

# Foundations to Get You Started

Beth Tucker Long

# How this talk will work:

- You can ask questions at any time.
- Code will build from slide to slide, but due to space constraints, we can't show it all on one slide
- The code being shown is for teaching use only, it is not optimized in any way. It should not be used as is for a live system.

# Who am I?

- Beth Tucker Long (@e3beth)
- Editor-in-Chief - php[architect] magazine
- Freelancer under Treeline Design, LLC
- Stay-at-home-mom



- User group organizer – Madison PHP

# Get Involved

- User Groups
  - PHP.usergroups – <http://php.ug>
  - Meetup- <http://www.meetup.com>
  - Nomad PHP - <http://nomadphp.com>
  - php.net (right sidebar on homepage and <http://php.net/cal.php>)

# Get Involved

- Conferences and Summits
  - Day Camp 4 Developers - <http://daycamp4developers.com/>
  - php[architect] Summit Series - <http://summits.phparch.com/>
  - ProTalk - <http://protalk.me/>
  - Joind.in - <http://joind.in/>

# Get Involved and Find Help

- IRC – Freenode
  - ##php – help channel
  - #phpc – community channel
  - #madisonphp – Madison PHP channel
  - Web chat: <https://webchat.freenode.net/>

**Connect to freenode IRC**

Nickname:

Channels:

Auth to services:

[reCAPTCHA:](#)

Audio captcha:



# Get Involved and Find Help

- Twitter
  - PHP Community - <https://twitter.com/phpc>
  - Madison PHP - <https://twitter.com/madisonphp>
- Facebook
  - PHP Community - <https://www.facebook.com/groups/4189052132/>
  - php[architect] - <https://www.facebook.com/phparch>
  - Madison PHP - <https://www.facebook.com/madisonpug>
- PHPDeveloper - <http://phpdeveloper.org/>

# Online Training

- php[architect] -

<http://www.phparch.com/training/>

- Code Academy -

<http://www.codecademy.com/tracks/php>

# Getting Started

- Start with your standard HTML
- **Opening PHP tag**
- **PHP code**
- **Closing PHP tag**
- Close out your HTML page

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0  
    Transitional//EN"  
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-  
    transitional.dtd">  
<html xmlns="http://www.w3.org/1999/xhtml"  
    xml:lang="en" lang="en">  
<head><title>Order Some Pizza</title</head>  
<body>  
  
<h1>Welcome to Joe's Pizza!</h1>  
  
<?php  
    $name = "Beth";  
    echo "<p>$name's order:</p>";  
  
?>  
  
</body></html>
```

# Start with Standard HTML

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0  
  Transitional//EN"  
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-  
  transitional.dtd">  
<html xmlns="http://www.w3.org/1999/xhtml"  
  xml:lang="en" lang="en">  
<head><title>Order Some Pizza</title</head>  
<body>  
  
<h1>Welcome to Joe's Pizza!</h1>
```

# Opening PHP tag

```
<?php
```

# Short Opening PHP tag

```
<?
```

# PHP code

```
$name = "Beth";
```

## Variables:

- Preceded by a dollar sign - \$
- Names may contain letters, numbers, and underscores, but must start with a letter or underscore
- Loosely-typed
- Assigned a value using the equal sign

# PHP code

```
$name = "Beth";
```

```
echo "<p>$name's order:</p>";
```

Will send to the browser:

```
<p>Beth's order:</p>
```

# Quoting Strings

## Double-quoted, parsed and interpreted:

```
echo "<p>$name said, \"Let's Go!\"</p>";
```

```
echo 'Enter it at the C:\ prompt';
```

```
echo 'Enter it at the C:\\ prompt';
```

## Single-quoted, string literal, not parsed:

```
echo '<p>$name said, "Let\'s Go!"</p>';
```

```
echo "Enter it at the C:\\ prompt";
```

# Quoting Strings

## **Heredoc, parsed and interpreted:**

```
echo <<<MYSTRING  
<p>$name said, "Let's Go!" </p>  
MYSTRING;
```

## **Nowdoc, string literal, not parsed, since PHP 5.3.0:**

```
echo <<<'MYSTRING'  
<p>$name said, "Let's Go!" </p>  
MYSTRING;
```

# Closing PHP tag - Optional

?>

## Close out your HTML page

```
</body></html>
```

# Echo'ing and HTML

```
echo "<p>Welcome, $name!<br />
<em>Thank you</em> for visiting $sitename
today.</p>" ;
```

# Echo'ing and HTML

```
<p>Welcome, <?php echo "$name"; ?>! Thank you  
for visiting <?php echo "$sitename"; ?>  
today.</p>
```

