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xpt-snippet-syntax

XPT Snippet Syntax

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```

xpt-snippet-sample

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A snippet file looks like this : >

```

XPTemplate priority=lang keyword=$ | |xpt-snippet-header|

let s:f = XPTfuncs() | |xpt-snippet-function|

XPTvar $TRUE true |xpt-snippet-variable|
XPTvar $FALSE false
XPTvar $NULL null
XPTvar $UNDEFINED undefined

XPTvar $CL /*
XPTvar $CM *
XPTvar $CR */

XPTinclude | |xpt-snippet-XPTinclud

\ _common/common
\ _comment/doubleSign
\ _condition/c.like

fun! s:f.js_filename() |xpt-snippet-function|
return expand( "%" )
endfunction

XPTemplateDef | |XPTemplateDef|

XPT cmt hint=/**\ @auth...\ */
XSET author=$author |xpt-snippet|
XSET email=$email |xpt-snippet-XSET|
/**
* @author : 'author^ | 'email^
* @description
* 'cursor^
* @return {'Object^} 'desc^
*/

XPT for hint=for\ (var...;++)
for ( i=0; i<'len^'; ++i ) { 'cursor^ }

```

<

xpt-snippet-header

Each snippet file starts with a XPTemplate declaration for snippet-scope setting, duplication load check, etc.

Format : >

XPTemplate [priority=lang] [keyword=#] [mark='^']

<

There are 3 optional settings for 'XPTemplate' :

xpt-snippet-priority

Priority affects |xpt-snippet| and |xpt-snippet-variable|;
|xpt-snippet-function| is defined directly, so it isn't controlled by
|xpt-snippet-priority|. Snippets with a lower |xpt-snippet-priority|
override higher ones. Format : >

XPTemplate priority=<priority-value>

<

See |xpt-priority-value|.

xpt-priority-value

Snippets are defined with a certain priority. One buffer might load
snippets with the same name. Only the snippet with the lowest priority
is used, others are ignored.

Priorities can be in the range from 0 to +oo. 0 is the highest
priority. Some predefined symbols stand for numeric priority

values : >

```

all      : 64
spec     : 48
like     : 32

```

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<	<pre> lang : 16 sub : 8 personal : 0 Default priority is "lang" or 16. You can set priority for each snippet by using xpt-priority-format . Or set priority for all templates in the current file with XPTemplatePriority() . Priority setting format : "priority[+/-[offset]]". Following formats are all valid : > 3 3 lang 16 like+4 36 // like=32 all- 63 // all=64 all-1 63 // all=64 xpt-snippet-keyword specifies what other characters can be used as xpt-snippet-name . Format : > XPTemplate keyword=... For example, for C language keyword is set as : > XPTemplate keyword=# So that "#if" can be used as xpt-snippet-name . To specify which 2 characters are used as xpt-placeholder-mark instead of the default ` ` and `^`. Format : > XPTemplate mark=~^ xpt-snippet-variable can be used in : xpt-snippet-instant-value xpt-snippet-preset-value xpt-snippet-default-value xpt-snippet-post-filter xpt-placeholder-ontime-filter Format : > XPTvar \$VAR_NAME something Or with single quote : > XPTvar \$VAR_NAME 'something' The only difference is that in single quoted strings space can be freely used. Like this : > XPTvar \$VAR_NAME ' ' Instead of using the escaped format "\ ". It's also possible to set a variable to the empty value: > XPTvar \$VAR_NAME '' Another example from C language : > XPTvar \$TRUE 1 and a snippet defined as : > XPT while1 while ('\$TRUE^') { 'cursor^' } will generate : > while (1) { 'cursor^' } xpt-snippet-variable is used widely in XPTemplate, such as comment definition, format customization, etc. Personal information variables should be defined by using </pre>	

