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The gmverb Package*

```
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LPPL status: "author-maintained".
For documentation please refer to the file(s)
gmverb.{sty,pdf}.

49 \NeedsTexFormat{LaTex2e}
50 \ProvidesPackage{gmverb}
51        [2011/10/14 v0.98 After shortvrb (FM) but my way (GM)]

54 \*master\
(A handful of meta-settings skipped)

83 \/master\
```

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Intro, usage

This package redefines the **\verb** command and the **verbatim** environment so that the verbatim text can break into lines, with **%** (or another character chosen to be the comment char) as a 'hyphen'. Moreover, it allows the user to define their own **verbatim**-like environments provided their contents would be not *horribly* long (as long as a macro's argument may be at most).

This package also allows the user to declare a chosen char(s) as a 'short verb' e.g., to write |\a\verbatim\example| instead of \verb|\a\verbatim\example|.

^{*} This file has version number dated .

The **gmverb** package redefines the **\verb** command and the **verbatim** environment in such a way that , { and \ are breakable, the first with no 'hyphen' and the other two with the comment char as a hyphen. I.e., {\subsequent text\}} breaks into {\%}

 $\langle subsequent\ text \rangle$ } and $\langle text \rangle$ \mymacro breaks into $\langle text \rangle$ %\mymacro.

\nobreakbslash

\nobreaklbrace

(If you don't like line breaking at backslash, there's the \nobreakbslash declaration (observing the common scoping rules, hence OCSR) and an analogous declaration for the left brace: \nobreaklbrace.)

\VerbHyphen

The default 'hyphen' is % since it's the default comment char. If you wish another char to appear at the line break, use the \VerbHyphen declaration that takes \ $\langle char \rangle$ as the only argument. This declaration is always global.

\verbeol0K

Another difference is the **\verbeolok** declaration (OCSR). Within its scope, **\verb** allows an end of a line in its argument and typesets it just as a space.

As in the standard version(s), the plain \verb typesets the spaces blank and \verb* makes them visible.

\MakeShortVerb

Moreover, gmverb provides the \MakeShortVerb macro that takes a one-char control sequence as the only argument and turns the char used into a short verbatim delimiter, e.g., after \MakeShortVerb*\| (as you guess, the declaration has its starred version, which is for visible spaces, and the non-starred for the spaces blank) you may type |\mymacro| to get \mymacro instead of typing \verb+\mymacro+. Because the char used in this example is my favourite and used just this way by DEK in the *The TeX book*'s format, gmverb provides a macro \dekclubs as a shorthand for \MakeShortVerb(*)\|.

\dekclubs

\DeleteShortVerb

Be careful because such active chars may interfere with other things, e.g. | with the tikz package. If this happens, you can declare \DeleteShortVerb\| and the previous meaning of the char used shall be restored.

One more difference between **gmverb** and **shortvrb** is that the chars **\active**ated by **\MakeShortVerb** in the math mode behave as if they were 'other', so you may type e.g., \$2|0\$ to get 2|0 and + **\active**ated this way is in the math mode typeset properly etc.

However, if you don't like such a conditional behaviour, you may specify some \$\$\$\$'s (any nonempty seQuence) mixed with star(s) if you wish as an optional argument to keep the short-verbatim char behave as short-verbatim also in math mode.

For compatibility with ${\tt gmdoc}$ and for convenience there is a shorthand for that provided, ${\tt \coloredge}$

There's one more declaration provided by gmverb: \dekclubs, which is a short-

\OldMakeShortVerb \dekclubs \dekclubs* \olddekclubs

\edverbs

hand for \MakeShortVerb\|, \dekclubs* for \MakeShortVerb*\| and \olddekclubs for \OldMakeShortVerb\|.

There's one more declaration, \edverbs that makes \[checks if the next token is an active char and opens an \hbox if so. That is done so that you can write (in \edverbs' and \dekclubs' scope)

\[|<verbatim stuff>|\]

instead of

\[\hbox{|<verbatim stuff>|}\]

to get a displayed shortverb.

Both versions of \dekclubs OCSR.

The **verbatim** environment inserts **\topsep** before and after itself, just as in standard version (as if it was a **list**).

In August 2008 Will Robertson suggested grey visible spaces for **gmdoc**. I added a respective option to **gmdoc** but I find them so nice that I want to make them available for all verbatim environments so I bring here the declaration \VisSpacesGrey. It redefines only the visible spaces so affects \verb* and verbatim* and not the unstarred versions. The colour of the visible spaces is named visspacesgrey and you can redefine it xcolor

\VisSpacesGrey

visspacesgrey

way.

\verbatimspecials

We also provide the **\verbatimspecials** declaration that takes six arguments:

- #1 m a char for verbatim escape char (for catcode 0), has to be unbraced¹,
- #2 m a char for group starter (for catcode 1), has to be unbraced,
- #3 m a char for group ender (for catcode 2), has to be unbraced,
- [#4] (optional) a char for verbatim math shift (for catcode 3); it has to be in square brackets if present. If absent, nothing is set for the verbatim math shift,
- [#5] (optional) a char for the shorthand for \metachar; it has to be in square brackets if present. If provided, e.g., > as I suggest in \GMverbatimspecials, then it itself becomes an active char let-equal to \meta, and a CS made of it, \> in this example, becomes \string.
- {#6} b optional in curly braces, additional stuff (commands) to be executed in a verbatim. All the specials defined this way, except the meta char, if preceded with the escape char, will be typeset verbatim.

For example, after telling T_FX

```
\verbatimspecials < \ll \ [ ; ] [ > ] {\def\|{$\vert$}}
```

(the slash is Unicode Fractional Slash, spaces are ignored) you can write

```
\lceil \text{macro/arg}(\text{arg. } : n+1;) \rceil \rceil  \(\text{No}\) \(\text{Value}(\text{T/}|F)\)
```

to get

Note also that / is a control sequence so it doesn't delimit the short verbatim I's argument.

