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# TwistyPlugin

Twisty section JavaScript library to open/close content dynamically

## Introduction

The TwistyPlugin gives you several options to control the appearance of a twisty:

- use link text or buttons
- position an icon left or right
- remember the state at the next visit of the page
- start the Twisty open or closed
- start the Twisty open or closed for the first visit
- use a span or div for the content
- set a class for the content span or div

Twisty has a fallback mechanism in case JavaScript is not available: all content is displayed and the control buttons are hidden.

## Usage examples

### Triad

A Twisty consists of 3 elements:

1. Show button
2. Hide button
3. Collapsing content ('Toggle')

The typical TwistyPlugin triad will look like this (pseudo code):

```
%TWISTYSHOW{}% %TWISTYHIDE{}%  
(there may be other things between buttons and content)  
%TWISTYTOGGLE{}% my content %ENDTWISTYTOGGLE%
```

### Shorthand

The Twisty triad is conveniently packed into shorthand `%TWISTY{some parameters}% Collapsing content %ENDTWISTY%`:

```
%TWISTY{}%  
my twisty content  
%ENDTWISTY%
```

Will generate:

More... Close my twisty content

You may have noticed that no parameters are passed to `%TWISTY{ }%` but the show and hide links *do* have text! The default values are fetched from plugin settings `TWISTYSHOWLINK` and `TWISTYHIDELINK`, see Plugin Settings below.

## Twisty with icons

We will use `mode="div"` to put the collapsing content below the button (the default mode is `"span"`).

```
%TWISTY{
mode="div"
showlink="Show..."
hidelink="Hide"
showimgleft="%ICONURLPATH{toggleopen-small}%"
hideimgleft="%ICONURLPATH{toggleclose-small}%"
}%
my twisty content
%ENDTWISTY%
```

It will look like this:

Show...  Hide  
my twisty content

To put icons at the right side, write

```
%TWISTY{
mode="div"
showlink="Show "
hidelink="Hide "
showimgright="%ICONURLPATH{toggleopen-small}%"
hideimgright="%ICONURLPATH{toggleclose-small}%"
}%
my twisty content
%ENDTWISTY%
```

Show  Hide   
my twisty content

## Make it remember

To store the last state in a TWIKIPREF cookie, add the parameter `remember="on"`.

To test this, reload the page after toggling.

```
%TWISTY{
showlink="Show..."
hidelink="Hide"
remember="on"
}%
my twisty content
%ENDTWISTY%
```

Show... Hide my twisty content

If a Twisty state has been stored in a TWIKIPREF cookie before, it can be cleared by using

`remember="off"`:

```
%TWISTY{
showlink="Show..."
hidelink="Hide"
remember="off"
}%
my twisty content
%ENDTWISTY%
```

Show... Hide my twisty content

**NOTE:** Twisty ids are generated automatically. If you need control over exactly *which* Twisty should be remembered, add the parameter `id`:

```
%TWISTY{
id="currentCustomerList"
showlink="Show..."
hidelink="Hide"
remember="on"
}%
my customer list
%ENDTWISTY%
```

Note that `id` sets a sitewide cookie. To create a unique id, add topic or web variables:

```
id="%WEB%_%TOPIC%_currentCustomerList"
```

## Make it obey

To let the Twisty start with its content folded open, add parameter `start="show"`.

```
%TWISTY{
showlink="Show..."
hidelink="Hide"
start="show"
}%
my twisty content
%ENDTWISTY%
```

Show... Hide my twisty content

Likewise use `start="hide"` to start with hidden content.

```
%TWISTY{
showlink="Show..."
hidelink="Hide"
start="hide"
}%
my twisty content
%ENDTWISTY%
```

Show... Hide my twisty content

## Make it obey only the first time

To let the Twisty start with its content folded open the first time the visitor sees the Twisty, add the parameter `firststart="show"`. If `remember="on"` is used, subsequential visits to the page will display the Twisty according the cookie setting.

```
%TWISTY{
showlink="Show..."
hidelink="Hide"
firststart="show"
}%
my twisty content
%ENDTWISTY%
```

Show... Hide my twisty content

Make it remember

## Other use: Hide interface if no JavaScript

You can use Twisty to show interface elements that should only be visible with JavaScript enabled. For instance the textbox control buttons in the edit screen need JavaScript to work. If a visitor does not have JavaScript on it would not make sense to show these buttons.

