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Wiki Macros

Trac macros are plugins to extend the Trac engine with custom 'functions' written in Python. A macro inserts dynamic HTML data in any context supporting WikiFormatting.

Another kind of macros are WikiProcessors. They typically deal with alternate markup formats and representation of larger blocks of information (like source code highlighting).

Using Macros

Macro calls are enclosed in two *square brackets*. Like Python functions, macros can also have arguments, a comma separated list within parentheses.

Examples

```
[[Timestamp]]
```

Display:

Error: Failed to load processor `Timestamp`

No macro or processor named 'Timestamp' found

```
[[HelloWorld(Testing)]]
```

Display:

Error: Failed to load processor `HelloWorld`

No macro or processor named 'HelloWorld' found

Available Macros

Note that the following list will only contain the macro documentation if you've not enabled `--OO optimizations`, or not set the `PythonOptimize` option for `mod_python`.

```
[[InterTrac]]
```

Provide a list of known InterTrac prefixes.

```
[[TracNav]]
```

TracNav: The Navigation Bar for Trac

This macro implements a fully customizable navigation bar for the Trac wiki engine. The contents of the navigation bar is a wiki page itself and can be edited like any other wiki page through the web interface. The navigation bar supports hierarchical ordering of topics. The design of TracNav mimics the design of the TracGuideToc that was originally supplied with Trac. The drawback of TracGuideToc is that it is not customizable without editing its source code and that it does not support hierarchical ordering.

Installation

See <http://trac.edgewall.org/wiki/TracPlugins>.

Usage

To use TracNav, create an index page for your site and call the TracNav? macro on each page, where the navigation bar should be displayed. The index page is a regular wiki page. The page with the table of contents must include an unordered list of links that should be displayed in the navigation bar.

To display the navigation bar on a page, you must call the TracNav macro on that page and pass the name of your table of contents as argument.

Additional information and a life example

Please visit: <http://svn.ipd.uka.de/trac/javaparty/wiki/TracNav>.

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[[JPNav]]

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[[TitleIndex]]

Inserts an alphabetic list of all wiki pages into the output.

Accepts a prefix string as parameter: if provided, only pages with names that start with the prefix are included in the resulting list. If this parameter is omitted, all pages are listed.

Alternate format and depth can be specified:

◇ format=group: The list of page will be structured in groups according to common prefix. This format also supports a min=n argument, where n is the minimal number of pages for a group.

◇ depth=n: limit the depth of the pages to list. If set to 0, only toplevel pages will be shown, if set to 1, only immediate children pages will be shown, etc. If not set, or set to -1, all pages in the hierarchy will be shown.

[[RecentChanges]]

Lists all pages that have recently been modified, grouping them by the day they were last modified.

This macro accepts two parameters. The first is a prefix string: if provided, only pages with names that start with the prefix are included in the resulting list. If this parameter is omitted, all pages are listed.

The second parameter is a number for limiting the number of pages returned. For example, specifying a limit of 5 will result in only the five most recently changed pages to be included in the list.

[[PageOutline]]

Displays a structural outline of the current wiki page, each item in the outline being a link to the corresponding heading.

This macro accepts three optional parameters:

◇ The first is a number or range that allows configuring the minimum and maximum level of headings that should be included in the outline. For example, specifying "1" here will result in only the top-level headings being included in the outline. Specifying "2-3" will make the outline include all headings of level 2 and 3, as a nested list. The default is to include all heading levels.

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- ◇ The second parameter can be used to specify a custom title (the default is no title).
- ◇ The third parameter selects the style of the outline. This can be either `inline` or `pullout` (the latter being the default). The `inline` style renders the outline as normal part of the content, while `pullout` causes the outline to be rendered in a box that is by default floated to the right side of the other content.

`[[Image]]`

Embed an image in wiki-formatted text.

The first argument is the file specification. The file specification may reference attachments in three ways:

- ◇ `module:id:file`, where `module` can be either **wiki** or **ticket**, to refer to the attachment named *file* of the specified wiki page or ticket.
- ◇ `id:file`: same as above, but `id` is either a ticket shorthand or a Wiki page name.
- ◇ `file` to refer to a local attachment named 'file'. This only works from within that wiki page or a ticket.

