COMP2203: Application Scripting

Session DA-php1

Introducing php

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Overview

We'll be looking at:

- Why php?
- Creating and including our menu
- Making it work!
- Using variables
- How "echo" works
- Some useful php control structures





Why php?

- We noticed we have a problem...
 - We want to Only Do Things Once
 - But we have the menu repeated on every html page
 - So if we add a page to our site, we have to change the menu on every page :-(





Creating a Menu

- So let's create a separate menu file
- · We can call it "menu.html"
- And put it in our library directory
- Now we need to load it into our html pages





Including Our Menu our page was:

```
<!DOCTYPE html>
<html>
  <head>
    ...etc...
  </head>
  <body>
  <container>
    <header>
      ...etc...
    </header>
    <nav>
      <a href="index.html">Home</a>
     <a href="page2.html">Page 2</a>
     <a href="page3.html">Page 3</a>
     <a href="page4.html">Page 4</a>
    </nav>
    <section>
      ...etc...
    </section>
    <footer>
     © 2013 David
    </footer>
  </container>
  </body>
</html>
```

```
<nav>
      <a href="index.html">Home</a>
     <a href="page2.html">Page 2</a>
     <a href="page3.html">Page 3</a>
     <a href="page4.html">Page 4</a>
   </nav>
Our page becomes:
<!DOCTYPE html>
<html>
  <head>
    ...et.c...
  </head>
  <body>
   <container>
    <header>
      ...etc...
    </header>
    <?php include ("library/menu.html"); ?>
    <section>
      ...etc...
  </body>
</html>
                                       Haven
Consulting
```

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menu.html becomes:



Note:

We're including our php session using

```
- <?php {.....} ?>
```

 You might come across the shorthand version

But DON'T USE IT! (deprecated)





Wait! This Doesn't Work!

- If you make these changes, the php doesn't work!
- That's because we're still calling our page
 - "page3.html"
- The server needs to know it's a php page, so we must call it
 - "page3.php"
- Now it works!
- Actually, if we have a php page that has mostly html in (like this one), we could call it
 - "page3.phtml"





Including Other Things

- There's other code that's:
 - the same on every page
 - would need to be changed on every single page if...
 - ...like the <head> section (e.g. if we changed the style sheet)
- It would be nice to include all of the <head> section in an include file





Problem

- But there's a problem
 - The <head> section includes the <title> declaration...
 - ...which changes on every page
- So I need a function which I can call with a parameter which specifies what the <title> of that page should be





Including a php Function File

```
Our page was:
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <link rel="stylesheet" type="text/css"</pre>
href="library/normal.css">
    <title>Page 3</title>
  </head>
  <body>
   <container>
    <header>
      ...etc...
    </header>
    <?php include ("library/menu.html"); ?>
    <section>
      ...etc...
  </body>
</html>
```

```
functions.php becomes:
<?php
 function head($title){
   $output=" <head>
    <meta charset="UTF-8">
    <link rel="stylesheet" type="text/css"</pre>
href="library/normal.css">
    <title>".$title."</title>
  </head>":
   return $output;
?>
 Our page becomes:
 <?php include("functions.php"); ?>
 <!DOCTYPE html>
 <ht.ml>
   <?php echo(head("Page 3")); ?>
   <body>
    <container>
     <header>
       ...etc...
 </html>
```





Notes:

- We're using the php command "echo" to put some text into the HTML output stream
 - Syntax: echo("some text");
- But you can omit the brackets
 - echo "some text";





Notes:

- We've also "concatenated" text and variables
 - \$output = "<head>etc...".\$title."...etc</head>";
- You can use single or double quotes but they are not the same.
 - Single quotes are literal
 - Double quotes interpret, so you could put: \$output = "<head>etc...\$title...etc</head>";
- You can be even lazier...
 - Instead of <?php echo \$var; ?>
 - You can put <? =\$var ?>





Don't Repeat Yourself

- So now I have a way to move repeated code into a separate file
- If I want to change something, I can plan so I only need to do it once, whatever the change
- But I can make things better still...
- ...next week
- But first:





if Statements

Basic syntax:

```
- if(some_condition) do_something();
  else do_something_else();
```

The long version:

```
- if (condition){
    ...statements...}
  else{
    ...other statements...}
```

Actually I prefer this layout:

```
- if (condition)
    {
        ...statements...
    }
    else
    {
        ...other statements...
}
```





if Statements

- Follow C-like syntax for the condition, e.g.:
 - if(\$value<3)...
 - if(\$value<=7)...
 - if(\$value==93)...
- Beware of:
 - if(\$value=23)...

which sets \$value to 23!





for Loops

Basic syntax:

```
- for($count=0; $count<10; $count++)
  do_something;</pre>
```

Long version:

```
- for($count=0; $count<10; $count++)
{
    ...some statements...
}</pre>
```

Or the other layout as before