**If you have PHP 5.4.0+ or the short\_open\_tag  
configuration enabled:**

```
<p>Welcome, <?="$name"?>! Thank you for  
visiting <?="$sitename"?> today.</p>
```

# Making Comments

```
// This is a comment
```

```
# This is a comment
```

```
/* This is also a comment  
and one you are very likely  
to see in code  
*/
```

# Good Coding Practices

- Pear Coding Standard:  
<http://pear.php.net/manual/en/standards.php>
- Pear2 Coding Standard:  
<http://pear.php.net/manual/en/pear2cs.php>
- ZF2 Coding Standard:  
<http://framework.zend.com/wiki/display/ZFDEV2/Coding+Standards>
- phpDocumentor: <http://www.phpdoc.org/>
- PHP-FIG: <http://www.php-fig.org/>

# Math

`$a = $a + 3;`

`$a += 3;`

`$a++;`

`$a = $a - 3;`

`$a -= 3;`

`$a--;`

`$a = $a * 2;`

`$a *= 2;`

`$a = $a / 2;`

`$a /= 2;`

# Let's Make Something

- Order form to order a pizza
  - Customer name
  - Size of pizza
  - Allow multiple topping choices
  - Printable receipt

# The Order Form

- We'll create a form that looks like this:

Name:

Choose a Size:

- Small
- Medium
- Large

Add Toppings:

- Mushrooms
- Extra Cheese
- Green Peppers
- Pepperoni
- Black Olives
- Sausage

# Starting the Form

```
<form action=" ./orderPizza.php" method="POST" >
```

# Text Field

Name:

```
<p>Name: <input type="text" name="custName"
  maxlength="200" /></p>
```

# Radio Buttons

Choose a Size:

Small

Medium

Large

```
<p>Choose a Size:<br />
```

```
<input type="radio" name="pizzaSize"  
  value="Small" /> Small<br />
```

```
<input type="radio" name="pizzaSize"  
  value="Medium" /> Medium<br />
```

```
<input type="radio" name="pizzaSize"  
  value="Large" /> Large</p>
```

# Checkboxes

Add Toppings:

- Mushrooms       Extra Cheese  
 Green Peppers     Pepperoni  
 Black Olives         Sausage

```
<input type="checkbox" name="Mushrooms"
  value="Yes" /> Mushrooms<br />
```

```
<input type="checkbox" name="GreenPeppers"
  value="Yes" /> Green Peppers<br />
```

```
<input type="checkbox" name="BlackOlives"
  value="Yes" /> Black Olives <br />
```

```
<input type="checkbox" name="ExtraCheese"
  value="Yes" /> Extra Cheese<br />
```

```
<input type="checkbox" name="Pepperoni"
  value="Yes" /> Pepperoni<br />
```

# Input Field

Place Order

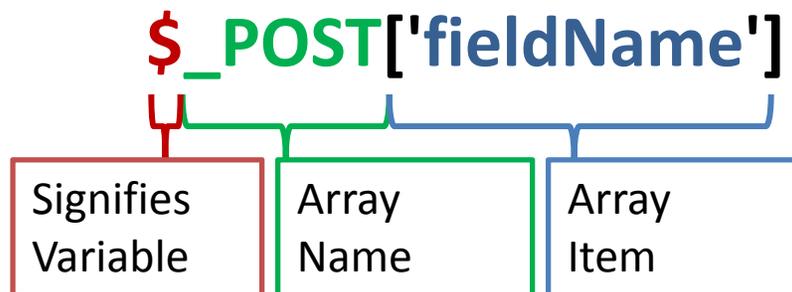
```
<input type="submit" name="pizzaStatus"  
  value="Place Order" />
```

## Closing the form

```
</form>
```

# What We Get

- A superglobal
- POST or GET
- Everything is a string
- An array



# Two Types of Arrays

- Enumerated: `$arrayName[]`
  - `$arrayName[0]`
  - `$arrayName[1]`
- Associative: `$arrayName[stringName]`
  - `$custInfo['firstName']`
  - `$custInfo['lastName']`

# Built-in Functions

```
functionName($parameter1, $parameter2)
```

# Creating Arrays

- Enumerated:

```
$arrayName = array("firstValue",  
"secondValue");
```

```
$arrayName[] = "thirdValue";
```

```
echo $arrayName[1];  
// secondValue
```