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<	<pre> g:xptemplate_vars . Variables defined with g:xptemplate_vars override variables defined in any snippet files. NOTE By convention the names of xpt-snippet-variable supplied by XPTemplate start with an upper-case letter. User defined variable name should start with a lower-case letter. NOTE Override control of xpt-snippet-variable is affected by xpt-snippet-priority . xpt-snippet-function can be used in : xpt-snippet-instant-value xpt-snippet-preset-value xpt-snippet-default-value xpt-snippet-post-filter xpt-placeholder-ontime-filter To define xpt-snippet-function , the function container must be fetched by using XPTfuncs() . For example : > let s:f = XPTfuncs() fun! s:f.c_printfElts(v) ... endfunction Then function 'c_printfElts' can be used in the snippet : > XPT printf hint=printf\(...) XSET elts=c_printfElts(R('pattern')) printf("'pattern'" 'elts') NOTE By convention the names of xpt-snippet-function s supplied by XPTemplate start with an upper-case letter. User defined function names should starts with a lower-case letter. XPTinclude* *xpt-snippet-XPTinclude* Syntax : > XPTinclude <folder_name_in_ftplugin>/<filename> The <filename> is only the file root, without ".xpt.vim". XPTinclude can include several snippets at one time. NOTE do NOT use :runtime to include other snippet files. XPTinclude handles snippet priority, but :runtime does NOT. XPTembed* *xpt-snippet-embed* Syntax : > XPTembed <folder_name_in_ftplugin>/<filename> XPTembed acts like XPTinclude , except it includes only snippet files for nested languages, like JavaScript in HTML, or HTML in PHP. NOTE TODO differences between XPTinclude by example. XPTemplateDef* *xpt-snippet* The snippet part starts with the command "XPTemplateDef". Any content after this command is no longer Vim script, but a XPTemplate snippet. Each xpt-snippet defines one code snippet with the following syntax : > XPT <snippetName> [name=value] [name=value] .. <snippet body>.. ..XPT 'XPT' is the start of a snippet. '..XPT' is the end of a snippet, it is optional. If '..XPT' is not present the snippet body ends at the last non-empty line. *xpt-snippet-name* <snippetName> is the name the user has to type to trigger this </pre>	

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snippet. It can only contain characters defined in 'iskeyword' and |xpt-snippet-keyword|. Custom snippets (not provided by XPTemplate) should not start with "-" by convention as these snippets are used by XPTemplate internally, see also |xpt-snippet-include|.

xpt-snippet-setting

The 'name=value' defines snippet settings, including

```
|xpt-snippet-hint|
|xpt-snippet-hidden|
|xpt-snippet-alias|
```

xpt-snippet-hint

Set the 'menu' entry for the pop up menu; as a short description other than |xpt-snippet-name|. Like the following C language popup menu : >

```
|#if      #if ...
|ifdef    #if ...
|ifndef   #ifndef ..
```

<

Syntax to set up hints: >

```
XPT for hint=for\ (..;..;++)
```

<

Or : >

```
XPT for " for (..;..;++)
```

<

The quote-hint must be at the end of |xpt-snippet| declaration.

Some characters(space, left quote and "\$") need to be escaped in hint text: >

```
hint=      <space> (      $
"          yes      yes
"          no       yes      yes
```

<

With only the 'hint=' way:

space needs to be escaped.

With both these two ways :

```
"(" needs to be escaped if you do NOT want it to be evaluated
as a function call.
"$" needs to be escaped if you do NOT want it to be evaluated
as variable.
```

xpt-snippet-hidden

Set to 1 to prevent the snippet from being triggered by the user, but it CAN be triggered from internal API, or included by other snippet.

Syntax: >

```
XPT for hidden=1 hint=...
```

<

Or: >

```
XPT for hidden hint=...
```

<

See |xpt-snippet-include| and |xpt-api|.

xpt-snippet-alias

Make the snippet an alias to another snippet. Syntax : >

```
XPT forin hint=for\ ..\ in\ ..\ ..\ endfor
for 'value^ in 'list^
'cursor^
endfor
```

<

XPT foreach alias=forin hint=for\ ..\ in\ ..\ ..\ endfor
This makes "forin" and "foreach" the same, but with possible different settings.

NOTE |xpt-snippet-alias| can be used to create shortcuts.

xpt-snippet-synonym

Like |xpt-snippet-alias|, synonym gives a snippet another name.

