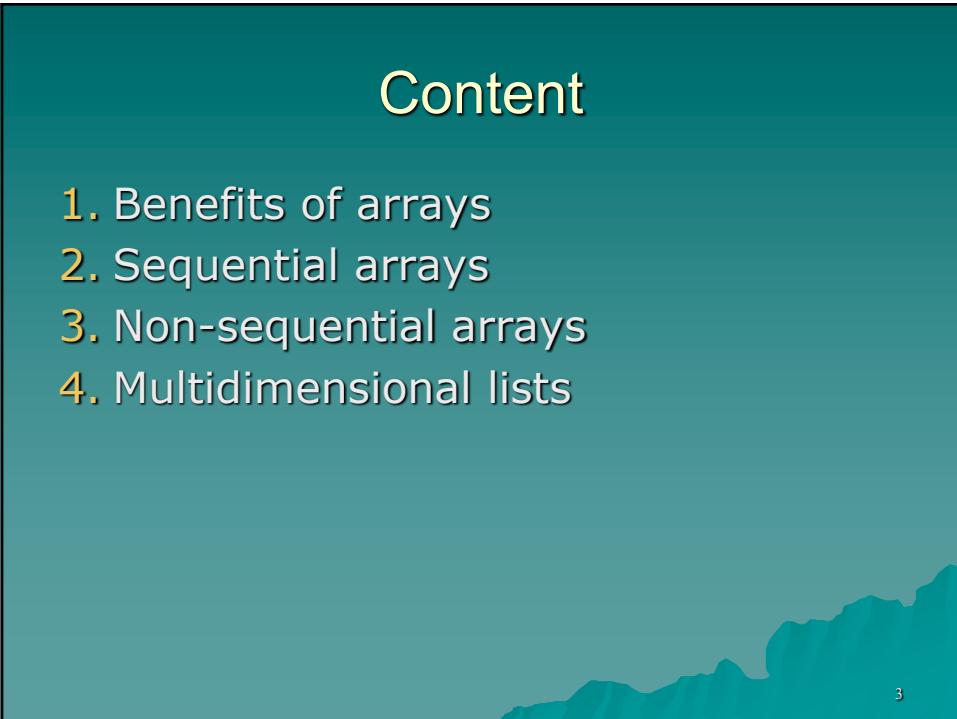


Web Programming

Chapter 4. Working with Arrays

1



Content

1. Benefits of arrays
2. Sequential arrays
3. Non-sequential arrays
4. Multidimensional lists

3

3

Content

- ⇒ **1. Benefits of arrays**
- 2. Sequential arrays**
- 3. Non-sequential arrays**
- 4. Multidimensional lists**

4

4

1.1. What is an Array?

- ◆ An array is a special type of variable.
 - can hold multiple data values
- ◆ A sequential array keeps track of these data items by using sequential numbers
 - (e.g., item 0, item 1, item 2, and so on)
- ◆ A nonsequential array or associative array keeps track of these data items by using character strings
 - (e.g., item meat, item poultry, item dairy, and so on)

5

5

2

1.2. Why Use Arrays?

- ◆ *Include a flexible number of list items.*
- ◆ *Examine each item more concisely.*
- ◆ *Using Loops to Repeat Statements*
- ◆ *Use special array operators and functions.*

6

6

Content

1. Benefits of arrays
2. Sequential arrays
3. Non-sequential arrays
4. Multidimensional lists

7

7

3

2.1. Creating Sequential Arrays

- ◆ Use the array() function to create an array

```
Array variable name.           Comma separate each list item.  
                                ↓  
$students = array('Johnson', 'Jones', 'Jackson', 'Jefferson');  
↑     ↑     ↑     ↑  
Uses the array function          Enclose lists in parenthesis
```

- ◆ You could also create an array with numerical data

- `$grades = array(66, 75, 85, 80);`

8

8

Another way to create an array

- ◆ You can also create an array by making individual value assignments into the array variable name.
- ◆ For example, `$students[] = 'Johnson';`

```
$students[] = 'Jones';  
$students[] = 'Jackson';  
$students[] = 'Jefferson';
```

9

9

2.2. Referencing Sequential Array Items

- ◆ To reference individual array items, use an *array name* and *index pair*

```
$sports[0] = 'baseball';  
Array name _____ ↑  
Index _____ ↑
```

- ◆ Indices are referenced sequentially:

```
- $names = array('Denise', 'Christopher', 'Matthew',  
                 'Bryant');  
- print ("$names[0], $names[1], $names[2],  
         $names[3]");
```

- ◆ Outputs names sequentially

10

10

Warning: Indices starts with 0

- ◆ You might think the arrays in the preceding code would be numbered with indices 1 through 4.
 - By default sequential arrays start with index 0,
 - so the indices above are numbered from 0 to 3.
 - Avoid referencing an item past the end of your array (for example, using \$names[20] in an array that contains only four items).

