Tree Plugin

Dynamically generate TWiki topic trees based on the parent-child relationship of topics. Useful for dynamic site maps and threads.

Syntax Rules

%TREEVIEW{}% displays topic children in a hierarchical tree
%TREE{}% synonym of %TREEVIEW{}%

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>web</td>
<td>The web to search.</td>
</tr>
<tr>
<td>topic</td>
<td>Specify tree's root topic. If none the entire web topics' tree is generated</td>
</tr>
<tr>
<td>formatting</td>
<td>Specify the formatting method</td>
</tr>
<tr>
<td>ullist</td>
<td>a &lt;ul&gt;-list, see sample UL lists</td>
</tr>
<tr>
<td>ollist</td>
<td>a &lt;ol&gt;-list, see sample OL lists</td>
</tr>
<tr>
<td>outline</td>
<td>an outline list, see sample Outlines</td>
</tr>
<tr>
<td>list</td>
<td>a &lt;ch n&gt;-list of section heads, see sample Headlines</td>
</tr>
<tr>
<td>coloroutline</td>
<td>an outline formatting with level values turned into colors, see sample Nested tables. Example: formatting=&quot;coloroutline:#ffeeff,#eefeef,#eefeef,#eefeef,#ffeeff&quot;</td>
</tr>
<tr>
<td>imageoutline</td>
<td>a way to incorporate images into the outline format, specifically to display thread-like and folder views, see sample Image Trees. The general format is: imageoutline:mode</td>
</tr>
<tr>
<td>excludetopic</td>
<td>Same meaning as VarSEARCH excludetopic. Topics with excluded parent or processed like topic without parent. none</td>
</tr>
<tr>
<td>includetopic</td>
<td>Same meaning as VarSEARCH topic. Can improve processing time. none</td>
</tr>
<tr>
<td>startlevel</td>
<td>The depth of the tree to start showing nodes from. To hide the root node, supply startlevel=&quot;1&quot; (root is level 0). The displayed node depths are relative to the root topic. 0 or 1 if topic is not specified</td>
</tr>
<tr>
<td>stoplevel</td>
<td>The depth of the tree to show, relative to start level. 999</td>
</tr>
<tr>
<td>header</td>
<td>Output the value within a &lt;div&gt; of class treePluginHeader. Suppressed if the tree is empty. none</td>
</tr>
<tr>
<td>footer</td>
<td>Output the value within a &lt;div&gt; of class treePluginFooter. Suppressed if the tree is empty. none</td>
</tr>
<tr>
<td>zero</td>
<td>Output the value within a &lt;div&gt; of class treePluginZero if the tree is empty. none</td>
</tr>
<tr>
<td>bookview</td>
<td>List topics in BookView form. Not supported from v0.9. Instead use something like: none</td>
</tr>
<tr>
<td>format</td>
<td>Specify the format for each node (outline &amp; coloroutline). The following pseudo-variable are supported in addition to the ones described in FormattedSearch: $spacetopic - the topic with spaces $level - the tree depth of the topic (in whatever format) $count - the topic's child position $index - the index of the topic in the tree. Starts from one. Most useful when used in combination with TreeBrowserPlugin $outnum - outline number for the topic (eg, 1.3.4.2) $url - the current topic's URL $author - the topic's last author Not supported from v0.9. Use %AUTHOR% instead. $modTime - the topic's modification time. Not supported from v0.9. Use %DATE% instead.</td>
</tr>
<tr>
<td>formatbranch</td>
<td>- specify the format for a group of children (outline &amp; coloroutline) $parent - the text of a node $children - the text of all the node's children (if any)</td>
</tr>
<tr>
<td>levelprefix</td>
<td></td>
</tr>
</tbody>
</table>

Tree Plugin
Specify a prefix to a node format. The prefix is inserted \$level\$ times at the beginning of the rendered node format. It allows generation of trees using TWiki bullet list syntax thus enabling usage of TreePlugin in combination with TreeBrowserPlugin.

`nodiv` Supress the `<div> around the tree. Set to 2 to suppress div around header, footer and zero. Allows for trees concatenation.

`search` Search string - use as a filter to narrow down the selection. (Not commonly used)

`scope` Search scope: (Not commonly used)
- `scope="text"` - topic text (body)
- `scope="topic"` - topic name (title)
- `scope="all"` - title and body

`type` Type of search. (Not commonly used)
- `type="keyword"` - Google like search syntax with plus, minus and quotes
- `type="word"` similar to type keyword but looking for whole words -
- `type="literal"` - exactly as specified
- `type="regex"` - a RegularExpression search
- `type="query"` - query search of form fields and other meta-data

Details: See `type` parameter in SEARCH

`separator` Character string used to separate items in the tree

`nocache` Set to 1 to disable caching mechanism for that specific tree. Really a developer setting. (Not commonly used)

**Samples**

See the following page for sample usage and output:

- Sandbox.TreePluginSamples

**Usage**

```
%TREE{web="Sandbox" formatting="ullist"}%
%TREE{web="Sandbox"}%
%TREE{excludetopic="Web*" formatting="outline" format="* [[$topic][$spacetopic]]" levelprefix="  "}%
```

**Combination with**

```
%TREEBROWSER{"file" title="%WEB%"}%
%TREEVIEW(web="%WEB%" topic="GrandParent" formatting="outline" format="* $topic" levelprefix=" ")%
```

**Performance consideration**

For each %TREE% or %TREEVIEW% tag a VarSEARCH at topic scope is performed. To reduce the scope of that search one can use includetopic and excludetopic. Those two parameters should be used by TreePlugin users worried about performance. In fact they can potently greatly reduce the processing time.