Syntax : >

```
XPT snippetName synonym=a|b|c...
```

<

Where a, b and c are all the names of this snippet. For example : >

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```
XPT forin synonym=fin|fi hint=for\ ..\ in\ ..\ ..\ endfor
for 'value^ in 'list^
'cursor^
endfor
```

<

This makes "forin", "fin" and "fi" the same.

NOTE |xpt-snippet-synonym| can be used to create shortcuts.

xpt-snippet-wrap

Wrapper snippets can be triggered in visual mode, place holder marked as "wrap" is replaced with the text selected in visual mode.

Definition of wrapper snippet has no differences from normal snippet except it declaring a place holder as wrapping holder. For example: >

```
_____ /-----| wrapper declaration
XPT if wrap=job
if ('condition^{
'job^
}
```

<

Wrapping can be block-wise or line-wise. Wrapper place holder with |xpt-placeholder-edge| is line-wise, or it is block-wise.

For example: >

```
XPT comment wrap=what
'/* 'what' */^
```

<

This is line-wise wrapper, it will result in: >

```
/* line1 */
/* line2 */
```

<

But not: >

```
/* line1
line2 */
```

<

See also |xpt-wrapper-snippet| and |xpt-snippet-wraponly|.

xpt-snippet-wraponly

Normally, wrapper snippet can also be triggered in insert-mode, unless "wraponly" declared. For example: >

```
_____ /-----| wrap only
XPT if wrap=job wraponly
if ('condition^{
'job^
}
```

<

xpt-snippet-abbr

{default:0}

Set to 1 to create |abbreviations| for this snippet.

Example: >

```
_____ /-----| create abbr
XPT if abbr
if ( ) { }
```

<

Snippet defined as above will be triggered by typing "if<space>" or "if<C-]>".

xpt-snippet-body

<snippet body> is all the OTHER text except the first line : >

```
XPT for hint=for\ (..;..;++)
for ('i^ = '0^; 'i^ < 'len^; ++'i^) {
'cursor^
} | snippet body
```

<

|xpt-snippet-body| contains snippet text and :

```
|xpt-snippet-XSET|
|xpt-snippet-XSETm|
```

Snippet with XSET command : >

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```

XPT printf      hint=printf(...)
XSET elts=c_printfElts( R( 'pattern' ) )
printf( "pattern^"elts^ )

< NOTE XSET/XSETm commands can be placed anywhere inside a snippet.

      *::^* *Include:* *xpt-snippet-include*
':<snippet>:^      Simple Include without "cursor".
'Include:<snippet>^ Include with "cursor" place holder.

':<snippet>():^      Simple inclusion with parameter.
'Include:<snippet>()^ Inclusion with parameter.

Snippet can include another snippet, through inclusion place holder : >
      'Include:snippetName^

< When inclusion occurs, |xpt-snippet-post-filter|,
|xpt-snippet-default-value| and |xpt-snippet-preset-value| is imported
too, if it does not override.

Short inclusion format : >
      ':snippetName:^

< Only two ":" around snippet name are needed.

NOTE The only difference between "Include:" and "::" is "Include:"
      keeps "cursor" place holder but "::" does not.

Take "if" snippet in file "_condition/c.like.xpt.vim" for example(
snippets are simplified for reading ) : >
      XPT _if hidden
      if ( 'condition^ ) {
          'job^
      }

      XPT if hint=if\ (...)\ {...}\ else...
      ':_if:^ 'else...{{^ 'Include:else^}}^

< The real "if" includes the "_if" and "else" snippets.

NOTE Inclusion is literal, so that snippets with different
|xpt-snippet-mark| can not include each other.

NOTE By convention snippets of name started with "_" are internal
      snippets. Normally these snippets are set with
|xpt-snippet-hidden| flag on and used for inclusion only.

Parameters of Inclusion:

Inclusion can have parameters passed to included snippet. Parameters
are name-value pairs. Names are placeholder name. Name-Values presents
in form of |Dictionary|:
      ':<snippet>({ '<phname>' : '<new_phname>', ... } ):^
Place holders in sub-snippet presents in parameter are replaced.

      *xpt-snippet-XSET*
In |xpt-snippet-body| XSET commands can be used anywhere to set :
      |xpt-snippet-preset-value|
      |xpt-snippet-default-value|
      |xpt-snippet-post-filter|
XSET syntax to set |xpt-snippet-preset-value|: >
      XSET itemname|pre=<expression>
< XSET syntax to set |xpt-snippet-default-value|: >
      XSET itemname|def=<expression>
< or : >
      XSET itemname=<expression>
< XSET syntax to set |xpt-snippet-post-filter|: >

```

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```

      XSET itemname|post=<expression>
< <expression> is |xpt-snippet-expression|. For example : >
      XPT #include_user      hint=include\ "
      XSET me=fileRoot()
      #include "me^.h"
< Item "me" is set to the file name without extension.