Also, the file specification may refer to repository files, using the `source:file` syntax (`source:file@rev` works also).

Files can also be accessed with a direct URLs; `/file` for a project-relative, `//file` for a server-relative, or `http://server/file` for absolute location of the file.

The remaining arguments are optional and allow configuring the attributes and style of the rendered `` element:

- ◇ `digits` and `unit` are interpreted as the size (ex. `120`, `25%`) for the image
- ◇ `right`, `left`, `top` or `bottom` are interpreted as the alignment for the image
- ◇ `link=some TracLinks...` replaces the link to the image source by the one specified using a `TracLinks`. If no value is specified, the link is simply removed.
- ◇ `nolink` means without link to image source (deprecated, use `link=`)
- ◇ `key=value` style are interpreted as HTML attributes or CSS style indications for the image.

Valid keys are:

- `align`, `border`, `width`, `height`, `alt`, `title`, `longdesc`, `class`, `id` and `usemap`
- `border` can only be a number

Examples:

```
[[Image(photo.jpg)]]           # simplest
[[Image(photo.jpg, 120px)]]     # with image width size
[[Image(photo.jpg, right)]]     # aligned by keyword
[[Image(photo.jpg, nolink)]]    # without link to source
[[Image(photo.jpg, align=right)]] # aligned by attribute
```

You can use image from other page, other ticket or other module.

```
[[Image(OtherPage:foo.bmp)]]    # if current module is wiki
[[Image(base/sub:bar.bmp)]]     # from hierarchical wiki page
[[Image(#3:baz.bmp)]]           # if in a ticket, point to #3
[[Image(ticket:36:boo.jpg)]]    # straight from the repository!
[[Image(source:/images/bee.jpg)]] # straight from the repository!
[[Image(htdocs:foo/bar.png)]]   # image file in project htdocs dir.
```

Adapted from the Image.py macro created by Shun-ichi Goto <gotoh@?>

`[[MacroList]]`

Displays a list of all installed Wiki macros, including documentation if available.

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Optionally, the name of a specific macro can be provided as an argument. In that case, only the documentation for that macro will be rendered.

Note that this macro will not be able to display the documentation of macros if the `PythonOptimize` option is enabled for `mod_python`!

`[[TracIni]]`

Produce documentation for Trac configuration file.

Typically, this will be used in the `TracIni` page. Optional arguments are a configuration section filter, and a configuration option name filter: only the configuration options whose section and name start with the filters are output.

`[[TracGuideToc]]`

This macro shows a quick and dirty way to make a table-of-contents for a set of wiki pages.

`[[TOC]]`

Generate a table of contents for the current page or a set of pages.

If no arguments are given, a table of contents is generated for the current page, with the top-level title stripped:

```
[[TOC]]
```

To generate a table of contents for a set of pages, simply pass them as comma separated arguments to the `TOC` macro, e.g. as in

```
[[TOC(TracGuide, TracInstall, TracUpgrade, TracIni, TracAdmin, TracBackup,
      TracLogging, TracPermissions, TracWiki, WikiFormatting, TracBrowser,
      TracRoadmap, TracChangeset, TracTickets, TracReports, TracQuery,
      TracTimeline, TracRss, TracNotification)]]
```

A wildcard `*` can be used to fetch a sorted list of all pages starting with the preceding pagename stub:

```
[[TOC(Trac*, WikiFormatting, WikiMacros)]]
```

The following *control* arguments change the default behaviour of the `TOC` macro:

= Argument =	= Description =
<code>heading=<x></code>	Override the default heading of "Table of Contents"
<code>noheading</code>	Suppress display of the heading.
<code>depth=<n></code>	Display headings of <i>subsequent</i> pages to a maximum depth of <n> .
<code>inline</code>	Display TOC inline rather than as a side-bar.
<code>sectionindex</code>	Only display the page name and title of each page in the wiki section.
<code>titleindex</code>	Only display the page name and title of each page, similar to <code>TitleIndex</code> .
<code>notitle</code>	Supress display of page title.
<code>reverse</code>	Display TOC sorted in reversed order. (<i>Since 11.0.0.4</i>)

