niceverb.sty

$\begin{array}{c} {\rm Minimizing \ Markup} \\ {\rm for \ Documenting \ } {\rm IAT}_{\rm E} {\rm X \ packages}^* \end{array}$

Uwe Lück †

September 27, 2012

Abstract

<code>niceverb.sty</code> provides very decent syntax (through active characters) for describing $I\!\!AT\!E\!X$ packages and the syntax of macros conforming to $I\!\!AT\!E\!X$ syntax conventions.

Keywords: literate programming, syntactic sugar, .txt to .tex enhancement, macro programming

Contents

1	\mathbf{Pre}	senting niceverb	2
	1.1	Purpose	2
	1.2	Acknowledgement/Basic Ideas	2
	1.3	The Commands and Features of niceverb	3
	1.4	Examples	6
	1.5	What is Wrong with the Present Version	6
2	Imp	elementation of the Markup Syntax	7
	2.1^{-1}	Switching Category Codes	7
	2.2	Robustness by \IfTypesetting	9
	2.3	\NVerb	9
	2.4	Single Quotes Typeset Meta-Code	10
	2.5	Ampersand (or \cstx) Typesets Meta-Code	11
	2.6	Escape Character Typesets Meta-Code	12
	2.7	Meta-Variables	14
	2.8	Hash Mark is Code	14
	2.9	Single Right Quotes for \textsf	15

*This document describes version v0.5 of niceverb.sty as of 2012/09/27.

[†]http://contact-ednotes.sty.de.vu

2.10 Command-Highlighting Boxes
2.11 When niceverb Gets Nasty
2.11.1 Meta-Variables
2.11.2 Quotes
2.11.3 hyperref
2.11.4 hyper-xr
2.11.5 Turning off and on altogether
2.12 Activating the niceverb Syntax
2.13 Leave Package Mode
2.14 VERSION HISTORY 22

Presenting niceverb 1

1.1Purpose

The niceverb package provides "minimal" markup for documenting LATEX packages, reducing the number of keystrokes/visible characters needed (kind of poor man's WYSIWYG).¹ It conveniently handles command names in arguments of macros such as \footnote or even of sectioning commands. If you use makedoc.sty additionally, commands for typesetting a package's code are inserted automatically (just using T_FX). As opposed to tools that are rather common on UNIX/Linux, this operation should work at any TFX installation, irrespective of platform.

Both packages may at least be useful while working at a very new package and may suffice with small, simple packages. After having edited your package's code (typically in a .sty file—(*jobname*).sty), you just "latex" the manual file (maybe some .tex file— $\langle jobname \rangle$.tex) and get instantly the corresponding updated documentation.

niceverb and makedoc may also help to generate without much effort documentations of nowadays commonly expected typographical quality for packages that so far only had plain text documentations.

1.2Acknowledgement/Basic Ideas

Four ideas of Stephan I. Böttcher's in documenting his lineno inspired the present work:

- 1. The markup and its definitions are short and simple, markup commands are placed at the right "margin" of the ASCII file, so you hardly see them in reading the source file, you rather just read the text that will be printed.
- 2. An awk script removes the %s starting documentation lines and inserts the commands for typesetting the package's code (you don't see these commands in the source).²

¹ "What you see is what you get." Novices are always warned that WYSIWYG is essentially impossible with ${\rm L}\!^{A}T_{E}X.$ $^{2}The corresponding part of the "present work" is makedoc.sty.$

1 PRESENTING NICEVERB

- 3. An active character ('1') issues a \string and switches to typewriter typeface for typesetting a command verbatim—so this works without changing category codes (which is the usual idea of typesetting code), therefore it works even in macro arguments.
- '<meta-variable>' produces '(*meta-variable*)'. ('\lessthan' stores the original '<'.)

1.3 The Commands and Features of niceverb

Actually, it is the main purpose of niceverb to save you from "commands" ...

Single quotes ', ', "less than" < (accompanied with >), the "vertical" |, the hash mark #, ampersand &, and in an extended "auto mode" even backslash \ become \active characters with "special effects."