The \verbatimspecials declaration OCSR. Subsequent uses of it override the previous settings. If you specified the optionals at first and then specify \verbatimspecials without optionals, the previous optional settings are forgotten.

To turn the 'verbatim specials' off write \noverbatimspecials, which OCSR too.

Note that although we don't provide a 'verbatim superscript' nor 'verbatim subscript', you have the \sups and \subs CS'es defined by gmutils.

The 4th argument for the math shift is optional because you can use LATEX's \ (and ****).

The \verbatimspecials declaration goes a step further than IATEX's alltt and Til Tantau's beamer's semiverbatim environments. To get their effect, declare

\verbatimspecials\{}

There is something for verbatims in arguments of commands: $\scanverb[\star] \{ \langle text \rangle \}$. However there are some limitations: if \\$ is the comment char (which is usual situation), then you cannot use % in $\langle text \rangle$, or rather, % will act as comment char anyway. Moreover, spaces are ignored. This last limitation may be worked around if you declare \verbatim\ specials, say (fraction slash) as the escape char. Then you can use - to put a space which will be typeset blank in the unstarred version and visible with star.

Not so long ago I started to use the 'broken bar' (U+00A6, +) character as a hyphen in hyperlinks, because it seems not to occur in hyperlinks at all unlike hyphen. I suggest the same char for verbatims, but if you don't like it, there's the \verbDiscretionaryHy| phendeclaration that takes two arguments. Broken bar is declared as

\verbDiscretionaryHyphen{"A6}{|}

\noverbatimspecials

\subs \(\) alltt

semiverbatim

\sups

\scanverb

\verbDiscretionaryHyphen

¹ To be precise, the arguments cannot be wrapped in curly braces because those are recatcoded to 'other'. But if you make some other pair of chars category 1 and 2 that are not on the \dospecials list, then you can wrap the arguments in those chars. But what for?

Since version 0.95 (August 2010) this package also provides the **\VerbatimPitch** declaration that modifies the **verbatim** environments and derivatives so that the environment contents (recatcoded, i.e. "sanitised") are wrapped in the macro **\VerbatimContents** and therefore available after environment's end (after **\endverbatim** to be precise, so also in the end-def of a derivative verbatim).

This may be useful for TEXnical examples: you can rescan the contents of a verbatim with \scantokens and execute/typeset it. Such a thing is done in the gmdoc package, see the verbatim@p environment.

The package options

As many good packages, this also does not support any options.

Installation

Unpack the \jobname-tds.zip archive (this is an archive that conforms the TDS standard, see CTAN/tds/tds.pdf) in some texmf directory or just put the gmutils.sty somewhere in the texmf/\:tex/\:latex branch. Creating a texmf/\:tex/\:latex/\:gm directory may be advisable if you consider using other packages written by me.

Then you should refresh your TFX distribution's files' database most probably.

Contents of the gmverb.zip archive

The distribution of the **gmutils** package consists of the following three files and a TDS-compliant archive.

```
gmverb.sty
README
gmverb.pdf
gmverb.tds.zip
```

Compiling of the documentation

The last of the above files (the .pdf, i.e., this file) is a documentation compiled from the .sty file by running IATEX on the gmverb.sty file twice (xelatex gmverb.sty in the directory you wish the documentation to be in, you don't have copy the .\gmdExt file there, TEX will find it), then MakeIndex on the \jobname.idx file, and then IATEX on \jobname.\gmdExt once more.

MakeIndex shell commands:

```
makeindex -r gmverb
makeindex -r -s gmglo.ist -o gmverb.gls gmverb.glo
```

The -r switch is to forbid MakeIndex to make implicit ranges since the (code line) numbers will be hyperlinks.

Compiling the documentation requires the packages: gmdoc (gmdoc.sty and gmdoc.cls), gmverb.sty, the gmutils bundle, gmiflink.sty and also some standard packages: hyperref.sty, color.sty, geometry.sty, multicol.sty, lmodern.sty, fontenc.sty that should be installed on your computer by default.

Moreover, you should put the **gmglo.ist** file, a MakeIndex style for the changes' history, into some **texmf/makeindex** (sub)directory.

Then you should refresh your T_FX distribution's files' database most probably.

If you had not installed the **mwcls** classes (available on CTAN and present in TEX Live e.g.), the result of your compilation might differ a bit from the .pdf provided in this .zip archive in formatting: If you had not installed mwcls, the standard article.cls class would be used.

The code

Preliminaries

```
466 \RequirePackage{gmcommand} [2011/10/12]
```

For \firstofone, \afterfi, \gmobeyspaces, \@ifnextcat, \foone and \noexpand's and \expandafter's shorthands \@nx and \@xa resp. and \DeclareCommand.

Someone may want to use another char for comment, but we assume here 'orthodoxy'. Other assumptions in gmdoc are made. The 'knowledge' what char is the comment char is used to put proper 'hyphen' when a verbatim line is broken.

\verbhyphen 480 \let\verbhyphen\xiipercent

Provide a declaration for easy changing it. Its argument should be of $\langle char \rangle$ form (a $\langle char \rangle_{12}$ is also allowed).

\VerbHyphen

```
486 \def\VerbHyphen#1{%
     {\escapechar\m@ne
       \@xa\gdef\@xa\verbhyphen\@xa{\string#1}}}
488
```

As you see, it's always global.

The breakables

Let's define a \discretionary left brace such that if it breaks, it turns {% at the end of line. We'll use it in almost Knuthian \ttverbatim—it's part of this 'almost'.

```
\breaklbrace
```

```
496 \def\breaklbrace{%
                  \discretionary{\type@lbrace\verbhyphen}{}{\type@lbrace}%
             497
                  \yeshy}
             498
             500 \foone{\catcode`\[=1 \catcode`\{=\active \catcode`\]=2 }%
             501 [%
\dobreaklbrace
                   \def\dobreaklbrace[\catcode`\{=\active
             502
                   \def{%
             503
 \breaklbrace
                      [\breaklbrace\qm@lbracehook]]%
             504
             505
```

Now we only initialise the hook. Real use of it will be made in **gmdoc**.

```
509 \relaxen\gm@lbracehook
```

525 }% of \breakbslash.

