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FilterPlugin

Substitute and extract information from content by using regular expressions

Description

This plugin allows to substitute and extract information from content by using regular expressions. There are three different types of new functions:

1. **FORMATLIST**: manipulate a list of items; it is highly configurable to define what constitutes a list and how to extract items from it
2. **SUBST**, **STARTSUBST/STOPSUBST**: substitute a pattern in a chunk of text
3. **EXTRACT**, **STARTEXTRACT/STOPEXTRACT**: extract a pattern from a text

While the **START-STOP** versions of **SUBST** and **EXTRACT** work on inline text, the normal versions process a source topic before including it into the current one.

Syntax Rules

SUBST

Syntax: `%SUBST{topic="..." ...}%`

Insert a topic by processing its content.

- `topic="..."`: name of the topic text to be processed
- `text="..."`: text to be processed (has got higher precedence than 'topic')
- `pattern="..."`: pattern to be extracted or substituted
- `format="..."`: format expression or pattern substitute
- `header="..."`: header string prepended to output
- `footer="..."`: footer string appended to output
- `limit="<n>"` maximum number of occurrences to extract or substitute counted from the start of the text (defaults to 100000 aka all hits)
- `skip="<n>"` skip the first n occurrences
- `exclude="..."`: skip occurrences that match this regular expression
- `sort="on,off,alpha,num"` order of the formatted items (default "off")
- `expand="on,off"`: toggle expansion of TWiki markup before filtering (defaults to on)

STARTSUBST, STOPSUBST

Syntax:

```
%STARTSUBST{...}%  
...  
%STOPSUBST%
```

Substitute text given inline. see **SUBST**.

EXTRACT

Syntax: `%EXTRACT{topic="..." ...}%`

Extract text from a topic. see SUBST.

STARTEXTRACT, STOPEXTRACT

Syntax:

```
%STARTEXTRACT{...}%
...
%STOPEXTRACT%
```

Extract content given inline. see SUBST.

FORMATLIST

Syntax: %FORMATLIST{"<list>" ...}%

Formats a list of items. The <list> argument is separated into items by using a split expression; each item is matched against a pattern and then formatted using a format string while being separated by a separator string; the result is prefixed with a header and appended with a footer in case the list is not empty.

- <list>: the list
- split="...": the split expression (default ",")
- pattern="...": pattern applied to each item (default "\s(.*)\s")
- format="...": the format string for each item (default "\$1")
- header="...": header string
- footer="...": footer string
- separator="...": string to be inserted between list items
- limit="...": max number of items to be taken out of the list (default "-1")
- skip="...": number of list items to skip, not adding them to the result
- sort="on,off,alpha,num" order of the formatted items (default "off")
- reverse="on,off": reverse the sortion of the list
- unique="on,off": remove duplicates from the list
- exclude="...": remove list items that match this regular expression

The pattern string shall group matching substrings in the list item to which you can refer to by using \$1, \$2, ... in the format string. Any format string (format, header, footer) may contain variables \$percent\$, \$nop, \$dollar and \$n. The variable \$index referse to the position number within the list being formatted; using \$count in the footer or header argument refers to the total number of list elements.

MAKEINDEX

Syntax: %MAKEINDEX{"<list>" ...}%

Formats a list into a multi-column index like in MediaWiki's category topcis. MAKEINDEX insert capitals as headlines to groups of sorted items. It will try to balance all columns equally, and keep track of breaks to prevent "schusterkinder", that is avoid isolated headlines at the bottom of a column.

Parameters:

- <list>: the list of items
- split="...": the split expression to separate the <list> into items (default ",")
- pattern="...": pattern applied to each item (default "(.*)")
- cols="...": maximum number of cols to split the list into
- format="...": format of each list item (default "\$item")

- sort="on/off": sort the list (default "on")
- unique="on/off": removed duplicates (default "off")
- exclude="...": pattern to check against items in the list to be excluded
- reverse="on/off": reverse the list (default "off")
- header="...": format string to prepend to the result
- footer="..." format string to be appended to the result

Like in `FORMATLIST` the `format` parameter can make use of `$1`, `$2`, ... variables to match the groupings defined in the `pattern` argument (like in `pattern="(.*);(.*);(.*)"`). The first matched grouping `$1` will be used as the `$item` to sort the list.