The package mainly aims at typesetting commands and descriptions of their syntax *if the latter is "standard LATEX-like"*, using "meta-variables." A string to be typeset "verbatim" thus is assumed to start with a single command like foo, maybe followed by stars ('*') and pairs of square brackets ('[opt-arg]') or curly braces ('{mand-arg}'), where those pairs contain strings indicating the typical kinds of contents for the respective arguments of that command. A typical example is this:

```
\int ov*[\langle opt-arg \rangle] \{\langle mand-arg \rangle\}
```

This was achieved by typing

&\foo*[<opt-arg>]{<mand-arg>}

In "auto mode" of the package, even typing

\foo*[<opt-arg>]{<mand-arg>}

would have sufficed—WYSIWYG! I call such mixtures of *verbatim* and "meta-variables" *'meta-code'*.

Outside macro arguments, you obtain the same by typing

(\foo*[<opt-arg>]{<mand-arg>}'

Details:

"Meta-variables:" The package supports the "angle brackets" style of "meta-variables" (as with *(meta-variable)*). You just type '
bar>' to get '*(bar)*'.

This works due to a sloppy variant \NVerb of \verb which doesn't care about possible ligatures and definitions of active characters. Instead, it assumes that the "verbatim" font doesn't contain ligatures anyway.³ '\verb+<foo>+', by contrast, just yields '<foo>'.

Almost the same feature is offered by ltxguide.cls which formats the basic guides from the LAT_EX Project Team. The present feature, however, also works in plain text outside verbatim mode.

³On the other hand, $\$ is more *careful* with **niceverb**'s special characters.

1 PRESENTING NICEVERB

Single quotes (left/right) for "short verb:" The package "assumes" that quoting refers to code, therefore ''foo'' is typeset as 'foo', or (generally) <u>(⟨content⟩'</u>) turns ⟨content⟩ into meta-code with the meta-variable feature as above. This somewhat resembles the \MakeShortVerb feature of doc.sty. You can "abuse" our feature just to get typewriter typeface.

Problems with this feature will typically arise when you try to typeset commands (and their syntax) in *macro arguments*—e.g.,

\footnote{'\bar' is a celebrated fake example!}

will try to *execute* \bar instead of typesetting it, giving an "undefined" error or so. \verb fails in the same situation, for the same reason. '&' (\footnote{&\bar (remaining)}) or "auto mode" (see below) may then work better.⁴ More generally, the quoting feature still works in macro arguments in the sense that you then have to mark difficult characters with & (simply as short for \string). However, it still won't work with curly braces that don't follow a command name (such *pairs* of braces will simply get lost, *single* braces will give errors or so).

Double quotes and apostrophes should still work the usual way. For difficult cases, you can still use the standard \verb command from IATEX. To get usual single quotes, you can use their standard substitutes \lq and \rq, or for pairs of them, $[\langle text \rangle]$ in place of $\langle text \rangle \langle rq$ —or even $\langle text \rangle \langle rq \rangle$. To get single quotes around some verbatim $\langle verb \rangle$, often $\langle text \rangle \langle rq \rangle$ works. It is for this reason that I have refrained from different solutions as in newverbs (so far).

Single right quotes for \textsf: Package names are (by some convention I often yet not always see working) typeset with \textsf; it was natural to use a remaining case of using single quotes for abbreviating

$textsf{\langle text \rangle}$

by $(\underline{text})^{\prime}$. This idea of switching fonts continues font switching of wiki.sty which uses the syntax for editing *Wikipedia* pages (font switching by sequences of right single quotes).

- **Verticals for setting-off command descriptions:** $[\langle code \rangle |]$ works like $\langle code \rangle \rangle$ except putting the result into a *framed box* (just as all around here)—or something else that you can achieve using some *hooks* described with the implementation. There are variants like $[\cmdboxitem]\langle code \rangle |]$.
- Ampersand shows command syntax &c. even in arguments: E.g., type '&\foo{<arg>}' to get '\foo{\arg\}'. This may be even more convenient for typing than the single quotes method, although looking somewhat strange. However, in macro arguments this does not work with *private letters* (@ and _ here), for this case, use \\cs{\characters\}} or \\cstx{\characters\}\parameters\].⁵

⁴\bar indeed!

 $^{^5 \}mathrm{Moreover},$ & currently has a limited xspace functionality only.