For instance if you know that every topic in your tree has a common prefix you can easily make use of includetopic. Also when generating web tree you may want to excludetopic prefixed with Web.

**Plugin Settings**

Specify plug-in settings in LocalSite.cfg:
Set \{Plugins\}{TreePlugin\}{Debug} to 1 to enable debug output. Set to 2 to get a lot more debug output.

Set \{Plugins\}{TreePlugin\}{NoCache} to 1 to disable caching mechanism. Intended for development purposes only.

**Installation Instructions**

You do not need to install anything on the browser to use this plugin. These instructions are for the administrator who installs the plugin on the TWiki server.

Show details ❯ Hide details ❯

- For an **automated installation**, run the configure script and follow "Find More Extensions" in the in the **Extensions** section.
  - See the installation supplement on TWiki.org for more information.

- Or, follow these **manual installation** steps:
  - Download the ZIP file from the Plugins home (see below).
  - Unzip **NotifyAuthorsPlugin.zip** in your twiki installation directory. Content:

<table>
<thead>
<tr>
<th>File:</th>
<th>Description:</th>
</tr>
</thead>
<tbody>
<tr>
<td>data/TWiki/TreePlugin.txt</td>
<td>Plugin topic</td>
</tr>
<tr>
<td>data/Sandbox/HeadingOutlineSample.txt</td>
<td>Outline example</td>
</tr>
<tr>
<td>data/Sandbox/TreePluginSamples.txt</td>
<td>Tree examples</td>
</tr>
<tr>
<td>pub/TWiki/TreePlugin/*gif</td>
<td>Image files</td>
</tr>
<tr>
<td>lib/TWiki/Plugins/TreePlugin.pm</td>
<td>Plugin Perl module</td>
</tr>
<tr>
<td>lib/TWiki/Plugins/TreePlugin/*.pm</td>
<td>Plugin core modules</td>
</tr>
</tbody>
</table>

- Set the ownership of the extracted directories and files to the webserver user.
- Install the dependencies (if any).

- **Plugin configuration and testing:**
  - Run the configure script and enable the plugin in the **Plugins** section.
  - Visit Sandbox.TreePluginSamples to see if the installation was successful.

**Plugin Info**

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>License:</td>
<td>GPL (GNU General Public License)</td>
</tr>
<tr>
<td>Plugin Version:</td>
<td>2015-08-12</td>
</tr>
</tbody>
</table>

Show Change History ❯ Hide Change History ❯

- 2014-10-10: TWikibug:Item7576: Support additional SEARCH parameters: search, scope, type -- TWiki:Main.PeterThoeny
- 2010-08-21: TWikibug:Item6562: Fix error Global symbol $RELEASE requires explicit package name
- 2010-07-25: TWikibug:Item6530: Doc fixes, changing TWIKIWEB to SYSTEMWEB
- 28 Aug 2008

10 Apr 2008


10 Apr 2008


29 Mar 2008


11 Jul 2007


7 Apr 2007


6 Apr 2007

1.1 - Even more code cleaning. Rewrote tree building algorithm. Orphaned topics are now sorted as if child of the web root. No more blank line in the middle of the tree. Adding `nodiv` parameter. By TWiki:Main.StephaneLenclud.

6 Apr 2007


6 Apr 2007


4 Apr 2007


14 Mar 2007

0.7.1 - Arthur Clemens: Made `startlevel` and `stoplevel` relative to the root topic.

14 Mar 2007

0.7 - Arthur Clemens: `web` parameter is now actually used. Added parameter `startlevel`.

14 Mar 2007

01 Oct 2006

0.6 - TWiki:Main.StephaneLenclud: adding `&index` format substitution. Useful when used in combination with TWiki:Plugins/TreeBrowserPlugin. Also attempting to restore compatibility with Cairo, but still waiting for someone to test it.

16 Sep 2006

0.5 - TWiki:Main.StephaneLenclud: adding `levelprefix` parameter to unable usage in combination with TWiki:Plugins/TreeBrowserPlugin.

26 Jul 2006

0.4 - TWiki:Main.SteffenPoulsen: Ported to TWiki 4 (Dakar). Leading text removed, less warnings, no double bracket links, CSS classnames around output.

15 Feb 2002

Alpha (0.2) release

08 Feb 2002

Internal (0.1) release

Dependencies: None

CPAN Dependencies: none (test package relies on Wiki:PerlUnit)

Home: http://TWiki.org/cgi-bin/view/Plugins/TreePlugin

Feedback: http://TWiki.org/cgi-bin/view/Plugins/TreePluginDev

Appraisal: http://TWiki.org/cgi-bin/view/Plugins/TreePluginAppraisal

Related Topics: HeadingOutlineSample, TreePluginSamples, TWikiPreferences, TWikiPlugins

This topic: TWiki > TreePlugin

Topic revision: r1 - 2015-08-12 - TWikiContributor

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*Note:* Please contribute updates to this topic on TWiki.org at TWiki:TWiki.TreePlugin