

---+ Package TWiki::Render

This module provides most of the actual HTML rendering code in TWiki.

ClassMethod new (\$session)

Creates a new renderer

ObjectMethod finish ()

Break circular references.

ObjectMethod renderParent (\$web, \$topic, \$meta, \$params) -> \$text

Render parent meta-data

ObjectMethod renderMoved (\$web, \$topic, \$meta, \$params) -> \$text

Render moved meta-data

ObjectMethod makeAnchorName

(\$anchorName, \$compatibilityMode) -> \$anchorName

- \$anchorName - the unprocessed anchor name
- \$compatibilityMode - SMELL: compatibility with **what??** Who knows. 😞

Build a valid HTML anchor name

ObjectMethod makeUniqueAnchorName

(\$web, \$topic, \$anchorName, \$compatibility) -> \$anchorName

- \$anchorName - the unprocessed anchor name
- \$compatibilityMode - SMELL: compatibility with **what??** Who knows. 😞

Build a valid HTML anchor name (unique w.r.t. the list stored in %anchornames)

ObjectMethod internalLink

(\$theWeb, \$theTopic, \$theLinkText, \$theAnchor, \$doLink, \$doKeepWeb, ...)
-> \$html

Generate a link.

Note: Topic names may be spaced out. Spaced out names are converted to WikWords, for example, "spaced topic name" points to "SpacedTopicName".

- \$theWeb - the web containing the topic

ClassMethod new (\$session)

- `$theTopic` - the topic to be link
- `$theLinkText` - text to use for the link
- `$theAnchor` - the link anchor, if any
- `$doLinkToMissingPages` - boolean: false means suppress link for non-existing pages
- `$doKeepWeb` - boolean: true to keep web prefix (for non existing Web.TOPIC)
- `$hasExplicitLinkLabel` - boolean: true in case of explicit link label

Called by `_handleWikiWord` and `_handleSquareBracketedLink` and by `Func::internalLink`

Calls `_renderWikiWord`, which in turn will use `Plurals.pm` to match fold plurals to equivalency with their singular form

SMELL: why is this available to `Func`?

ObjectMethod renderFORMFIELD (`%params`, `$topic`, `$web`) -> `$html`

Returns the fully rendered expansion of a tag.

ObjectMethod getRenderedVersion (`$text`, `$theWeb`, `$theTopic`) -> `$html`

The main rendering function.

StaticMethod verbatimCallback

Callback for use with `putBackBlocks` that replaces `<` and `>` by their HTML entities `<` and `>`;

ObjectMethod TML2PlainText (`$text`, `$web`, `$topic`, `$opts`) -> `$plainText`

Clean up TWiki text for display as plain text without pushing it through the full rendering pipeline. Intended for generation of topic and change summaries. Adds `nop` tags to prevent TWiki subsequent rendering; `nops` get removed at the very end.

Defuses TML.

`$opts`:

- `showvar` - shows `%VAR%` names if not expanded
- `expandvar` - expands `%VARS%`
- `nohead` - strips `---` headings at the top of the text
- `showmeta` - does not filter meta-data

ObjectMethod protectPlainText (`$text`) -> `$tml`

Protect plain text from expansions that would normally be done during rendering, such as wikiwords. Topic summaries, for example, have to be protected this way.

ObjectMethod `internalLink($theWeb,$theTopic,$theLinkText,$theAnchor,$doLink,$doKeepWeb,$hasExplicit`

ObjectMethod makeTopicSummary

(*\$theText*, *\$theTopic*, *\$theWeb*, *\$theFlags*) -> *\$tml*

Makes a plain text summary of the given topic by simply trimming a bit off the top. Truncates to \$TMTRUNC chars or, if a number is specified in \$theFlags, to that length.

ObjectMethod takeOutBlocks (*\\$text*, *\$tag*, *\%map*) -> *\$text*

- *\$text* - Text to process
- *\$tag* - XHTML-style tag.
- *\%map* - Reference to a hash to contain the removed blocks

Return value: *\$text* with blocks removed

Searches through *\$text* and extracts blocks delimited by a tag, appending each onto the end of the @buffer and replacing with a token string which is not affected by TWiki rendering. The text after these substitutions is returned.

Parameters to the open tag are recorded.

This is *different* to takeOutProtected, because it requires tags to be on their own line. it also supports a callback for post- processing the data before re-insertion.

ObjectMethod putBackBlocks

(*\\$text*, *\%map*, *\$tag*, *\$newtag*, *\$callback*) -> *\$text*

Return value: *\$text* with blocks added back

- *\\$text* - reference to text to process
- *\%map* - map placeholders to blocks removed by takeOutBlocks
- *\$tag* - Tag name processed by takeOutBlocks
- *\$newtag* - Tag name to use in output, in place of *\$tag*. If undefined, uses *\$tag*.
- *\$callback* - Reference to function to call on each block being inserted (optional)

Reverses the actions of takeOutBlocks.

Each replaced block is processed by the callback (if there is one) before re-insertion.

Parameters to the outermost cut block are replaced into the open tag, even if that tag is changed. This allows things like <verbatim class=""> to be mapped to <pre class="">

Cool, eh what? Jolly good show.