The \bslash macro defined below I use also in more 'normal' TrXing, e.g., to \typeout some \outer macro's name.

```
514 \foone{\catcode`\!=0 \@makeother\\}%
            515 {%
   \bslash
                 !def!bslash{\}%
            516
                 }% of \foone.
            520 \def\breakbslash{%
\breakbslash
                 \discretionary{\verbhyphen}%
                 {\type@bslash} {\type@bslash}\yeshy% it seems that we allow hyphenation after
            522
                       backslash but hyphenation will be allowed iff \hyphenchar\font is nonnega-
                       tive.
```

Sometimes line breaking at a backslash may be unwelcome. The basic case, when the first CS in a verbatim breaks at the line end leaving there %, is covered by line 1006. For the others let's give the user a counter-crank:

```
531 \pdef\nobreakbslash{\def\breakbslash{\type@bslash\yeshy}}% to use due to
    \nobreakbslash
      \breakbslash
                           the common scoping rules. But for the special case of a backslash opening
                           a verbatim scope, we deal specially in the line 1006.
                     Analogously, let's provide a possibility of 'nobreaking' the left brace:
    \nobreaklbrace
                  538 \pdef\nobreaklbrace{\def\breaklbrace{\type@lbrace\yeshy}}
      \breaklbrace
                  541 \foone{\catcode`\!=0 \catcode`\\=\active}%
    \dobreakbslash
                        !def!dobreakbslash{!catcode`!\=!active !def\{!breakbslash}}%
                  543
      \breakbslash
                  544
                     The macros defined below, \visiblebreakspaces and \xiiclub we'll use in the al-
                  most Knuthian macro making verbatim. This 'almost' makes a difference.
 \breakablevisspace
                  551 \def\breakablevisspace{\discretionary{\visiblespace}{}{\visiblespace}}
                     The \visiblespace macro is \let in gmutils to \xiispace or to \xxt@visiblespace
                  of xltxtra if available.
                  555 \foone\obeyspaces% it's just re\catcode'ing.
\dobreakvisiblespace
                  557 \newcommand*\dobreakvisiblespace{\def {%
 \breakablevisspace
                           \breakablevisspace}\obeyspaces}% \defing it caused a stack overflow
                           disaster with gmdoc.
                  559 \newcommand*\dobreakblankspace{\let =\space\obeyspaces}%
 \dobreakblankspace
                  560
                  563 \foone{\@makeother\|}{%
                       \def\xiiclub{|}}
         \xiiclub
                  Almost-Knuthian \ttverbatim
```

\ttverbatim comes from The TeX book too, but I add into it a IATeX macro changing the \catcodes and make spaces visible and breakable and left braces too.

```
\ttverbatim
           573 \pdef\ttverbatim{%
                \let\do=\do@noligs \verbatim@nolig@list
           574
                \let\do=\@makeother \dospecials
           575
                \dobreaklbrace\dobreakbslash
           576
                \dobreakspace
           577
                \makeatletter
           578
                \ifhmode
           582
                  \setspaceskip
           583
                \fi
           584
                \verbatimfont
           585
                \xdef\gmv@storedhyphenchar{\the\hyphenchar\font}%
           586
```

Assignment of the hyphenchar is always global so let the above edefinition be also such.

```
\hyphenchar\font=\gmv@hyphenchar
\font=\gmv@hyphenchar
\font=\gmw@hyphenchar
\font=\gmw@hyphenchar
\font=\gmw@hyphenchar
\font=\gmw@hyphenchar
\font=\gmw@hyphenchar
\font=
```

(2010/08/14, v0.993:) rigid \tt in \ttverbatim changed to redefinable \verbatim \font due to absurd problems with bad fontifying of **gmdoc**

\verbatimfont 597 \def\verbatimfont{\tt}

While typesetting stuff in the QX fontencoding I noticed there were no spaces in verbatims. That was because the QX encoding doesn't have any reasonable char at position 32. So we provide a hook in the very core of the verbatim making macros to set proper fontencoding for instance.

```
604 \@emptify\ttverbatim@hook
```

VerbT1\ VerbT \ttverbatim@hook 607 \def\VerbT1{\def\ttverbatim@hook{\fontencoding{T1}\selectfont}}

We wish the visible spaces to be the default.

611 \let\dobreakspace=\dobreakvisiblespace

The core: from shortyrb

The below is copied verbatim;-) from doc.pdf and then is added my slight changes.

```
\MakeShortVerb
```

\@shortvrbdef \@shortvrbdef

\frac{\gmu@ifstrany {\\$}{\#1}\%

Depending on whether \\$\was specified as optional argument to \\MakeShortVerb. we

define the CS \gmV@mm\\\ the char\\ as either sth. special or sth. usual in the math mode:

{\gmV@MakeShortVerbAlsoInMath #2 }* extracted to a macro because we reassign

```
it while typesetting IATEX 2\varepsilon Sources. {\gmV@MakeShortVerbNotInMath #2}% \@MakeShortVerb #2%
```

 $_{640}$ }% of \MakeShortVerb.

W@MakeShortVerbAlsoInMath

642 \pdef\gmV@MakeShortVerbAlsoInMath #1{% If some dollars were specified (paid ;-)
) in #1, then we direct the shortverb char to behave in the math mode the same as in normal text.

```
Name\glet {gmV@mm\string#1}\@firstofone 647 }%
```

mV@MakeShortVerbNotInMath

649 \pdef\gmV@MakeShortVerbNotInMath #1{% If no dollar was paid ;-) in #1, we get vicious and define shortverb to act in math mode as normal (other) char.

```
652  \edef\gmV@tempA {\strip@bslash {#1}}%
654  \@XA {%
655   \Name\gdef {gmV@mm\string#1}}%
656  \@xa{\@xa % these two expandafters serve to get "other" version of (unbackslashed)
#1.
658  \iffmmode \gmV@tempA
```

Two subsequent expandafters become part of the definition and serve to gobble or execute the short-verbatim macro.