Examples

Secure Html

```
<a href="javascript:window.alert('Pop me up');">Pop me up</a>
```

Format Comments

Date	Author	Headline
22 Aug 2005	TWiki:Main.MichaelDaum ↗	This is a first comment. ...
22 Aug 2005	TWiki:Main.MichaelDaum ↗	This is a second comment. ...

This is a first comment.

-- TWiki:Main.MichaelDaum [↗](#) on 22 Aug 2005

This is a second comment.

-- TWiki:Main.MichaelDaum [↗](#) on 22 Aug 2005

Extract table data

Pos	Description	Hours
1	onsite troubleshooting	3
2	normalizing data to new format	10
3	testing server performance	5

- it took 3 hours onsite troubleshooting
- it took 10 hours normalizing data to new format
- it took 5 hours testing server performance

MAKEINDEX example

Compare with Philosophy articles needing attention [↗](#)

A	F	N
<ul style="list-style-type: none"> • Absolute (philosophy) ↗ • Accident (philosophy) ↗ • Actualism ↗ 	<ul style="list-style-type: none"> • Futilitarianism ↗ 	<ul style="list-style-type: none"> • Non-rigid designator ↗
	H	O
	<ul style="list-style-type: none"> • Hermeneutics ↗ • Hypokeimenon ↗ 	<ul style="list-style-type: none"> • Object (philosophy) ↗ • Ontic ↗

- V**

- [World riddle](#)

Plugin Installation Instructions

- Download the ZIP file from [twiki.org](#) (see below)
- Unzip it in your twiki installation directory. Content:

File:	Description:
<code>data/TWiki/FilterPlugin.txt</code>	
<code>lib/TWiki/Plugins/FilterPlugin/Core.pm</code>	
<code>lib/TWiki/Plugins/FilterPlugin.pm</code>	

- Visit `configure` in your TWiki installation, and enable the plugin in the {Plugins} section.

Plugin Info

Plugin Author:	TWiki:Main.MichaelDaum
Copyright:	© 2005-2008, Michael Daum http://michaeldaumconsulting.com © 2005-2010, TWiki: TWiki/TWikiContributor
License:	GPL (GNU General Public License)
Plugin Version:	2010-07-25
Change History:	
2010-07-25:	TWikibug:Item6530 - doc improvements
2010-04-29:	TWikibug:Item6433 - doc improvements
03 Jul 2008:	sorting a list <i>before</i> , not <i>after</i> , formatting it in FORMATLIST
08 May 2008:	added 'text' parameter to SUBST and EXTRACT; fixed SUBST as it was pretty useless before
07 Dec 2007:	added MAKEINDEX, added lazy compilation
14 Sep 2007:	added sorting for EXTRACT and SUBST
02 May 2007:	using registerTagHandler() as far as possible; enhanced parameters to EXTRACT and SUBST
05 Feb 2007:	fixed escapes in format strings; added better default value for max number of hits to prevent deep recursions on bad regexpressions
22 Jan 2007:	fixed SUBST, added skip parameter to FORMATLIST
18 Dec 2006:	using registerTagHandler for FORMATLIST
13 Oct 2006:	fixed <code>limit</code> parameter in FORMATLIST
31 Aug 2006:	added <code>NO_PREFS_IN_TOPIC</code>
15 Aug 2006:	added <code>use strict</code> ; and fixed revealed errors
14 Feb 2006:	moved in FORMATLIST from the TWiki:Plugins/NatSkinPlugin ; added escape variables to format strings
06 Dec 2005:	fixed SUBST not to cut off the rest of the text
09 Nov 2005:	fixed deep recursion using <code>expand="on"</code>
22 Aug 2005:	Initial version; added <code>expand</code> toggle
TWiki Dependency:	<code>\$TWiki::Plugins::VERSION 1.024</code>
CPAN Dependencies:	none
Other Dependencies:	none
Perl Version:	5.005
TWiki:Plugins/Benchmark :	<code>GoodStyle nn%</code> , <code>FormattedSearch nn%</code> , <code>FilterPlugin nn%</code>
Plugin Home:	http://TWiki.org/cgi-bin/view/Plugins/FilterPlugin

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Feedback:	http://TWiki.org/cgi-bin/view/Plugins/FilterPluginDev
Appraisal:	http://TWiki.org/cgi-bin/view/Plugins/FilterPluginAppraisal

Related Topics: TWikiPlugins, DeveloperDocumentationCategory, AdminDocumentationCategory, TWikiPreferences

This topic: TWiki > FilterPlugin

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or Ideas, requests, problems regarding TWiki? use Discourse or Send feedback

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