**PHP Strings**

* A string is a sequence of characters, like "Hello world!".

**PHP String Functions**

* In this chapter we will look at some commonly used functions to manipulate strings.

**strlen() - Return the Length of a String**

* The PHP strlen() function returns the length of a string.

**Example**

Return the length of the string "Hello world!":

<?php
echo strlen("Hello world!"); // outputs 12
?>

**str\_word\_count() - Count Words in a String**

* The PHP str\_word\_count() function counts the number of words in a string.

**Example**

Count the number of word in the string "Hello world!":

<?php
echo str\_word\_count("Hello world!"); // outputs 2
?>

**strrev() - Reverse a String**

* The PHP strrev() function reverses a string.

**Example**

Reverse the string "Hello world!":

<?php
echo strrev("Hello world!"); // outputs !dlrow olleH
?>

**strpos() - Search For a Text Within a String**

* The PHP strpos() function searches for a specific text within a string. If a match is found, the function returns the character position of the first match. If no match is found, it will return FALSE.

**Example**

Search for the text "world" in the string "Hello world!":

<?php
echo strpos("Hello world!", "world"); // outputs 6
?>

Output: 6

**Tip:** The first character position in a string is 0 (not 1).

**str\_replace() - Replace Text Within a String**

* The PHP str\_replace() function replaces some characters with some other characters in a string.

**Example**

Replace the text "world" with "Dolly":

<?php
echo str\_replace("world", "Dolly", "Hello world!"); // outputs Hello Dolly!
?>

**PHP Math**

**PHP pi() Function**

The pi() function returns the value of PI:

**Example**

<?php
echo(pi()); // returns 3.1415926535898
?>

3.141592653589

**PHP min() and max() Functions**

The min() and max() functions can be used to find the lowest or highest value in a list of arguments:

**Example**

<?php
echo(min(0, 150, 30, 20, -8, -200));  // returns -200
echo(max(0, 150, 30, 20, -8, -200));  // returns 150
?>

**PHP abs() Function**

The abs() function returns the absolute (positive) value of a number:

**Example**

<?php
echo(abs(-6.7));  // returns 6.7
?>

**PHP sqrt() Function**

The sqrt() function returns the square root of a number:

**Example**

<?php
echo(sqrt(64));  // returns 8
?>

**PHP round() Function**

The round() function rounds a floating-point number to its nearest integer:

**Example**

<?php
echo(round(0.60));  // returns 1
echo(round(0.49));  // returns 0
?>

**Random Numbers**

The rand() function generates a random number:

**Example**

<?php
echo(rand());
?>