

Content

- 1. PHP Variables
- 2. Working with PHP String Variables
- 3. HTML Input Forms
- 4. HTML Input Forms and PHP Scripts



Objectives

- To learn how to store and access data in PHP variables
- To understand how to create and manipulate numeric and string variables
- To review how to create HTML input forms
- To learn how to pass data from HTML forms to PHP scripts



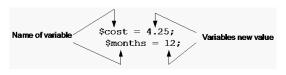
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1. PHP Variables

- Variables are used to store and access data in computer memory.
- A variable name is a label used within a script to refer to the data.





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Selecting Variable Names

- You can select just about any set of characters for a variable name in PHP, but they must:
 - Use a dollar sign (\$) as the first character
 - Use a letter or an underscore character (_) as the second character.
- Note:Try to select variable names that help describe their function. For example \$counter is more descriptive than \$c or \$ctr.



1.1. Assigning New Values to Variables

You can assign new values to variables:

\$days = 3; \$newdays = 100; \$days = \$newdays;

At the end of these three lines, \$days and \$newdays both have values of 100.



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Combining Variables and the print Statement

That is, to print out the value of \$x, write the following PHP statement:

```
print ("$x");
```

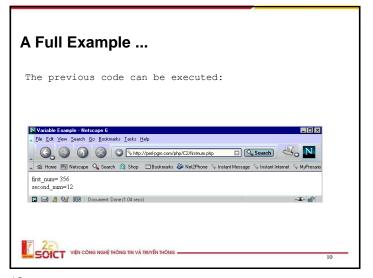
The following code will output "Bryant is 6 years old".

```
$age=6;
print ("Bryant is $age years old.");
```



A Full Example ... 1. <html> <head> <title>Variable Example </title> </head> <body> <?php 4. 5. \$first num = 12; 6. \$second num = 356; 7. \$temp = \$first num; 8. \$first num = \$second num; 9. \$second num = \$temp; 10. print ("first_num= \$first_num
 second num=\$second num"); ?> </body> </html> 11. SOICT VIỆN CÓNG NGHỆ THÔNG TIN VÀ TRUYỀN THÔNG -

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Operator	Effect	Example	Result
+	Addition	\$x = 2 + 2;	\$x is assigned 4.
	Subtraction	\$y = 3; \$y = \$y - 1;	\$y is assigned 2.
/	Division	\$y = 14 / 2;	\$y is assigned 7.
*	Multiplication	Sz = 4; Sy = Sz * 4;	\$y is assigned 16.
	Remainder	\$y = 14 % 3;	\$y is assigned 2.

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```
1. <html>
2. <head> <title>Variable Example </title> </head>
3. <body>
4. <?php
                     A Full Example
5. $columns = 20;
6. $rows = 12;
7. $total seats = $rows * $columns;
9. $ticket cost = 3.75;
10. $total revenue = $total seats * $ticket cost;
12. $building cost = 300;
13. $profit = $total_revenue - $building_cost;
15. print ("Total Seats are $total seats <br>");
16. print ("Total Revenue is $total revenue <br>");
17. print ("Total Profit is $profit");
18-03- /body & H. /b. tum li > uyén thông —
```

WARNING: Using Variables with Undefined Values

A variable that does not have a value assigned to it will have no value (called a null value).

When a variable with a null value is used in an expression PHP, PHP may not generate

an error and may complete the expression evaluation.