666 }% of if to be normal in math mode

We store the original catcode of a shortverb char in a CS \gmV@cc\\(\lambda the char\). Moreover, if the char is originally active (of catcode 13), then we create another CS to store its original meaning, \gmV@ac\\(\lambda the char\rangle\).

```
674 \def\@MakeShortVerb#1{%
\@MakeShortVerb
                    \@xa\ifx\csname gmV@cc\string#1\endcsname\relax
                      \@shortvrbinfo{Made }{#1}\@shortvrbdef
              676
                      \add@special{#1}%
              677
                      \AddtoPrivateOthers#1% a macro to be really defined in gmdoc.
              680
                      \xdef\csname gmV@cc\string#1\endcsname{\the\catcode`#1}%
              681
                      \begingroup
                      \catcode`\~\active \lccode`\~=`#1%
              683
                      \lowercase{%
              684
                        \Name\glet {ac\string#1}~%
              685
                        \@xa\gdef\@xa~\@xa{%
              686
                          \csname \strip@bslash{\gmV@mm}\string#1\endcsname
              687
                          {\@shortvrbdef~}%
              688
                        }% of active #1 def
                      }% of lowercase
              690
                      \endgroup
              691
                      \global\catcode`#1\active
                    \else
              693
                      \@shortvrbinfo\@empty{#1 already}{\@empty\verb(*)}%
              694
                    \fi
              696 }% of \@MakeShortVerb.
\DeleteShortVerb
              699 \def\DeleteShortVerb#1{%
                    \@xa\ifx\csname gmV@cc\string#1\endcsname\relax
                      \@shortvrbinfo\@empty{#1 not}{\@empty\verb(*)}%
              701
                   \else
              702
                      \@shortvrbinfo{Deleted }{#1 as}{\@empty\verb(*)}%
              703
                      \rem@special{#1}%
              704
                      \global\catcode`#1\csname gmV@cc\string#1\endcsname
              705
                      \global \@xa\let \csname gmV@cc\string#1\endcsname \relax
              706
                      \ifnum\catcode`#1=\active
              707
                        \begingroup
                        \catcode`\~\active \lccode`\~`#1%
              709
                        \lowercase{%
              710
                          \global\@xa\let\@xa~%
              711
                          \csname gmV@ac\string#1\endcsname}%
              712
                        \endgroup
                      \fi
              714
                   \fi
              715
              716 }
                 My little addition
              720 \@ifpackageloaded{gmdoc}{%
                    \def\qmv@packname{gmdoc}}{%
  \qmv@packname
              721
  \gmv@packname
                    \def\gmv@packname{gmverb}}
              722
 \@shortvrbinfo
              725 \def\@shortvrbinfo#1#2#3{%
                    \PackageInfo{\gmv@packname}{%
              726
```

For the commentary on the below macro see the **doc** package's documentation. Here let's only say it's just amazing: so tricky and wicked use of \do. The internal macro \rem@special defines \do to expand to nothing if the \do's argument is the one to be removed and to unexpandable CSes \do and \langle \do's argument \rightarrow otherwise. With \do defined this way the entire list is just globally expanded itself. Analogous hack is done to the \@sanitize list.

```
\rem@special
```

```
747 \def\rem@special#1{%
     \def\do##1{%
748
       \liminf #1=`##1 \le \ens{do}@nx##1\fi
749
750
     \xdef\dospecials{\dospecials}%
751
     \begingroup
752
     \def\@makeother##1{%
753
       \ifnum\#1=\##1 \else \@nx\@makeother\@nx##1\fi}%
754
     \xdef\@sanitize{\@sanitize}%
755
     \endgroup}
756
```

And now the definition of verbatim itself. As you'll see (I hope), the internal macros of it look for the name of the current environment (i.e., \@currenvir's meaning) to set their expectation of the environment's \end properly. This is done to allow the user to define his/her own environments with \verbatim inside them. I.e., as with the verbatim package, you may write \verbatim in the begin definition of your environment and then necessarily \endverbatim in its end definition. Of course (or maybe surprisingly), the commands written in the begin definition after \verbatim will also be executed at \begin{\left\{environment\}\}.

```
verbatim
        769 \def\verbatim{%
\verbatim
              \edef\gmv@hyphenpe{\the\hyphenpenalty}%
         770
              \edef\gmv@exhyphenpe{\the\exhyphenpenalty}%
         771
              \@beginparpenalty \predisplaypenalty \@verbatim
         772
              \frenchspacing \gmobeyspaces \@xverbatim
         773
              \hyphenpenalty=\gmv@hyphenpe\relax
         774
              \exhyphenpenalty=\gmv@exhyphenpe
         775
              \hyphenchar\font=\m@ne
```