This choice of & rests on the assumption that there won't be many tables in the documenation. You can restore the usual meaning of & by \MakeNormal\& and turn the present special meaning on again by

\MakeActive\& or \MakeActiveLet\&\CmdSyntaxVerb

You could also redefine (\renewcommand) \descriptionlabel using \CmdSyntaxVerb (the "normal command" that is equivalent to &, its "permanent alias") so \item[\foo] works as wanted.

Another feature of niceverb's & is getting (some of the) special characters (as listed in the standard macro \dospecials) verbatim in arguments (where \verb and the like fail). It just acts similarly as T_EX 's primitive \string (which it actually invokes—cf. discussion on the left quote feature above).

"Auto mode" typesets commands verbatim unless ... In "auto mode," the backslash '\' is an active character that builds a command name from the ensuing letters and typesets the command (and its syntax, allowing meta-variables) verbatim. However, there are some exceptions, which are collected in a macro [\niceverbNoVerbList]. \begin, \end, and \item belong to this list, you can redefine (\renewcommand) it, or add $\langle macros \rangle$ to it by [\AddToNoVerbList]{ $\langle macros \rangle$ } There is also a command [\NormalCommand{ $\langle letters \rangle$] issuing the command $\langle letters \rangle$ instead of typesetting it. Since auto mode is somewhat dangerous, you have to start it explicitly by [\AutoCmdSyntaxVerb]. You can end it by [\EndAutoCmdSyntaxVerb]. [\AutoCmdInput{ $\langle file \rangle$ }] is probably most important.

Auto mode is motivated by the observation that there are package files containing their documentation as pure (well-readable) ASCII text—containing the names of the new commands without any kind of quotation marks or verbatim commands. Auto mode should typeset such documentation just from the same ASCII text.

- Hash mark '#' comes verbatim. No macro definitions are expected in the document environment.⁶ Rather, '#' is an active character for taking the next character (assuming it is a digit) to form a reference to a *macro* parameter—'#1' becomes '#1'-WYSIWYG indeed! (So the general syntax is $|#\langle digit \rangle|$.)
- Escaping from niceverb (generally). To get rid of the functionality of some active character $\langle char \rangle$ ('&', single quote, ampersand, hash mark—not "auto mode," see above) here, use $[MakeNormal\langle char \rangle]$ —may be within a group. To revive it again, use $[MakeActive\langle char \rangle]$. This may fail when a different package overtook the active $\langle char \rangle$ (but I expect more failures

 $^{^{6}\}mathrm{This}$ idea appeared 2009 on the LATEX-L mailing list. It may be wrong, as I have sometimes experienced . . .

then), in this case $\underline{\langle MakeActiveLet \langle char \rangle \backslash \langle perm-alias \rangle}$ revives the niceverb meaning of $\langle char \rangle$ where $\langle perm-alias \rangle$ is the "permanent alias" for that active $\langle char \rangle$ according to the documentation below. E.g., $\lfloor Qverb$ is the "permanent alias" for active single left quote, niceverb activates it by $\underline{\langle NakeActiveLet \rangle} \\ \underline{\langle LQverb}$ and revive it by $\underline{\langle useNiceVerb}$ (without "auto mode").

Right Quotes: Disabling/reviving replacement of \textsf by single right quotes requires

\nvRightQuoteNormal or \nvRightQuoteSansSerif

respectively.

1.4 Examples

The file mdoccorr.cfg providing some $txt \rightarrow IeT_EX$ functionality—i.e., typographical corrections—documents itself using niceverb syntax. Its code and the documentation that is typeset from it are in the 'examples' section of makedoc.pdf.—Moreover, the documentation niceverb.pdf of niceverb.sty was typeset from niceverb.tex and niceverb.sty using niceverb syntax, likewise fifinddo.pdf and makedoc.pdf. The example of niceverb shows the most frequent use of the & feature.

nicetext bundle release v0.4 contains a file substr.tex that should typeset the documentation of the version of Harald Harders' substr.sty⁷ that your T_EX finds first, as well as arseneau.tex typesetting a few packages by Donald Arseneau. The outcomes (with me) are substr.pdf and arseneau.pdf. These are the first applications of niceverb's "auto mode" to (unmodified) third-party package files. (I also made a more ambitious documentation of Donald Arseneau's import.sty v3.0 before I found that CTAN already has a nicely typeset documentation of import.sty v5.2.)