```
<?php
$y = 3;
$y=$y + $x + 1; // $x has a null value
print ("x=$x y=$y");
?>
```

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A Full Example ...

The previous code can be executed:

Variable Example - Netscape 5

File Edit View Search to Rookmarks Tanks Heb

Total Seats are 240
Total Revenue is 900
Total Profit is 600

Total Profit is 600

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1.3. Writing Complex Expressions

- Operator precedence rules define the order in which the operators are evaluated. For example, \$x = 5 + 2 * 6:
- The value of \$x is either 42 or 17 depending on order of evaluation.
- Since multiplication evaluated before addition operations, this expression evaluates to 17.



PHP Precedence Rules

- PHP follows the precedence rules listed below.
 - First it evaluates operators within parentheses.
 - Next it evaluates multiplication and division operators.
 - Finally it evaluates addition and subtraction operators.



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A Full Example

- 1. <html>
- 2. <head> <title>Expression Example </title> </head>
- 3. <body>
- 4. <?php
- 5. \$grade1 = 50;
- 6. \$grade2 = 100;
- 7. qrade3 = 75;
- 8. \$average = (\$grade1 + \$grade2 + \$grade3) / 3;
- 9. print ("The average is \$average");
- 10. ?> </body> </html>



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PHP Precedence Rules

- For example, the first 2 statements evaluate to 80 while the last to 180.
 - \$x = 100 10 * 2;
 - \$y = 100 (10 * 2);
 - \$z = (100 10) * 2;



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A Full Example ...

The previous code can be executed:



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WARNING: Be Careful Not to **Mix Variable Types**

- ❖ Be careful not to mix string and numeric variable types.
- For example, you might expect the following statements to generate an error message, but they will not. Instead, they will output "y=1".

```
<?php
   $x ="banana";
   \$sum = 1 + \$x;
   print ("y=$sum");
?>
```



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2. Working with PHP String Variables

- Character strings are used in scripts to hold data such as customer names, addresses, product names, and descriptions.
- Consider the following example.
 - \$name="Christopher";
 - \$preference="Milk Shake";
- \$name is assigned "Christopher" and the variable \$preference is assigned "Milk Shake".



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Using the Concatenate Operator

- The concatenate operator combines two separate string variables into one.
- For example.
 - \$fullname = \$firstname . \$lastname;
- \$fullname will receive the string values of \$firstname and \$lastname connected together.
- For example.

```
$firstname = "John";
$lastname = "Smith";
$fullname = $firstname . $lastname;
print ("Fullname=$fullname");
```



TIP: An Easier Way to Concatenate Strings

- You can also use double quotation marks to create
- concatenation directly,
- For example,
 - \$Fullname2 = "\$FirstName \$LastName";
 - This statement has the same effect as
 - \$Fullname2 = \$FirstName . " " . \$LastName;



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The strlen() Function Example

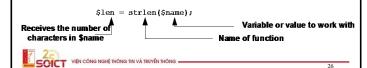
```
<?php
    $comments = "Good Job";
    $len = strlen($comments);
    print ("Length=$len");
?>
```

This PHP script would output "Length=8".



The strlen() Function

- Most string functions require you to send them one or more arguments.
- Arguments are input values that functions use in the processing they do.
- Often functions return a value to the script based on the input arguments. For example



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The trim() Function

This function removes any blank characters from the beginning and end of a string. For example, consider the following script:

```
<?php
$in_name = " Joe Jackson ";
$name = trim($in_name);
print ("name=$name$name");
?>
```



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The strtolower() and strtoupper() Functions

- These functions return the input string in all uppercase or all lowercase letters, respectively.
- For example,

