

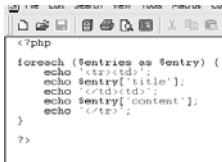
Smarty Template Engine

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Introduction

- One of the major issues in web development is separating presentation from business logic.
- One way to do this is to use a template engine.
- We will talk about Smarty, a very popular template engine for PHP.

Doing It Normally



```
<?php
foreach ($entries as $entry) {
    echo "<tr><td>";
    echo $entry['title'];
    echo "</td><td>";
    echo $entry['content'];
    echo "</tr>";
}
?>
```

- Guestbook application
 - Connect to database
 - Retrieve entries
 - Loop through entries and print out a table

What This Means



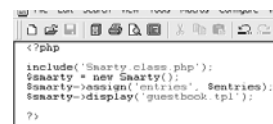
```
<?php
mysql_connect('localhost', 'root', 'password');
mysql_select_db('mydatabase');
mysql_query('SELECT * FROM entries');
while ($row = mysql_fetch_assoc($result)) {
    echo "<tr><td>";
    foreach ($entry as $entry) {
        echo $entry['title'];
        echo "</td><td>";
        echo $entry['content'];
        echo "</tr>";
    }
}
?>
```

- Red is business logic and is specific to the application.
- Blue is presentation related and is not necessarily managed by the programmer.

The Smarty Way

- Template files control the presentation.
- Business logic up to the programmer.
- The Smarty engine handles template files.
- Plug-in based – easy enhancement.
- Many third party plug-ins exist.

The Smarty Way



```
<?php
include('Smarty.class.php');
$smarty = new Smarty();
$smarty->assign('entries', $entries);
$smarty->display('guestbook.tpl');
?>
```

- Guestbook application:
 - Connect to database
 - Initialize Smarty
 - Set template variables
 - Call Smarty to display template

The Smarty Way

```
<table>
{section name=i loop=$entries}
  <tr>
    <td>{$entries[i]}</td>
  </tr>
{/section}
</table>
```

- guestbook.tpl:
 - Loop through entries
 - Display information for each entry

What This Means

Guestbook Application

- Red, as before, is business logic and is specific to the application.
- Green represents the middle layer, Smarty.

```
<?php
mysql_connect('localhost', 'root', 'password');
mysql_select_db('mydatabase');
mysql_query("SELECT * FROM entries");
while ($row = mysql_fetch_assoc()) {
    $entries[] = $row;
}
include('Smarty.class.php');
$smarty = new Smarty();
$smarty->assign('entries', $entries);
$smarty->display('guestbook.tpl');
```

What This Means

guestbook.tpl

- Green now represents Smarty's template syntax.
- Blue, as before, is presentation related and is not necessarily managed by the programmer.

```
<html><body><table>
{section name=i loop=$entries}
  <tr>
    <td>{$entries[i].title}</td>
    <td>{$entries[i].content}</td>
  </tr>
{/section}
</table></body></html>
```

Demo

- Demo of Smarty's biggest features.
 1. It works.
 2. Easy to modify templates.
 3. Custom function.
 4. Variable modifiers.
 5. Putting it all together.
 6. Caching – guestbookc.php

Summary

- Smarty does a very good of separating business logic from presentation logic.
- Smarty offers a number of features to enhance templating abilities including template compiling, caching and numerous plug-ins.