11

11

More on Indices ...

- ◆ Array indices can be whole numbers or a variable.

```
$i=3;  
$classes = array('Math', 'History', 'Science', 'Pottery');  
$oneclass = $classes[$i-1];  
print "$classes[$i] $oneclass $classes[1] $classes[0]";
```

- ◆ This code outputs the following:
"Pottery Science History Math"

12

12

2.3. Changing arrays values

- ◆ You can change values in an array as follows:

```
$scores = array(75, 65, 85, 90);  
$scores[3] = 95;  
$average = ($scores[0] + $scores[1] +  
           $scores[2] + $scores[3]) / 4;  
print "average=$average";
```

- ◆ The output of the above PHP segment is "average=80".

13

13

Explicitly Setting Index Values

- ◆ You can explicitly sign values to indices

```
$scores = array(1=>75, 2=>65, 3=>85);  
$scores[] = 100;  
print "$scores[1] $scores[2] $scores[3] $scores[4]";
```

Assign the value of 65 to the item with index 2.
Assign the value of 85 to the item with index 3.
Add item with value 100 to the end of the array.

- ◆ The above outputs "75 65 85 100".

14

14

2.4. Using Loops with Sequential Arrays

- ◆ Looping statements can be used to iterate through arrays

```
$courses = array ('Perl', 'PHP', 'C','Java', 'Pascal', 'Cobol',  
'Visual Basic');  
for ($i=0; $i < count($courses); $i++) {  
    print ("$courses[$i] ");  
}
```

- ◆ The above repeats 7 times with \$i equal to 0, 1, 2, 3, 4, 5, and 6.
- ◆ The above outputs: "Perl PHP C Java Pascal Cobol Visual
Basic".

15

15

Using the foreach statement

- ◆ PHP supports the foreach statement as another way to iterate through arrays

```
Array Name           ↓           ↓  
foreach ($courses as $item) {  
    Set of statements to repeat.  
}
```

Item variable (\$item)
is automatically set to
next array item
each iteration.

16

16

foreach statement - example

- ◆ Example of foreach command

```
$courses = array('Perl', 'PHP', 'C', 'Java', 'Pascal',  
                 'Cobol', 'Visual Basic');  
foreach ($courses as $item){  
    print ("$item ");  
}
```

- ◆ The above outputs “Perl PHP C Java Pascal
Cobol Visual Basic”.

17

17

Sorting data

- ◆ For example the following code segment outputs "1 11 55 91 99 119 911"

```
$courses = array (91, 55, 11, 1, 99, 911, 119);
sort($courses);
foreach ($courses as $item) {
    print "$item ";
}
```

18

18

Sorting data functions

Effect	Ascending	Descending	User-defined order
Sort array by values, then reassign indices starting with 0	sort()	rsort()	usort()
Sort array by values	asort()	arsort()	uasort()
Sort array by keys	ksort()	krsort()	uksort()

- ◆ User-defined ordering requires that you provide a function that takes two values and returns a value that specifies the order of the two values in the sorted array.
 - ◆ return 1 if the first value is greater than the second
 - ◆ -1 if the first value is less than the second
 - ◆ 0 if the values are the same for the purposes of your custom sort order

19

19

Example

```
<?php
function my_sort($a,$b)
{
    if ($a==$b) return 0;
    return ($a<$b)?-1:1;
}

$a=array(4,2,8,6);
usort($a,"my_sort");
?>
```

20

20

A Full Script Example

- ◆ Consider an example script that enables end-user to select multiple items from a checklist.
 - A survey about menu preferences
 - Will look at how to send multiple items and how to receive them (later)

21

21

10

A Full Example ...

```

1. <html><head><title> Tuna Cafe </title></head>
2. <body> <font size=4 color="blue">
3. Welcome to the Tuna Cafe Survey! </font>
4. <form action="http://webwizard.aw.com/~phppgm/C5/tunaresults.php"
       method=post>
5. <?php
6. $menu = array('Tuna Casserole', 'Tuna Sandwich', 'Tuna Pie', 'Grilled Tuna',
   'Tuna Surprise');
7. $bestseller = 2;
8. print 'Please indicate all your favorite dishes.<br>';
9. for ($i=0; $i < count($menu); $i++) {
10.    print "<input type=\"checkbox\" name=\"prefer[]\" value=$i>
      $menu[$i]";
11.    if ($i == $bestseller) {
12.       print '<font color="red"> Our Best Seller!!!! </font>';
13.    }
14.    print '<br>';
15. }
16. ?>
17. <input type="submit" value="Click To Submit">
18. <input type="reset" value="Erase and Restart">
19. </form></body></html>

```

22

22

The Output ...