# Creating Arrays

- Associative:

```
$custInfo= array ( "firstName" => "Beth" ,  
"lastName" => "Tucker Long" );
```

```
$custInfo["twitterHandle"] = "e3betht";
```

```
echo $custInfo["lastName"] ;  
// Tucker Long
```

# Quoting Arrays

```
echo "First item: $_POST[0]";
```

```
{$_POST['custName']}  
.$_POST['pizzaSize'].
```

```
echo "<p>This order is for  
{$_POST['custName']}</p>  
<p>Size: " . $_POST['pizzaSize'] . "</p>";
```

# Nested Arrays

A nested array:

```
$_POST = array("custInfo" =>
array("firstName" => "Beth", "lastName" =>
"Tucker Long"));

echo $_POST['custInfo']['lastName'];
// Tucker Long
```

# What We Are Currently Getting

- `$_POST['custName']`
- `$_POST['pizzaSize']`
- `$_POST['pizzaStatus']`
- `$_POST['Mushrooms']`
- `$_POST['ExtraCheese']`
- `$_POST['GreenPeppers']`
- `$_POST['Pepperoni']`
- `$_POST['Black Olives']`
- `$_POST['Sausage']`

# Revised: Adding an Input Array

```
<input type="checkbox" name="pizzaToppings[]" value="Mushrooms" /> Mushrooms<br />
```

```
<input type="checkbox" name="pizzaToppings[]" value="Green Peppers" /> Green Peppers<br />
```

```
<input type="checkbox" name="pizzaToppings[]" value="Black Olives" /> Black Olives<br />
```

```
<input type="checkbox" name="pizzaToppings[]" value="Extra Cheese" /> Extra Cheese<br />
```

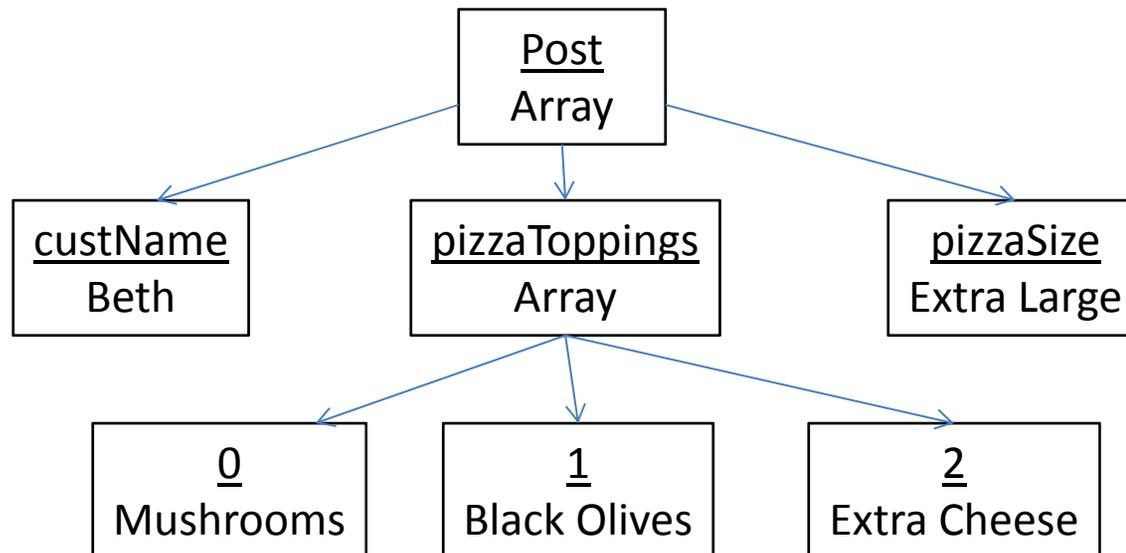
```
<input type="checkbox" name="pizzaToppings[]" value="Pepperoni" /> Pepperoni<br />
```

```
<input type="checkbox" name="pizzaToppings[]" value="Sausage" /> Sausage</p>
```

# Revised: What we get

The variables from our form:

- `$_POST['custName']`
- `$_POST['pizzaSize']`
- `$_POST['pizzaToppings']`
- `$_POST['pizzaStatus']`



# Displaying Arrays

```
print_r($arrayName);  
Array  
(  
    [0] => firstValue  
    [1] => secondValue  
    [2] => thirdValue  
)
```

# Displaying Arrays

```
var_dump($custInfo);
```

```
array(3) {  
    ["firstName"]=> string(4) "Beth"  
    ["lastName"]=> string(11) "Tucker Long"  
    ["twitterHandle"]=> string(7) "e3betht"  
}
```

