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The gmverb Package*

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This is (a documentation of) file `gmverb.sty`, intended to be used with $\LaTeX 2_{\epsilon}$ as a package for a slight redefinition of the `\verb` macro and `verbatim` environment and for short verb marking such as `|\mymacro|`.

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LPPL status: "author-maintained".

Many thanks to my \TeX Guru Marcin Woliński for his \TeX nical support.

```
1 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesPackage{gmverb}
3 [2006/12/01_v0.78_After_shortvrb(FM)_but_my_way(GM)]
```

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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 his 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|`.

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 `{%`

* This file has version number v0.78 dated 2006/12/01.

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

`\fixbslash` (If you don't like linebreaking at backslash, there's the `\fixbslash` declaration (observing the common scoping rules, hence OCSR) and an analogous declaration for the left brace: `\fixlbrace`.)

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

`\verbeolOK` 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 $|\backslash \textit{mymacro}|$ to achieve $\backslash \textit{mymacro}$ instead of typing $\backslash \textit{verb} + \backslash \textit{mymacro} +$. Because the char used in this example is my favourite and used just this way by DEK in the The T_EXbook's format, `gmverb` provides a macro `\dekclubs` as a shorthand for `\MakeShortVerb*|`.

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

`\DeleteShortVerb` One more difference between `gmverb` and `shortverb` is that the chars `\active`ated by `\MakeShortVerb` in the math mode behave as if they were 'other', so you may type e.g., $\$| \$$ to achieve $|$ and $+ \backslash \textit{active}$ ated this way is in the math mode typeset properly etc.

`\dekclubs` There's one more declaration provided by `gmverb`: `\dekclubs`, which is a shorthand for `\MakeShortVerb*|`.

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

Installation

Just put the `gmverb.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 T_EX distribution's files' database most probably.

Contents of the gmverb.zip Archive

The distribution of the `gmverb` package consists of the following four files.

`gmverb.sty`
`README`
`gmverbDoc.tex`
`gmverbDoc.pdf`

Compiling the Documentation

The last of the above files (the `.pdf`, i.e., *this file*) is a documentation compiled from the `.sty` file by running L^AT_EX on the `gmverbDoc.tex` file twice, then `MakeIndex` on the `gmverb.idx` file, and then L^AT_EX on `gmverbDoc.tex` once more.

`MakeIndex` shell command:

```
makeindex -r gmverbDoc
```

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 `gm-docc.cls`), `gmverb.sty`, `gmutils.sty` and also some standard packages: `hyperref.sty`, `color.sty`, `geometry.sty`, `multicol.sty`, `lmodern.sty` and `fontenc.sty` that should be installed on your computer by default.

If you had not installed the `mwcls` classes (available on CTAN and present in T_EX 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

```
\firstofone 4 \long\def\firstofone#1{#1}
\afterfi    5 \long\def\afterfi#1\fi{\fi#1}
```

The standard `\obeyspaces` command is only re`\catcode`ing of the space to be `13`. Since we'll know a bit of where these macros are used, we know we have also to (re)define such an active space to be some space.

```
\gmobeyspaces 6 \begin{catcode}'\_ \active
7 \gdef\gmobeyspaces{\catcode'\_ \active\let\_ \_}
8 \end{catcode}
```

(The above three preliminary definitions are present also in `gmutils`.)

```
9 \bgroup
10 \@makeother\%
11 \firstofone{\egroup
\twelvepercent 12 \def\twelvepercent{}}}
```

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 13 \let\verbhyphen\twelvepercent
```

Provide a declaration for easy changing it. Its argument should be of `\langle char \rangle` form (of course, a `\langle char \rangle12` is also allowed).

```
\VerbHyphen 14 \def\VerbHyphen#1{%
15   {\escapechar\m@ne
16    \expandafter\gdef\expandafter\verbhyphen\expandafter{\string#1}}}
```

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'.

```
17 \bgroup\_ \catcode'\<=1\_ \@makeother\{\_ \catcode'\>=2\_ %
18 \firstofone<\egroup
\breaklbrace 19 \def\breaklbrace<\discretionary<{\verbhyphen}><><{>>%
```

```

\twelvebrace 20   \def\twelvebrace<{>%
                21   >% of \firstofone
                22   \bgroup\catcode'\<=1\catcode'\{=\active\catcode'\>=2
                23   \firstofone\egroup
                24   \def\dobreaklbrace<\catcode'\{=\active\def{<\breaklbrace>>%
                25   >% end of \firstofone.

```

The `\bslash` macro defined below I use also in more ‘normal’ T_EXing, e.g., to `\typeout` some `\outer` macro’s name.