The previous code can be executed at
<http://webwizard.aw.com/~phppgm/C5/tunacafe.php>

The first screenshot shows the survey form with the following code:

```

<html><head><title> Tuna Cafe - Netscape 6 </title></head>
<body> <font size=4 color="blue">
Welcome to the Tuna Cafe Survey!
Please indicate all your favorite dishes.
<input type="checkbox" name="prefer[]"/> Tuna Casserole
<input checked="" type="checkbox" name="prefer[]"/> Tuna Sandwich
<input type="checkbox" name="prefer[]"/> Tuna Pie Our Best Seller!!!!
<input checked="" type="checkbox" name="prefer[]"/> Grilled Tuna
<input type="checkbox" name="prefer[]"/> Tuna Surprise
<input type="button" value="Click To Submit" />
<input type="button" value="Erase and Restart" />

```

The second screenshot shows the results page with the following code:

```

<html><head><title> Tuna Cafe - Netscape 6 </title></head>
<body> <font size=4 color="blue">
Tuna Cafe Results Received
Your selections were


- Tuna Sandwich
- Grilled Tuna

```

23

23

Using Arrays to Receive Multiple Form Element Selections

- ◆ Suppose you want to receive these multiple items, set as:

```
print "<input type=\"checkbox\" name=\"prefer[]\" value=$i> $menu[$i]";
```

- ◆ If the user selects the first and third check box items shown then \$prefer[] would be an array of two items:
 - \$prefer[0], would have a value of 0, and \$prefer[1] would be 2.

24

24

Receiving Script

```
1. <html>
2. <head><title> Tuna Cafe </title></head>
3. <body>
4. <font size=4 color="blue"> Tuna Cafe Results Received </font>
5. <?php
6.     $menu = array('Tuna Casserole', 'Tuna Sandwich', 'Tuna Pie',
7.                   'Grilled Tuna', 'Tuna Surprise');
8.     if (count($prefer) == 0 ) {
9.         print 'Oh no! Please pick something as your favorite! ';
10.    } else {
11.        print '<br>Your selections were <ul>';
12.        foreach ($prefer as $item) {
13.            print "<li>$menu[$item]</li>";
14.        }
15.    }
16. ?>
17. </body></html>
```

25

25

12

Receiving Code with REGISTER_GLOBALS Off

```
1. <html>
2. <head><title> Tuna Cafe </title></head>
3. <body>
4. <font size=4 color="blue"> Tuna Cafe Results Received </font>
5. <?php
6.     $prefer = $_POST["prefer"];
7.     $menu = array('Tuna Casserole', 'Tuna Sandwich', 'Tuna Pie',
8.                  'Grilled Tuna', 'Tuna Surprise');
9.     if (count($prefer) == 0 ) {
10.         print 'Oh no! Please pick something as your favorite! ';
11.     } else {
12.         print '<br>Your selections were <ul>';
13.         foreach ($prefer as $item) {
14.             print "<li>$menu[$item]</li>";
15.         }
16.         print '</ul>';
17.     ?>
18. </body></html>
```

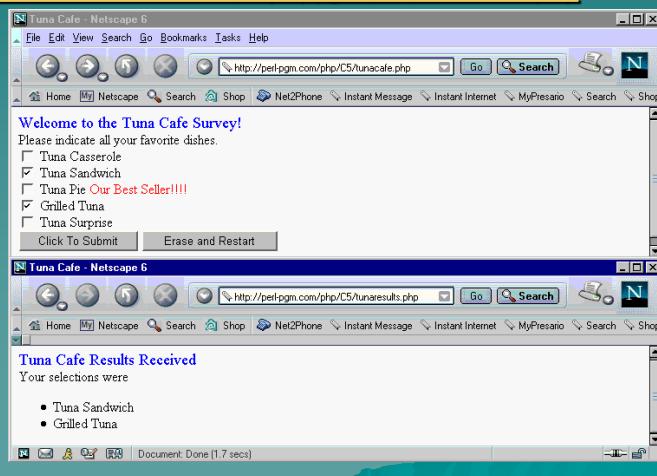
26

26

The Output ...