# while Loop

```
// count($arrayToCount);
```

```
$n = 0;
```

```
while($n < count($_POST['pizzaToppings'])) {  
    echo  
    "<li>{$_POST['pizzaToppings'][$b]}</li>";  
    $n++;  
}
```

# for Loop

```
for($n = 0; $n <
count($_POST['pizzaToppings']); $n++;) {
    echo
    "<li>$_POST['pizzaToppings'][$n]</li>";
}
```

# foreach Loop

```
foreach($_POST['pizzaToppings'] as $topping)  
{  
  
    echo "<li>$topping</li>";  
  
}
```

# Associative foreach Loop

```
foreach($_POST['custInfo'] as $label =>
$value) {

    echo "$label: $value<br />";

}
```

# Displaying the Pizza Choices

```
echo "<p>This order is for  
{$_POST['custName']}</p>  
<p>Size: " . $_POST['pizzaSize'] . "</p>  
<p>Toppings:</p><ul>" ;  
foreach($_POST['pizzaToppings'] as $stopping)  
{  
    echo "<li>$stopping</li>" ;  
}  
echo "</ul>" ;
```

# Reordering the Toppings

```
sort($_POST['pizzaToppings']);  
echo "<p>Toppings:</p><ul>";  
foreach($_POST['pizzaToppings'] as $stopping)  
{  
    echo "<li>$stopping</li>";  
}  
echo "</ul>";
```

# Notes on Sorting

```
$pictures = array("img1", "img20", "img5",  
"img10", "img3");
```

```
sort($pictures);  
print_r($pictures);
```

```
Array (  
    [0] => img1  
    [1] => img10  
    [2] => img20  
    [3] => img3  
    [4] => img5  
)
```

# Sorting Naturally

## With PHP 5.4.0+:

```
$pictures = array("img1", "img20", "img5",  
"img10", "img3");
```

```
sort($pictures, SORT_NATURAL);  
print_r($pictures);
```

Array (

[0] => img1

[1] => img3

[2] => img5

[3] => img10

[4] => img20

)

# Sorting Naturally

**With PHP 5.4.0+:**

```
sort($place);  
print_r($place);
```

```
Array (  
    [0] => Greece  
    [1] => Malaysia  
    [2] => US  
    [3] => Uganda  
)
```

```
sort($place,  
    SORT_NATURAL);  
print_r($place);
```

```
Array (  
    [0] => Greece  
    [1] => Malaysia  
    [2] => Uganda  
    [3] => US  
)
```

# Sorting with Keys

```
$winners = array("first" => "blue", "second"  
=> "green", "third" => "purple");
```

```
sort($winners);  
print_r($winners);
```

```
Array (  
    [0] => blue  
    [1] => green  
    [2] => purple  
)
```

# Keeping Keys

```
$winners = array("first" => "blue", "second"  
=> "green", "third" => "purple");
```

```
asort($winners);  
print_r($winners);
```

```
Array (  
    [third] => blue  
    [first] => green  
    [second] => purple  
)
```

# Sorting Keys

```
$winners = array("first" => "green",  
"second" => "purple", "third" => "blue");
```

```
ksort($winners);  
print_r($winners);
```

```
Array (  
    [first] => green  
    [second] => purple  
    [third] => blue  
)
```

# Making Decisions

- Only display form when ordering pizza
- Afterwards, display only the receipt

# Comparison Operators

`==` Checks if the value of the two is the same

`===` Checks if the value and data type of the two is the same

`<` Less than

`<=` Less than or equal to

`>` Greater than

`>=` Greater than or equal to

# Logical Operators

&& both operands are true (AND)  
|| at least one operand is true (OR)  
XOR exactly one operand is true

# if

```
if ( $_POST['pizzaStatus'] == "Place Order" )  
{  
    // Code to be executed  
}
```

# if-else

```
if ( $_POST['pizzaStatus'] == "Place Order" )  
  {  
    // Code to be executed  
  } else {  
    // Code to be executed  
  }
```

# if-elseif-else

```
if ( $_POST['pizzaStatus'] == "Place Order" )  
  {  
    // Code to be executed  
  } elseif ( $_POST['pizzaStatus'] ==  
    "Continue" ) {  
    // Code to be executed  
  } else {  
    // Code to be executed  
  }
```