1.5 What is Wrong with the Present Version

1. niceverb.sty should be an extension of wiki.sty; yet their font selection mechanisms are currently not compatible. Especially, the feature of

```
,,\langle text \rangle,,\rangle
```

replacing $textit{\langle text \rangle}$ or $emph{\langle text \rangle}$ may be considered missing.

- Font switching or horizontal spacing may fail in certain situations. You can correct spacing by '_'.
- 3. The "vertical" character '|' produces inline boxes only at present. It might as well provide a version of the decl tabular environment of ltxguide.cls.

⁷http://ctan.org/pkg/substr

The inline boxes badly deal with long command names and many arguments. Doubled verticals could ensure the decl mode. Moreover, such a box might issue an *index* entry.

- 4. One may have *opposite* ideas about using quotes—maybe rather " $\langle code \rangle$ " should typeset $\langle code \rangle$ verbatim. There might be a package option for this. If ordinary '' $\langle text \rangle$ "' still should work, awful tricks as now with the right quote feature would be needed.
- 5. "auto mode" seems not to work in section titles. (2011/01/26)
- 6. Certain difficulties with typesetting code in macro arguments may be overcome easily using ε -T_FX features, I need to find out ...

2 Implementation of the Markup Syntax

```
\NeedsTeXFormat{LaTeX2e}[1994/12/01]
 1
     \ProvidesPackage{niceverb}[2012/09/27 v0.5
 \mathbf{2}
                                 minimize doc markup (UL)]
 3
 4
    %% Copyright (C) 2009-2012 Uwe Lueck,
 \mathbf{5}
     %% http://www.contact-ednotes.sty.de.vu
6
    %% -- author-maintained in the sense of LPPL below --
7
    %%
8
9
    %% This file can be redistributed and/or modified under
    %% the terms of the LaTeX Project Public License; either
10
    %% version 1.3a of the License, or any later version.
11
    %% The latest version of this license is in
12
     %%
            http://www.latex-project.org/lppl.txt
13
     \% We did our best to help you, but there is NO WARRANTY.
14
     %%
15
     %% Please report bugs, problems, and suggestions via
16
17
     %%
    %%
         http://www.contact-ednotes.sty.de.vu
18
19
    %%
```

2.1 Switching Category Codes

Underscore as a "private letter," using stacklet with v0.5:

%% 2012/08/27

v0.3 introduced \AssignCatCodeTo and \MakeNormal. v0.5 abolishes the former again and uses actcodes for some part of \catcode switching:

21 \RequirePackage{actcodes}

 $\CatCode{\langle character \rangle}$ (or simply $\CatCode{\langle character \rangle}$) saves one token per use and works when the category code of ''' ("single left quote") has changed. As of v0.5, it may be defined by a different package:

```
22 \providecommand*{\CatCode}{\catcode'} %% \provi... 2012/08/27
```

```
23 % \newcommand*{\CatCode}[1]{\catcode'#1 } %% no better 2010/02/27
```

\CatCode is near to be moved into the catcodes bundle, and basic commands from stacklet and actcodes may be reimplemented using it (manycats; allcats for loading entire catcodes in good order).

 $\Lambda ssignCatCodeTo{\langle number \rangle} \{ \langle char \rangle \}$ no longer is considered useful (counted tokens in memory.tex) and replaced by CatCode.

24 % \newcommand*{\AssignCatCodeTo}[2]{\catcode'#2=#1\relax}

 $[MakeLetter \langle char \rangle]$ is replaced by the stacklet package—I thought, but *here* it is also needed to declare the "private letters" of the package that is documented. This should be "variable." OK, the new (v0.5) \private_letters is a step towards this:

25 \newcommand*{\private_letters}{\CatCode\@11\CatCode_11\relax}

 $[\MakeOther \char]$ and $[\MakeActive \char]$ were implemented here before v0.5, now they are in actcodes ...

