CSC 242, Web Programming

PHP Control Flow

Control Flow

- The basis of control flow is the boolean type
- Relational operators return boolean values
- Types of relational operators
 - Equality
 - Comparison
 - Logical

The PHP Boolean Type

- A boolean expresses a truth value (true or false)
- The constants TRUE and FALSE are boolean literals
- FALSE is set to the NULL type
- Type values that are false when converted to booleans:
 - the boolean FALSE
 - the integer 0
 - the float 0.0
 - the empty string "" and the string "0"
 - an array with zero elements
 - the NULL type

Equality & Comparison Operators

Operator	Description	Example
==	equal to	\$a == 3
===	identical to	\$a === 3
! =	not equal to	\$a != 3
!==	not identical to	\$a !== 3
>	greater than	\$a > 3
<	less than	\$a < 3
>=	greater than or equal to	\$a >= 3
<=	less than or equal to	\$a <= 3

Logical Operators

Operator	Description	Example
&&	and	\$a == 3 && \$b == 0
and	low-precedence and	a == 3 and == 0
11	or	\$a == 3 \$b == 0
or	low-precedence or	\$a == 3 or \$b == 0
!	not	!(\$a == \$b)
xor	exclusive or	\$a xor \$b

The Equality and Identity Operators

- The equality operator (==) does implicit type coercion before the comparison
- The identity operator (===) prevents implicit type coercion, that is, for two operands to be identical, they must have the same type and value
- Example:

```
<?php
$a = "1000" == "+1000"; // TRUE
$b = "1000" === "+1000"; // FALSE
$a = "1000" != "+1000"; // FALSE
$b = "1000" !== "+1000"; // TRUE
?>
```

Selection

```
■ if, else, and elseif
  <?php
           ($page == "Home") {/* code */}
    elseif ($page == "About") {/* code */}
    else
                              {/* \text{ code } */}
 ?>
switch
  <?php
    switch ($page) {
      case ("Home"): {/* code */; break;}
     case ("About"): {/* code */; break;}
     default: {/* code */; break;}
```

Iteration

```
while loops
do while loops
for loops

for ($count = 1; $count <= 10; ++$count) {
    echo "The count is" . $count . "\n";
}</pre>
```

?>