The line below serves as the delimiter for \verbatim@PitchContents, to discard the stuff before it (see l. 850).

```
stuff before it (see 1. 850).

782 \@gobble\verbatim
783 }% in the IATEX version there's \@vobeyspaces instead of \gmobeyspaces.

788 \@namedef{verbatim*}{\@beginparpenalty \predisplaypenalty \@verbatim
789 \@sxverbatim % it's the same as \@xverbatim and defines the verbatim end
(a macro delimited with \end{\curr.envir.\)}).

791 }

\endverbatim 793 \def\endverbatim{\@@par}
```

```
\hyphenchar\font=\qmv@storedhyphenchar % hyphenchar assignments are
                         응용
                         응응
                              % always global. And for an entire paragraph works the one last in it so we hide
                     it.
                           \ifdim\lastskip >\z@
                      797
                             \@tempskipa\lastskip \vskip -\lastskip
                      798
                             \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
                      799
                             \vskip\@tempskipa
                      800
                           \fi
                      801
                           \addvspace\@topsepadd
                      802
                           \@endparenv
                      803
                      804 }
                         *
                      807 \n@melet{endverbatim*}{endverbatim}
                      810 \begingroup \catcode `!=0 %
                      s11 \catcode `[= 1 \catcode`]=2 %
                      812 \catcode`\{=\active
                      813 \@makeother\}%
                      814 \catcode`\\=\active%
                     815 !gdef!@xverbatim[%
          \@xverbatim
                           [!endlinechar!m@ne !everyeof[!@nx]%
                      816
                             !edef!verbatim@currenvir[%
                      817
                                !@xa!scantokens!@xa[!@currenvir]%
                      818
                             ]% of \verbatim@currenvir. This macro is defined as the meaning of \@cur
                      819
                                   renvir rescanned. It's done specially for the active star in my verbatims.
                                   % \@currenvir is fully expanded but my active star is \protected.
                             !@xal% and here a little trick with groups:
                      823
                             !@xa!def!@xa!verbatim@currenvir
                      824
                           !@xa[!verbatim@currenvir]%
                      825
                           !edef!verbatim@edef[%
                      826
                           !def!@nx!verbatim@end%
                      827
                           ####1!noexpand\end!@nx{%
                      828
                             !@xa!unexpanded!@xa[!verbatim@currenvir]%
                      829
                           } [ %
                      830
                             !@nx!verbatim@PitchContents ####1%
                             !@nx!verbatim@PitchContents@Delim% added 2010/8/16
                      832
                             ####1!@nx!end[!@currenvir]]]%
                      833
                           !verbatim@edef
                      834
                           !verbatim@end1%
                      836 !endgroup
          \@sxverbatim
                      840 \let\@sxverbatim=\@xverbatim
rbatim@PitchContents@Left
                      842 \def\verbatim@PitchContents@Left{%
 \verbatim@PitchContents
                           \long\def\verbatim@PitchContents
                     843
                           ##1\@gobble\verbatim ##2\verbatim@PitchContents@Delim
                      845
                         By default we make \verbatim@PitchContents a gobbler.
                      848 \verbatim@PitchContents@Left {}
        \VerbatimPitch
                     850 \pdef\VerbatimPitch{%
```

But in this declaration scope we make **\@xverbatim** pitch the contents of **verbatims** in a macro. We use that in **gmdoc** not to repeat examples' code.

```
\verbatim@PitchContents@Left {%
855
       \qdef\VerbatimContents{##2}%
856
     } 용
857
859 }% of \VerbatimThrow.
```

F. Mittelbach says the below is copied almost verbatim from IATEX source, modulo \check@percent.

\@verbatim 864 \def\@verbatim{%

Originally here was just \trivlist \item[], but it worked badly in my document(s), so let's take just highlights of if.

\parsep\parskip 870

```
From \@trivlist:
```

```
\if@noskipsec \leavevmode \fi
872
     \@topsepadd \topsep
873
     \ifvmode
874
       \advance\@topsepadd \partopsep
875
     \else
876
       \unskip \par
877
878
     \@topsep \@topsepadd
879
     \advance\@topsep \parskip
880
     \@outerparskip \parskip
881
   (End of \trivlistlist and \@trivlist highlights.)
     \@@par\addvspace\@topsep
     \if@minipage\else\vskip\parskip\fi%
884
     \advance\@totalleftmargin\verbatimleftskip
885
     \parskip\verbatimparskip % added 2010/6/2
886
     \raggedright
887
     \leftskip\@totalleftmargin\ so many assignments to preserve the list think-
888
           ing for possible future changes. However, we may be sure no internal list
           shall use \@totalleftmargin as far as no inner environments are possible in
           verbatim * .
     \@@par% most probably redundant.
892
     \@tempswafalse
893
     \def\par{\shar{\shar} but I don't want the terribly ugly empty lines when a blank line is met.
894
           Let's make them gmdoc-like i.e., let a vertical space be added as in between
           stanzas of poetry. Originally \if@tempswa\hbox{}\fi, in my version will be
```

\everypar{% \@tempswatrue\hangindent\verbatimhangindent\hangafter\@ne} since several chars are breakable, there's a possibility of breaking some lines. We wish them to be hanging indented.

\ifvmode\if@tempswa\addvspace\stanzaskip\@tempswafalse\fi\fi

\penalty\interlinepenalty \check@percent}%

```
\obeylines
905
     \ttverbatim
906
     \verbatim@specials
907
```