26 % \def \MakeOther {\AssignCatCodeTo{12}}

 $\MakeActiveLet \(char) \(macro-name)\]$ likewise is in actcodes. niceverb takes a copy \MakeActiveLetHere of it for dealing with hyperref (see Section 2.11.3). hyperref-compatibility of mere \MakeActive is not provided any longer:

27 \@ifdefinable\MakeActiveLetHere{% 28 \let\MakeActiveLetHere\MakeActiveLet}

For restoring the usual category codes of T_EX 's special characters later, we store them now. (I.e., these characters are listed in the macro \dospecials that expands to

their category codes are 10, 0, 1, 2, 3, 4, 6, 7, 8, 14, 13 respectively; "end of line", "ignored", "letter", "other", and "invalid" are missing—cf. *T_EXbook* Chap. 7.)

```
29 \def\do#1{\expandafter
30 \chardef \csname normal_catcode_\string#1\expandafter \endcsname
31 \CatCode#1\relax}
32 \dospecials
```

Tests: "normal category code" of \setminus is 0, "normal category code" of \$ is 3; "normal category code" of \$ is 4.⁸

```
33 % \newcommand*{\make_iii_other}{\MakeOther\\\MakeOther\{\MakeOther\}}
34 %% <- replaced 2009/04/05</pre>
```

 $^{^{8}\}mathrm{IAT}_{E}X$'s \nfss@catcodes is similar, but it makes space-like characters ignored. Also cf. ltfinal.dtx. TODO: \RestoreNormalCatcodes.

 \mathbb{A} akeNormal $\langle char \rangle$ saves you from remembering ...

```
35 \newcommand*{\MakeNormal}[1]{%
36 \@ifundefined{\norm_catc_str#1}%
37 {\MakeOther#1}%
38 {\CatCode#1\csname\norm_catc_str#1\endcsname\relax}}
39 \newcommand*{\norm_catc_str}{normal_catcode_\string}
40 %% TODO add ^^1 and ^^M
41 %% TODO save char tokens %% 2012/08/27
```

We take a copy \MakeNormalHere of \MakeNormal as with \MakeActive.

42 \@ifdefinable\MakeNormalHere{\let\MakeNormalHere\MakeNormal}

2.2 Robustness by \IfTypesetting

It seems we need some own ways to achieve various compatibilities—using $[IfTypesetting{\langle if \rangle}]$. It also saves some expandafters.

```
43 \providecommand*{\IfTypesetting}{%
```

```
44 % \relax
```

This \relax suppressed ligatures of single right quotes!

```
45 \ifx \protect\@typeset@protect
46 \expandafter \@firstoftwo
47 \else \expandafter \@secondoftwo \fi}
```

2.3 \NVerb

\begin_min_verb is a beginning shared by some macros here. It begins like LATEX's \verb, apart from the final \tt.

```
48 \newcommand*{\begin_min_verb}{%
49 \relax \ifmmode \hbox \else \leavevmode\null \fi
50 \bgroup \tt}
```

 $\mathbb{NVerb}\langle char \rangle \langle code \rangle \langle char \rangle$

```
51 \mbox{newcommand}{\mbox{NVerb}}
```

52 _no_nice_meta_verb_false \nice_maybe_meta_verb}

 $\operatorname{HardNVerb}(char)(code)(char)$ does not recognize meta-variables:

```
53 \newcommand*{\HardNVerb}{%
```

```
54 \_no_nice_meta_verb_true \nice_maybe_meta_verb}
```

```
55 \newif\if_no_nice_meta_verb_
```

```
56 \mbox{newcommand}{\line{\mbox{nice_maybe_meta_verb}[1]}{\line{\mbox{max}}}
```

Mainly avoid \verb's noligs list which overrides definitions of some active characters, while cmtt doesn't have any ligatures anyway.

```
57 \IfTypesetting{%
```

```
58 \begin_min_verb
```

```
59 \let\do\MakeOther \dospecials
```

Turn off niceverb specials:

```
\MakeOther\|\MakeOther\'\MakeOther\'%
60
61
           \if_no_nice_meta_verb_ \MakeOther\<%
           %%% \else
                        \MakeActiveLet\<\MetaVar
                                                       %% 2010/12/31
62
                        \MakeActiveLetHere\<\MetaVar %% 2011/06/20
63
           \else
           \fi
64
           \MakeActiveLetHere #1\niceverb_egroup
65
           \verb@eol@error %% TODO change message 2009/04/09
66
       }{\string\NVerb \string#1}}
67
```