# Decision Code

```
<?php
if ($_POST['pizzaStatus'] == "Place Order") {
    echo "<p>This order is for {$_POST['custName']}</p>";
    echo "<p>Size: " . $_POST['pizzaSize'] . "</p>";
    echo "<p>Toppings:</p><ul>";
    foreach($_POST['pizzaToppings'] as $topping) {
        echo "<li>$topping</li>";
    }
    echo "</ul>";
}
else {
?>
<form action="./orderPizza.php" method="POST">
<p>Name: <input type="text" name="custName" maxlength="200" /></p>
<p>Choose a Size:<br />
<input type="radio" name="pizzaSize" value="Small" /> Small<br />
<input type="radio" name="pizzaSize" value="Medium" /> Medium<br />
<input type="radio" name="pizzaSize" value="Large" /> Large</p>
<p>Add Additional Toppings:<br />
<input type="checkbox" name="pizzaToppings[]" value="Mushrooms" /> Mushrooms<br />
...
<input type="submit" name="pizzaStatus" value="Place Order" />
</form>
<?php
}
?>
```

# Validation

```
if (strlen($_POST['custName']) < 1) {  
    $errorMessages[] = "Please enter your Name.";  
}
```

```
if(count($_POST['pizzaToppings']) < 1) {  
    $errorMessages[] = "Please choose at least  
    one topping."  
}
```

# Validation

Besides incomplete submissions, we also always want to avoid malicious submissions.

```
$_POST['custName'] =  
    htmlentities($_POST['custName']);  
  
if(!ctype_alpha($_POST['pizzaSize'])) {  
    $errorMessages[] = "Please choose a Size.";  
}
```

# Validation

```
if (is_array($_POST['pizzaToppings'])) {
    $checkToppings = implode("a", $_POST['pizzaToppings']);

    $checkToppings = str_replace(" ", "a", $checkToppings);

    if(!ctype_alpha($checkToppings)) {
        $errorMessages[] = "Please choose some
Toppings.";
    }
}

if(!ctype_alpha(str_replace(" ", "a",
    implode("a", $_POST['pizzaToppings'])))) {
```

# Basic Security

Validate input; Escape out.

# Failure Happens

When a validation test fails, make it easy for your user to fix it (Check for malicious submissions, but always treat your users as though it were an accident).

```
if ($_POST['pizzaStatus'] == "Place Order")
{
    //All our validation tests here
    if(is_array($errorMessages)) {
        echo "<ul>";
        foreach($errorMessages as $message)
        {
            echo "<li>$message</li>";
        }
        echo "</ul>";
        //Form Code Goes Here
    }
    else {
        //Confirmation Code Goes Here
    }
}
else {
    //Form Code Goes Here
}
```

# Returning the Form with Data

```
<p>Name: <input type=\"text\" name=\"custName\"  
  maxlength=\"200\" value=\"$custName\" /></p>
```

# Returning the Form with Data

```
<p>Choose a Size:<br />
```

```
<input type=\"radio\" name=\"pizzaSize\"  
  value=\"Small\"  \";
```

```
if($pizzaSize == "Small") { echo "checked "; }
```

```
echo "/> Small<br />";
```

# Returning the Form with Data

```
<p>Add Additional Toppings:<br />
```

```
<input type=\"checkbox\"  
  name=\"pizzaToppings[]\" value=\"Mushrooms\"  
  \";
```

```
if(in_array("Mushrooms", $pizzaToppings)) { echo  
  "checked "; }
```

```
echo "/> Mushrooms<br />";
```

# Aside

```
echo "<textarea>$data</textarea>" ;
```

```
echo "<select name="choice">  
<option value=\"Yes\" \" ;  
if($_POST['choice'] == "Yes") {  
    echo " selected";  
}  
echo "> Yes</option>" ;
```

# Highlight Fields

```
if (strlen($_POST['custName']) < 1) {
    $errorFields[] = "custName";
    $errorMessages['custName'] = "Please enter your
    Name." ;
}
if(in_array("custName", $errorFields) {
    echo "<p
    class=\"error\">{$errorMessages['custName']}<br
    />" ;
} else {
    echo "<p>" ;
}
echo "Name: <input type=\"text\" name=\"custName\"
    maxlength=\"200\" value=\"\$custName\" /></p>" ;
```

# Highlight Fields

```
if (strlen($_POST['custName']) < 1) {
    $errorMessages['custName'] = "Please enter your
    Name. ";
}
if(array_key_exists("custName", $errorMessages) {
    echo "<p
    class=\"error\">{$errorMessages['custName']}<br
    />";
} else {
    echo "<p>";
}
echo "Name: <input type=\"text\" name=\"custName\"
    maxlength=\"200\" value=\"${custName}\" /></p>";
```

