TYPO3 Performance Benchmarking
Using the oelib extension

Oliver’s Extension Library

Oliver Klee at the T3DD07, 2007-04-27
Slow rendering

10 seconds?
That is slow ...

So which parts of the code should I optimize first?

10 s

0 s
Wall-clock benchmarking

Now that is easy:

I’ll optimize that part of the code first!
A less easy case

Now we have three code chunks which are executed repeatedly.

How do I measure this and find the bottlenecks here?
Using buckets
Using buckets
Using buckets
Using buckets

And so on ...
Using buckets

3.2s  2.1s  4.7s

I’ll optimize that part of the code first!
Using oelib buckets

1. Include the timer class:
   ```php
   require_once(t3lib_extMgm::extPath('oelib').'class.tx_oelib_timer.php');
   ```

2. Retrieve a timer object (Singleton):
   ```php
   $timer =& tx_oelib_timer::getInstance();
   ```

3. Put a named bucket under the faucet:
   ```php
   $timer->openBucket('Templating stuff');
   ```

4. Shove the next bucket under the faucet (and stop the previous bucket):
   ```php
   $timer->openBucket('Rendering process');
   ```

5. `$timer->openBucket('Templating stuff');`
Using oelib buckets

6. Close the current bucket and show the statistics:

```
$this->content .= $timer->getStatistics();
```

<table>
<thead>
<tr>
<th>Bucket</th>
<th>Absolute time</th>
<th>Relative time</th>
</tr>
</thead>
<tbody>
<tr>
<td>get next seminar</td>
<td>4.38599324226s</td>
<td>57.9184099312%</td>
</tr>
<tr>
<td>getRegistrationsCsvIcon</td>
<td>2.35444712639s</td>
<td>31.0912092872%</td>
</tr>
<tr>
<td>create seminar bag</td>
<td>0.53369808197s</td>
<td>7.04764977592%</td>
</tr>
<tr>
<td>access control</td>
<td>0.179449081421s</td>
<td>2.36968113844%</td>
</tr>
<tr>
<td>getDeleteIcon</td>
<td>0.0908529758453s</td>
<td>1.19974190744%</td>
</tr>
<tr>
<td>getEditIcon</td>
<td>0.0114061832428s</td>
<td>0.150622210367%</td>
</tr>
<tr>
<td>get seminar data</td>
<td>0.0062575340271s</td>
<td>0.0826326902302%</td>
</tr>
<tr>
<td>check Configuration</td>
<td>0.00390100479126s</td>
<td>0.0515139860378%</td>
</tr>
<tr>
<td>upper table stuff</td>
<td>0.00345087051392s</td>
<td>0.0455698223879%</td>
</tr>
<tr>
<td>start document</td>
<td>0.00119590759277s</td>
<td>0.0157923330868%</td>
</tr>
<tr>
<td>create submodules</td>
<td>0.000611066818237s</td>
<td>0.00806932809038%</td>
</tr>
</tbody>
</table>
Using oelib buckets

- Where can oelib buckets be used?
  - across several classes (it's Singleton)
  - in BE modules
  - in FE plugins
  - BE list view
  - FE page rendering
  - anywhere you like ...
Any questions?