899 900

901

902

```
908 }
      \stanzaskip
                 910 \@ifundefined{stanzaskip}{\newlength\stanzaskip}{}
                 911 \stanzaskip=\medskipamount
                 913 \newskip\verbatimleftskip
 \verbatimleftskip
                 915 \verbatimleftskip\leftmargini
\verbatimhangindent
                 917 \newskip\verbatimhangindent
                 919 \verbatimhangindent=3em
  \verbatimparskip
                 921 \newskip\verbatimparskip
                 922 \verbatimparskip\z@skip
                 924 \providecommand*\check@percent{}
    \check@percent
                     In the gmdoc package shall it be defined to check if the next line begins with a comment
                 char.
                     Similarly, the next macro shall in gmdoc be defined to update a list useful to that
                 package. For now let it just gobble its argument.
\AddtoPrivateOthers
                 931 \providecommand*\AddtoPrivateOthers[1]{}
                     Both of the above are \provided to allow the user to load gmverb after gmdoc (which
                 would be redundant since gmdoc loads this package on its own, but anyway should be
                 harmless).
                     Let's define the 'short' verbatim command.
          \verb*
                 940 \def\verb{%
           \verb
                       \relax\ifmmode\hbox\else\leavevmode\null\fi
                 941
                       \bgroup
                 942
                       \ttverbatim
                 943
                       \verbatim@specials
                 944
                 945
                       \qm@verb@eol
                       \gmu@ifstar
                 946
                       {\verb@lasthook\@sverb@chbsl}%
                 947
                       {\qmobeyspaces\frenchspacing\verb@lasthook\@sverb@chbsl}}% in the
                            LATEX version there's \@vobeyspaces instead of \gmobeyspaces.
                 952 \emptify\verb@lasthook
    \@sverb@chbsl
                 954 \def\@sverb@chbsl#1{\@sverb#1\check@bslash}
 \@def@breakbslash
                 957 \def\@def@breakbslash{\breakbslash}% because \ is \defined as \breakbslash
                          not \ \ 
                     For the special case of a backslash opening a (short) verbatim, in which it shouldn't
                 be breakable, we define the checking macro.
   \DefineTypeChar
                 963 \DeclareCommand\DefineTypeChar{mmo} {%
                     #1 m the char as a CS.
                   #2 m short name of the char.
                 % [#3] o the cs of the char in 'other' catcode.
                       \@namedef{gmu@#2wd@name}{#2 wd of
                 970
                         \@xa\meaning\the\font\space at \detoken@xa\f@size pt}
                 971
                       \@namedef{gmu@measure#2}{%
                 973
                         \unless\ifcsname\csname gmu@#2wd@name\endcsname\endcsname
                 974
```

```
\gmu@measurewd{#1}% \edefs \gmu@tempa as the width of the char and \gmu@tempb
             975
                           as the width of the char among 20 copies of itself.
                     \@xa\gn@melet\csname gmu@#2wd@name\endcsname{gmu@tempb}% here we let
             978
                           the CS with the name contained in \gmu@\(\char-name\)\wd@name to the ex-
                           panded value of width of the char measured among copies of it.
                     \fi
             982
                   \}% of \gmu@measure\langle char-name \rangle.
             983
                   \@nameedef{type@#2}{%
             985
                     \@nx\leavevmode
             986
                     \@xanxcs{gmu@measure#2}%
             987
                     \hbox to \@nx\csname
             988
                     \@xanxcs{gmu@#2wd@name}\@nx\endcsname
             989
                     {\gmuIfValueTF{#3}{\@nx#3}{\@xanxcs{#2}}%
             990
                       \@nx\hss}%
             991
                   \} of \type@\langle char-name \rangle,
             992
             993 }% of \DefineTypeChar.
             995 \DefineTypeChar\\{bslash}% this defines \type@bslash and its aides \gmu@measurebslash
                       and \gmu@bslashwd@name.
             998 \DefineTypeChar\{{lbrace}[\xiilbrace]% this defines \type@lbrace and its aux-
                      ilia analogous to the above.
            1001 \def\check@bslash{%
\check@bslash
                   \@ifnextchar\@def@breakbslash
            1002
                   {\type@bslash\yeshy\@qobble}% note we allow hyphenation but actually this will
            1003
                         have effect if \hyphenchar\font allows hyphenation (when it's not > 0).
                   {}}
            1006
            1010 \let\verb@balance@group\@empty
\verb@egroup
            1013 \def\verb@egroup{\global\let\verb@balance@group\@empty
                      \hyphenchar\font=\gmv@storedhyphenchar \% \hyphenchar behaves like \hy|
             phenpenalty etc.: the last one in a paragraph is in charge for entire.
                   \egroup
            1017
            1018 }
\qm@verb@eol
            1022 \let\qm@verb@eol\verb@eol@error
                The latter is a IAT<sub>P</sub>X 2_{\mathcal{E}} kernel macro that \active ates line end and defines it to close
             the verb group and to issue an error message. We use a separate CS'cause we are not quite
```

The latter is a LATEX 2_{ε} kernel macro that **\active**ates line end and defines it to close the verb group and to issue an error message. We use a separate CS'cause we are not quite positive to the forbidden line ends idea. (Although the allowed line ends with a forgotten closing shortverb char caused funny disasters at my work a few times.) Another reason is that **gmdoc** wishes to redefine it for its own queer purpose.

However, let's leave my former 'permissive' definition under the \verb@eol name.

```
1034 \begingroup
1035 \obeylines\obeyspaces%
1036 \gdef\verb@eolOK{\obeylines%
\check@percent 1037 \def^^M{ \check@percent}%
1038 }%
1039 \endgroup
```

The \check@percent macro here is \provided to be \@empty but in gmdoc employed shall it be.

Let us leave (give?) a user freedom of choice:

```
\verbeolOK 1044 \def\verbeolOK{\let\qm@verb@eol\verb@eolOK}
                     And back to the main matter,
                 1047 \def\@sverb#1{%
                       \catcode`#1\active \lccode`\~=`#1%
                 1048
                       \qdef\verb@balance@group{\verb@egroup
                 1049
                         \@latex@error{Illegal use of \bslash verb command}\@ehc}%
                 1050
                       \aftergroup\verb@balance@group
                 1051
                       \lowercase{\let~\verb@egroup}\, here we make the delimiter to be the macro
                 1052
                            closing the verbatim group.
                 1054
\verbatim@nolig@list \do\\\do\\\do\\\do\\\do\\\do\\\do\\-\}
       \do@noligs
                 1058 \def\do@noligs#1{%
                       \catcode`#1\active
                       \begingroup
                 1060
                       \lccode`\~=`#1\relax
                 1061
                       \lowercase{\endgroup\def~{\leavevmode\kern\z@\char`#1}}}
                 1062
                     And finally, what I thought to be so smart and clever, now is just one of many possible
                  uses of a general almost Rainer Schöpf's macro:
                 1067 \def\dekclubs{\qmu@ifstar{\MakeShortVerb*\|}{\MakeShortVerb\|}}
      \olddekclubs
                 1068 \def\olddekclubs{\OldMakeShortVerb\|}
                     But even if a shortverb is unconditional, the spaces in the math mode are not printed.
                  So.
         \edverbs
                 1076 \newcommand*\edverbs{%
                       \let\gmv@dismath\[%
                       \let\gmv@edismath\]%
                 1078
                       \def\[{%
                 1079
                         \@ifnextac\gmv@disverb\gmv@dismath}%
                 1080
                       \relaxen\edverbs}%
                 1081
      \amv@disverb
                 1083 \def\qmv@disverb{%
                       \gmv@dismath%
                       \hbox\bgroup\def\] {\egroup\gmv@edismath}%
                 1085
                 1086
```

doc- and shortvrb-compatibility

One of minor errors while TeXing doc.dtx was caused by my understanding of a 'shortverb' char: at my settings, in the math mode an active 'shortverb' char expands to itself's 'other' version thanks to \string. doc/shortvrb's concept is different, there a 'shortverb' char should work as usual in the math mode. So let it may be as they wish:

\OldMakeShortVerb 1099 \pdef\OldMakeShortVerb {\MakeShortVerb \$\$}%

Grey visible spaces

In August 2008 Will Robertson suggested grey spaces for **gmdoc**. I added a respective option to that package but I like the grey spaces so much that I want provide them for any verbatim environments, so I bring the definition here. The declaration, if put in the preamble, postpones redefinition of \visiblespace till \begin{document} to recognise possible redefinition of it when xltxtra is loaded.

```
1111 \let\gmd@preambleABD\AtBeginDocument
                    1112 \AtBeginDocument {\let\gmd@preambleABD\firstofone}
                    1114 \RequirePackage{xcolor}% for \providecolor
       \VisSpacesGrey
                    1116 \def\VisSpacesGrey{%
                          \providecolor{visspacesgrey}{gray}{0.5}%
                    1118
                          \qmd@preambleABD{%
                            \edef\visiblespace{%
                    1120
                               \hbox{\@nx\textcolor{visspacesgrey}%
                    1121
                                 {\@xa\unexpanded\@xa{\visiblespace}}}}%
                          }}
                    1123
                     Verbatim specials—CSes in verbatims
    \verbatimspecials 1127 \pdef\verbatimspecials{\%} This declaration only defines a bearer of the 'verbatim
                              specials'.
                                 #1 m char for verbatim escape char (for catcode 0), has to be unbraced,
                                 #2 m char for verbatim group begin (for catcode 1), has to be unbraced,
                                #3 m char for verbatim group end (for catcode 2), has to be unbraced,
                              % [#4] o char for verbatim math shift (for catcode 3),
                              % [#5] o char for a shorthand for \metachar.
                              % {#6} b (optional braced) additional stuff (commands) to be executed at the
                                 beginning of the verbatims.
                          \@bsphack
                    1138
                          \begingroup
                    1139
                          \let\do\@makeother
                    1140
                          \dospecials
                    1141
                          \catcode`\ =10
                    1142
                          \verbatim@specials@iii}
                    1143
\verbatim@specials@iii 1145 \pdef\verbatim@specials@iii#1#2#3{% as you see, we take only first three argu-
                                ments in a despecialized group. It's to avoid \futurelet of the optionals'
                                parser to touch (and thus spoil) subsequent token. Yes, we could handle the
                                case of a space or single line end but handling the case of a backslash would
                                be somewhat difficult.
                    1151
                          \endgroup
                          \def\verbatim@specials@list{#1#2#3}%
\verbatim@specials@list
                    1152
                          \@ifnextchar[%
                    1153
                          {\begingroup\let\do\@makeother\dospecials
                    1154
                            \catcode`\ =9
                    1155
                            \verbatim@specials@iv}%
                    1156
                          {\addtomacro\verbatim@specials@list{\NoValue\NoValue}%
                    1157
                            \verbatim@specials@vi}%
                    1158
                    1159 }% of \verbatim@specials@iii.
                    1161 \pdef\verbatim@specials@iv[#1]{%
 \verbatim@specials@iv
                          \endgroup
                    1162
                          \addtomacro\verbatim@specials@list{#1}%
                    1163
                          \@ifnextchar[%
                    1164
                          {\begingroup\let\do\@makeother\dospecials
                    1165
                    1166
                            \catcode`\ =9
                            \verbatim@specials@v}%
                    1167
                          {\addtomacro\verbatim@specials@list{\NoValue}%
                    1168
```

\verbatim@specials@vi}%

1169

```
1170 }% of \verbatim@specials@iv.
\verbatim@specials@v
                 1172 \pdef\verbatim@specials@v[#1]{%
                       \endgroup
                 1173
                       \addtomacro\verbatim@specials@list{#1}%
                 1174
                       \verbatim@specials@vi
                 1176 }% of \verbatim@specials@v.
\verbatim@specials@vi
                 1178 \DeclareCommand\verbatim@specials@vi\long{b}
                 1179 {\addtomacro\verbatim@specials@list{{#1}}}
                 1180 \@esphack}
                 \verbatim@specials
                          % \verbatim@specials@list as the escape char, group begin and group end.
                       \ifdefined\verbatim@specials@list
                       \@xa\verbatim@specials@\verbatim@specials@list
                 1186
                 1187
                       \fi
                 1188 }% of \verbatim@specials.
                 1190 \long\def\verbatim@specials@#1#2#3#4#5#6{%
 \verbatim@specials@
                       \catcode\#1=0
                 1191
                       \protected\@namedef{#1}{#1}%
                       \catcode\#2=1
                 1193
                       \protected\@namedef{#2}{#2}%
                 1194
                       \catcode\#3=2
                 1195
                       \protected\@namedef{#3}{#3}%
                 1196
                       \edef\gmu@tempa{\the\endlinechar}%
                 1197
                       \endlinechar\m@ne % we have to suppress adding of a line end by \scantokens
                 1198
                            since it would turn into an active char ^^M and raise an error (which actually
                            did happen).
                       \scantokens{%
                 1201
                         #1let#1bgroup=#2%
                 1202
                         #1let#1egroup=#3%
                 1203
                         #1catcode#1backquote#1h=6#1relax%
                 1204
                         #1pdef#1<h1>#2#1meta#2h1#3#3%
                         #1catcode#1backquote#1h=11#1relax%
                 1206
                       } %
                 1207
                       \endlinechar\gmu@tempa\relax
                 1208
                       \gmuIfValueT{#4}{%
                 1209
                         \catcode\#4=3
                 1210
                         \protected\@namedef{#4}{#4}}%
                 1211
                       \qmuIfValueT{#5}{%
                 1212
                         \begingroup
                 1213
                         \lccode`\~=`#5\lowercase{\endgroup\let~\metachar}%
                 1214
                         \protected\@namedef{#5}{#5}%
                 1215
                         \catcode\#5=\active
                 1216
                       1% of if value #5.
                 1217
                       \gmuPutIfValue{#6}%
                 1218
                 1219
                 1221 \pdef\noverbatimspecials{\let\verbatim@specials@list\@undefined}
 \noverbatimspecials
 \GMverbatimspecials
                 1223 \def\GMverbatimspecials{%
                       \qmu@ifCSdefined {\XeTeXversion}%
                 1224
                       {\verbatimspecials
                 1226
                         ∕% escape
                 1227
```

```
«»% \bgroup and \egroup
1228
         [¿]% math shift
1229
         [>]% meta-char
1230
         {\def\|{\metachar{$\vert$}}%
1231
           \makestarlow
1233
           \relaxen\'\$ to provide a CS separator (space is not 10 in verbatims).
1234
           \let\>\string
1236
        }% of #6.
1237
      } %
1238
      {}%
1240 }% of \GMverbatimspecials.
```