# Lots of Redundancy

```
if ($_POST['pizzaStatus'] == "Place Order") {  
    //All our validation tests here  
    if(is_array($errorMessages)) {  
        echo "<ul>";  
        foreach($errorMessages as $message) {  
            echo "<li>$message</li>";  
        }  
        echo "</ul>";  
        //Form Code Goes Here  
    }  
    else {  
        //Confirmation Code Goes Here  
    }  
}  
else {  
    //Form Code Goes Here  
}
```

# Reducing Redundancy

```
function checkIfBad($fieldName) {
    if (strlen($_POST[$fieldName] > 0)) {
        if(strpos($_POST[$fieldName], "=") === false) {
            return true;
        }
        else {
            return false;
        }
    }
    else {
        return false;
    }
}
if (checkIfBad("custName")) { $errorMessage[] = "custName message"; }
if (checkIfBad("pizzaSize")) { $errorMessage[] = "pizzaSize message"; }
```

# Ternary Operator

```
function checkIfBad($fieldName) {  
    if (strlen($_POST[$fieldName] > 0)) {  
        $result = (strpos($_POST[$fieldName], "=") === false) ? true : false;  
    }  
    else {  
        $result = false;  
    }  
    return $result;  
}  
  
if (checkIfBad("custName")) { $errorMessage[] = "custName message"; }  
if (checkIfBad("pizzaSize")) { $errorMessage[] = "pizzaSize message"; }
```

# Reducing Redundancy

Create the function:

```
function displayForm($custName, $pizzaSize,  
    $pizzaToppings) {  
    //echo Form code Here  
}
```

And then use it whenever you need it:

```
else {  
    displayForm($_POST['custName'], $_POST['pizzaSize'],  
        $_POST['pizzaToppings']);  
}
```

# Quick Note on Scope

Variables are passed in "by value" by default:

```
function changeNumber($myNumber) {  
    $myNumber = 5;  
}
```

```
$myNumber = 11;
```

```
changeNumber($myNumber);
```

```
echo $myNumber;
```

```
// 11
```

# Passing by Reference

```
function changeNumber(&$myNumber) {  
    $myNumber = 5;  
}
```

```
$myNumber = 11;
```

```
changeNumber($myNumber);
```

```
echo $myNumber;
```

```
// 5
```

# Required Parameters

```
function changeNumber(&$myNumber, $changeTo) {  
    $myNumber = $changeTo;  
}  
$myNumber = 11;
```

```
changeNumber($myNumber);
```

**Warning:** Missing argument 2 for changeNumber(), called in  
/your/file/path/file.php on line 9 and defined in  
**/your/file/path/file.php** on line 3

# Optional Parameters

```
function changeNumber(&$myNumber, $changeTo = 5) {  
    $myNumber = $changeTo;  
}
```

```
$myNumber = 11;
```

```
changeNumber($myNumber);
```

```
echo $myNumber;
```

```
// 5
```

```
changeNumber($myNumber, 7);
```

```
echo $myNumber;
```

```
// 7
```

# A Few More Functions

- **strtoupper(\$string)**  
echo strtoupper("this is my phrase");  
// THIS IS MY PHRASE
- **strtolower(\$string)**  
echo strtolower("HELLO");  
// hello
- **substr(\$string, \$start, \$length)**  
echo substr("the quick fox", 4, 5);  
// quick  
echo substr("the quick fox", -3);  
// fox

# A Few More Functions

- **trim(\$string)**

```
echo trim("    phrase");  
// phrase
```

- **str\_word\_count(\$string, \$format, \$charlist)**

```
echo str_word_count("the quick fox",0);  
// 3  
var_dump(str_word_count("quick fox", 1));  
// array(2) { [0]=> string(5) "quick" [1]=> string(3) "fox" }  
echo str_word_count("ab lsab lsab 12 45",0);  
// 3  
echo str_word_count("ab lsab lsab 12 45",0,"45");  
// 4
```

# Printable receipt

- Nice format for printing
- No header/footer graphics

# Accessing the Data

## Sessions:

- Server-side
- Less picky on header timing

## Cookies:

- Client-side
- Must occur before headers are sent

## Both:

- Allow data to be stored by one script and accessed by another
- Accessible via superglobal array

# Using Sessions

Place this at the very top of your page:

```
session_start();
```

This must occur before headers are sent. Things that will send the headers:

