

```
PHP: Variables (test.php)

• Variables: Begin with "$"

• Can have different types at different time

• Assignment by value: $bar = $foo;

• Assigned by reference: $bar = &$foo;

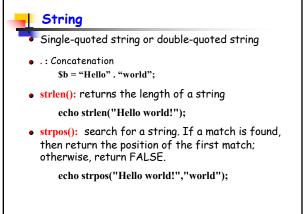
<?php

$name = "bil";
echo "my name is $name";
if ($name == "bil")
{echo "got a match!";} ?>
```

```
Operators (op.php)

Arithmetic (+, -, *, /, %, +=, -=, *=, /=, %=) and $a = 1 + 2; echo "$a <br/>
$a + 4; echo "$a <br/>
echo "$a <br/>
• Logic (&&, ||,!)

Comparison (==,!=,<,>,<=,>=)
```



String

Single-quoted string or double-quoted string

Concatenation
Sb = "Hello". "world";

strlen(): returns the length of a string
echo strlen("Hello world!");
output: 12

strpos(): search for a string. If a match is found,
then return the position of the first match;
otherwise, return FALSE.
echo strpos("Hello world!","world");

String

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Concatenation

Sb = "Hello". "world";

strlen(): returns the length of a string
echo strlen("Hello world!");
output: 12

strpos(): search for a string. If a match is found, then return the position of the first match; otherwise, return FALSE.
echo strpos("Hello world!", "world");
output: 6

```
if (condition) {
    statements
    statements
} else {
    statements
} else {
    statements
}

for (initialization; condition; modifier) {
    statements
}
```

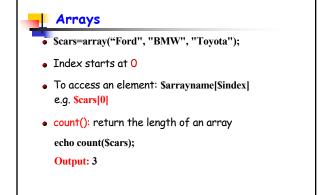
Arrays

• Scars=array("Ford", "BMW", "Toyota");

• Index starts at 0

• To access an element: Sarrayname[Sindex]
e.g. Scars[0]

• count(): return the length of an array
echo count(Scars);



```
Arrays (pop.php)

array_pop(): remove the last element of the array

array_push(): add an element to the end of the array

?php

$a=array("red","green");

array_push($a,"blue","yellow");

print_r($a);

array_pop($a);

print_r($a);

?>
```

```
Arrays (pop.php)

array_pop(): remove the last element of the array

array_push(): add an element to the end of the array

?php

$a=array("red","green");
array_push($a,"blue","yellow");
print_r($a);
array_pop($a);
print_r($a);
?>

Output:

Array ( [0] => red [1] => green [2] => blue [3] => yellow )
Array ( [0] => red [1] => green [2] => blue )
```

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### Arrays (test4.php)

### Output:

January is the first month
February is the second month
March is the third month
April is the fourth month
May is the fifth month
June is the sixth month
July is the seventh month
August is the eighth month
September is the ninth month
October is the tenth month
November is the eleventh month
December is the twelfth month

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# Functions (function.php) function functionName() { code to be executed; } • A function name can start with a letter or underscore (not a number). • Function names are NOT case-sensitive. • Example: <?php function writeMsg() { echo "Hello world!";} writeMsg(); // call the function ?>

Functions (function.php)

function functionName() {
 code to be executed;
}

• A function name can start with a letter or underscore (not a number).

• Function names are NOT case-sensitive.

• Example:

<!php
function writeMsg() { echo "Hello world!";}
 writeMsg(); // call the function

?>
Output: Hello world

```
Functions with Arguments (function1.php)

<!php
function familyName($fname,$year) {
  echo "$fname was born in $year <br/>*; }
  familyName("Tom","1975");
  familyName("Alice","1978");
?>

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```

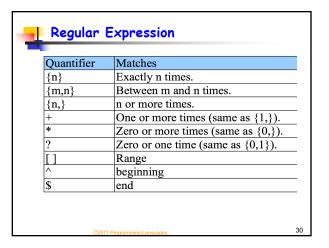
```
Returning Values