2009/04/11: about etc. [preceding a box!? 2010/03/14]

```
68 \newcommand*{\niceverb_normal_egroup}{%
```

```
69 \egroup
```

2011/09/09 adding \niceverb_maybe_rq for \AddQuotes:

```
70 \niceverb_maybe_rq
71 \ifmmode\else\@\fi}
72 \@ifdefinable\niceverb_egroup
73 {\let\niceverb_egroup\niceverb_normal_egroup}
```

2.4 Single Quotes Typeset Meta-Code

\LQverb will be a "permanent alias" for the active left single quote.

The verbatim feature must not act when another single left quote is ahead we assume a double quote is intended then (thus the left quote feature does not allow to typeset something verbatim that starts with a single left quote). Rather, double quotes should be typeset then. In page headers, a **\protect** may be in the way. (A hook for **\relaxing** certain things in **\markboth** and **\markright** would have been an alternative.)

```
74 \MakeActive\'
75 \newcommand*{\LQverb}{%
76 \IfTypesetting{\lq_double_test}{\protect'}}
77 \MakeOther\'
78 \newcommand*{\lq_double_test}{%
```

This test settles the next catcode, so better switch to "other" in advance (won't harm if left quote isn't next):

```
\begingroup
79
         \let\do\MakeOther \dospecials
80
         \MakeOther\|%% 2010/03/09!
81
         \futurelet\let_token \lq_double_decide}
82
     \newcommand*{\lq_double_decide}{%
83
       \ifx\let_token\LQverb
84
85
         \endgroup
86
         ''\expandafter \@gobble
```

Corresponding right quotes will become "other" due to having no space at the left. TODO to be changed with wiki.sty.

```
87
      \else
88
        \ifx\let_token\protect
          \expandafter\expandafter \lq_double_decide_ii
89
90
        \else
          \endgroup
91
                                                      %% 2011/09/09
92
          \niceverb_maybe_qs
93
          \expandafter\expandafter \NVerb
94
            \expandafter\expandafter\expandafter \'%
        \fi
95
96
      fi
```

\lq_double_decide_ii continues test behind \protect.

```
97 \newcommand*{\lq_double_decide_ii}[1]{%
98 \futurelet\let_token \lq_double_decide}
```

2.5 Ampersand (or \cstx) Typesets Meta-Code

\CmdSyntaxVerb will be a permanent alias for the active &.

```
99 \MakeActive\&
100 \newcommand*{\CmdSyntaxVerb}{%
101 \IfTypesetting{%
102 \begin_min_verb
```

v0.3 moves the previous line from \cmd_syntax_verb where it is too late to establish private letters according to next line which was in \begin_min_verb earlier—an important bug fix!

```
      103
      \private_letters
      %% v0.5

      104
      \cmd_syntax_verb

      105
      }{\protect&\string}}

      106
      \MakeNormal\&

      107
      \newcommand*{\cmd_syntax_verb}[1]{%

      108
      \string#1\futurelet\let_token \after_cs}
```

However, & (or \CmdSyntaxVerb) may fail with private letters (there should be a hook for them), especially in *macro arguments* and with hyperref in titles of *sections bearing* \labels, so we provide something like $\cs{\langle characters \rangle}$ from tugboat.sty.

```
109 \DeclareRobustCommand*{\cs}[1]{%
110 \begin_min_verb \backslash_verb #1\egroup}
111 \newcommand*{\backslash_verb}{\char`\\}
```

