The catchfilebetweentags* package

Catch a part of a file between two tags or delimiters.

2011/02/19 – version 1.1

Abstract

catchfilebetweentags provides a macro \CatchFileBetweenTags to capture the content of a file between two docstrip tags, and a macro \CatchFileBetweenDelims to capture between two strings (delimiters):

DOCSTRIP TAGS EXAMPLE

```
\CatchFileBetweenTags
%<*meta>
      something
         to
       capture
 %</meta>
```

DELIMITERS EXAMPLE

```
\CatchFileBetweenDelims
   <meta>
      something
         to
       capture
   </meta>
```

Alternatively, it is possible to execute the content of a captured-part with \ExecuteMetaData.

This packages requires ε-TEX, and the catchfile[1] package by H. Oberdiek.

Contents

1 ☞ User interface

1.1 \CatchFileBetweenTags

\CatchFileBetweenTags {⟨*cs-name*⟩}{⟨*file-name*⟩}{⟨*tag*⟩}
\CatchFileBetweenTags * {⟨*cs-name*⟩}{⟨*file-name*⟩}{⟨*tag*⟩}

This command will catch the file given its name ⟨*file-name*⟩ and store the (first) part of this file found between the two tags:

%<*⟨*tag*⟩> and **%</⟨*tag*⟩>**

If there is no such tags, the result is empty.

The capture is made inside \makeatletter ... \makeatother. More precisely, the result is retokenized (under the current catcode regime) with @ considered as a letter in all cases.

The result is stored into either:

This documentation is produced with the DocStrip utility.
- ⟶ To get the package, run: `etex catchfilebetweentags.dtx`
- ⟶ To get the documentation run (thrice): `pdflatex catchfilebetweentags.dtx`
- To get the index, run: `makeindex -s gind.ist catchfilebetweentags.idx`

The .dtx file is embedded into this pdf file thank to embedfile by H. Oberdiek.

1. catchfile: CTAN:macros/latex/contrib/oberdiek/catchfile

- if ⟨*cs-name*⟩ is a token register: into this register
- otherwise ⟨*cs-name*⟩ will be defined or redefined as a parameterless macro containing the catched part.

Comments inside the catched-part of the file are ignored unless:

1) This is a *line-comment*: the first character on the line is %, not followed by %

and

2) `\CatchFileBetweenTags` ∗ is used

In this case, *line-comments* are read as if they were not commented, *ie.*the first character % is removed.

Non line-comments are always ignored.

1.2 `\ExecuteMetaData`

```
\ExecuteMetaData [filename]{⟨tag⟩}
\ExecuteMetaData * [filename]{⟨tag⟩}
```

This macro will capture the contents of the current (main) file (*ie.*`\jobname`) between the two tags:

%<*tag> and **%</tag>**

The captured code is immediately expanded. (You may say for example: `\AtBeginDocument \ExecuteMetaData`).

This is a wrapper for:

```
\CatchFileBetweenTags\temptoken{\jobname}{meta}
\the\temptoken
\global\temptoken{}
```

`\ExecuteMetaData` ∗ will keep the lines that begin with one (not two) % character.

Alternatively, it is possible to execute meta datas from an external file with:
`\ExecuteMetaData [file]{⟨tag⟩}`

1.3 `\CatchFileBetweenDelims`

```
\CatchFileBetweenDelims {⟨cs-name⟩}{⟨file-name⟩}{⟨start-delimiter⟩}{⟨stop-delimiter⟩}
                                                                    [setup]
```

This command will catch the file given its name ⟨*file-name*⟩ and store the (first) part of this file found between the two string delimiters ⟨*start-delimiter*⟩ and ⟨*stop-delimiter*⟩ into either:

- if ⟨*cs-name*⟩ is a token register: into this register
- otherwise ⟨*cs-name*⟩ will be defined as a parameterless macro (a string) containing the catched part.

The optional parameter `[setup]` may be used to change `\catcodes` or end-of-line characters before the `\input` of ⟨*file-name*⟩.

By default, `[setup]` is `\makeatletter`.

2 ☞ Implementation

2.1 Identification

The package namespace is **CatchFBT@**.

```
1 ⟨*package⟩
2 \NeedsTeXFormat{LaTeX2e}% LaTeX 2.09 can't be used (nor non-LaTeX)
3    [2005/12/01]% LaTeX must be 2005/12/01 or younger
4 \ProvidesPackage{catchfilebetweentags}
5          [2011/02/19 v1.1 - Catch file between tags (FC)]
```

2.2 Requirements

```
6 \RequirePackage{etex,etoolbox,ltxcmds}
7 \RequirePackage{catchfile}
```

2.3 Some constants

```
8 \globtoks\CatchFBT@tok
```

2.4 User macros

\CatchFileBetweenDelims

#1 = store-cs
#2 = fname
#3 = start
#4 = end
[**#5**] = setup

```
9 \newrobustcmd*\CatchFileBetweenDelims[4]{%
10    \begingroup
11    \edef\CatchFileBetweenDelims{\endgroup
12       \noexpand\@testopt
13          {\CatchFBT@Work{\noexpand#1}{#2}{#3}{#4}}
14          {\noexpand\makeatletter}%
15    }\CatchFileBetweenDelims
16 }% \CatchFileBetweenDelims
```