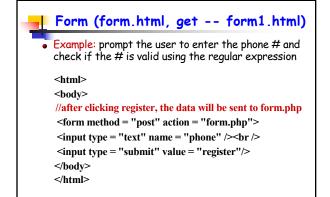
<!php function sum($x,$y) {
    $z=$x+$y;
    return $z;
    }
    echo "5 + 10 = " . sum(5,10) . "<br>";
    echo "7 + 13 = " . sum(7,13) . "<br>";
    echo "2 + 4 = " . sum(2,4);

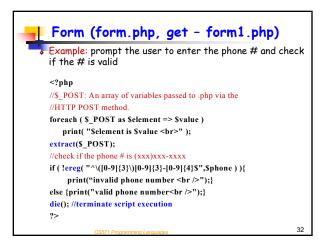
?>

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```







File Operation

• fopen (filename, modes): open a file

• r: read

• w: write

• a: append

• fread(filename, size): read a file

• size: the maximum number of bytes to read

• fgets(filename): read one line

• fgetc(filename): read one character

• fclose(filename): close the file

• feof: check end-of-file

File Operation & Dynamic Content Generation (product.php)

• Example: prompt the user to enter the product name and return the product information

<!php
extract(\$\_POST);
if (!( \$file = fopen( "product.txt","r"))) {
 print( "Could not open the product file ");
 die();
}

File Operation & Dynamic Content Generation (product.php)

• Example: prompt the user to enter the product name and return the product information

print("");

while (!feof(\$file)) {

 \$\line = \frac{fgets}{\text{file}}; \"\ read a line from file

 \"\ remove newline character from end of line

 \$\line = \chop(\text{\$\text{line}}); \"\ read a line from file

 \"\ remove newline character from end of line

 \$\line = \chop(\text{\$\text{line}}); \"\ spint \text{string into substrings given a certain delimiter}

 \text{\$\text{field} = \split(\",", \text{\$\text{\$\text{Sline}}, 3);} \\
if (\text{\$\text{\$\text{product} = \text{\$\text{\$\text{field}}[0]}}) \} \\
print(\"<\tr>
 \text{\$\te



### Sending An Email

- Example: prompt the user to enter his/her email address and send an email to the user.
- email.html:
  - <html>
  - <body>
  - <form method = "post" action = "email.php">
- <input type = "text" name = "email" /><br />
- <input type = "submit" value = "send email"/>
- </body>
- </html>

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### Sending An Email

- Example: prompt the user to enter his/her email address and send an email to the user.
- email.php:

```
<?php extract($_POST);
$email .= ', cs5712013@gmail.com';</pre>
```

\$subject = "Hi!";

\$body = "Hi,\n\nHow are you?";

\$headers = 'From: cs5712013@gmail.com' . "\n" .

'Reply-To: cs5712013@gmail.com' . "\n" .

'X-Mailer: PHP/';

if (mail(\$email, \$subject, \$body, \$headers)) {

echo("Email successfully sent!");

} else { echo("Email delivery failed!"); } ?>

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## Cookie: Example (cookie.html)

 Example: prompt the user to enter his/her name and the age, and then store a cookie containing such information on the disk.

<html> <body>

<form method = "post" action = "cookie.php">

Name: <input type = "text" name = "name" /><br />

Age: <input type = "text" name = "age" /><br />

<input type = "submit" value = "set cookie"/>

</body> </html>

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### Cookie: Example (cookie.php)

 Example: prompt the user to enter his/her name and the age, and then store a cookie containing such information on the disk.

```
<?php
extract($_POST);
//(name of the cookie, value, expiration time).
setcookie("name", $name, time()+60*60*24*5);</pre>
```

IE: C:\Documents and Settings\<user name>\Local Settings\Temporary Internet Files

setcookie("age", \$age, time()+60\*60\*24\*5);

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# 🕂 Example: Accessing a Database

• Example: access database "Products".

```
<? php
```

// open a connection to a MySQL server

//\$database: MySQL link identifier on success or false on failure.
if (!( \$database = mysql\_connect( 'localhost', 'user', 'passwd' )))

die( "Could not connect to database" );

// specifies the database to be queried

if (!mysql\_select\_db( "Products", \$database ) )
 die( "Could not open Products database" );

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