Partial \verb in arguments

1245 \let\qmu@tempa\all@stars

Now command for partial verbatims in arguments of commands:

```
1246 \@xa\addtomacro\@xa\gmu@tempa\@xa{\all@unders}
              1248 \foone{\catcode`#=\active}
\qmv@hashhalfing
              1249 {\def\qmv@hashhalfing{%
      \xiihash
                      \def#{\xiihash\@ifnextchar#\gobble{}}%
              1251
                      \catcode\#\active}%
              1252
              1253
                 \foone{\@makeother\^^R}{%
              1255
                    \@xa\DeclareCommand\@xa\scanverb\@xa{%
              1256
                      \@xa Q\@xa{\gmu@tempa}>Pm}{%
              1258
                               #1 Q{*_}
                               #2 m the stuff to be rescanned and typeset verbatim. Note that % will
                               be executed during first scan so at best will disappear.
```

Spaces are ignored (because of detokenizers that add a space after a CS) but if you declare some \verbatimspecials, then you can use \(\sim \) where \(\sim \) denotes the escape char in verbatim.

```
\begingroup
1267
        \gmu@septify
1268
        \endlinechar=\m@ne
1269
        \@xa\IfIntersect\@xa{\all@stars}{#1}%
        {\def\ {\breakablevisspace}}%
1271
        {\let\ =\space}%
1272
        \@xa\IfIntersect\@xa{\all@unders}{#1}%
1273
        {}{% We make spaces ignored only if there was no underscore in #1 and if #2
1274
              doesn't contain \ .
          \gmu@ifxany\ {#2}%
1276
          {}{\addtomacro\verb@lasthook{\catcode`\ =9 }}}%
1277
        \addtomacro\verb@lasthook{\gmv@hashhalfing }%
1278
        \@makeother\^^R%
1279
        \edef\qmu@tempa{%
1280
          \@nx\scantokens{%
1281
             \bslash verb%
1282
             ^^R\detokenize{#2}^^R\ we delimit the \verb's argument with 'other' ^^R
                  assuming this char to be used very seldom if at all.
          }% of \scantokens,
1286
        }\gmu@tempa
1287
        \endgroup
1288
```

```
}% of \scanverb.
                     1290 }% of \foone.
                     1292 \def\verbDiscretionaryHyphen#1#2{%
\verbDiscretionaryHyphen
       \qmv@hyphenchar
                           \def\gmv@hyphenchar{\numexpr#1\relax}%
                     1295
          \qmv@hyphen
                           \def\gmv@hyphen{#2}%
                     1296
                     1297
                     1299 \verbDiscretionaryHyphen{"A6}{|}
                     1301 \ifqmuXeTeX
                         (2010/06/28, v0.94:) due to Will Robertson's remark that recatcoding long (no-ASCII)
                      dashes works only under XATEX and LuaTEX, I embrace them in a XATEX conditional
           \gmu@tempa
                     1306
                        \def\gmu@tempa{%
       \verbLongDashes
                           \DeclareCommand\verbLongDashes{
                     1307
                             iT{-} to memorise which dash we set
                     1308
                             B{1.41} % expansion of en-dash
                             >iT{-} % as above
                     1310
                             B{2} % expansion of em-dash
                     1311
                           } 왕
                     1312
                     1313
           \gmu@tempb
                     1315 \def\gmu@tempb{\catcode`-\active \catcode`-\active}
                     1317 \foone{\catcode`-\active\catcode`-\active}
                     1318 {%
                           \edef\gmu@tempa{\@xau\gmu@tempa
                     1319
                     1320
                                \@nx\addtomacro\@nx\ttverbatim@hook{%
                     1321
                                  \@xau\gmu@tempb
                     1322
                                  \def\@nx-{\@nx\scalebox{##1}[1]{\string-}}%
                     1323
                                  \def\@nx-{\@nx\scalebox{##2}[1]{\string-}}%
                     1324
                                } 용
                     1325
                             } 왕
                     1326
                           } 왕
                     1327
                     1328 } %
                     1329 \gmu@tempa
                     1331 \fi % of if X¬T¬EX.
```

Note that we have two "hyphens": one for places where a line may be broken with a comment char and another, provided as **\hyphenchar**, for discretionary hyphens at points where correct T_FX code cannot be broken, such as CS names.

1369 \endinput

End of file 'gmverb.sty'.

Change History

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