The previous code can be executed at

<http://webwizard.aw.com/~phppqm/C5/tunacafe.php>

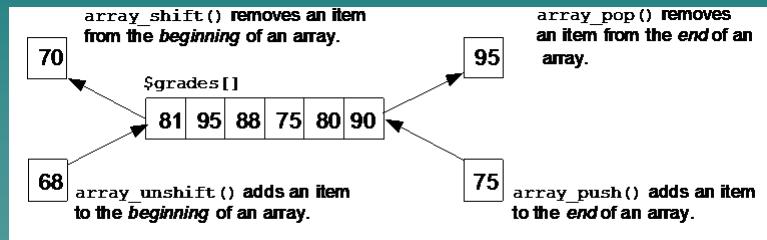


27

27

2.5. More Arrays Operations

◆ Adding and Deleting Items



28

28

a. The `array_shift()` functions

- ◆ `array_shift()` accepts an array as an argument, removes the first item, and then returns the removed item.

- ◆ For example,

```
$work_week = array('Monday', 'Wednesday', 'Friday');
$day_off = array_shift($work_week);
print "Day off = $day_off Work week = ";
foreach ($work_week as $day) {
    print "$day ";
}
```

The above outputs:

"Day off = Monday Work week = Wednesday Friday"

29

29

14

b. The array_unshift() functions

- ◆ `array_unshift()` used to *add* an item to the *beginning* of the array.
- ◆ It accepts as arguments an array variable and an item to add. For example,

```
$work_week = array('Monday', 'Wednesday', 'Friday');  
array_unshift($work_week, 'Sunday');  
print 'Work week is now = ';  
foreach ($work_week as $day) {  
    print "$day ";  
}
```

The above outputs:

```
"Work week is now = Sunday Monday Wednesday  
Friday".
```

30

30

c. The array_pop() functions

- ◆ `array_pop()` accepts an array variable as an argument and returns an item it removed from the end of the array.
- ◆ For example,

```
$work_week = array('Monday', 'Wednesday', 'Friday');  
$day_off = array_pop($work_week);  
print "Day off = $day_off Work week = ";  
foreach ($work_week as $day) {  
    print "$day ";  
}
```

The above outputs:

```
"Day off = Friday Work week = Monday Wednesday"
```

31

31

15

d. The array_push() functions

- ◆ `array_push()` accepts an array variable and an item as arguments and adds the item to the end of an array.

- ◆ For example, the following code:

```
$work_week = array('Monday', 'Wednesday', 'Friday');
array_push($work_week, 'Saturday');
print 'Work week is now = ';
foreach ($work_week as $day) {
    print "$day ";
}
The above outputs:  
"Work week is now = Monday Wednesday Friday Saturday"
```

32

32

e. Additional Useful Array Functions

- ◆ Use `max()` and `min()` to find the largest and smallest number in an array.

```
$grades = array (99, 100, 55, 91, 65, 22, 16);
$big=max($grades);
$small=min($grades);
print "max=$big small=$small";
```

The above would output:

"max=100 small=16".

33

33

e. Additional Useful Array Functions (2)

- ◆ Use `array_sum()` to return a sum of all numerical values.

- ◆ For example,

```
$grades = array (25, 100, 50, 'N/A');  
$total=array_sum($grades);  
print "Total=$total";
```

- ◆ The above would output:

```
"Total=175"
```

34

34

Mixing Variable Types

- ◆ PHP will try to convert character to numerical values when it can. For example,

```
<?php  
$grades = array ('2 nights', '3days', 50, '1 more day');  
$total=array_sum($grades);  
print "total=$total";  
?>
```

- ◆ Instead of generating an error message, this code outputs “total=56”.

35

35

Content

1. Benefits of arrays
2. Sequential arrays
3. Non-sequential arrays
4. Multidimensional lists

36

36

3. Non-sequential arrays

- ◆ PHP also supports arrays with string-value indices called non-sequential/associative arrays.
 - String-value index is used to look up or provide a cross-reference to the data value
 - For example, the following code creates an associative array with three items

```
$instructor['Science'] = 'Smith';
$instructor['Math'] = 'Jones';
$instructor['English'] = 'Jackson';
```