Moreover, typing $\&\par$ in "short" macro arguments fails, you better type \cs{par} then. Likewise, $\cs{if}(letters)$ and \cs{fi} is safer in case you want to skip some part of the documentation (e.g., a package option skips

commented code) by $if\langle letters \rangle$ fi. Finally, there will be PDF bookmarks support for cs rather than for a real & or CmdSyntaxVerb analogue like $[cstx{charcters}]*[\langle opt \rangle]{\langle mand \rangle}$ as follows.

```
%% corr. 2010/03/17
112
     \DeclareRobustCommand*{\cstx}[1]{%
       \begin_min_verb \backslash_verb #1\futurelet\let_token \after_cs}
113
     \newcommand*{\after_cs}{%
114
       \ifcat\noexpand\let_token a\egroup \space
115
       \else \expandafter \decide_verb \fi}
116
     \newcommand*{\test_more_verb}{\futurelet\let_token \decide_verb}
117
     \newcommand*{\decide_verb}{%
118
         \jumpteg_on_with\bgroup\braces_verb
119
120
         \jumpteg_on_with[\brackets_verb
121
         \jumpteg_on_with*\star_verb
       \egroup}
122
         \% CAUTION/TODO wrong before (... if cmd without arg
123
         %%
                     use \ then or choose usual verb...
124
125
         %%
                     or \MakeLetter\( etc. ... or \xspace
     \newcommand*{\jumpteg_on_with}[2]{%
126
       \ifx\let_token#1\do_jumpteg_with#2\fi}
127
  TODO cf. xfor, xspace (\break@loop); \DoOrBranch#1...#1 or so.
128
     \def\do_jumpteg_with#1#2\egroup{\fi#1}
129
     \def\braces_verb#1{\string{#1\string}\test_more_verb}
     \def\brackets_verb[#1]{[#1]\test_more_verb}
130
```

```
131 \def\star_verb*{*\test_more_verb}
```

132 %% not needed with \Auto... OTHERWISE useful in args!

As latex.ltx has \endgraf as a permanent alias for the primitive version of \par and \endline for \cr, we offer [\endcell] as a replacement for the original &:

```
133 \let\endcell&
```

2.6 Escape Character Typesets Meta-Code

\BuildCsSyntax will be a permanent alias for the active escape character.

```
\DeclareRobustCommand*{\BuildCsSyntax}{%
134
        \futurelet\let_token \build_cs_syntax_sp}
135
      \newcommand*{\build_cs_syntax_sp}{%
136
        \ifx\let_token\@sptoken
137
          \@%
                                                %% 2010/12/30
138
        \else %% TODO ^^M!?
139
          \expandafter \start_build_cs_syntax
140
        \fi}
141
      \newcommand*{\start_build_cs_syntax}[1]{%
142
        \edef\string_built{\string#1}%
143
```

#1 may be active.—With Donald Arseneau's import.sty (e.g.), '_' may be needed to be \active with the meaning of \textunderscore, therefore restoring its category code needs some more care than with v0.32 and earlier:

```
\edef\before_build_cs_sub{\the\CatCode\_}%
144
       \private_letters
                                                            %% v0.5
145
       \test_more_cs}
146
      \newcommand*{\test_more_cs}{%
147
       \futurelet\let_token \decide_more_cs}
148
     \newcommand*{\decide_more_cs}{%
149
150
       \ifcat\noexpand\let_token a\expandafter \add_to_cs
151
        \else
     %
            \MakeNormalHere\_
152
```

Restoring '_' more carefully with v0.4 (\begingroup ... \endgroup!?):

```
153
          \CatCode\_\before_build_cs_sub
          \MakeOther\@%
154
         \expandafter \in@ \expandafter
155
           {\csname \string_built \expandafter \endcsname
156
              \expandafter}\expandafter{\niceverbNoVerbList}%
157
         \ifin@
158
            \csname \string_built
159
              \expandafter\expandafter \endcsname
160
161
         \else
162
            \begin_min_verb \backslash_verb\string_built
              \expandafter\expandafter\expandafter \test_more_verb
163
         \fi
164
       fi
165
166
       %% TODO such \if nestings with ifthen!?
167
      %% cf.:
        \let\let_token, \typeout{\meaning\let_token}
168
       %% TEST TODO fuer xspace!? (\ifin@)
169
     \newcommand*{\add_to_cs}[1]{%
170
       \edef\string_built{\string_built#1}\test_more_cs}
171
```

\AutoCmdSyntaxVerb| starts, \EndAutoCmdSyntaxVerb| ends "auto mode."

```
172 \newcommand*{\AutoCmdSyntaxVerb}{%
```

- 173 \MakeActiveLetHere\\\BuildCsSyntax}
- 174 $\mbox{newcommand}{\mbox{erb}}(CatCode)\z@$

 $\NormalCommand{\langle characters \rangle}$ executes $\langle characters \rangle$ in "auto mode."

