CT4009

Dynamic PHP Websites

Andy Bell

What we'll cover today

- A quick catchup to make sure that you're all assigned to Assignment 2 groups

- PHP logic (if, else, switch)

- PHP variable scope

- Useful PHP functions

Assignment groups

You should have picked and submitted your groups before today (minimum 2 people, recommended 3). If you haven't, or have questions, please come and see me / Abu after this lecture.

If Statement

```php
1  <?php
2
3  $numberValue = 4;
4
5  if($numberValue > 5) {
6      echo 'The number is greater than 5';
7  }
8  else if($numberValue > 2) {
9      echo 'The number is greater than 2, but less than 5';
10 }
11 else {
12     echo 'The number met no conditions';
13 }
14
```

If Statement: JavaScript Comparison

```javascript
1 const numberValue = 4;
2
3 if(numberValue > 5) {
4     console.log('The number is greater than five');
5 }
6 else if (numberValue > 2) {
7     console.log('The number is greater than 2 but less than 5');
8 }
9 else {
10     console.log('The number met no conditions');
11 }
```

Switch Statement

```php
<?php

$aValueToTest = 10;

switch($aValueToTest) {
    case 5:
        echo '"$aValueToTest" is 5';
        break;
    case 3:
        echo '"$aValueToTest" is 3';
        break;
    case 10:
        echo '"$aValueToTest" is 10';
        break;
}
```

Switch Statement: JavaScript comparison

```javascript
const aValueToTest = 10;

switch(aValueToTest) {
    case 5:
        console.log('"aValueToTest" is 5');
        break;
    case 3:
        console.log('"aValueToTest" is 3');
        break;
    case 10:
        console.log('"aValueToTest" is 10');
        break;
}
```
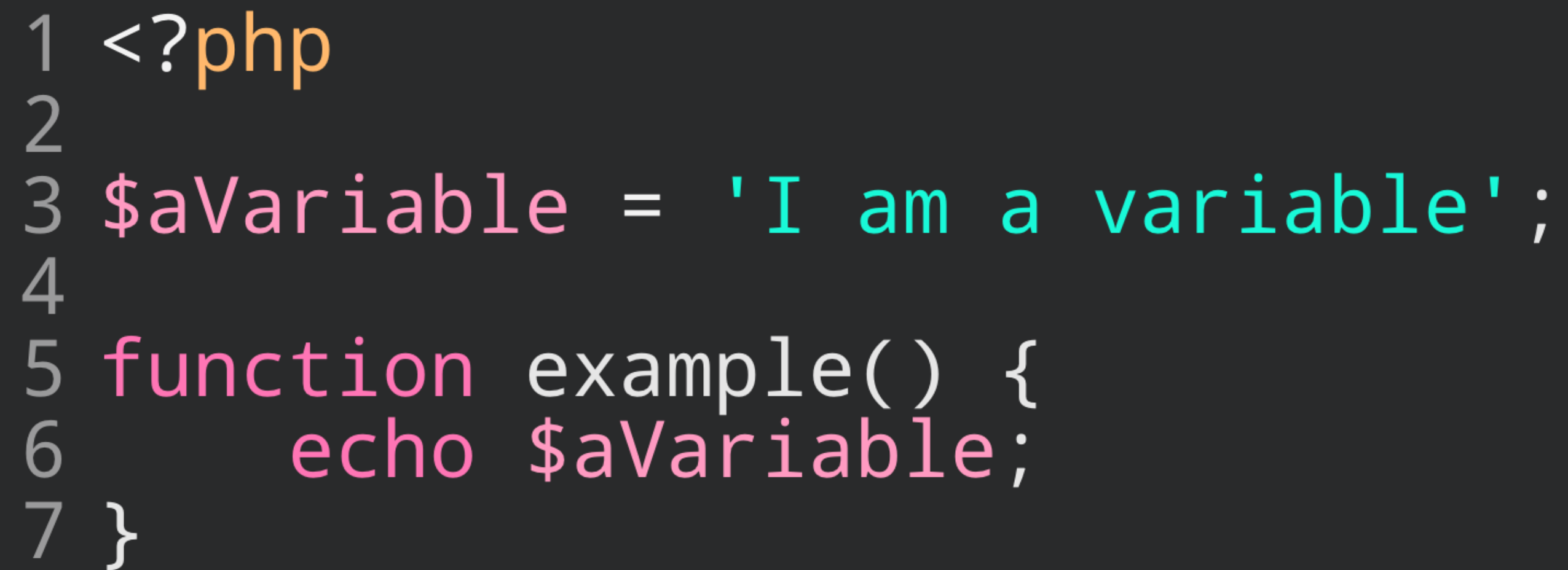
Variable Scope

- We have access to those variables because they are in the **same context to what they were defined**
- If we try to use a variable out of context, it'll either break or code, or nothing will happen
- You can read more on this on the really useful PHP manual: http://php.net/manual/en/language.variables.scope.php