```
<?php
   $inquote = "Now Is The Time";
   $lower = strtolower($inquote);
   $upper = strtoupper($inquote);
   print ("upper=$upper lower=$lower");
?>
```

The above would output "upper=NOW IS THE TIME lower=now is the time".



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The substr() Function

- The substr() function enumerates character positions starting with 0(not 1)
 - For example, in the string "Homer", the "H" would be position 0, the "o" would be position 1, the "m" position 2, and so on
- For example, the following would output "Month=12 Day=25".

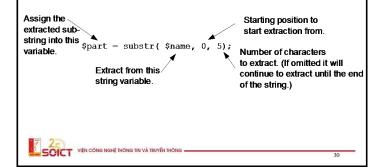
```
<?php
   $date = "12/25/2002";
   $month = substr($date, 0, 2);
   $day = substr($date, 3, 2);
  print ("Month=$month Day=$day");
```



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The substr() Function

■ Substr has the following general format:



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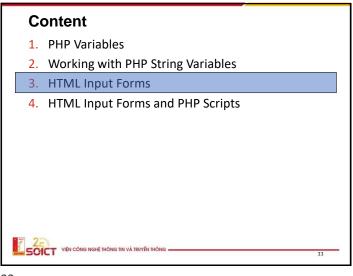
The substr() Function

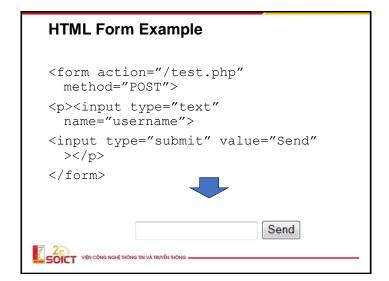
- As another example, consider the following use of the substr() function
 - It does not include the third argument (and thus returns a substring from the starting position to the end of the search string)

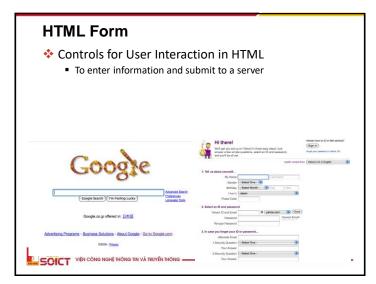
```
<?php
  delta = "12/25/2002";
  $year = substr($date, 6);
  print ("Year=$year");
```

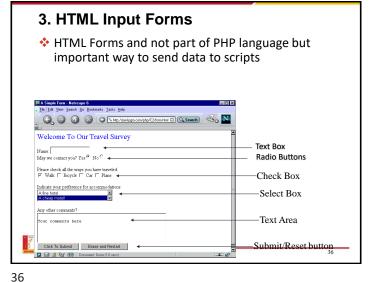
♦ → Output "Year=2002"

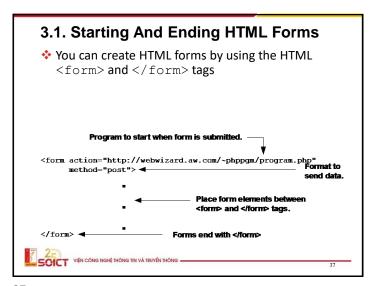


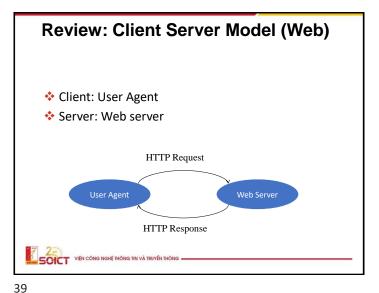








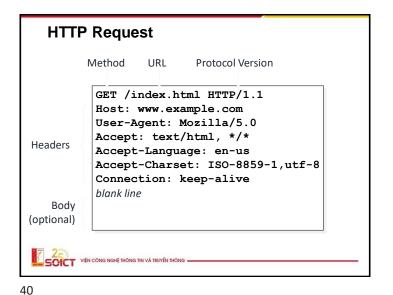


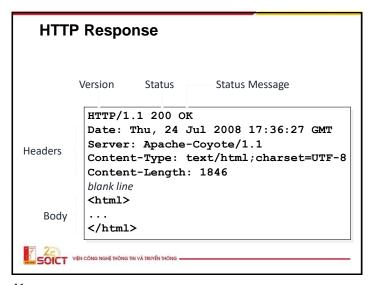


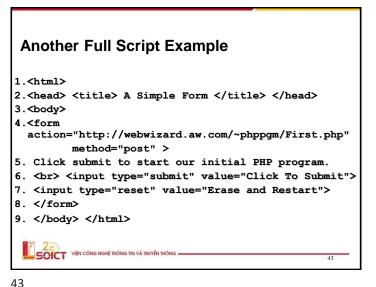
HTML Form action attribute ■ URI Reference where you want to send data method attribute Data transfer method · Send data in the guery part of the URI · Send data in the body of the submission

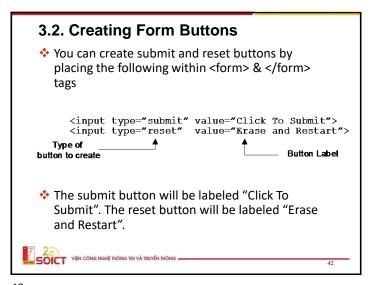
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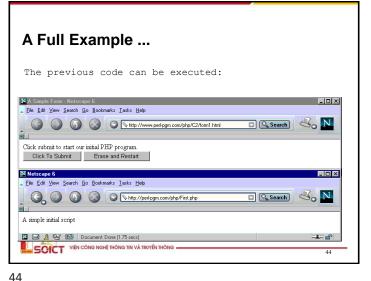
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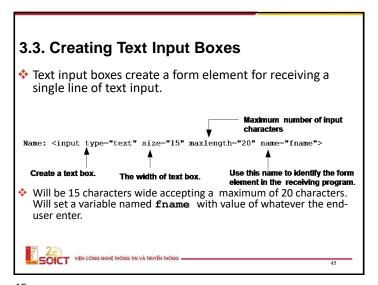