37

37

18

3.1. Creating Associative Arrays

- ◆ Use the array() function along with the => operator to create an associative array

```
Name of the associative array.  
Index 'Jan' and value 31.  
Index 'Feb' and value 28  
Index 'Mar' and value 31.  
  
$months = array( 'Jan'=>31, 'Feb'=>28, 'Mar'=>31, 'Apr'=>30,  
                 'May'=>31, 'Jun'=>30, 'Jul'=>31, 'Aug'=>31,  
                 'Sep'=>30, 'Oct'=>31, 'Nov'=>30, 'Dec'=>31 );
```

38

38

3.2. Accessing Associative Array Items

- ◆ Use a syntax similar to sequential arrays to access items

```
$days = $months['Mar'];  
  
Will result be assigned the data  
value associated with 'Mar'.  
  
Enclose the index in  
square brackets.  
Uses this string value  
index.
```

39

39

WARNING You Cannot Fetch Indices by Using Data Values

- ◆ You might be tempted to use a data item to fetch an index from an associative array, as in the following example:
 - `$mon = $months[28];`
- ◆ This syntax is incorrect because associative arrays can fetch data values only by using indices (not the other way around)

40

40

Consider the following example ...

- ◆ Consider an application that reports distance between Chicago and destination cities

```
<select name="destination" size=3>
<option> Boston </option>
<option> Dallas </option>
<option> Las Vegas </option>
<option> Miami </option>
<option> Nashville </option>
<option> Pittsburgh </option>
<option> San Francisco </option>
<option> Toronto </option>
<option> Washington, DC </option>
</select>
```
- ◆ When user selects destination city the application reports distance from Chicago

41

41

20

Example script source

```
1. <html>
2. <head><title> Distance and Time Calculations </title></head>
3. <body>
4. <?php
5. $cities = array ('Dallas' => 803, 'Toronto' => 435, 'Boston' => 848, 'Nashville' =>
   406, 'Las Vegas' => 1526, 'San Francisco' => 1835, 'Washington, DC'=> 595,
   'Miami' => 1189, 'Pittsburgh' => 409);
6. if (isset($cities[$destination])) {
7.   $distance = $cities[$destination];
8.   $time = round( ($distance / 60), 2); ←
9.   $walktime = round( ($distance / 5), 2); ←
10.  print "The distance between Chicago and <i> $destination</i>
      miles.";
11.  print "<br>Driving at 60 miles per hour it would take $time hours.";
12.  print "<br>Walking at 5 miles per hour it would take $walktime hours.";
13. } else {
14.   print "Sorry, do not have destination information for $destination.";
15. } ?>
16. </body></html>
```

Associative array containing destination city and distance.

Check if the input destination city has a value in \$cities[].

Round results to 2 digits to the right of the decimal point.

42

42

Example script source with REGISTER_GLOBALS Off

```
1. <html>
2. <head><title> Distance and Time Calculations </title></head>
3. <body>
4. <?php
5. $destination = $_POST["destination"];
6. $cities = array ('Dallas' => 803, 'Toronto' => 435, 'Boston' => 848, 'Nashville' =>
   406, 'Las Vegas' => 1526, 'San Francisco' => 1835, 'Washington, DC'=> 595, 'Miami'
   => 1189, 'Pittsburgh' => 409);
7. if (isset($cities[$destination])) { ←
8.   $distance = $cities[$destination];
9.   $time = round( ($distance / 60), 2); ←
10.  $walktime = round( ($distance / 5), 2); ←
11.  print "The distance between Chicago and <i> $destination</i> is $distance miles.";
12.  print "<br>Driving at 60 miles per hour it would take $time hours.";
13.  print "<br>Walking at 5 miles per hour it would take $walktime hours.";
14. } else {
15.   print "Sorry, do not have destination information for $destination.";
16. } ?>
17. </body></html>
```

Associative array containing destination city and distance.

Check if the input destination city has a value in \$cities[].

Round results to 2 digits to the right of the decimal point.

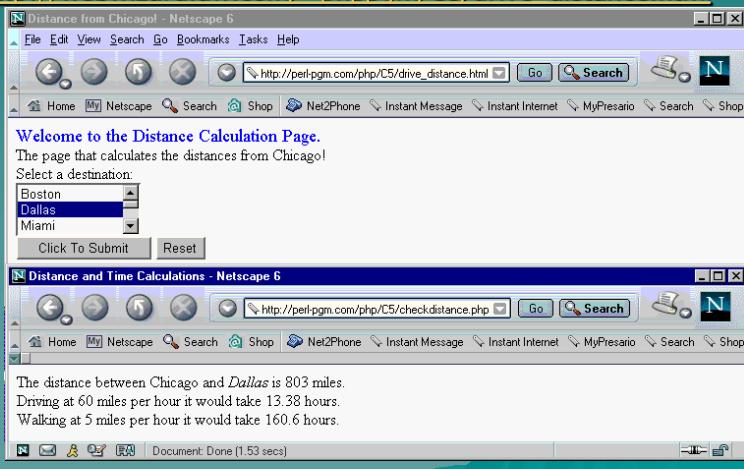
43

43

The Output ...