\CatchFileBetweenTags

#1 = store-cs
#2 = fname
#3 = tag
[**#4**] = setup (for \CatchFBT@Final)

```
17 \newcommand\CatchFileBetweenTags{}
18 \begingroup
19 \@makeother\<%
20 \@makeother\>%
21 \@makeother\*%
22 \catcode`\: 14%
23 \@makeother\%:
24 \gdef\CatchFileBetweenTags#1#2#3{:
25    \CatchFileBetweenDelims\CatchFBT@tok{#2}{%<*#3>}{%</#3>}[\CatchFBT@sanitize]:
26    \CatchFBT@Final{#1}:
27 }:% \CatchFileBetweenTags
28 \endgroup
```

\ExecuteMetaData

```
29 \newrobustcmd*\ExecuteMetaData[2][\jobname]{%
30    \CatchFileBetweenTags\CatchFBT@tok{#1}{#2}%
31    \global\expandafter\CatchFBT@tok\expandafter{%
32             \expandafter}\the\CatchFBT@tok
```

```
}% \ExecuteMetaData
```

2.5 Implementation macros

`\CatchFBT@Work`

#1 = store-cs
#2 = fname
#3 = start
#4 = end
[**#5**] = setup (optional)

```
\long\protected\def\CatchFBT@Work#1#2#3#4[#5]{%
   \def\CatchFBT@setup{#5%
      \long\def\CatchFile@Do####1#3{\CatchFBT@catchthepart}% discard before start-delim
      \long\edef\CatchFBT@catchthepart####1#4{% capture until end-delim
         \CatchFBT@tok{\endgroup
            \CatchFBT@IsAToken#1
               {\global\noexpand#1{####1}}
               {\xdef\noexpand#1{\noexpand\unexpanded{####1}}}}%
            \noexpand\CatchFBT@discardtherest}%
      \long\expandafter\def
            \expandafter\CatchFBT@discardtherest
                  \expandafter####\expandafter1\CatchFile@EOF{}%
      \everyeof{#3#4}%
      \everyeof\expandafter\expandafter\expandafter{%
         \expandafter\the\expandafter\everyeof\CatchFile@EOF
         \expandafter\the\expandafter\CatchFBT@tok\noexpand}}%
   \CatchFileDef#1{#2}\CatchFBT@setup
}% \CatchFBT@Work
```

`\CatchFBT@sanitize` catchfilebetweentags special setup for `\CatchFileBetweenDelims`:

```
\def\CatchFBT@sanitize{%
   \@sanitize
   \@makeother\{%
   \@makeother\}%
   \endlinechar=`\^^J%
}% \CatchFBT@sanitize
```

`\CatchFBT@Final` retokenize under the current catcode regime (like standard `\input`):

```
\newrobustcmd*\CatchFBT@Final[1]{\@testopt
   {\CatchFBT@Fin@l{#1}}{}%
}% \CatchFBT@Final
\def\CatchFBT@Fin@l#1[#2]{%
   \begingroup
      \endlinechar\m@ne \makeatletter #2%
      \scantokens\expandafter{%
         \expandafter\CatchFBT@tok\expandafter{\the\CatchFBT@tok}}%
      \CatchFBT@IsAToken{#1}
         {\global#1\expandafter{\the\CatchFBT@tok}}
         {\xdef#1{\the\CatchFBT@tok}}%
      \ifx\CatchFBT@tok#1\else\global\CatchFBT@tok{}\fi
   \endgroup
}% \CatchFBT@Final
```

`\CatchFBT@IsAToken` A helper macro to decide if the result should be stored as a token register or as a macro.

```
\def\CatchFBT@IsAToken#1{%
   \expandafter\expandafter
      \expandafter\CatchFBT@Is@Token
         \expandafter\meaning\expandafter#1\string\toks
            \\\\{first}{second}\\\\%
}% \CatchFBT@IsAToken
\expandafter\def\expandafter\CatchFBT@Is@Token
      \expandafter#\expandafter1\string\toks#2#3\\#4#5#6\\\\{%
      \csname ltx@%
```

```
81          \if\relax\detokenize{#1}\relax#5%
82          \else second\fi oftwo%
83       \endcsname
84 }% \CatchFBT@Is@Token
```

85 ⟨/package⟩

3 ☞ References

[1] *The docstrip program*; 2009/09/25 v2.5d; CTAN:macros/latex/base/.

[2] *The catchfile package*; 2010/04/28 v1.5; Heiko Oberdiek. CTAN:catchfile

4 ☞ History

[2011/02/19 v1.1]

- Recompilation of the documentation after tabu[2] v2.5 and interfaces[3] v3.1 release.

[2010/06/20 v1.0]

- First version.

5 ☞ Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; plain numbers refer to the code lines where the entry is used.

2. tabu: CTAN:macros/latex/contrib/tabu
3. interfaces: CTAN:macros/latex/contrib/interfaces