      *xpt-snippet-XSETm*
"xSETm" is similar to |xpt-snippet-XSET| except it uses "\n" instead
of "=" in |xpt-snippet-XSET| and ends with "XSETm END". For
example : >
      XPT if      hint=if\ (...)\ {...}\ else...
      if ( 'condition^ ) {
          'job^
      } 'else...^
      XSETm else...|post
      else {
          'cursor^
      }
      XSETm END

<

      *xpt-snippet-ComeFirst*
      *xpt-snippet-ComeLast*
Special XSET keys "ComeFirst" and "ComeLast" specify the item render
order. Their value is a list of place holder names separated by space.
For example : >
      XPT for hint=for\ (...;...;++)
      XSET ComeFirst=0 len
      for ( 'i^ = '0^; 'i^ < 'len^; ++'i^ ) $BRloop^{
          'cursor^
      }
< So that "0" is focused first, then "len" and then "i".

      *xpt-snippet-postQuoter*
The key "postQuoter" is designed to specify quoter do define
|xpt-snippet-expandable|. Default is "{,}"".

      *xpt-snippet-item*
In one snippet a group of |xpt-snippet-placeholder|s with the same
name is an "item". For example : >
      XPT for hint=for\ (...;...;++)
      for ( 'i^ = '0^; 'i^ < 'len^; ++'i^ ) {
          'cursor^
      }
< In this snippet there are 4 items : >
      i, 0, len, cursor
< Item "i" has 3 |xpt-snippet-placeholder|s, the others have only 1.

      *xpt-snippet-placeholder*
A place holder is a segment of a snippet which can be changed by the
user. It's tracked by XPTemplate to update the user input of
|xpt-snippet-placeholder|s within the same |xpt-snippet-item|.

The place holders are defined by |xpt-placeholder-mark|, by default
|'| and |^| are used. For example : >
      XPT for hint=for\ (...;...;++)
      for ( 'i^ = '0^; 'i^ < 'len^; ++'i^ ) {
          'cursor^
      }
< Sequentially, the place holders in this snippet are : >
      i, 0, i, len, i, cursor
<