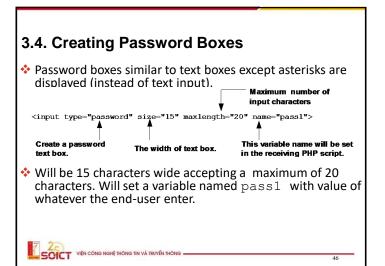


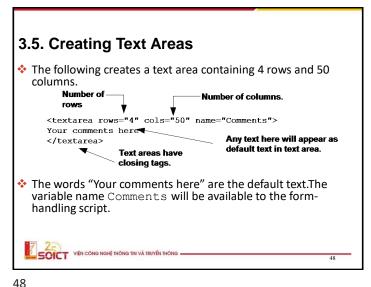


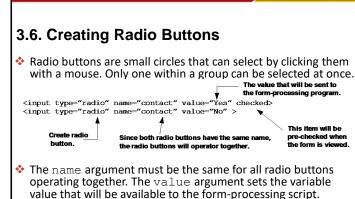
Warning: Password Boxes Not Secure

- * When the user submits the form, any data input is sent in clear text (nonencrypted) just like any other HTML form field.
- Someone with network access could, therefore, read the password being transferred.
- For this reason, most Web applications do not use this approach to receive and transmit passwords.

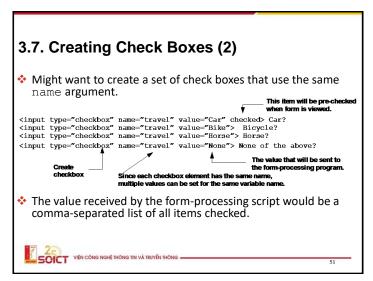


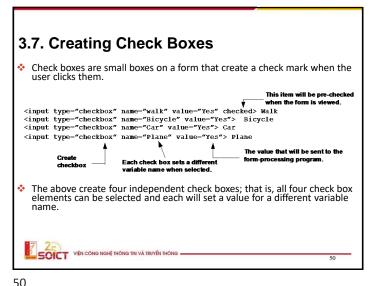


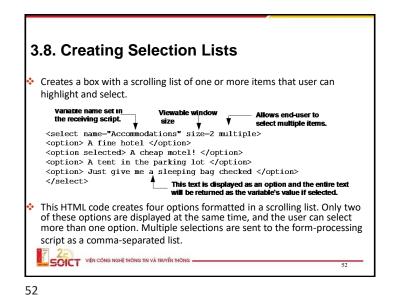




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Full Example

- Suppose your HTML form uses the following
 - Enter email address: <input type="text" size="16" maxlength="20" name="email">
- Then can receive input as follows
- 1. <html>
- 2. <head><title> Receiving Input </title> </head>
- 3. <body>
- Thank You: Got Your Input.
- 6. print ("
Your email address is \$email");
- - print ("
 Contact preference is \$contact");
- ?>

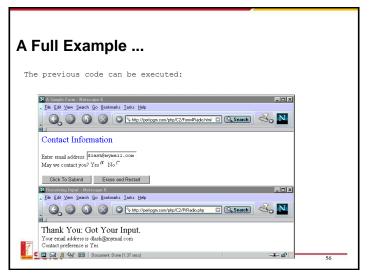
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Receiving Form Input into PHP Scripts

- To receive HTML form input into a PHP script:
 - Use a PHP var name that matches the variable defined in the form element's name argument.
- . E.g., if form uses the following:
 - <input type="radio" name="contact" value="Yes">
- Then form-handling PHP script could use a variable called \$contact.
 - If the user clicks the radio button, then \$contact would =





Register_Globals?

- Since PHP 4.2.1, the default PHP configuration is require a different mechanism to receive input for security reasons (than the one just shown).
 - Technical details: it is a PHP configuration option to turn REGISTER GLOBALS OFF (new default) or ON in the php.ini configuration file.
- ❖ If your site has REGISTER GLOBALS OFF you must use a different mechanism to receive HTML Form Variables.

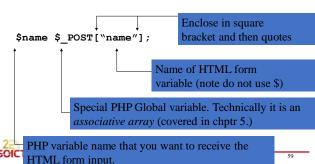


