CS Learning Centre

PHP Tutorial

Introduction

⇨ Based on PHP and MySQL Web Development, Third Edition (Available as CS eBook from Dal Library)
⇨ Other eBooks from Dal Library
  ⇨ Learning PHP 5
  ⇨ PHP Cookbook
⇨ For Online resources, google "PHP"

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Embedding PHP in HTML

⇨ Insert PHP tag inside HTML file (with .php extension
  ⇨ XML Style
    <?php *PHP statement*; ?>
  ⇨ Short Style (Need to be enabled)
    <? *PHP statement*; ?>
  ⇨ Script Style
    <SCRIPT LANGUAGE='php'> *PHP statement;*
    </SCRIPT>
  ⇨ ASP Style (Need to be enabled)
    <% *PHP statement; %>*
⇨ Dynamic Content
function('argument');
  ⇨ Note: *argument* is in string

Variables

- Do not require to declare variable type
- Variable variables

  $varname = 'tireqty';

  $$varname = 5;
- Constants

  define('TIREPRICE', 100);
- Accessing form variables (field=tireqty)
  - Short style (requires *register_globals*)

    $tieryqty
  - Medium style

    $_POST['tireqty'] or $_GET['tireqty']
  - Long style

    $HTTP_POST_VARS['tireqty']

Operators and Control Structures

⇨ Pretty much same as in other programming languages (C, Java, etc.)

⇨ Break statements are also same (continue, break), except it provides *exit* statement to break out of the script

⇨ Alternative control structure syntex

```
if( $totalqty == 0):
    echo 'You did not order anything on the previous
        page!<br />';
    exit;
endif;
```

Array

⇨ Create an array

$products = array ('Tires', 'Oil', 'Engine');

⇨ Automatically generate sequnces of number, character

$numbers = range (1,10,2); //last parameter optional(Indicate step)

⇨ Accessing element

$products[0]

⇨ Array with different indices

$prices = array('Tires'=>100, 'Oil'=>10, 'Spark Plugs'=>4);

⇨ Assign key and value to variables

list($product, $price) = each($prices);

Array (Cont'd)

▷ Multidimensional Array ($products[row]
[column]

```
$products = array( array( 'Code' => 'TIR',
                         'Description' => 'Tires',
                         'Price' => 100
                        ),
                   array( 'Code' => 'OIL',
                         'Description' => 'Oil',
                         'Price' => 10
                        ),
                   array( 'Code' => 'SPK',
                         'Description' => 'Spark Plugs',
                         'Price' =>4
                        )
                 );
```

Function

⇨ New function
```
function my_function()
{
  echo 'My function was called';
}
```
⇨ Calling function
```
my_function();
```

Function (Cont'd)

⇨ Using argument
  ⇨ Should reset the argument if it is an array
  ⇨ The next command gets next element of arg
  ⇨ The current command gets current element
  ⇨ Ex.

```
function create_table2( $data, $border = 1, $cellpadding = 4, $cellspacing = 4 )
{
  echo "<table border = $border cellpadding = $cellpadding"
      ." cellspacing = $cellspacing>";
  reset($data);
  $value = current($data);
  while ($value)
  {
    echo "<tr><td>$value</td></tr>\n";
    $value = next($data);
  }
  echo '</table>';
}
```

Session Control (Using Cookie)

⇨ Manually setting Cookie in PHP

bool setcookie (string name [, string value [, int
    expire [, string path

[, string domain [, int secure]]]]])

Ex. setcookie ('mycookie', 'value');

⇨ Using Cookie with Sessions

  ⇨ Get session cookie parameters

session_get_cookie_params()

  ⇨ Set session cookie parameters

session_set_cookie_params($lifetime, $path,
    $domain [, $secure]);

Session Control (Cont'd)

⇨ Starting Session (Must be declared at the beginning of the file)
session_start();

⇨ Registering Session variables
$_SESSION['myvar'] = 5;

⇨ Unsetting variables

 ⇨ Single variable
  unset($_SESSION['myvar']);

 ⇨ All variables
  $_SESSION=array();

⇨ Destroying session
session_destroy();

Session Control (Example)

⇨ Begin session

```php
<?php
 session_start();

 $_SESSION['sess_var'] = "Hello world!";

 echo 'The content of $_SESSION[\'sess_var\'] is '
     .$_SESSION['sess_var'].'<br />';
?>
<a href="page2.php">Next page</a>
```

Session Control (Example)

▷ Get the variable and unset it
<?php
 session_start();

 echo 'The content of $_SESSION[\'sess_var\'] is '
      .$_SESSION['sess_var'].'
';

 unset($_SESSION['sess_var']);
?>
Next page

Session Control (Example

⇨ End session

```php
<?php

  session_start();

  echo 'The content of $_SESSION[\'sess_var\'] is '
       .$_SESSION['sess_var'].'<br />';

  session_destroy();
?>
```