

PHP and HTML

Dynamic Webpages using PHP

PHP is a *server scripting language*. This server side code can be used to fill out HTML templates in order to create a complete HTML document for a visitor. This finished document is called a *dynamic webpage*.

Dynamic PHP webpages can deliver a custom set of assets to each visitor, unlike static pages which deliver the same set of assets to everyone.

Embedding PHP Code

PHP can generate HTML when saved as a file with a **.php** extension. These files must always start with the tag `<?php` (closing tag is optional).

PHP can also be embedded into HTML. In this case, both opening tag `<?php` and closing tag `?>` are used. For example, in the given code, the PHP code has been embedded into the HTML by enclosing it within the `<?php` and `?>` tags.

```
<html>
  <body>
    <?php
      echo "Hello PHP World!";
    ?>
  </body>
</html>
```

PHP while loop shorthand

In PHP, the shorthand for a `while` loop is:

```
while(*condition*):
# code block
endwhile;
```

When embedding in HTML, this is preferable to the bracket syntax, since it is much more clear which code block is being ended with the `endwhile`.

```
<ul>
  <?php
    $i = 0;
    while ($i < 2):
  ?>
  <li>Duck</li>

  <?php
    $i++;
  endwhile;
  ?>
  <li>Goose</li>
</ul>
```

PHP for loop shorthand

In PHP, the shorthand for a `for` loop is:

```
for (/*condition*/):  
# code block  
endfor;
```

When embedding in HTML, this is preferable to the bracket syntax, since it is much more clear which code block is being ended with the `endfor`.

```
<ul>  
<?php  
for ($i = 0; $i < 2; $i++):  
?>  
<li>Duck</li>  
<?php  
endfor;  
?>  
<li>Goose</li>  
</ul>
```

PHP foreach loop shorthand

In PHP, the shorthand for a `foreach` loop is:

```
foreach ($array as $value):  
# code block  
endforeach;
```

When embedding in HTML, this is preferable to the bracket syntax, since it is much more clear which code block is being ended with the `endforeach`.

```
<ul>  
<?php  
$array = [0, 1];  
foreach ($array as $i):  
?>  
<li>Duck</li>  
<?php  
endforeach;  
?>  
<li>Goose</li>  
</ul>
```