AJAX 程式設計
AJAX PROGRAMMING DESIGN

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ADVANCED PHP

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PHP

運算子

PHP VARIABLES

```php
<?php
$txt = "W3Schools.com";
echo "I love $txt!";
?>
```

```php
<?php
$txt = "W3Schools.com";
echo "I love " . $txt . "!";
?>
```

PHP VARIABLES

```php
<?php
$x = 5;
$y = 4;
echo $x + $y;
?>
```

PHP VARIABLES

```php
<?php
$x = 5; // global scope

function myTest() {
    // using x inside this function will generate an error
    echo "<p>Variable x inside function is: $x</p>";
}
myTest();

echo "<p>Variable x outside function is: $x</p>";
?>
```

```php
<?php
function myTest() {
    $x = 5; // local scope
    echo "<p>Variable x inside function is: $x</p>";
}
myTest();

// using x outside the function will generate an error
echo "<p>Variable x outside function is: $x</p>";
?>
```

PHP VARIABLES

```php
<?php
$x = 5;
$y = 10;

function myTest() {
    global $x, $y;
    $y = $x + $y;
}

myTest();
echo $y; // outputs 15
?>
```

PHP VARIABLES

```php
<?php
function myTest() {
    static $x = 0;
    echo $x;
    $x++;
}


myTest();
myTest();
myTest();
?>
```

DATA TYPES

```php
<?php
$x = 10.365;
var_dump($x);
?>
```

```php
<?php
$cars = array("Volvo","BMW","Toyota");
var_dump($cars);
?>
```

```php
<?php
$x = "Hello world!";
$x = null;
var_dump($x);
?>
```

DATA TYPES

```php
<?php
$cars = array("Volvo","BMW","Toyota");
var_dump($cars);
?>
```

OBJECT

```php
<?php
class Car {
    function Car() {
        $this->model = "VW";
    }
}

// create an object
$herbie = new Car();

// show object properties
echo $herbie->model;
?>
```

STRING

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

```php
<?php
echo str_word_count("Hello world!"); // outputs 2
?>
```

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

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

```php
<?php
echo str_replace("world", "Dolly", "Hello world!"); // outputs Hello Dolly!
?>
```

ARITHMETIC OPERATORS

Operator	Name	Example
+	Addition	$x + $y
-	Subtraction	$x - $y
*	Multiplication	$x * $y
/	Division	$x / $y
%	Modulus	$x % $y
**	Exponentiation	$x ** $y

COMPARISON OPERATORS

Operator	Name	Example	Result
==	Equal	$x == $y	Returns true if $x is equal to $y
===	Identical	$x === $y	Returns true if $x is equal to $y, and they are of the same type
!=	Not equal	$x != $y	Returns true if $x is not equal to $y
<>	Not equal	$x <> $y	Returns true if $x is not equal to $y
!==	Not identical	$x !== $y	Returns true if $x is not equal to $y, or they are not of the same type
>	Greater than	$x > $y	Returns true if $x is greater than $y
<	Less than	$x < $y	Returns true if $x is less than $y
>=	Greater than or equal to	$x >= $y	Returns true if $x is greater than or equal to $y
<=	Less than or equal to	$x <= $y	Returns true if $x is less than or equal to $y

OPERATORS

Operator	Name	Example	Result
and	And	$x and $y	True if both $x and $y are true
or	Or	$x or $y	True if either $x or $y is true
xor	Xor	$x xor $y	True if either $x or $y is true, but not both
&&	And	$x && $y	True if both $x and $y are true
||	Or	$x || $y	True if either $x or $y is true
!	Not	!$x	True if $x is not true

ARRAY OPERATORS

Operator	Name	Example	Result
+	Union	$x + $y	Union of $x and $y
==	Equality	$x == $y	Returns true if $x and $y have the same key/value pairs
===	Identity	$x === $y	Returns true if $x and $y have the same key/value pairs in the same order and of the same types
!=	Inequality	$x != $y	Returns true if $x is not equal to $y
<>	Inequality	$x <> $y	Returns true if $x is not equal to $y
!==	Non-identity	$x !== $y	Returns true if $x is not identical to $y

STRING OPERATORS

Operator	Name	Example	Result
.	Concatenation	$txt1 . $txt2	Concatenation of $txt1 and $txt2
.=	Concatenation assignment	$txt1 .= $txt2	Appends $txt2 to $txt1

FUNCTIONS

IF…ELSE…ELSEIF

```php
<?php
$t = date("H");

if ($t < "10") {
    echo "Have a good morning!";
} elseif ($t < "20") {
    echo "Have a good day!";
} else {
    echo "Have a good night!";
}
?>
```

FOR LOOPS

```php
<?php
for ($x = 0; $x <= 10; $x++) {
    echo "The number is: $x <br>";
}
?>
```

```php
<?php
$colors = array("red", "green", "blue", "yellow");

foreach ($colors as $value) {
    echo "$value <br>";
}
?>
```

FUNCTION

```php
<?php
function familyName($fname, $year) {
    echo "$fname Refsnes. Born in $year <br>";
}

familyName("Hege", "1975");
familyName("Stale", "1978");
familyName("Kai Jim", "1983");
?>
```

LOOP THROUGH AN INDEXED ARRAY

```php
<?php
$cars = array("Volvo", "BMW", "Toyota");
$arrlength = count($cars);

for($x = 0; $x < $arrlength; $x++) {
    echo $cars[$x];
    echo "<br>";
}
?>
```

```php
<?php
$age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");

foreach($age as $x => $x_value) {
    echo "Key=" . $x . ", Value=" . $x_value;
    echo "<br>";
}
?>
```

SESSION

SESSION REGISTER

```php
<?php
session_start();
?>
<!DOCTYPE html>
<html>
<body>

<?php
// to change a session variable, just overwrite it
$_SESSION["favcolor"] = "yellow";
print_r($_SESSION);
?>

</body>
</html>
```

SESSION DESTROY

```php
<?php
session_start();
?>
<!DOCTYPE html>
<html>
<body>

<?php
// remove all session variables
session_unset();

// destroy the session
session_destroy();
?>

</body>
</html>
```

LOGIN

```php
<?php
    //資料庫位置
    $db_server = "localhost";
    //資料庫名稱
    $db_name = "mydb";
    //資料庫管理者帳號
    $db_user = "root";
    //資料庫管理者密碼
    $db_passwd = "";

    //對資料庫連線
    if(!@mysql_connect($db_server, $db_user, $db_passwd))
            die("無法對資料庫連線");

    //資料庫連線採UTF8
    mysql_query("SET NAMES utf8");

    //選擇資料庫
    if(!@mysql_select_db($db_name))
            die("無法使用資料庫");

    session_start();

    $id = $_POST['id'];
    $pw = $_POST['pw'];

    //搜尋資料庫資料
    $sql = "SELECT * FROM member_table where username = '$id'";
    $result = mysql_query($sql);
    $row = @mysql_fetch_row($result);

    //判斷帳號與密碼是否為空白
    //以及MySQL資料庫裡是否有這個會員
    if($id != null && $pw != null && $row[1] == $id && $row[2] == $pw)
    {
            //將帳號寫入session，方便驗證使用者身份
            $_SESSION['username'] = $id;
            echo '登入成功!';

    }
    else
    {
            echo '登入失敗!';
    }
?>
```

THANK YOU