```

                26   {\catcode'\!=0\@makeother\}%
\bslash       27   !gdef!bslash{\}%
\breakbslash  28   !gdef!breakbslash{!discretionary{!verbhyphen}{\}{\}}%
                29   }

```

Sometimes linebreaking at a backslash may be unwelcome. The basic case, when the first CS in a verbatim breaks at the lineend leaving there %, is covered by line 183. For the others let’s give the user a countercrank:

```

\fixbslash    30   \newcommand*\fixbslash{\let\breakbslash=\bslash}% to use due to the common
                scoping rules. But for the special case of a backslash opening a verbatim scope,
                we deal specially in the line 183.

```

Analogously, let’s provide a possibility of ‘fixing’ the left brace:

```

\fixlbrace    31   \newcommand*\fixlbrace{\let\breaklbrace=\twelvebrace}
                32   {\catcode'\!=0\%
                33   !catcode'\!=\active
                34   !gdef!dobreakbslash{!catcode'\!=\active!def{\!breakbslash}}%
                35   }

```

The macros defined below, `\visiblebreakspaces` and `\twelveclub` we’ll use in the almost Knuthian macro making verbatim. This ‘almost’ makes a difference.

```

                36   \bgroup\catcode'\_ =12\%
                37   \firstofone\egroup%
\twelvespace  38   \def\twelvespace{_\}%
                39   \def\breakabletwelvespace{\discretionary{_{}}{_{}}{}}
                40   \bgroup\obeyspaces% it’s just re\catcode’ing.
                41   \firstofone\egroup%
\activespace  42   \newcommand*\activespace{_\}%
                43   \newcommand*\dobreakvisiblepace{\let_=\breakabletwelvespace\obeyspaces}%
                %\defing it caused a stack overflow disaster with gmdoc.
                44   \newcommand*\dobreakblankspace{\let_=\space\obeyspaces}%
                45   }
                46   \bgroup\@makeother\|
\twelveclub  47   \firstofone\egroup\def\twelveclub{||}

```

Almost-Knuthian `\ttverbatim`

`\ttverbatim` comes from The T_EXbook too, but I add into it a L^AT_EX macro changing the `\catcodes` and make spaces visible and breakable and left braces too.

```

\ttverbatim  48   \newcommand*\ttverbatim{%
                49   \let\do=\do@noligs\verbatim@nolig@list

```

```

50 \let\do=\@makeother_\dospecials
51 \dobreaklbrace\dobreakbslash
52 \dobreakspace
53 \tt}

```

We wish the visible spaces to be the default.

```

54 \let\dobreakspace=\dobreakvisiblespace

```

The Core: From shortverb

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

```

\MakeShortVerb* 55 \def\MakeShortVerb{%
\MakeShortVerb 56 \@ifstar
57 {\def\@shortverbdef{\verb*}\@MakeShortVerb}%
58 {\def\@shortverbdef{\verb}\@MakeShortVerb}}

\@MakeShortVerb 59 \def\@MakeShortVerb#1{%
60 \expandafter\ifx\csname_\cc\string#1\endcsname\relax
61 \@shortverbinfo{Made_\}{#1}\@shortverbdef
62 \add@special{#1}%
63 \AddtoPrivateOthers#1% a macro to be really defined in gmdoc.
64 \expandafter
65 \xdef\csname_\cc\string#1\endcsname{\the\catcode'#1}%
66 \begingroup
67 \catcode'\~\active_\lccode'\~'#1%
68 \lowercase{%
69 \global\expandafter\let
70 \csname_\ac\string#1\endcsname~%
71 \expandafter\gdef\expandafter~\expandafter{%
72 \expandafter\ifmode\expandafter\string\expandafter~%
73 \expandafter\else\expandafter\afterfi\@shortverbdef~\fi}}% This ter-
rible number of \expandafters is to make the shortverb char just other
in the math mode (my addition).
74 \endgroup
75 \global\catcode'#1\active
76 \else
77 \@shortverbinfo\@empty{#1_\already}{\@empty\verb(*)}%
78 \fi}

\DeleteShortVerb 79 \def\DeleteShortVerb#1{%
80 \expandafter\ifx\csname_\cc\string#1\endcsname\relax
81 \@shortverbinfo\@empty{#1_\not}{\@empty\verb(*)}%
82 \else
83 \@shortverbinfo{Deleted_\}{#1_\as}{\@empty\verb(*)}%
84 \rem@special{#1}%
85 \global\catcode'#1\csname_\cc\string#1\endcsname
86 \global_\expandafter\let_\csname_\cc\string#1\endcsname_\relax
87 \ifnum\catcode'#1=\active
88 \begingroup
89 \catcode'\~\active_\lccode'\~'#1%
90 \lowercase{%
91 \global\expandafter\let\expandafter~%

```

