

03 PHP cykly a pole

Cykly

- while
- do..while
- for
- foreach

while

- syntaxe

```
while (condition is true) {  
    code to be executed;  
}
```

- příklad

```
<?php  
$x = 1;  
  
while($x <= 5) {  
    echo "The number is: $x <br>";  
    $x++;  
}  
?>
```

do..while

- syntaxe

```
do {  
    code to be executed;  
} while (condition is true);
```

- příklad

```
<?php  
$x = 1;  
  
do {  
    echo "The number is: $x <br>";  
    $x++;  
} while ($x <= 5);  
?>
```

for Loop

- syntaxe

```
for (init counter; test counter; increment counter) {  
    code to be executed for each iteration;  
}
```

- příklad

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

Foreach

- syntaxe

```
foreach ($array as $value) {  
    code to be executed;  
}
```

- příklad

```
<?php  
$colors = array("red", "green", "blue", "yellow");  
  
foreach ($colors as $value) {  
    echo "$value <br>";  
}  
?>
```

- příklad

```
<?php  
$age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");  
  
foreach($age as $x => $val) {  
    echo "$x = $val<br>";  
}  
?>
```

Pole

- slouží jako: klasická pole, asociativní pole (mapy, hash tabulky), zásobníky, fronty, seznamy, mnohorozměrná pole...

```
<?php  
$cars = array("Volvo", "BMW", "Toyota");  
echo "I like " . $cars[0] . ", " . $cars[1] . " and " . $cars[2] . ".";  
?>
```

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

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

Vícerozměrné pole

```
$lide = array (
    array ("jan", "novak", "20"),
    array ( "25","Franta", "Vomacka"),
    array ("Zdepa","Pepa", "30"),
);
```

Asociativní pole

```
$zver = array('cat'=>'kocka', 'dog'=>'pes');
$zver['cat'] = 'kocka';
$zver['dog'] = 'pes';

$klice = array_keys($pole); // pole klicu 0..n
$hodnoty = array_values($pole); // pole hodnot 0..n

/* mnohorozměrné pole */
$a = array( array('citron','kiwi'), array('agave','grep') );
print $a[1][0]; // agave
```

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