      *xpt-placeholder-left-mark* *'^
      *xpt-placeholder-right-mark* *'^
      *xpt-placeholder-mark*
|xpt-placeholder-mark| are the characters used to define
|xpt-snippet-placeholder|s of a snippet, by default |'| and |^|.
Or the |xpt-placeholder-left-mark| and |xpt-placeholder-right-mark|.

```

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	<p>They can be changed locally, for the current snippet file, by <code> xpt-snippet-mark </code>.</p> <p style="text-align: center;">*````` *xpt-```` *xpt-placeholder-edge*</p> <p>Besides <code> ` </code> and <code> ^ </code>, additional <code> xpt-placeholder-left-mark </code>s can be set inside place holder to add additional information: the edge.</p> <p>Edge is some text around a place holder that is not selected when the cursor jumps to this place holder, but it still can be edited. For example : ></p> <pre>< `(`xpt`)^ This place holder is named "xpt" and the edges are "(" and ")". When the cursor jumps onto it : > (xpt) ***----- only xpt is selected Edges help with formatting issues.</pre> <p>Place holder can have only a left edge, for example : ></p> <pre>< `(`xpt^ NOTE only <code> _W </code> characters are acceptable in edges. <p style="text-align: center;">*xpt-snippet-leading-placeholder*</p> <p>In an item one place holder is the leading place holder which accepts user input. Others are update by XPTemplate automatically.</p> <p>By default, the first place holder in item is the leading place holder, or the one with a <code> xpt-placeholder-edge </code>. This allows it to specify which place holder is the edit area.</p> <p>For example : ></p> <pre> for (`i^ = `0^; `i^ < `len^; ++`i^) { `cursor^ }</pre> <pre>< In item "i", the first "i" before "=" is the leading one. But in this snippet : > for (`i^ = `0^; ``i^ < `len^; ++`i^) { `cursor^ }</pre> <pre>< The second "i", with double <code> ` </code> before "<", is the leading one. <p style="text-align: center;">*xpt-placeholder-special*</p> <p>Special place holders include : <code> xpt-placeholder-cursor </code> and <code> xpt-snippet-wrap </code>.</p> <p style="text-align: center;">*`cursor^* *xpt-placeholder-cursor*</p> <p>Sets where cursor the stops after a snippet finished.</p> <p>The item named "cursor" is a special one. It's always selected at last and replaced with an empty string. When navigating to the "cursor" item the snippet is complete.</p> <p style="text-align: center;">*xpt-{}* *xpt-mixed* *xpt-snippet-expression*</p> <p>Expression is a mixture of plain text, <code> xpt-snippet-variable </code> and <code> xpt-snippet-function </code>.</p> <p>Expression is used as the value of</p> <pre> xpt-snippet-instant-value xpt-snippet-preset-value xpt-snippet-default-value xpt-snippet-post-filter xpt-placeholder-ontime-filter .</pre> <p>Functions can be <code> xpt-snippet-function </code>s defined as member of <code> XPTfuncs() </code> or native Vim functions.</p> <p>Functions are called as member of rendering context : <code> xpt-snippet-function-ctx </code>.</p> <p>Functions or variables can be enclosed by <code>"{}"</code> to prevent function or</p> </pre></pre>	

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	<p>variable names messing up with the surrounding plain text.</p> <p>Functions are not evaluated if <code>"()"</code> is escaped : ></p> <pre> S\(S("abc", '.', '\u&')) is evaluated to : > S(ABC)</pre> <pre>< Escaping the '\$' stops variable evaluation : > \\$author is evaluated to : > \$author</pre> <pre>< Escaping the "{}" : > \{S("abc", '.', '\u&')) is evaluated to : > {ABC}</pre> <pre>< While : > {S("abc", '.', '\u&')) is evaluated to : > ABC</pre> <pre>< Another example, supposing you are editing a file named "your_file_name.ext" : > __{S(E("%t"),".","\\u&"))}__ is evaluated to : > __YOUR_FILE_NAME.EXT__</pre> <pre>< And : > this is S(\$author,".-","-&")- is evaluated to : > this is -d-r-d-r-.-x-p-</pre> <pre>< See also: xpt-snippet-function xpt-snippet-variable </pre> <p style="text-align: center;">*xpt-snippet-instant-value*</p> <p>There is a special case for <code> xpt-snippet-placeholder </code> when the place holder's content is a <code> xpt-snippet-expression </code>. In this case the place holder is evaluated at once, and no more further editing can happen on this place holder. For example : ></p> <pre> XPT filehead ... * @since : `strftime("%Y %b %d")`^ ...</pre> <pre>< Preset values are like <code> xpt-snippet-default-value </code> but are applied earlier. <code> xpt-snippet-default-value </code> are applied before the place holders are focused; preset value are applied just after the snippet is displayed on the screen. To define preset values: > XSET the_name pre=<expression></pre> <pre>< By default place holders use their name as the default value but you can choose another text as default value by using : > XSET the_name def=<expression></pre> <pre>< So that before cursor jumps to leading place holder of name "the_name", the <expression> evaluated and applied to the place holder.</pre> <p>Example : the "#ind" snippet defined as : ></p> <pre> XPT #ind XSET me def =fileRoot() #include "`me^.h"</pre> <pre>< In C language, type "#ind<C-\>" you get : > #include "current_file_name.h"</pre> <pre>< NOTE : if default value expression contains only plain string and</pre>	