```

92     \csname\ac\string#1\endcsname}%
93     \endgroup\fi\fi}
    My little addition
94 \@ifpackageloaded{gmdoc}{%
95     \def\gmv@packname{gmdoc}}{%
96     \def\gmv@packname{gmverb}}
\shortvrbinfo 97 \def\@shortvrbinfo#1#2#3{%
98     \PackageInfo{\gmv@packname}{%
99     ^^J\@empty#1\expandafter\@gobble\string#2\@a\short\reference
100     for\expandafter\string#3}}
\add@special 101 \def\add@special#1{%
102     \rem@special{#1}%
103     \expandafter\gdef\expandafter\dospecials\expandafter
104     {\dospecials\do#1}%
105     \expandafter\gdef\expandafter\@sanitize\expandafter
106     {\@sanitize\@makeother#1}}

```

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 CSs `\do` and `\do's argument` otherwise. With `\do` defined this way the entire list is just globally expanded itself. Analogous hack is done to the `\@sanitize` list.

```

\rem@special 107 \def\rem@special#1{%
108     \def\do##1{%
109         \ifnum'#1='##1\else\do\noexpand\do\noexpand##1\fi}%
110     \xdef\dospecials{\dospecials}%
111     \begingroup
112     \def\@makeother##1{%
113         \ifnum'#1='##1\else\do\noexpand\@makeother\noexpand##1\fi}%
114     \xdef\@sanitize{\@sanitize}%
115     \endgroup}

```

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., `\@currenenv`'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 `begdef` of your environment and then necessarily `\endverbatim` in its `enddef`. Of course (or maybe surprisingly), the commands written in the `begdef` after `\verbatim` will also be executed at `\begin{environment}`.

```

verbatim 116 \def\verbatim{\@beginparpenalty\predisplaypenalty\@verbatim
\verbatim 117 \frenchspacing\gmoobeyspaces\@xverbatim}% in the LATEX version there's %%
    \@vobeyspaces instead of \gmoobeyspaces.
verbatim* 118 \@namedef{verbatim*}{\@beginparpenalty\predisplaypenalty\@verbatim
119     \@sxverbatim}
\endverbatim 120 \def\endverbatim{\@par
121     \ifdim\lastskip>\z@
122         \@tempskipa\lastskip\vskip-\lastskip
123         \advance\@tempskipa\parskip\advance\@tempskipa-\@outerparskip

```

```

124     \vskip\@tempskipa
125     \fi
126     \addvspace\@topsepadd
127     \@endparenv}
128 \expandafter\let\csname_␣endverbatim*\endcsname_␣=\endverbatim
129 \begingroup_␣\catcode_␣'!=0_␣%
130 \catcode_␣'[_␣1_␣\catcode']=2_␣%
131 \catcode'\{=\active
132 \@makeother\}%
133 \catcode'\=\active%
\@xverbatim 134 !gdef!@xverbatim[%
135     !edef!verbatim@edef[%
136         !def!noexpand!verbatim@end%
137             #####1!noexpand\end!noexpand{!@currentvir}{%
138                 #####1!noexpand!end[!@currentvir]]}%
139     !verbatim@edef
140     !verbatim@end]%
141 !endgroup
\@sxverbatim 142 \let\@sxverbatim=\@xverbatim

```

F. Mittelbach says the below is copied almost verbatim from L^AT_EX source, modulo `\check@percent`.

```

\@verbatim 143 \def\@verbatim{%

```

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

```

144     \parsep\parskip

```

From `\@trivlist`:

```

145     \if@noskipsec_␣\leavevmode_␣\fi
146     \@topsepadd_␣\topsep
147     \ifvmode
148         \advance\@topsepadd_␣\partopsep
149     \else
150         \unskip_␣\par
151     \fi
152     \@topsep_␣\@topsepadd
153     \advance\@topsep_␣\parskip
154     \@outerparskip_␣\parskip

```

(End of `\trivlistlist` and `\@trivlist` highlights.)