Put the "JavaScript content" in an almost bare bones Twisty. Write `showlink="" hidelink=""` to not display any default link texts.

```
%TWISTY{
link=""
noscript="hide"
start="show"
}%


```

Do not forget to set `start="show"` to show the Twisty content at all.

When JavaScript is off, the button should be invisible.

This code will show the button when JavaScript is off:

```
%TWISTY{
link=""
start="show"
}%


```

## Styling the Twisty

Use parameter `class` to style the content div or class:

```
%TWISTY{
mode="div"
showlink="Show..."
hidelink="Hide"
class="twikiHelp"
}%
my twisty content
%ENDTWISTY%
```

Generates:

Show... Hide  
my twisty content

## Twisty headers

To be able to use header tags like `<h2>`, use the properties `prefix` and `suffix`. Because we have identical show and hide links we can use the shorthand property `link`.

```
%TWISTY{
prefix="<h4>!!"
mode="div"
link="Header"
showimgleft="%ICONURLPATH{toggleopen}%"
hideimgleft="%ICONURLPATH{toggleclose}%"
}
```

Other use: Hide interface if no JavaScript

```
suffix="</h4>"
}%
my twisty content
%ENDTWISTY%
```

Add the !! to prevent the twisty header appear in the table of contents when you use %TOC%.

Will create:

**!! ▢ Header ▢ Header**

my twisty content

## All on, all off

You can toggle all Twisties on or off at once by putting a link or button on the page with class twistyExpandAll or twistyCollapseAll.

```
<button class="twistyExpandAll twikiButton">Expand all</button> &nbsp; <button class="twistyColla
```

Creates these controls:

Expand all Collapse all

When you want to use links, write:

```
#VarTOGGLE

<a href="#TOGGLE" class="twistyExpandAll">Expand all</a> &nbsp; <a href="#TOGGLE" class="twistyCollapseAll">Collapse all</a>
```

Expand all Collapse all

## Special syntax: format tokens

If you use TWiki variables inside TWISTY parameters chances are it will mess up the variable, or the rendered html. Use format tokens to 'delay' rendering of these variables until the Twisty parameters are parsed.

The format tokens are the same as with FormattedSearch:

Escape:	Expands To:
\$n or \$n ()	New line. Use \$n () if followed by alphanumeric character, e.g. write Foo\$n () Bar instead of Foo\$nBar
\$nop or \$nop ()	Is a "no operation".
\$quot	Double quote (")
\$percent	Percent sign (%)
\$dollar	Dollar sign (\$)

For example, to show an icon inside the link, do not write:

```
link="%Y%"
```

but use format tokens:

```
link="$percentY$percent"
```

... to get:



my twisty content

Or a more complex example using SpreadsheetPlugin; do not write:

```
link="Count: (%CALC{"$GET(infoCount)"}%)"
```

but use format tokens:

```
link="Count: ($percentCALC{"$quote$dollarGET(infoCount)$quote"}$percent)"
```

## Syntax

### TWISTY

This renders the button as well as the toggled content section contained within this and the closing ENDTWISTY tag.

Usage: %TWISTY{ ... }% Toggable contents %ENDTWISTY%

Parameter	Value	Description	Remark
id	Unique identifier	Used to link TWISTYBUTTON and TWISTYTOGGLE	optional
link	Link label	Link label for both show and hide links	optional
hidelink	Link label	Hide link label	optional
showlink	Link label	Show link label	optional
mode	"div" or "span"	Specify if the Twisty Toggle section will use a <div> or a <span> tag. Note that if the contents contains block elements such as div, mode should be div as well to create valid HTML markup.	optional, defaults to <span>
showimgleft	Image url	Specify the url of an image that will be displayed with the show link at the left side of the link. You may use ICONURLPATH to display one of the TWikiDocGraphics icons. Alternatively use an image attached to the topic.	optional, defaults to no image
hideimgleft	Image url	Specify the url of an image that will be displayed with the hide link at the left side of the link. You may use ICONURLPATH to display one of the TWikiDocGraphics icons. Alternatively use an image attached to the topic.	optional, defaults to no image
showimgright	Image url	Specify the url of an image that will be displayed with the show link at the right side of the link. You may use ICONURLPATH to display one of the TWikiDocGraphics icons. Alternatively use an image attached to the topic.	optional, defaults to no image
hideimgright	Image url	Specify the url of an image that will be displayed with the hide link at the right side of the link. You may use ICONURLPATH to display one of the TWikiDocGraphics icons. Alternatively use an image	optional, defaults to no image