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|xpt-snippet-variable|, it is used as |xpt-snippet-preset-value|, too;
for better looking without any side-effect.

xpt-snippet-post-filter

Post filters are executed after the user presses <Tab> and change the
typed text. To define a post filter use : >

XSET the_name|post=<expression>

Or use |xpt-snippet-postQuoter| : >

XPT enum hint=enum\ {\ \ ..\ }

enum 'name' \$BRstc^{

'elt^';

'...{{^

'elt^';

'...^}}^

} 'var^;

Some usually-used post filter functions are defined in
ftplugin/_common/common.xpt.vim.

For example for c language, "#ifndef" snippet is defined as follows : >

XPT #ifndef hint=#ifndef\ ..

XSET symbol=S(fileRoot()), '\.', '_', 'g')

XSET symbol|post=UpperCase(V())

#ifndef 'symbol^

define 'symbol^

'cursor^

#endif '\$CL^ 'symbol^ '\$CR^

..XPT

When you pressing <tab> from the first item "symbol", typed content are
converted to upper case. Before <tab> pressed : >

#ifndef __gnu__

define __gnu__

'cursor^

#endif /* __gnu__ */

After <tab> pressed : >

#ifndef __GNU__

define __GNU__

'cursor^

#endif /* __GNU__ */

xpt-snippet-default-post-filter

Place holder with some special has default post filter set. Following
sections discuss them.

Place holders have default place holder defined: >

\V\w\+? EchoIfNoChange('')

xpt-placeholder-optional-ph

If a place holder name matches pattern '\V\w\+?', "EchoIfNoChange('')"
is assigned as its post filter.
This makes the place holder optional.

For example a snippet defined as below: >

fun('arg^', 'context?^)

When you render this snippet, and cursor stays on "context?" : >

fun(arg, context?)

__ selected

Pressing <Tab> clears it, and snippet becomes: >

fun(arg)

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xpt-placeholder-post-filter

For each place holder a private post filter can also be set by using
the |^| syntax : >

XPT lowerUpper

lower : 'text^

upper : 'text^UpperCase(V())^<---- double ""

< Press <Tab>, this snippet results in : >

lower : text

upper : TEXT

<

NOTE If both |xpt-snippet-post-filter| and
|xpt-placeholder-post-filter| are set, the place holder filter takes
effect.

xpt-placeholder-default-value

xpt-placeholder-ontime-filter

For each place holder an ontime filter can be set to filter the text
each time the user types something by using the |^| syntax : >

XPT lowerUpper

lower : 'text^

upper : 'text^UpperCase(V())^ <--- only one ""

< Each time the user types something at place holder "text" the second
place holder is updated with the content converted to upper case.

NOTE ontime filter is used as |xpt-placeholder-default-value| for the
leading place holder.

xpt-snippet-expandable

Sometimes you want to create an additional piece of snippet other than
the original snippet. For example, add another "else" after an "if"
block. To do this use expandable : >

XPT if

if 'cond^

'job^

'else...{{^else

'cursor^

'}}^

endif

< At the place holder "else..." press <Tab> to generate another else
block, the text quoted by {{ and }}. Press to <Cr> to clear "else...".

Another way to define expandable is by using XSET command to define a
post filter: >

XPT if

if ('condition^)' \$BRif^{

'job^

'else...^

XSETm else...|post

else {

'cursor^

}

XSETm END

< These 2 methods are the same inside XPTemplate.

xpt-snippet-repetition

Repetition is only a special case utilizing expandable, that another
same expandable trigger residing inside the expandable part.

For example the "case"s in "switch". To specify the repetition part,
just wrap the part you want it to repeat with '...^'. n is a number and
can be omitted. Take the case from "switch": >

XPT switch

switch ('^) {

'...^

case '^0^ :

'^

break;

'...^

| repetition part

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```

    default:
        \^
    }
<
    When you trigger a repetition template it works as below: >
    switch () {          <----- cursor stays here
        \...^

        default:
            \^
    }
<
    Press <Tab>, the |\...^| is selected. Press <Tab> again to expand the
    repetition part. Or press <Cr> |xpt-key-clear| to cancel the
    repetition part. These 4 lines are expanded: >
    switch () {

        case \^ :          | expanded
            \^
            break;
            \...^

        default:
            \^
    }
<
    Enter the repetition part. There is another |\...^|, that is the
    another repeat trigger.

    Press <Tab> 3 times: >
    switch () {

        case 0 :
            break;

        case \^ :          | selected repetition part
            \^
            break;
            \...^

        default:
            \^
    }
<
    Using named |\...^| allows you define multiple repetition parts in one
    snippet. For example: >
    XPT switch
    switch (\^) {
        \case...\^          | repetition part
        case \^0^ :
            \^
            break;
        \case...\^

        default:
            \^
    }
<

    See |xpt-repetition| for using repetition.

" vim:tw=78:ts=8:sw=8:sts=8:noet:ft=help:norl:

```