For `titleindex` argument, an empty pagelist will evaluate to all pages:

```
[[TOC(titleindex, notitle, heading=All pages)]]
```

The `sectionindex` argument allows a title index to be generated for all pages in a given section of the wiki. A section is defined by wiki page name, using `/` as a section level delimiter (like directories in a file system). Giving `/` or `*` as the page name produces the same result as `titleindex` (title of all pages). If a page name ends with a `/`, only children of this page will be processed. Otherwise, the page given in the

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argument is also included, if it exists. For `sectionindex` argument, an empty pagelist will evaluate to all page below the same parent as the current page:

```
[[TOC(sectionindex, notitle, heading=This section pages)]]
```

[[TicketQuery]]

Macro that lists tickets that match certain criteria.

This macro accepts a comma-separated list of keyed parameters, in the form "key=value".

If the key is the name of a field, the value must use the syntax of a filter specifier as defined in `TracQuery#QueryLanguage`. Note that this is *not* the same as the simplified URL syntax used for `query:` links starting with a `?` character.

In addition to filters, several other named parameters can be used to control how the results are presented. All of them are optional.

The `format` parameter determines how the list of tickets is presented:

- ◇ **list** -- the default presentation is to list the ticket ID next to the summary, with each ticket on a separate line.
- ◇ **compact** -- the tickets are presented as a comma-separated list of ticket IDs.
- ◇ **count** -- only the count of matching tickets is displayed
- ◇ **table** -- a view similar to the custom query view (but without the controls)

The `max` parameter can be used to limit the number of tickets shown (defaults to **0**, i.e. no maximum).

The `order` parameter sets the field used for ordering tickets (defaults to **id**).

The `desc` parameter indicates whether the order of the tickets should be reversed (defaults to **false**).

The `group` parameter sets the field used for grouping tickets (defaults to not being set).

The `groupdesc` parameter indicates whether the natural display order of the groups should be reversed (defaults to **false**).

The `verbose` parameter can be set to a true value in order to get the description for the listed tickets. For **table** format only. *deprecated in favor of the `rows` parameter*

The `rows` parameter can be used to specify which field(s) should be viewed as a row, e.g.

```
rows=description|summary
```

For compatibility with Trac 0.10, if there's a second positional parameter given to the macro, it will be used to specify the `format`. Also, using "&" as a field separator still works (except for `order`) but is deprecated.

[[InterWiki]]

Provide a description list for the known InterWiki prefixes.

[[TracAdminHelp]]

Displays help for trac-admin commands.

Examples:

```
[[TracAdminHelp]]           # all commands
[[TracAdminHelp(wiki)]]     # all wiki commands
[[TracAdminHelp(wiki export)]] # the "wiki export" command
[[TracAdminHelp(upgrade)]]  # the upgrade command
```

Macros from around the world

The Trac Hacks site provides a wide collection of macros and other Trac plugins contributed by the Trac community. If you're looking for new macros, or have written one that you'd like to share with the world, please don't hesitate to visit that site.

Developing Custom Macros

Macros, like Trac itself, are written in the Python programming language. They are very simple modules, identified by the filename and should contain a single `execute()` function. Trac will display the returned data inserted into the HTML representation of the Wiki page where the macro is called.

It's easiest to learn from an example:

```
# MyMacro.py -- The world's simplest macro

def execute(hdf, args, env):
    return "Hello World called with args: %s" % args
```

You can also use the environment (`env`) object, for example to access configuration data and the database, for example:

```
def execute(hdf, txt, env):
    return env.config.get('trac', 'repository_dir')
```

Note that since version 0.9, wiki macros can also be written as `TracPlugins`. This gives them some capabilities that ?classic? macros do not have, such as being able to directly access the HTTP request.

For more information about developing macros, see the [development resources](#) on the main project site.

See also: [WikiProcessors](#), [WikiFormatting](#), [TracGuide](#)