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		attached to the topic.	
remember	"on", "off"	If "on", the Twisty state is remembered the next time the page is shown. If "off", the stored setting will be cleared. <b>Note:</b> when used, think carefully about a unique name (id) for the Twisty, otherwise the cookie that is set might affect other Twisties with the same name. Also note that only interaction is stored, not the state of the Twisty when left unclicked.	optional, no default
start	"hide" or "show"	Initial state of the Twisty; this will override any setting stored in a cookie (see <code>remember</code> ).	optional, default no initial state
firststart	"hide" or "show"	Initial state of the Twisty the first time the visitor gets to see the Twisty; this will NOT override cookie settings (see <code>remember</code> ).	optional, default no initial state
noscript	"hide"	Make content hidden in case use does not have JavaScript on	optional, default content is shown in case JavaScript if off
class	CSS class name	Class for Twisty div or span	optional, default none
prefix	Text	Text to display before the show/hide links	optional, default none
suffix	Text	Text to display after the show/hide links	optional, default none
img	Image url	Deprecated, use <code>showimgleft</code> , <code>hideimgleft</code> , <code>showimgright</code> or <code>hideimgright</code> .	optional, defaults to no image
imgleft	Image url	Deprecated, use <code>showimgleft</code> , <code>hideimgleft</code> , <code>showimgright</code> or <code>hideimgright</code> .	optional, defaults to no image
imgright	Image url	Deprecated, use <code>showimgleft</code> , <code>hideimgleft</code> , <code>showimgright</code> or <code>hideimgright</code> .	optional, defaults to no image
hideimg	Image url	Deprecated, use <code>showimgleft</code> , <code>hideimgleft</code> , <code>showimgright</code> or <code>hideimgright</code> .	optional, defaults to no image
showimg	Image url	Deprecated, use <code>showimgleft</code> , <code>hideimgleft</code> , <code>showimgright</code> or <code>hideimgright</code> .	optional, defaults to no image

- Related TWISTYBUTTON and TWISTYTOGGLE

## ENDTWISTY

Twisty closure, complements the opening TWISTY tag.

- Syntax: %ENDTWISTY%

See ENDTWISTYTOGGLE.



## Twisty components syntax

Occasionally you might need to create a custom set of individual Twisty components:

### TWISTYBUTTON

**Shorthand version for TWISTYSHOW & TWISTYHIDE** This is useful if both the show and the hide button take the same arguments.

- Supported parameters: all parameters supported by TWISTY, except for `noscript` and `class` (only used for 'toggle' content)
- Parameter differences:
  - ◆ `mode`: button mode defaults to `span`
- Syntax: `%TWISTYBUTTON{id="myid" ... }%`
- Supported parameters:

Parameter	Value	Description	Remark
<code>mode</code>	"div" or "span"	Specify if the <b>Twisty button</b> will use a <code>&lt;div&gt;</code> or a <code>&lt;span&gt;</code> tag. Note that if the contents contains block elements such as <code>div</code> , mode should be <code>div</code> as well to create valid HTML markup.	optional, defaults to <code>&lt;span&gt;</code>

- Example: `%TWISTYBUTTON{id="myid" link="more"}%%TWISTYTOGGLE{id="myid"}%content%ENDTWISTYTOGGLE%`
- Related: TWISTYSHOW and TWISTYHIDE

### TWISTYSHOW

#### Show/open link

- Syntax: `%TWISTYSHOW{id="myid" ... }%`
- Supported parameters:

Parameter	Value	Description	Remark
<code>id</code>	Unique identifier	Used to link TWISTYSHOW, TWISTYHIDE and TWISTYTOGGLE	required
<code>link</code>	Link label	Show link label	optional
<code>mode</code>	"div" or "span"	Specify if the Twisty Show link will use a <code>&lt;div&gt;</code> or a <code>&lt;span&gt;</code> tag. Note that if the contents contains block elements such as <code>div</code> , mode should be <code>div</code> as well to create valid HTML markup.	optional, defaults to <code>&lt;span&gt;</code>
<code>img</code>	Image url	Specify the url of an image that will be displayed at the <b>right side</b> of the link. You may use <code>ICONURLPATH</code> to display one of the TWikiDocGraphics icons. Alternatively use an image attached to the topic.	optional, defaults to no image
<code>imgleft</code>	Image url	Specify the url of an image that will be displayed at the left side of the link. You may use <code>ICONURLPATH</code> to display one of the TWikiDocGraphics icons. Alternatively use an image attached to the topic.	optional, defaults to no image
<code>imgright</code>	Image url	Specify the url of an image that will be displayed at the right side of the link. You may use <code>ICONURLPATH</code> to display one of the	optional, defaults to no image

