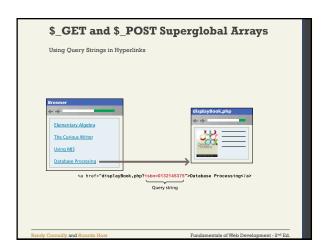


<b>\$_GET and \$_POST</b> Form display and processing on same	Superglobal Arrays
been submit loging-by  User Name  Passers in the transport  Checks whether any risubmitted (answer is )  User Name [testuar	es this time).
Personerd: User and passwoord don't exist Submit	<ul> <li>Performs some type of processing on form data (such as checking credentials in database and displaying error message).</li> </ul>
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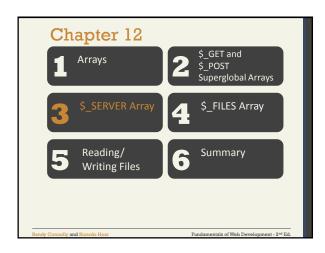
\$_GET and \$_POST	Г Superglobal Arrays
Determining If Any Data Sent	
use the <b>isset()</b> function in Planticular expected key	HP to see if there is any value set for
if (\$_SERVER["REQUEST_ME	THOD"] == "POST") {
if ( isset(\$_POST["un	name"])
// handle the	e posted data.
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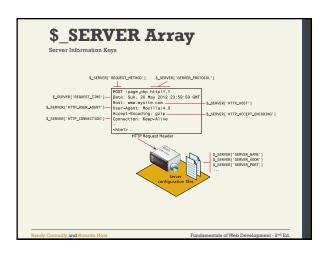
\$_GET and \$_POST Superglobal Arrays
null coalescing operator
<pre>\$username = isset(\$_GET['uname']) ? \$_GET['uname'] : 'nobody';</pre>
Becomes
<pre>\$username = \$_GET['uname'] ?? 'nobody';</pre>
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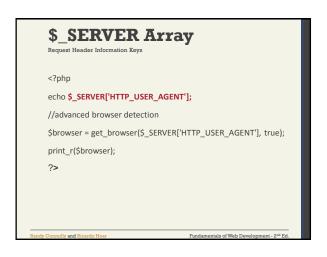


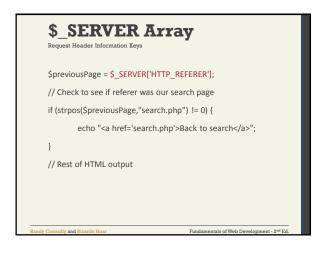


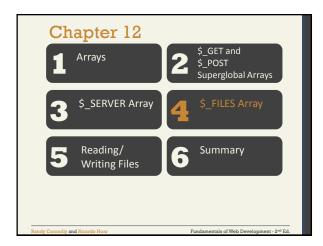
## \$\_GET and \$\_POST Superglobal Arrays Sanitizing Query Strings That is, just because you are expecting a proper query string, it doesn't mean that you are going to get one. your program must be able to handle: If query string parameter doesn't exist. If query string parameter doesn't contain a value. If query string parameter value isn't the correct type or is out of acceptable range. If value is required for a database lookup, but provided value doesn't exist in the database table.



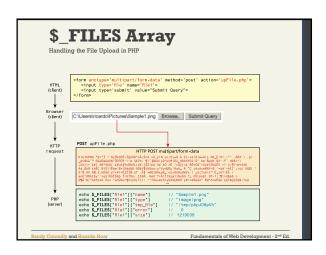








HTI	FILES Array ML Required for File Uploads
•	First, you must ensure that the HTML form uses the HTTP POST method
•	Second, you must add the enctype="multipart/form-data" attribute to the HTML form that is performing the upload
•	Finally you must include an input type of file in your form.
<fc< td=""><td>orm enctype='multipart/form-data' method='post'&gt;</td></fc<>	orm enctype='multipart/form-data' method='post'>
	<input id="file1" name="file1" type="file"/>
	<input type="submit"/>
1</td <td>form&gt;</td>	form>



```
$_FILES Array
Checking for Errors

foreach ($_FILES as $fileKey => $fileArray) {

if ($fileArray["error"] != UPLOAD_ERR_OK) { // error

echo "Error: " . $fileKey . " has error" .

$fileArray["error"] . "<br/>;
}
else { // no error

echo $fileKey . "Uploaded successfully ";
}

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```

# \$\_FILES Array File Size Restrictions You can limit in multiple ways • HTML form attributes in inputs (browser) • JavaScript (browser) • Php validation (server)

```
$_FILES Array

Moving the File

$fileToMove = $_FILES['file1']['tmp_name'];

$destination = "./upload/" . $_FILES["file1"]["name"];

if (move_uploaded_file($fileToMove,$destination)) {

    echo "The file was uploaded and moved successfully!";

}

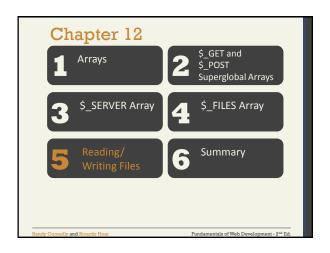
else {

    echo "There was a problem moving the file.";

}

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```



## Reading/Writing Files

There are two basic techniques for read/writing files

- Stream access . Our code will read just a small portion of the file at a time.
- All-In-Memory access . In this technique, we can read the entire file into memory (i.e., into a PHP variable). While not appropriate for large files, it does make processing of the file extremely easy.

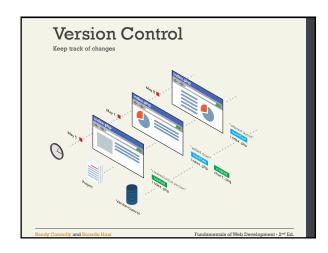
## **Reading/Writing Files**

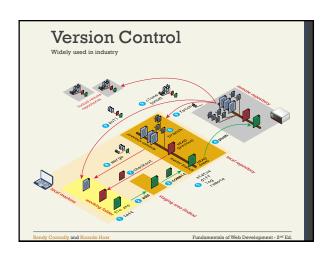
To those of you familiar with functions like fopen(), fclose(), and fgets() from the C programming language, this first technique will be familiar

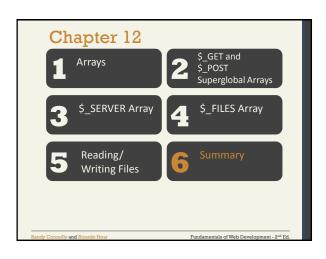
- Open fopen()
- · Read data fgets()
- · Close the file fclose()

## Reading/Writing Files In-Memory File Access

- file() Reads the entire file and returns an array, with each array element corresponding to one line in the
- file\_get\_contents() Reads the entire file and returns a string variable.
- file\_put\_contents() Writes the contents of a string variable out to a file.







All-in-memory	GitHub	remote repository
access	local repository	sanitizing user inputs
array keys	merge	stream access
array values	NULL	stream resource
associative arrays	null coalescing	superglobal variables
branch	operator	user-agent
forking	one-way hash	version control
Git	ordered map	version control

Summary	
Questions?	