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IF Statements

The `%IF%` construct gives Foswiki the power to include content in topics based on the value of simple expressions.

Syntax

```
%IF{"CONDITION" then="THEN" else="ELSE"}%
```

In the example above, if `CONDITION` evaluates to `TRUE`, then `THEN` will be included in the topic; otherwise `ELSE` will be included.

Note that because of the way Foswiki evaluates, then whatever is in the `THEN` and `ELSE` parameters will already have been expanded by the time the condition is actually evaluated. The standard `FormatTokens` can be used in the `THEN` and `ELSE` parameters when you need to delay evaluation of (for example) a macro.

The basic syntax of a condition is the same as the syntax used for queries, with the addition of the following special operators:

context	True if the current context is set (see below)
allows	'X' allows 'Y' is true if web/topic 'X' exists and allows access mode 'Y' for the current user. Web access rights are only checked if there is no topic called 'X'.
istopic	istopic 'X' is true if topic 'X' exists
isweb	isweb 'X' is true if web 'X' exists
ingroup	'X' ingroup 'Y' is true if user 'X' is in group 'Y'. 'X' can be a login name or a wikiname.
defined	True if a preference setting or url parameter of this name is defined.
isempty	True if a preference setting, url parameter or session variable of this name has an empty value. It is equivalent to the expression <code>(defined(x) \$x='')</code>
\$	expands a URL parameter or macro name. Plugin handlers are not called . You can pass a limited subset of parameters to macros by enclosing the parameter string in single quotes; for example, <code>\$ 'MACRO{value}'</code> . The <code>'MACRO{value}'</code> string may not contain quotes (' or ").
{X}	expands to the value of the configure setting <code>{X}</code> - for example, <code>{ScriptUrlPath}</code>

Examples

1. Macro defined or not

```
%IF{"defined 'WIKINAME'" then="WIKINAME is defined" else="WIKINAME is not defined"}%
```

2. Compare macro definition

```
You are %IF{ "$ WIKINAME='WikiGuest' and not defined 'OPEN_DAY'" then="not" }% allowed to  
%IF{ "context view" then="view" else="edit"}% this Foswiki today.
```

3. URL parameter

```
%IF{ "defined 'search'" then="Search: $percentURLPARAM{search}$percent" else="No search pass
```

4. Range test on URL parameter

```
url param t is %IF{ "0 < $ t and $ t < 1000" then="in" else="out of"}% range.
```

5. Text comparison of URL parameter

```
%IF{ "$'URLPARAM{scope}'='text'" then="Plain text search" }%
```

6. Configuration item set or not

```
%IF{ "{AntiSpam}{HideUserDetails}" then="User details are hidden" }%
```

7. Plugin enabled test

```
TablePlugin is %IF{ "context TablePluginEnabled" then="enabled" else="disabled" }%.
```

expands to:

TablePlugin is enabled.

8. Check access permissions

```
You %IF{"'%TOPIC%' allows 'change'" then="can" else="cannot"}% change this topic.  
You %IF{"'Sandbox.TestTopic' allows 'change'" then="can" else="cannot"}% change Sandbox.Te  
You %IF{"'Sandbox' allows 'change'" then="can" else="cannot"}% change Sandbox web
```

expands to:

You cannot change this topic. You can change TestTopic. You can change Sandbox web

9. Check topic existence

```
Topic Sandbox.TestTopic %IF{"istopic 'Sandbox.TestTopic'" then="exists" else="does not exi  
Web Sandbox.TestTopic %IF{"isweb 'Sandbox'" then="exists" else="does not exist"}%
```

expands to:

Topic TestTopic exists Web TestTopic exists

10. Group membership

```
You %IF{"'%USERNAME%' ingroup 'AdminGroup'" then="are an admin" else="are a normal user"}%
```

expands to:

You are a normal user

Configuration items are defined in configure. You cannot see the value of a configuration item, you can only see if the item is set or not.

Context identifiers

Context identifiers are used in Foswiki to label various stages of the rendering process. They are especially useful for skin authors to find out where they are in the rendering process. The following context identifiers are available:

id	context
----	---------

id	context
absolute_urls	Set if absolute URLs are required
attach	in attach script (see CommandAndCGIScripts)
authenticated	a user is authenticated
body_text	when the body text is being processed in a view (useful in plugin handlers)
can_login	current environment supports login
changes	in changes script (see CommandAndCGIScripts)
command_line	the running script was run from the command line, and not from CGI
diff	in rdiff script (see CommandAndCGIScripts)
edit	in edit script (see CommandAndCGIScripts)
footer_text	when the footer text is being processed in a view (useful in plugin handlers)
header_text	when the header text is being processed in a view (useful in plugin handlers)
i18n_enabled	when user interface I18N support is enabled (i.e., user can choose the language for UI)
inactive	if active links such as 'edit' and 'attach' should be disabled
login and logon	in login / logon script (see CommandAndCGIScripts)
manage	in manage script (see CommandAndCGIScripts)
mirror	if this is a mirror
new_topic	if the topic doesn't already exist
oops	in oops script (see CommandAndCGIScripts)
preview	in preview script (see CommandAndCGIScripts)
register	in register script (see CommandAndCGIScripts)
rename	in rename script (see CommandAndCGIScripts)
resetpasswd	in resetpasswd script (see CommandAndCGIScripts)
rss	if this is an RSS skin rendering
save	in save script (see CommandAndCGIScripts)
search	in search script (see CommandAndCGIScripts)
statistics	in statistics script (see CommandAndCGIScripts)
textareas_hijacked	provided for use by editors that hijack textareas, and want to signal this fact. This is used by skins, for example, so they can suppress extra controls when textareas have been hijacked.
upload	in upload script (see CommandAndCGIScripts)
view	in view script (see CommandAndCGIScripts)
viewfile	in viewfile script (see CommandAndCGIScripts)
rest	in rest script (see CommandAndCGIScripts)
registration_supported	registration is supported by the current UserMapper?
registration_enabled	set if {Register}{EnableNewUserRegistration} is on, and registration is supported
passwords_modifiable	set if the password manager support changing the password / email

In addition there is a context identifier for each enabled plugin; for example, if GallousBreeksPlugin is installed **and enabled**, then the context ID GallousBreeksPluginEnabled will be set. Other extensions may set additional context identifiers.

The %IF% statement is deliberately kept simple. In particular, note that there is no way to conditionally execute a Set statement. If you need more sophisticated control over formatting, then consider using the SpreadsheetPlugin.

Query syntax

Note also that while the query syntax can be used to access form fields, there are some contexts in which an IF statement may be used where there is no topic context, or the topic context is not what you expected.

Examples

Display the value of a form field if the topic has form field "Summary":

```
%FORMFIELD{"%IF{"'%TOPIC%'/Summary" then="Summary"}%"}%
```

Test if the topic has attachments:

```
%IF{"'%TOPIC%'/attachments" then="has attachments"}%
```

Test if the topic has an attachment with 'receipt' or 'Receipt' in the name:

```
%IF{"'%TOPIC%'/attachments[lc(name)~'*receipt*']" then="has 'receipt' attachment"}%
```

Test if a topic text contains a certain word:

```
%IF{"'%SYSTEMWEB%.WebHome'/lc(text)~'*welcome*'" then="contains 'welcome'"}%
```

Edit | Attach | Print version | History: %REVISIONS% | Backlinks | Raw View | More topic actions

Topic revision: r1 - 12 Sep 2009 - 03:27:10 - ProjectContributor

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