

HTML/PHP - Lecture 5

COEN 10

PHP

★PHP -- Hypertext Preprocessor

- ©An open source software
 - ✧free to download and use
- ©Server-side scripting language
 - ✧Scripts are executed on the server

PHP

★PHP files

- ©Contain text, HTML tags, and code
- ©Returned to the browser as HTML
- ©Have file extension of
 - ✧".php", ".php3", or ".phtml"
- ©Must not have a ".html" extension

PHP Syntax

★A PHP scripting block

- ©Can be anywhere in the document
 - ✧Starts with <?php
 - ✧Ends with ?>
- ©Contains
 - ✧HTML tags and PHP code.
- ©The output is placed in the page

PHP Syntax

★ Each basic statement in PHP ends with a semicolon

◎ The semicolon is a separator

✧ Used to distinguish one set of instructions from another.

★ Output

◎ Two statements

✧ echo and print

PHP Syntax

★ Example

```
<html>
<body>

<?php
    echo "COEN 10";
?>

</body>
</html>
```

PHP Syntax

★ Comments

◎ // for a single-line comment

◎ /* and */ for a comment block

PHP Syntax

```
<html>
<body>

<?php
    // This is a short comment

    /*
    This is
    a
    long comment
    */
?>

</body>
</html>
```

PHP Variables

★Variables are used for storing values

◎text strings, numbers, arrays

★After a variable is created/declared

◎It can be used again and again

★Variables in PHP start with a \$

★Declaring a variable in PHP

`$var_name = value;`

PHP Variables

★Example

```
<?php
$txt="this is a string";
$x=5;
?>
```

PHP Variables

★A variable name

`$ABC ≠ $abc`
`$1abc` is not ok (can't
be the combination of
number and alpha)

◎can only contain alpha-numeric
characters and underscores (a-z,
A-Z, 0-9, and _)

◎must start with a letter or an
underscore “_”

◎cannot contain spaces

PHP Numerical Values

★Integer

◎Example:

`$x = 3;`

★Real

◎Example:

`$y = 4.5;`

PHP Numerical Operators

★Arithmetic Operators

+ addition
- subtraction
***** multiplication
/ division
% modulus
++ increment
-- decrement

PHP Numerical Operators

★Assignment Operator

= **x = y**
+= **x += y** same as **x = x + y**
-= **x -= y** same as **x = x - y**
***=** **x *= y** same as **x = x * y**
/= **x /= y** same as **x = x / y**
%= **x %= y** same as **x = x % y**

PHP Numerical Operators

★Conditional Operators

== <equal to>
!= <not equal to>
> <greater than>
>= <greater than or equal to>
< <less than>
<= <less than or equal to>
<> <not equal to>

PHP Logical Operators

★Logical Operators

©To combine conditions
&& and
true if both conditions are true
|| or
true if at least one condition is true
! not
true if the condition is false

PHP Logical Operators

★Precedence Order

! → Highest Precedence
* / %
+ -
< <= > >=
&&
||
= → Lowest Precedence

PHP Strings

★String variables are used for values that contains characters.

PHP Strings

Example

```
<?php
$txt="this is a string";
echo $txt;
?>
```

★The output of the code above will be:

this is a string

PHP Strings

★String Operators

◎The assignment operator (=)

✧to assign one string or string variable to a variable

◎The concatenation operator (.)

✧to concatenate two string values

PHP Strings

★The Concatenation Operator

Example

```
<?php
$txt1="COEN 10";
$txt2="Intro to Programming";
echo $txt1 . " -- " . $txt2;
?>
```

★The output of the code above will be:
COEN 10 -- Intro to Programming

PHP Strings

★String Operators

◎Combining the two (.=)

✧Concatenates the string to the variable being assigned

PHP Strings

★String Operators

◎Combining the two (.=)

✧Example

```
$x = "abc";
$x .= "def"; // same as $x = $x . "def";
```

After this code, \$x will have the string
"abcdef"

PHP Logical Operators

★Precedence Order

! → Highest Precedence

* / %

+ - .

< <= > >=

&&

||

= → Lowest Precedence

PHP Functions

★PHP provides a set of functions to help with common tasks

★To call a function

©which returns a value

```
$x = function_name ( );
```

©which does not return a value

```
function_name ( );
```

PHP Functions

★Functions may receive one or more arguments

©and return a value

```
$x = function_name (arg1, arg2, ... );
```

©or not return a value

```
function_name (arg1, arg2, ...);
```

PHP Strings

★The strlen() function

©Returns the length of a string.

©Example

```
<?php
$len = strlen ("COEN 10");
echo $len;
?>
```

©The output of the code will be:

7

PHP Strings

★The strcmp() function

©Returns

- ✧0 if the strings are the same
- ✧>0 if the first string is greater
- ✧<0 if the second string is greater

©Example

```
<?php
$equal = strcmp ("COEN 10", "COEN 10");
echo $equal;
?>
```

©The output of the code will be:

0

PHP Strings

★The strpos() function

©Searches for a string within a string.

- ✧If a match is found
 - returns the position of the first match.
- ✧If no match is found
 - returns FALSE

PHP Strings

★The strpos() function

©Example

```
<?php  
    echo strpos ("abc def ghi", "ghi");  
?>
```

©The output of the code will be:

8

PHP Strings

★Lots of string functions!

©[http://www.w3schools.com/PHP/
php_ref_string.asp](http://www.w3schools.com/PHP/php_ref_string.asp)