- the HTML declarations
- Whitespace
- echo'ing anything

# Using Sessions

In our script, add this below the confirmation code:

```
$_SESSION['custName'] = $_POST['custName'];  
$_SESSION['pizzaSize'] = $_POST['pizzaSize'];  
$_SESSION['pizzaToppings'] = $_POST['pizzaToppings'];
```

**Faster, but could cause security concerns:**

```
$_SESSION['data'] = $_POST;  
//$_SESSION['data']['pizzaToppings']
```

# Using Sessions

Place this where you want the print link to display:

```
echo "<a href=\"printReceipt.php\">Printable  
Receipt</a>";
```

# Script for Printing

```
<?php
    session_start();

    echo "<p>This order is for {$_SESSION['custName']}</p>
    <p>Size: " . $_SESSION['pizzaSize'] . "</p>
    <p>Toppings:</p><ul>";
    if(is_array($_SESSION['pizzaToppings'])) {
        foreach($_SESSION['pizzaToppings'] as $topping) {
            echo "<li>$topping</li>";
        }
    }
    echo "</ul>";
?>
```

# Got cookies?

Order form code needs to be reorganized so that the validation occurs before any HTML is outputted to the browser. Then add:

```
setcookie("custName", $_POST['custName']);  
setcookie("pizzaSize", $_POST['pizzaSize']);  
setcookie("pizzaToppings",  
    serialize( $_POST['pizzaToppings'] );
```

# Got cookies?

Your print script is updated to:

```
<?php
    echo "<p>This order is for {$_COOKIE['custName']}</p>
    <p>Size: " . $_COOKIE['pizzaSize'] . "</p>
    <p>Toppings:</p><ul>" ;
    $pizzaToppings =
    unserialize(stripslashes($_COOKIE['pizzaToppings'])) ;
    if(is_array($pizzaToppings)) {
        foreach($pizzaToppings as $stopping) {
            echo "<li>$stopping</li>" ;
        }
    }
    echo "</ul>" ;
?>
```

# php.net



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search for  in the [function list](#)

## What is PHP?

PHP is a widely-used general-purpose scripting language that is especially suited for Web development and can be embedded into HTML. If you are new to PHP and want to get some idea of how it works, try the [introductory tutorial](#). After that, check out the online [manual](#).

Ever wondered how popular PHP is? See the [Netcraft Survey](#).

## Thanks To

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[Directi](#)  
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[Rackspace](#)

Upcoming conferences: [Ski PHP 2014](#) [Madison PHP Conference](#) [CodeConnexx 2013](#)

Calling for papers: [Ski PHP 2014](#)

## [A further update on php.net](#)

[24-Oct-2013](#) We are continuing to work through the repercussions of the php.net malware issue described in a news post earlier today. As part of this, the php.net systems team have audited every server operated by php.net, and have found that two servers were compromised: the server which hosted the www.php.net, static.php.net and git.php.net domains, and was previously suspected based on the JavaScript malware, and the server hosting bugs.php.net. The method by which these servers were compromised is unknown at this time.

All affected services have been migrated off those servers. We have verified that our Git repository was not compromised, and it remains in read only mode as services are brought back up in full.

As it's possible that the attackers may have accessed the private key of the php.net SSL certificate, we have revoked it immediately. We are in the process of getting a new certificate, and expect to restore access to php.net sites that require SSL (including bugs.php.net and wiki.php.net) in the next few hours.

To summarise, the situation right now is that:

## Stable Releases

[Current PHP 5.5 Stable: 5.5.5](#)

[Current PHP 5.4 Stable: 5.4.21](#)

[Current PHP 5.3 Stable: 5.3.27](#)

## Release Candidates

[5.5.6RC1 \(31 Oct 2013\)](#)

[5.4.22RC1 \(31 Oct 2013\)](#)

## Upcoming Events [\[add\]](#)

### November

## Conferences

07. [TrueNorthPHP](#)

08. [CodeConnexx 2013](#)

**16. [Madison PHP Conference](#)**

18. [ZendCon Europe 2013](#)

21. [PHP Forum 2013](#)

21. [Forum PHP 2013](#)

## User Group Events

# Searching php.net

- <http://www.php.net/strlen>
- Search the function list:

 in the  

- Search the website content:

 in the

# Function Pages

⌕ PHP Manual

^ Function Reference

^ Text Processing

^ Strings

^ String Functions

- addslashes
- addslashes
- bin2hex
- chop
- chr
- chunk\_split
- convert\_cyr\_string
- convert\_uuencode
- convert\_uuencode
- count\_chars
- crc32
- crypt
- echo
- explode
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- get\_html\_translation\_table
- hebrev
- hebrevc
- hex2bin
- html\_entity\_decode
- htmlentities

«[stristr](#)

[strnatcasecmp](#)»

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[[edit](#)] Last updated: Fri, 01 Nov 2013

## strlen

(PHP 4, PHP 5)

strlen — Get string length

### Description

[Report a bug](#)

```
int strlen ( string $string )
```

Returns the length of the given *string*.