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Getting input data with Register_Globals OFF?

To receive data with REGISTER GOBALS OFF you use a special variable called \$_POST.



How can you tell if Register_Globals is OFF?

- Enter the following PHP script and run it.
 - <?PHP phpinfo(); ?>
- Search through the output for REGISTER GLOBALS and see if it is set to OFF or ON.
- If it is off you must use the following way to receive input data.



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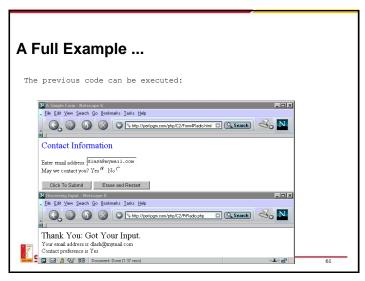
Full Example, when **REGISTER GLOBALS is OFF**

- Suppose your HTML form uses the followingemail address: <input type="text" size="16" maxlength="20" name="email">
- Then can receive input as follows

```
1. <html>
    <head><title> Receiving Input </title> </head>
    <body>
4.
      <font size=5>Thank You: Got Your Input.</font>
5.
```

- 6. \$email = \$ POST["email"]; \$contact = \$ POST["contact"]; 8. print ("
Your email address is \$email");
- 9. print ("
 Contact preference is \$contact"); 10.





Summary

- You can use HTML forms to pass data to PHP scripts. HTML form elements include text boxes, text areas, password boxes, check boxes, radio buttons, and selection lists.
- PHP scripts can receive form element input values by using a PHP variable name that matches the one specified in the form element's name argument.
 - If RESITER_GLOBALS is off in your installation you must get input data using \$POST["var_name"];



Summary

- Variables are used to store and access data in computer memory.
- You can associate a value with a variable, change that value, print it out, and perform many different operations on it.
- PHP supports both numeric and string variables. String variables use different methods for value manipulation (for example, concatenation) than numeric variables do.



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Exercise 1. Firefox and Add-ons

- Install Firefox
 - http://www.mozilla.com/en-US/firefox/
- 2. Install Add-ons
 - DOM Inspector
 - Firebug
 - Web Developer
- 3. Restart Firefox