The previous code can be executed at

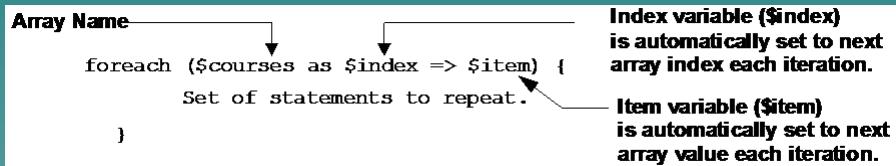
http://webwizard.aw.com/~phppqm/C5/drive_distance.html



44

3.3. Using foreach with associative arrays

- ◆ You can use foreach to access items from an associative array



45

22

3.3. Using foreach with associative arrays (2)

- ◆ Consider the following:

```
$inventory = array('Nuts'=>33, 'Bolts'=>55, 'Screws'=>12);  
foreach ($inventory as $index => $item) {  
    print "Index is $index, value is $item<br> ";  
}
```

- ◆ The above outputs:

```
Index is Nuts, value is 33  
Index is Bolts, value is 55  
Index is Screws, value is 12
```

46

46

3.4. Changing adding/deleting items

- ◆ You can change an item by giving it a new value:

```
$inventory = array('Nuts'=> 33, 'Bolts'=> 55,  
    'Screws'=> 12);  
$inventory['Nuts'] = 100;
```

- ◆ You can add an item as follows:

```
$inventory = array('Nuts'=>33, 'Bolts'=>55, 'Screws'=>12);  
$inventory['Nails'] = 23;
```

- ◆ You can delete an item as follows:

```
$inventory = array('Nuts'=> 33, 'Bolts'=>55, 'Screws'=> 12);  
unset($inventory['Nuts']);
```

47

47

3.5. Verifying an items existance

- ◆ You can use the `isset()` function to verify if an item exists.

```
$inventory = array('Nuts'=> 33,'Bolts'=>55,'Screws'=> 12);  
if (isset($inventory['Nuts'])) {  
    print ('Nuts are in the list.');//  
} else {  
    print ('No Nuts in this list.');//  
}
```

48

48

Warning indices are case sensitive

- ◆ Examine the following lines:

```
$inventory = array( 'Nuts'=> 33,'Bolts'=>55,'Screws'=>12);  
$inventory['nuts'] = 32;
```

- ◆ Results in items 'Nuts', 'Bolts', 'Screws', and 'nuts'

49

49

A Full Application

- ◆ Consider an application using the following radio buttons:

```
<input type="radio" name="Action" value="Add" > Add  
<input type="radio" name="Action" value="Unknown" > Unknown  
<br>Enter Index: <input type="text" name="index" size=10>  
Enter Value: <input type="text" name="value" size=10>
```

- ◆ It “simulates” adding an inventory item
That is, it adds it to associative
array but does not save to a file or
database.

50

50

PHP Source ...

```
1. <html><head><title>Inventory Add </title>  
2. </head><body>  
3. <?php  
4. $invent = array('Nuts'=>44, 'Nails'=>34, 'Bolts'=>31);  
5. if ($Action == 'Add') {  
6.     $item=$invent["$index"];  
7.     if (isset($invent["$index"])) {  
8.         print "Sorry, already exists $index <br>";  
9.     } else {  
10.        $invent["$index"] = $Value;  
11.        print "Adding index=$index value=$Value <br>";  
12.        print '-----<br>';  
13.        foreach ($invent as $index => $item) {  
14.            print "Index is $index, value is $item.<br> ";  
15.        }  
16.    }  
17. } else { print "Sorry, no such action=$Action<br>"; }  
18. ?></body></html>
```

51

51

PHP Source with REGISTER_GLOBALS Off...