		TWikiDocGraphics icons. Alternatively use an image attached to the topic.	
remember	"on", "off"	If "on", the Twisty state is remembered the next time the page is shown. If "off", the stored setting will be cleared. <b>Note:</b> when used, think carefully about a unique name (id) for the Twisty, otherwise the cookie that is set might affect other Twisties with the same name. Also note that only interaction is stored, not the state of the Twisty when left unclicked.	optional, no default
start	"hide" or "show"	Initial state of the Twisty; this will override any setting stored in a cookie (see remember).	optional, default no initial state
firststart	"hide" or "show"	Initial state of the Twisty the first time the visitor gets to see the Twisty; this will NOT override cookie settings (see remember).	optional, default no initial state

- **Example:** %TWISTYSHOW{id="demo" link=" Click to Unfold " imgleft="%ICONURLPATH{toggleopen}%" }%
- **Related:** TWISTYHIDE and TWISTYTOGGLE

## TWISTYHIDE

### Hide/close link

- **Syntax:** %TWISTYHIDE{id="myid" ... }%
- **Supported parameters:**

Parameter	Value	Description	Remark
id	Unique identifier	Used to link TWISTYSHOW, TWISTYHIDE and TWISTYTOGGLE	required
link	Link label	Hide link label	optional
mode	"div" or "span"	Specify if the Twisty Hide link will use a <div> or a <span> tag. Note that if the contents contains block elements such as div, mode should be div as well to create valid HTML markup.	optional, defaults to <span>
img	Image url	Specify the url of an image that will be displayed at the <b>right side</b> of the link. You may use ICONURLPATH to display one of the TWikiDocGraphics icons. Alternatively use an image attached to the topic.	optional, defaults to no image
remember	"on", "off"	If "on", the Twisty state is remembered the next time the page is shown. If "off", the stored setting will be cleared. <b>Note:</b> when used, think carefully about a unique name (id) for the Twisty, otherwise the cookie that is set might affect other Twisties with the same name. Also note that only interaction is stored, not the state of the Twisty when left unclicked.	optional, no default
start	"hide" or "show"	Initial state of the Twisty; this will override any setting stored in a cookie (see remember).	optional, default no initial state
firststart			

	"hide" or "show"	Initial state of the Twisty the first time the visitor gets to see the Twisty; this will NOT override cookie settings (see remember).	optional, default no initial state
--	------------------	---	------------------------------------

- Example: `%TWISTYHIDE{id="demo" link=" Click to Fold " imgleft="%ICONURLPATH{toggleclose}%" }%`
- Related: TWISTYSHOW and TWISTYTOGGLE

## TWISTYTOGGLE

### Twisty Toggle contents section

- Syntax: `%TWISTYTOGGLE{id="myid"}%`
- Supported parameters:

Parameter	Value	Description	Remark
id	Unique identifier	Used to link TWISTYSHOW, TWISTYHIDE and TWISTYTOGGLE.	required
mode	"div" or "span"	Specify if the Twisty Toggle section will use a <code>&lt;div&gt;</code> or a <code>&lt;span&gt;</code> tag. Note that if the contents contains block elements such as <code>div</code> , mode should be <code>div</code> as well to create valid HTML markup.	optional, defaults to <code>&lt;span&gt;</code>
class	CSS class name	Class for content div or span	optional, default none
remember	"on", "off"	If "on", the Twisty state is remembered the next time the page is shown. If "off", the stored setting will be cleared. <b>Note:</b> when used, think carefully about a unique name (id) for the Twisty, otherwise the cookie that is set might affect other Twisties with the same name. Also note that only interaction is stored, not the state of the Twisty when left unclicked.	optional, no default
start	"hide" or "show"	Initial state of the Twisty; this will override any setting stored in a cookie (see remember).	optional, default no initial state
firststart	"hide" or "show"	Initial state of the Twisty the first time the visitor gets to see the Twisty; this will NOT override cookie settings (see remember).	optional, default no initial state
noscript	"hide"	Make content hidden in case use does not have JavaScript on	optional, default content is shown with no JavaScript