Variable Scope Example

In this example, we have **no access** to `$aVariable`
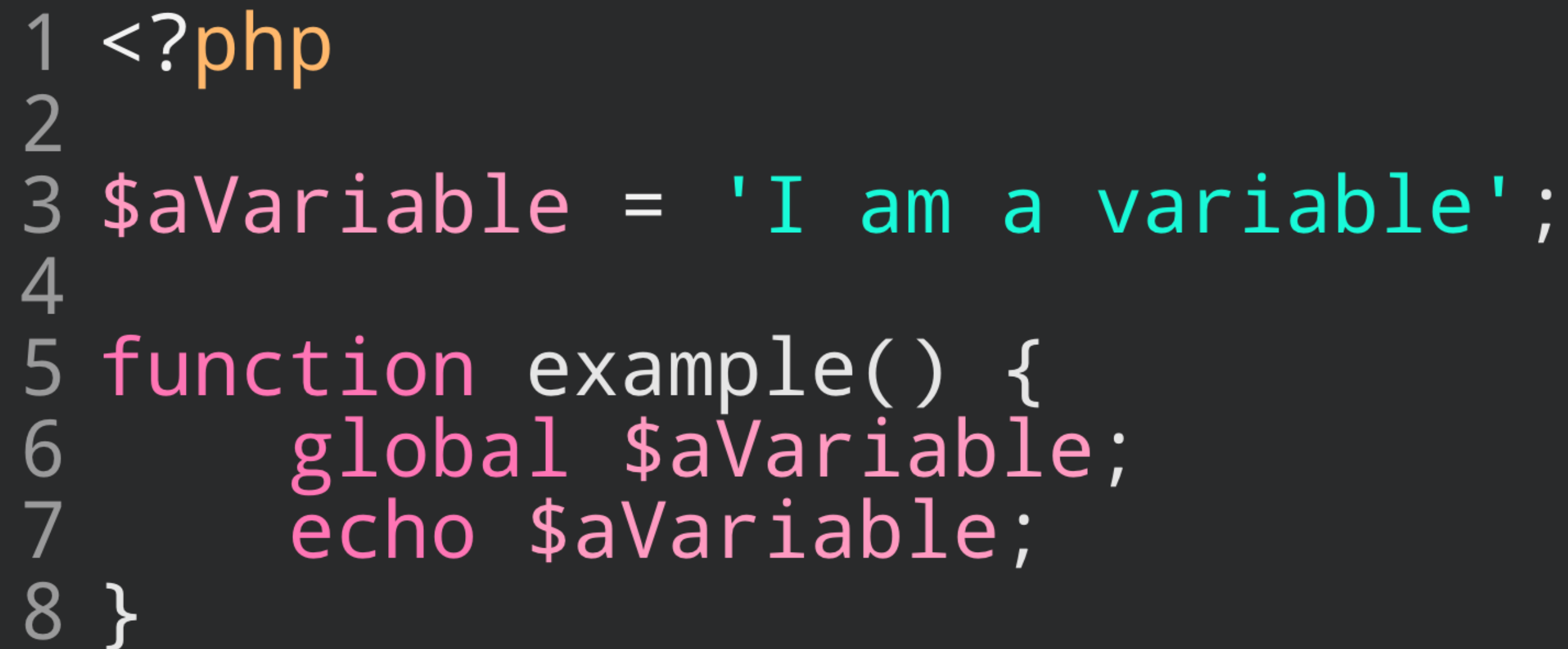
```php
1  <?php
2
3  $aVariable = 'I am a variable';
4
5  function example() {
6      echo $aVariable;
7  }
```

Variable Scope Example

We can use the **global** keyword to give us access

```php
<?php

$aVariable = 'I am a variable';

function example() {
    global $aVariable;
    echo $aVariable;
}
```

Handy functions

Strpos

The **strpos** function tells you the **index** (position) of the passed search term (needle) in the passed string (haystack):

```
strpos($needle, $haystack);
```

http://php.net/manual/en/function.strpos.php

Strpos example

```php
1 <?php
2
3 $haystack = 'The weather outside is cold';
4
5 echo strpos($haystack, 'cold');
```

Strpos in an if statement

```php
<?php

$haystack = 'The weather outside is cold';

if(strpos($haystack, 'cold') > -1) {
    echo 'The haystack contains "cold"';
}
```

Explode

The explode function will turn a **string** into an array by breaking it at whatever **delimiter** you pass in.

```
explode($delimiter, $input);
```

http://php.net/manual/en/function.explode.php

Explode example

```php
<?php

$csv = 'Apples,Oranges,Pears';
$items = explode(',', $csv);

foreach($items as $item) {
    echo '<br />Current item: ' . $item;
}
```

All of today's examples can been seen on <u>this GIST</u>

For next week, investigate

- PHP **MD5** function for hashing strings

- PHP Arrays *(Ullman, PHP and MySQL, 5th Ed, Chapter 2 page 55)*

Today's lab

In today's lab, you'll:

- Work with some logic (if, else, else if)

- Find a search term within a string (strpos)

- Format HTML emails

- Send emails with the **mail** function

Recap

- We learned about PHP logic (if, else, switch)

- We learned about PHP variable scope

- We learned some useful PHP functions