### Parameters

[Report a bug](#)

*string*

The string being measured for length.

## Return Values

[Report a bug](#)

The length of the *string* on success, and **0** if the *string* is empty.

## Changelog

[Report a bug](#)

Version	Description
5.3.0	Prior versions treated arrays as the string <b>Array</b> , thus returning a string length of <b>5</b> and emitting an <b>E_NOTICE</b> level error.

## Examples

[Report a bug](#)

### Example #1 A strlen() example

```
<?php
$str = 'abcdef';
echo strlen($str); // 6

$str = ' ab cd ';
echo strlen($str); // 7
?>
```

## [-] Notes

[Report a bug](#)

### Note:

**strlen()** returns the number of bytes rather than the number of characters in a string.

### Note:

**strlen()** returns **NULL** when executed on arrays, and an **E\_WARNING** level error is emitted.

## [-] See Also

[Report a bug](#)

- [count\(\)](#) - Count all elements in an array, or something in an object
- [mb\\_strlen\(\)](#) - Get string length

# Followed by User Comments

# Common Problems

**Parse error: syntax error, unexpected '{' in  
/your/path/file.php on line 7**

```
if(empty($myVar) {  
    echo "This is empty!";  
}
```

# Common Problems

**Parse error: syntax error, unexpected T\_STRING, expecting ',' or ';' in /your/path/file.php on line 18**

```
echo "Hello;  
echo "Hi Again";  
if ($this === $that) {  
    echo "Hi a third time";  
}
```

# Common Problems

```
$myVar = 5;
```

```
if ($myVar = "10") {  
    echo "They match!";  
else {  
    echo "Try Again.";  
}
```

```
//Always outputs "They match!"
```

# Loop Uh-oh

**Warning:** Invalid argument supplied for foreach() in  
**/your/dir/path/file.php** on line **6**

```
foreach($_POST['pizzaToppings'] as $stopping)
{
    echo "<li>$stopping</li>";
}
```

# Corrected Loop

```
if(is_array($_POST['pizzaToppings']) {  
    foreach($_POST['pizzaToppings'] as  
        $topping) {  
        echo "<li>$topping</li>";  
    }  
}  
  
if(count($_POST['pizzaToppings']) > 0) {
```

# Yoda Syntax

```
$myVar = 5;
```

```
if ("10" = $myVar) {  
    echo "They match!";  
else {  
    echo "Try Again.";  
}
```

**Parse error: syntax error, unexpected '=' in  
/your/path/file.php on line 5**

# Code Samples

```
$phrase = "PHP is awesome!";  
$makeUpper = true;  
  
for($n = 0; $n < strlen($phrase); $n++) {  
    if ctype_alpha($phrase[$n]) {  
        if($makeUpper) {  
            $phrase[$n] = strtoupper($phrase[$n]);  
        } else {  
            $phrase[$n] = strtolower($phrase[$n]);  
        }  
        $makeUpper = !$makeUpper;  
    }  
}  
  
echo "$phrase"; // PhP iS aWeSoMe!
```

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<http://www.TreeLineDesign.com/slides>

---

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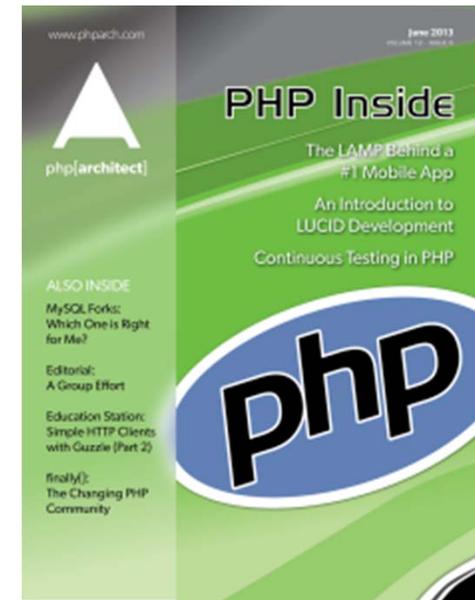
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Feedback or Questions

Joind.in:

<https://joind.in/10055>

E-mail:

[Beth@Musketees.me](mailto:Beth@Musketees.me)