And if you set *\$newtag* to "", we replace the taken out block with the valuse itself

- which i'm using to stop the rendering process, but then at the end put in the html directly (for tag.

```
---++ ObjectMethod *renderRevisionInfo* ($web,$topic,$meta,$rev,$format) -> $string
Obtain and render revision info for a topic. *=$web= - the web of the topic *=$topic= - the topic *
=$meta= if specified, get rev info from here. If not specified, or meta contains rev info for a different
version than the one requested, will reload the topic *=$rev= - the rev number, defaults to latest rev *
=$format= - the render format, defaults to =$rev - $time - $wikiusername= =$format= can contain the
following keys for expansion: |=$web= | the web name ||=$topic= | the topic name ||=$rev= | the
```

rev number || = \$comment = | the comment || = \$username = | the login of the saving user ||
 = \$wikiname = | the wikiname of the saving user || = \$wikiusername = | the web.wikiname of the saving user || = \$date = | the date of the rev (no time) || = \$time = | the time of the rev || = \$min =, = \$sec =, etc. |
 Same date format qualifiers as GMTIME | ---++ ObjectMethod *summariseChanges*
 (\$user, \$web, \$topic, \$orev, \$nrev, \$tml) -> \$text * = \$user = - user (null to ignore permissions) *
 = \$web = - web * = \$topic = - topic * = \$orev = - older rev * = \$nrev = - later rev * = \$tml = - if true will
 generate renderable TML (i.e. HTML with NOPS. if false will generate a summary suitable for use in
 plain text (mail, for example) Generate a (max 3 line) summary of the differences between the revs. If
 there is only one rev, a topic summary will be returned. If = \$tml = is not set, all HTML will be
 removed. In non-tml, lines are truncated to 70 characters. Differences are shown using + and - to
 indicate added and removed text. ---++ ObjectMethod *forEachLine* (\$text, \&fn, \%options) ->
 \$newText Iterate over each line, calling = \&fn = on each. \%options may contain: * =pre= => true,
 will call fn for each line in pre blocks * =verbatim= => true, will call fn for each line in verbatim
 blocks * =literal= => true, will call fn for each line in literal blocks * =noautolink= => true, will call
 fn for each line in =noautolink= blocks The spec of \&fn is =sub fn(\$line, \%options) -> \$newLine=.
 The \%options hash passed into this function is passed down to the sub, and the keys =in_literal=,
 =in_pre=, =in_verbatim= and =in_noautolink= are set boolean TRUE if the line is from one (or more)
 of those block types. The return result replaces \$line in \$newText. ---++ StaticMethod
 getReferenceRE (\$web, \$topic, \%options) -> \$re * \$web, \$topic - specify the topic being
 referred to, or web if \$topic is undef. * \%options - the following options are available * =interweb= -
 if true, then fully web-qualified references are required. * =grep= - if true, generate a GNU-grep
 compatible RE instead of the default Perl RE. * =url= - if set, generates an expression that will match
 a TWiki URL that points to the web/topic, instead of the default which matches topic links in plain
 text. Generate a regular expression that can be used to match references to the specified web/topic.
 Note that the resultant RE will only match fully qualified (i.e. with web specifier) topic names and
 topic names that are wikiwords in text. Works for spaced-out wikiwords for topic names. The RE
 returned is designed to be used with =s///= ---++ StaticMethod *replaceTopicReferences*
 (\$text, \%options) -> \$text Callback designed for use with forEachLine, to replace topic
 references. \%options contains: * =oldWeb= => Web of reference to replace * =oldTopic= => Topic
 of reference to replace * =newWeb= => Web of new reference * =newTopic= => Topic of new
 reference * =inWeb= => the web which the text we are presently processing resides in * =fullPaths=
 => optional, if set forces all links to full web.topic form For a usage example see
 TWiki::UI::Manage.pm ---++ StaticMethod *replaceWebReferences* (\$text, \%options) ->
 \$text Callback designed for use with forEachLine, to replace web references. \%options contains: *
 =oldWeb= => Web of reference to replace * =newWeb= => Web of new reference For a usage
 example see TWiki::UI::Manage.pm ---++ ObjectMethod *replaceWebInternalReferences*
 (\&text, \%meta, \$oldWeb, \$oldTopic) Change within-web wikiwords in \$\$text and \$meta to full
 web.topic syntax. \%options must include topics => list of topics that must have references to them
 changed to include the web specifier. ---++ StaticMethod *breakName* (\$text, \$args) -> \$text *
 = \$text = - text to "break" * = \$args = - string of format (\d+)([,\s*\.\.\.])? Hyphenates \$text every \$1
 characters, or if \$2 is "..." then shortens to \$1 characters and appends "..." (making the final string
 \$1+3 characters long) _Moved from Search.pm because it was obviously unhappy there, as it is a
 rendering function_ ---++ StaticMethod *protectFormFieldValue* (\$value, \$attrs) -> \$html
 Given the value of a form field, and a set of attributes that control how to display that value, protect
 the value from further processing. The protected value is determined from the value of the field after:
 * newlines are replaced with
 or the value of \$attrs->{newline} * processing through breakName
 if \$attrs->{break} is defined * escaping of \$vars if \$attrs->{protectdollar} is defined * | is replaced
 with | or the value of \$attrs->{bar} if defined

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