## Debugger Console

<table>
<thead>
<tr>
<th>Rating</th>
<th>Subject</th>
<th>Submitted by</th>
<th>Importance</th>
<th>Easy to solve?</th>
<th>Priority</th>
<th>Category</th>
<th>Volunteered to solve</th>
<th>LastModif</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>★★★★</td>
<td>Bad contrast for debug console using the default theme</td>
<td>Bernard Sfez / Tiki Specialist</td>
<td>4</td>
<td>10 easy</td>
<td>40</td>
<td>• Usability</td>
<td>2018-11-28</td>
<td>2</td>
<td>Bsfez-28 Nov 18</td>
</tr>
<tr>
<td>★★★★</td>
<td>smarty {debug} function gives PHP error &quot;E_USER_WARNING&quot;</td>
<td>sinnios</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>• Error</td>
<td>2009-08-18</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>★★★★</td>
<td>debugger console breaks the admin panels</td>
<td>pkdille</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>• Error</td>
<td>2010-05-06</td>
<td>0</td>
<td></td>
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<tr>
<td>★★★★</td>
<td>Debugger console no longer appears</td>
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<td>7</td>
<td>0</td>
<td>0</td>
<td>• Regression</td>
<td>2014-01-30</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

Also see `{debug}` which can be used in Smarty Templates as described in template tricks.

**General Description**

For a TikiAdmin this tool is a great first step towards making Tiki as easy to debug as it is to extend and modify!
Overview

When processing a page, your code can send output to the debug console with commands such as 
$debugger->msg("your message"). This writes the output to the debugconsole which you can then view by 
displaying the console.

When executing debugging commands, the page is re-loaded with the output of the debugging commands 
written to the debugconsole. This may pose problems for pages which are processing user input, uploading 
files, or that crash and do not return.

The debug console is embedded within a div class="debugconsole" id="debugconsole" which is turned on 
by clicking on the link to toggle the console. Careful inspection will note that the footer.tpl includes tiki-
debug_console.php which handles the processing after most of the rest of the page has already executed.

General Notes

- Enable debugger console by selecting checkbox on Admin -> Features -> Administration Features.
- Debugger can be extended with commands and/or interface extensions (tabs).
- Every command in debugger is a PHP class.
- Sources Lib/debug
- Search for debug-command_*.php it is filenames mask... for debugger commands
- one command == one class == one file

Key Function and sub-features

General info

*help Display list of commands or help for specified command (help print for example)
*tikitables Show list of Tiki tables in DB schema
*features Show features on/off state
*perm Show current permissions in a convenient way
*print Print PHP variable. Indexes are OK.
*slist Display list of Smarty variables. Better to specify partial name or 
very long list of vars will return.
*sprint Print Smarty variable
*watch Manage variables watch list
*sql Exec SQL query on Tiki DB

How to extend debugger

Look for example skeleton lib/debug/debugger-command_test.php

Related Links

Typical Uses

Debug messages on console

It is possible to print debug info to special debug tab called 'Debug messages' during page generation. It is 
possible from PHP and Smarty as well.
Dump Smarty variable from template:
{var_dump var=left_modules}

Dump Smarty variable from template using modificator:
{$description|str_replace:":"|dbg}

Of course modificator dbg can be used more than once:

{$description|dbg|str_replace:":"|dbg}

... so you will get 2 messages before and after modification of $description.

// PHP code
global $debugger;
// Print message
$debugger->msg('Value of $myvar = "$myvar."');
// Print variable
$debugger->var_dump('$myvar');

Case Studies

Bugs
Non command-line commands should not print help. — Fixed in CVS.

Support Requests
We need more examples of the commands that are being passed here...

TikiTeam
zaufi

For more information
lookup sources lib/debug

Related links

- Debugging tools deployable within Tiki

alias

- TikiDebuggerConsole