```

155     @@par\addvspace\@topsep
156     \if@minipage\else\vskip\parskip\fi
157     \leftmargin\parindent% please notify me if it's a bad idea.
158     \advance\@totalleftmargin\leftmargin
159     \raggedright
160     \leftskip\@totalleftmargin% so many assignments to preserve the list think-
        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(*).
161     @@par% most probably redundant.

```

```

162 \@tempswafalse
163 \def\par{% but I don't want the terribly ugly empty lines when a blank line is met.
        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
164     \ifvmode\if@tempswa\addvspace\stanzaskip\@tempswafalse\fi\fi
165     \@@par
166     \penalty\interlinepenalty_\check@percent}%
167 \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.
168 \obeylines
169 \ttverbatim}

170 \@ifundefined{stanzaskip}{\newlength\stanzaskip}{}
171 \stanzaskip=\medskipamount

\verbatimhangindent 172 \newlength\verbatimhangindent
173 \verbatimhangindent=3em
174 \providecommand*\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.

```

175 \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* 176 \def\verb{\relax\ifmmode\hbox\else\leavevmode\null\fi
\verb  177   \bgroup
        178   \ttverbatim
        179   \gm@verb@eol
        180   \@ifstar{\@sverb@chbsl}{\gmoveyspaces\frenchspacing\@sverb@chbsl}}% in
        the LATEX version there's \@vobeyspaces instead of \gmoveyspaces.
181 \def\@sverb@chbsl#1{\@sverb#1\check@bslash}
182 \def\@def@breakbslash{\breakbslash}% because \ is \defined as \breakbslash
        not \let.

```

For the special case of a backslash opening a (short) verbatim, in which it shouldn't be breakable, we define the checking macro.

```

\check@bslash 183 \def\check@bslash{\@ifnextchar{\@def@breakbslash}{\bslash@gobble}{}
184 \let\verb@balance@group\@empty
\verb@egroup 185 \def\verb@egroup{\global\let\verb@balance@group\@empty\egroup}
\gm@verb@eol 186 \let\gm@verb@eol\verb@eol@error

```

The latter is a L^AT_EX 2_ε kernel macro that \activeates 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.

```

187 \begingroup
188 \obeylines\obeyspaces%
\verb@eolOK 189 \gdef\verb@eolOK{\obeylines%
190 \def^~M{\check@percent}%
191 }%
192 \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 193 \def\verbeolOK{\let\gm@verb@eol\verb@eolOK}

```

And back to the main matter,

```

194 \def\@sverb#1{%
195   \catcode'#1\active\lccode'\~'#1%
196   \gdef\verb@balance@group{\verb@egroup
197     \@latex@error{Illegal use of \backslash\verb\command}\@ehc}%
198   \aftergroup\verb@balance@group
199   \lowercase{\let~\verb@egroup}}

```

```

\verbatim@nolig@list 200 \def\verbatim@nolig@list{\do\<\do\>\do\,\do\'\do\~}

```

```

\do@noligs 201 \def\do@noligs#1{%
202   \catcode'#1\active
203   \begingroup
204   \lccode'\~='#1\relax
205   \lowercase{\endgroup\def~{\leavevmode\kern\z@\char'#1}}}

```

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:

```

\dekclubs 206 \def\dekclubs{\MakeShortVerb*||}

```

doc- And shortvrb-Compatibility

One of minor errors while \TeX ing doc.dtx was caused by my understanding of a 'short-verb' 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:

```

\old@MakeShortVerb 207 \def\old@MakeShortVerb#1{%
208   \expandafter\ifx\csname_cc\string#1\endcsname\relax
209   \@shortvrbinfo{Made}{#1}\@shortvrbdef
210   \add@special{#1}%
211   \AddtoPrivateOthers#1% a macro to be really defined in gmdoc.
212   \expandafter
213   \xdef\csname_cc\string#1\endcsname{\the\catcode'#1}%
214   \begingroup
215   \catcode'\~\active\lccode'\~'#1%
216   \lowercase{%
217     \global\expandafter\let

```

```

218     \csname\ac\string#1\endcsname~%
219     \expandafter\gdef\expandafter~\expandafter{%
220         \@shortvrbdef~}}%
221     \endgroup
222     \global\catcode'#1\active
223     \else
224     \@shortvrbinfo\@empty{#1\already}{\@empty\verb(*)}%
225     \fi}

\OldMakeShortVerb 226 \def\OldMakeShortVerb{\begingroup
227     \let\@MakeShortVerb=\old@MakeShortVerb
228     \@ifstar{\eg@MakeShortVerbStar}{\eg@MakeShortVerb}}

\eg@MakeShortVerbStar 229 \def\eg@MakeShortVerbStar#1{\MakeShortVerb*#1\endgroup}
\eg@MakeShortVerb 230 \def\eg@MakeShortVerb#1{\MakeShortVerb#1\endgroup}

231 \endinput% for the Tradition.

```

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