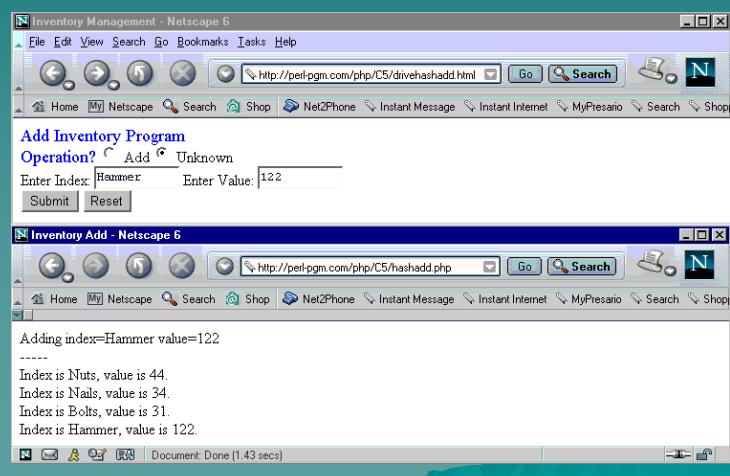
```
1. <html><head><title>Inventory Add </title>
2. </head><body>
3. <?php $index = $_POST["index"]; $Value = $_POST["Value"];
4. $invent = array('Nuts'=>44, 'Nails'=>34, 'Bolts'=>31);
5. if ($Action == 'Add') {
6.     $item=$invent[$index];
7.     if (isset($invent[$index])) {
8.         print "Sorry, already exists $index <br>";
9.     } else {
10.        $invent[$index] = $Value;
11.        print "Adding index=$index value=$Value <br>";
12.        print '-----<br>';
13.        foreach ($invent as $index => $item) {
14.            print "Index is $index, value is $item.<br> ";
15.        }
16.    }
17. } else { print "Sorry, no such action=$Action<br>"; }
18. ?></body></html>
```

52

52

Would output the following:

The previous code can be executed at
<http://webwizard.aw.com/~phppgm/C5/drivehashadd.html>



53

53

3.6. Sorting Associative Arrays

- ◆ You can sort associative arrays by values or indices.

- ◆ Use `asort()` to sort by values:

```
$dest = array('Dallas' => 803, 'Toronto' => 435,
              'Boston' => 848, 'Nashville' => 406,
              'Las Vegas' => 1526);
asort($dest);
foreach ($dest as $index => $value) {
    print "$index = $value ";
}
```

- ◆ The above would output:

```
Nashville = 406  Toronto = 435  Dallas = 803  Boston = 848
Las Vegas = 1526
```

54

54

3.6. Sorting Associative Arrays (2)

- ◆ Use `ksort()` to sort by indices:

```
$dest = array ('Dallas' => 803, 'Toronto' => 435,
              'Boston' => 848, 'Nashville' => 406,
              'Las Vegas' => 1526);
ksort($dest);
foreach ($dest as $index => $value) {
    print "$index = $value ";
}
```

- ◆ The above would output:

```
Boston = 848  Dallas = 803  Las Vegas = 1526  Nashville =
406  Toronto = 435
```

55

55

Content

1. Benefits of arrays
2. Sequential arrays
3. Non-sequential arrays
4. Multidimensional lists

56

56

4. Multiple dimensional lists

- ◆ Some data is best represented using a list of list or a multi-dimensional list.
- ◆ For example:

Part Number	Part Name	Count	Price
AC1000	Hammer	122	12.50
AC1001	Wrench	5	5.00
AC1002	Handsaw	10	10.00
AC1003	Screwdriver	222	3.00

57

57

4.1. Creating Multidimensional Lists

- ◆ You can create multidimensional arrays with the `array()` function

```
$inventory = array (
    'AC1000' => array( 'Part' => 'Hammer', 'Count' => 122, 'Price' => 12.60),
    'AC1001' => array( 'Part' => 'Wrench', 'Count' => 5, 'Price' => 5.00 ),
    'AC1002'=>array( 'Part' => 'Hand Saw', 'Count' => 10, 'Price' => 10.00),
    'AC1003'=>array( 'Part' => 'Screw Driver', 'Count' => 222, 'Price' => 3.00)
);
```

Each item has an index and value
Defines part number 'AC1003' as an index to a list of items that include a 'Part', 'Count' and 'Price'.
Multi-dimensional array name.

Enclose each row in parenthesis and end each row in a comma (except the last row)

`$inventory['AC1000']['Part']` has the value Hammer,
`$inventory['AC1001']['Count']` has the value 5, and
`$inventory['AC1002']['Price']` has the value 10.00.