- Example: `%TWISTYTOGGLE{id="demo" mode="div" remember="on"}%My content%ENDTWISTYTOGGLE%`
- Related: TWISTYHIDE, TWISTYHIDE an ENDTWISTYTOGGLE

## ENDTWISTYTOGGLE

### The Twisty closure

- Syntax: `%ENDTWISTYTOGGLE%`
  - ◆ Will end the most inner unclosed Twisty Toggle section, using the proper tag
- Example: `%ENDTWISTYTOGGLE%`
- Related: TWISTYTOGGLE

## The Fine Print

TwistyPlugin is a convenience plugin for TWiki:Plugins.TwistyContrib .

Major features are:

- When active, the Twisty JavaScript library is included in every topic
- Provides a convenience syntax to define Twisty areas
- Automatically generates ids
- Automatically fills in default values
- Global preference settings can be set in this topic or locally in individual topics

## Plugin Settings

Plugin settings are stored as preferences variables. To reference a plugin setting write `%<plugin>_<setting>%`, i.e. `%TWISTYPLUGIN_SHORTDESCRIPTION%`

- Set TWISTYSHOWLINK = More...
  - ◆ For example: More...
- Set TWISTYHIDELINK = Close
  - ◆ For example: Close
- Set TWISTYMODE =
  - ◆ Either `div` or `span`; `span` if nothing set
- Set TWISTYREMEMBER =
  - ◆ Either `on` or `off`; default is not specified. If set to `on` all Twisty states will be stored in a TWIKIPREF cookie; if set to `off` the TWIKIPREF cookie will be cleared
- Set SHORTDESCRIPTION = Twisty section JavaScript library to open/close content dynamically
- Set DEBUG = 0

## Plugin Installation Instructions

- Download the ZIP file from the Plugin web (see below)
- Unzip **TwistyPlugin.zip** in your root (`$TWIKI_ROOT`) directory. Content:

File:	Description:
<code>TwistyBundleTWiki04x02_installer</code>	
<code>TwistyBundleTWiki04x02_installer.pl</code>	
<code>data/TWiki/TwistyBundleTWiki04x02.txt</code>	
<code>data/TWiki/BehaviourContrib.txt</code>	
<code>data/TWiki/TwistyContrib.txt</code>	
<code>data/TWiki/TwistyPlugin.txt</code>	
<code>lib/TWiki/Contrib/BehaviourContrib.pm</code>	
<code>lib/TWiki/Contrib/TwistyBundleTWiki04x02.pm</code>	
<code>lib/TWiki/Contrib/TwistyContrib.pm</code>	
<code>lib/TWiki/Plugins/TwistyPlugin.pm</code>	
<code>pub/TWiki/BehaviourContrib/behaviour.compressed.js</code>	

<code>pub/TWiki/BehaviourContrib/behaviour.compressed_src.js</code>	
<code>pub/TWiki/BehaviourContrib/behaviour.js</code>	
<code>pub/TWiki/BehaviourContrib/behaviour_src.js</code>	
<code>pub/TWiki/BehaviourContrib/cssQuery/cssQuery-p.js</code>	
<code>pub/TWiki/BehaviourContrib/cssQuery/src/cssQuery-level2.js</code>	
<code>pub/TWiki/BehaviourContrib/cssQuery/src/cssQuery-level3.js</code>	
<code>pub/TWiki/BehaviourContrib/cssQuery/src/cssQuery-standard.js</code>	
<code>pub/TWiki/BehaviourContrib/cssQuery/src/cssQuery.js</code>	
<code>pub/TWiki/BehaviourContrib/cssQuery/src/test.html</code>	
<code>pub/TWiki/BehaviourContrib/cssQuery/test.html</code>	
<code>pub/TWiki/TwistyContrib/twist.compressed.js</code>	
<code>pub/TWiki/TwistyContrib/twist.compressed_src.js</code>	
<code>pub/TWiki/TwistyContrib/twist.css</code>	
<code>pub/TWiki/TwistyContrib/twist.js</code>	
<code>pub/TWiki/TwistyContrib/twist_src.js</code>	

- Optionally, if it exists, run **TwistyPlugin\_installer** to automatically check and install other TWiki modules that this module depends on. You can also do this step manually.
- Alternatively, manually make sure the dependencies listed in the table below are resolved. None
- Visit `configure` in your TWiki installation, and enable the plugin in the {Plugins} section.

