



Alexander O'Connor

<Alex.Oconnor@scss.tcd.ie>

- Brief introduction to PHP
- Variables
- Flow Control
- Basic Forms
- Arrays
- Functions & imports
- Connecting to Databases
- Sessions
- Security
- SimpleXML
- File I/O

1

2

3

- Brief introduction to PHP
- Variables
- Flow Control
- Basic Forms
- Arrays
- Functions & imports
- Connecting to Databases
- Sessions
- Security
- SimpleXML
- File I/O

1

2

3



SimpleXML

```
<?xml version='1.0'>
<books>
  <book>
    <title>Dubliners</title>
    <author>James Joyce</author>
    <isbn>0-486-26870-5</isbn>
  </book>
  <book>
    <title>Programming PHP </title>
    <author>Kevin Tatroe</author>
    <author>Rasmus Lerdorf</author>
    <author>Peter MacIntyre</author>
    <isbn>978-0-596-00681-5</isbn>
  </book>
  <book>
    <title>Steve Jobs</title>
    <author>Walter Isaacson</author>
    <isbn>1451648537</isbn>
  </book>
</books>
```

One book

```
<?php
    $xmlfile = 'books.xml';

    $books = simplexml_load_file($xmlfile
    );

    echo $books->book[0]->title;
?>
```

Try it out

- Create a books.xml file and put it in htdocs (or www)
 - Type the xml example contents into this file
- Create a book.php file and put
 - Type the php code into this file
- Visit book.php in your browser:
 - What happens?

All the books

```
<?php
    $xmlfile = 'books.xml';

$books = simplexml_load_file($xmlfile);

foreach($books->book as $onebook) {
    echo $onebook->title;
}

?>
```


Try it out

- Edit book.php file and add the loop code
 - Type the php code into this file
- Visit book.php in your browser:
 - What happens?
- How would you loop through all authors as well?

xpath

```
<?php
    $xmlfile = 'books.xml'

$books = simplexml_load_file($xmlfile);

foreach ($books->xpath('//book') as
$onebook) {
    echo $onebook->title;
}
?>
```



File I/O

Reading a file

```
<?php
$filename = 'visit.txt';
$thefile = file($filename);

foreach($thefile as $lineno => $line) {
    echo $lineno.', '.$line.'<br />';
}
?>
<a href="write.php">Click to write</a>
```

Writing a file

```
<?php
    $filename = 'visit.txt';

    $today = date("F j, Y, g:i a");

    $thefile = fopen($filename, "a");
    fwrite($thefile, 'visited: '.$today."\n");

    fclose($thefile);
    echo 'Wrote to file. Click to <a
href="read.php">Read</a>';
?>
```

Try it out

- Create a read.php file and add the reading code
- Create a write.php file and add the writing code
- Visit write.php in your browser
- Then visit read.php
- Go back and forth between read and write.php

Links

- SimpleXML Basic Examples
<http://php.net/manual/en/simplexml.examples-basic.php>
- Php Date
<http://php.net/manual/en/function.date.php>
- File IO tutorial
<http://www.ozzu.com/php-tutorials/tutorial-basic-php-file-t95992.html>

Photo Credits

- Books 4 <http://www.sxc.hu/photo/622757>
- Trees in the forest
<http://www.sxc.hu/photo/1213118>