58

58

A Full Application

- ◆ Application that receives a part number and then returns information about the part
 - Uses the following HTML form:

```
<input type="radio" name="id" value="AC1000"> AC1000
<input type="radio" name="id" value="AC1001"> AC1001
<input type="radio" name="id" value="AC1002"> AC1002
<input type="radio" name="id" value="AC1003"> AC1003
```

59

59

PHP Script Source

```
1. <html><head><title>Inventory Information</title>
2. </head><body>
3. <?php
4. $inventory = array (
    'AC1000'=>array('Part'=>'Hammer', 'Count'=>122, 'Price'=> 12.50 ),
    'AC1001' => array('Part' =>'Wrench', 'Count' =>5, 'Price'=>5.00 ),
    'AC1002'=>array('Part' =>'Handsaw', 'Count' =>10, 'Price'=>10.00 ),
    'AC1003'=>array('Part' =>'Screwdrivers', 'Count'=>222, 'Price'=>3.00)
);
5. if (isset($inventory[$id])){
6.     print '<font size=4 color="blue"> ';
7.     print "Inventory Information for Part $id </font>";
8.     print '<table border=1> <th> ID <th> Part <th> Count <th> Price ';
9.     print "<tr> <td> $id </td>";
10.    print "<td> {$inventory[$id]['Part']} </td>";
11.    print "<td> {$inventory[$id]['Count']} </td>";
12.    print "<td> \${$inventory[$id]['Price']} </td></tr>";
13. } else {
14.     print "Illegal part ID = $id ";
15. }
16.?> </body></html>
```

60

60

PHP Script Source With REGISTER_GLOBALS Off

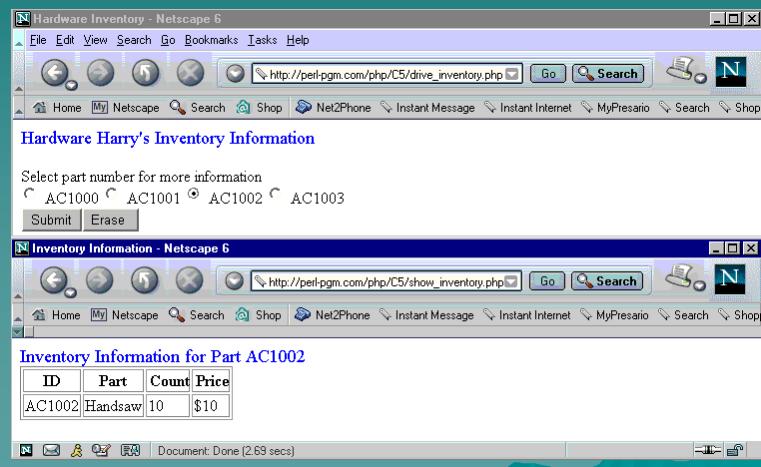
```
1. <html><head><title>Inventory Information</title>
2. </head><body>
3. <?php  $id = $_POST["id"];
4. $inventory = array (
    'AC1000'=>array('Part'=>'Hammer', 'Count'=>122, 'Price'=> 12.50 ),
    'AC1001' => array('Part' =>'Wrench', 'Count' =>5, 'Price'=>5.00 ),
    'AC1002'=>array('Part' =>'Handsaw', 'Count' =>10, 'Price'=>10.00 ),
    'AC1003'=>array('Part' =>'Screwdrivers', 'Count'=>222, 'Price'=>3.00)
);
5. if (isset($inventory[$id])){
6.     print '<font size=4 color="blue"> ';
7.     print "Inventory Information for Part $id </font>";
8.     print '<table border=1> <th> ID <th> Part <th> Count <th> Price ';
9.     print "<tr> <td> $id </td>";
10.    print "<td> {$inventory[$id]['Part']} </td>";
11.    print "<td> {$inventory[$id]['Count']} </td>";
12.    print "<td> \${$inventory[$id]['Price']} </td></tr>";
13. } else {
14.     print "Illegal part ID = $id ";
15. }
16.?> </body></html>
```

61

61

Would output the following ...

The previous code can be executed at
http://webwizard.aw.com/~phppgm/C5/drive_inventory.php



The screenshot shows two adjacent Netscape 6 browser windows. The left window is titled "Hardware Harry's Inventory Information" and contains a form with radio buttons for part numbers AC1000, AC1001, AC1002, and AC1003. Below the form are "Submit" and "Erase" buttons. The right window is titled "Inventory Information - Netscape 6" and displays a table for part AC1002. The table has columns for ID, Part, Count, and Price. The data row is: ID = AC1002, Part = Handsaw, Count = 10, Price = \$10.

ID	Part	Count	Price
AC1002	Handsaw	10	\$10