

connection to mysql database

Connect to the database

```
$dbc = mysqli_connect(HOST, USER, PW, DB);
```

Query the database

```
$result = mysqli_query($dbc, $query);
```

Close the connection

```
mysqli_close($dbc);
```

PHP functions

isset() test for variable exists

empty() test for empty variable

mail(\$to, \$subject, \$msg, 'From: ' . \$email) mail function

mysqli_fetch_array(\$result) fetch each row of a query (in \$result)

header() send a header from the server

is_numeric() test to see if a value is number

exit() causes script to stop immediately

trim(\$string) trims leading and trailing spaces

mysqli_real_escape_string(\$string) escapes special characters

str_replace('a', 'b', \$string) replace a with b in a string

explode(' ', \$string) make string into array

implode(' ', \$string) make array into string

substr(\$string, start, len) grabs a substring

preg_match('regex', \$string) matches regular expressions

preg_replace('regex', \$replace, \$string) replaces characters in a string by regex

IF syntax

```
if (condition) {
... }
elseif (condition) {
... }
else {
... }
```

Loops

FOR loop for (initialize; condition; update) { ... }

WHILE loop while (condition) { ... }

FOREACH foreach (\$array as \$value) { ... }

DO WHILE do { ... ; } while (condition)

FOR (loop until a condition is met)
WHILE (loop through query results)
FOREACH (loop through an array)

CONTINUE

```
for ($i = 0; $i < 5; ++$i) {
if ($i == 2)
continue;
print "$i , ";
}
```

produces the following output:
0 , 1 , 3 , 4

SWITCH syntax

```
SWITCH ($s) {
case 1:
...
break;
case 2:
...
break;
default:
...
}
```

can be used with numbers, or strings

Regular Expressions

^	start of string
\d	number from 0 to 9
\s	whitespace
.	any letter or digit or whitespace
\w	any alphanumeric [0-9A-Za-z]
\$	end of string
()	group
[]	character class
{x} {x,} {x,y}	x of x or more of x to y of
	or
*	none or more
?	none or one
+	one or more
\	escape

Arrays

Create	\$myArray = array();
Push into	\$myArray[] = "Something";
Push to associative	\$myArray['key'] = "Value";
Create numeric	\$myArray = array('value1', 'value2');
Create associative	\$a = array('key' => 'val');
Print from numeric	echo \$myArray[0];
Print from associative	echo \$myArray['key'];
Associative arrays	Keys are strings
Numeric arrays	Keys are numbers: 0,1,2,3,4