## Plugin Info

Authors:	TWiki:Main.RafaelAlvarez , TWiki:Main.ArthurClemens , TWiki:Main.PeterThoeny
Copyright:	© 2005 Rafael Alvarez; © 2006-2008 Arthur Clemens; © 2010-2011 Peter Thoeny; © 2005-2011 TWiki:TWiki.TWikiContributor
License:	GPL (GNU General Public License )
Dependencies:	None
Plugin Version:	2011-07-10
Change History:	
2011-07-10:	TWikibug:Item6725 : Change global package variables from "use vars" to "our"
2010-05-17:	1.6 TWikibug:Item6433 - doc improvements -- Peter Thoeny
2010-03-31:	1.5 TWikibug:Item6354 - make TwistyPlugin work with TWiki:Plugins/VarCachePlugin ; added VarTWISTY variable documentation -- Peter Thoeny
08 Oct 2008	1.4.11, 1.4.12 It is now possible to have a twisty on the same line without a linebreak.
03 Aug 2008	1.4.10 TWiki 4.2.1 release version
13 Dec 2007	1.4.9 fix to the loading order of javascript files in head
24 Nov 2007	1.4.6 - 1.4.8 Arthur Clemens - Added format tokens.
07 Oct 2007	1.4.5 Arthur Clemens - Fix html tag with show/hide controls.
25 Sep 2007	1.4.4 Arthur Clemens - Fix rendering of headers when <code>prefix</code> is used.
11 Jul 2007	1.4.3 Arthur Clemens - Fix invalid html when <code>prefix</code> and <code>suffix</code> is used.
23 Jun 2007	1.4.2 Arthur Clemens - Fixed bugs with parameters <code>firststart</code> and <code>noscript</code> (since version 1.4).
20 Jun 2007	1.4 Arthur Clemens - Updated to work without ugly inserted javascript 'init' calls. This will change nothing to the functionality, but it will produce cleaner HTML, while at the same time the twisty is still set immediately (not at page onload) and graceful fallback in case of no javascript is maintained.
19 Jun 2006	1.3 Arthur Clemens - Updated with TWiki 4 JavaScript files.

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25 Oct 2006	1.2 New variables to set default values: TWISTYSHOWLINK, TWISTYHIDELINK, TWISTYMODE, TWISTYREMEMBER; property <code>id</code> is no longer required as this is automatically set (still recommended in some cases with <code>remember="on"</code> ); property value <code>remember="off"</code> will clear a previously stored cookie; new properties <code>prefix</code> and <code>suffix</code> ; JavaScript to collapse or expand all Twisties on the page.
27 Sep 2006	1.101 Fixes JavaScript handling when <code>AllowInlineScript</code> in <code>configure</code> is not set
11 June 2006	1.100 Added parameters <code>start</code> , <code>firststart</code> , <code>noscript</code> and <code>class</code> ; complete JavaScript rewrite for speed
12 Sep 2005	1.000 First Version
Home:	<a href="http://TWiki.org/cgi-bin/view/Plugins/TwistyPlugin">http://TWiki.org/cgi-bin/view/Plugins/TwistyPlugin</a>
Feedback:	<a href="http://TWiki.org/cgi-bin/view/Plugins/TwistyPluginDev">http://TWiki.org/cgi-bin/view/Plugins/TwistyPluginDev</a>
Appraisal:	<a href="http://TWiki.org/cgi-bin/view/Plugins/TwistyPluginAppraisal">http://TWiki.org/cgi-bin/view/Plugins/TwistyPluginAppraisal</a>

**Related Topics:** [TwistyContrib](#), [VarTWISTY](#), [TWikiPlugins](#), [DeveloperDocumentationCategory](#), [AdminDocumentationCategory](#)

This topic: [TWiki > TwistyPlugin](#)

Topic revision: r7 - 2011-07-10 - [TWikiContributor](#)



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**Note:** Please contribute updates to this topic on [TWiki.org](http://TWiki.org) at [TWiki:TWiki.TwistyPlugin](#).