Once I may want to use this feature in *Wikipedia*-like section titles as supported by **makedoc**, yet I cannot really apply the present feature soon, so this must wait ... (There is a special problem with **\newlabel** and **hyperref** ...) Former tests:

```
176 % \futurelet\LetToken\relax \relax
```

```
177 % \show\LetToken \typeout{\ifcat\noexpand\LetToken aa\else x\fi}
```

\niceverbNoVerbList is the list of macros that will be *executed* instead of being typeset.

178 \newcommand*{\niceverbNoVerbList}{%

179 \begin\end\item\verb\EndAutoCmdSyntaxVerb\NormalCommand

```
180 \section\subsection\subsubsection} %% TODO!?
```

 $\Lambda ddToMacro{\niceverbNoVerbList}{\langle macros \rangle}$ can be used to add $\langle macros \rangle$ to that list.

181 \providecommand*{\AddToMacro}[2]{% %% TODO move to ... 2010/03/05

182 \expandafter \def \expandafter #1\expandafter {#1#2}}

183 %% <- was very wrong 2010/03/18

Hey, or just $\Lambda ddToNoVerbList{\langle macros \rangle}$:

184 \newcommand*{\AddToNoVerbList}{\AddToMacro\niceverbNoVerbList}

"Auto mode" probably ain't mean a thing if it ain't invoked using

 $\Lambda utoCmdInput{\langle file \rangle}$

for type setting $\langle file\rangle$ in "auto mode:"

185 \newcommand*{\AutoCmdInput}[1]{%

186	\begingroup			
187	\AddToMacro\ni	.ceverbNoVerbList{\	Provides	File}%
188	%% <- removed	<pre>'\endinput', will</pre>	be code!	2010/04/05
189	\AutoCmdSyntax	Werb		
190	$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $			
191	\EndAutoCmdSyn	ıtaxVerb		
192	\endgroup			
193	}			

2.7 Meta-Variables

 $\boxed{\texttt{MetaVar}\langle var\text{-}id \rangle} \text{ will be a permanent alias for the active `<'.}$

```
194 \def\MetaVar#1>{%
```

195 \mbox{\normalfont\itshape \$\langle\$#1\/\$\rangle\$}}
196 %% TODO offer without angles as well

As opposed to ltxguide.cls, this works outside verbatim as well.

2.8 Hash Mark is Code

[HashVerb(digit)] will be a permanent alias for the active hash mark.

2.9 Single Right Quotes for \textsf

\RQsansserif will be a permanent alias for the active single right quote.

The basic problem with the "single right quote feature" is that a single right quote may be meant to be an apostrophe. This is certainly the case at the right of a letter. On the other hand, we assume that it is *not* an apostrophe (i) in vertical mode (opening a new paragraph), (ii) after a horizontal skip.

For page headers, in expanding without typesetting, the expansion of **\RQsansserif** must contain another active single right quote.

```
198 \MakeActive\'
199 \newcommand*{\RQsansserif}{%
200 \IfTypesetting{\niceverb_rq_sf_test}{\protect'}}
201 \MakeOther\'
```

Another macro just to avoid more sequences of \expandafter:

202	\newcommand*{\niceverb_rq_sf_test}{%
203	\ifhmode
204	\ifdim\lastskip>\z@
205	\expandafter\expandafter\expandafter \DoRQsansserif
206	\else
207	\ifnum\niceverb_spacefactor
208	$\ensuremath{\sc expandafter}\ensuremath{\sc expandafter}$
209	\expandafter\expandafter\expandafter
210	\DoRQsansserif
211	\else '\fi
212	\fi
213	\else \ifvmode
214	\expandafter\expandafter\expandafter \DoRQsansserif
215	\else '\fi
216	\fi}

\DoRQsansserif is *another* (possible) alias for the active single right quote, see below.

```
217 \MakeActive\'
```

```
218 \@ifdefinable\DoRQsansserif
219 {\def\DoRQsansserif#1'{\textsf{#1}}}
```

```
220 \MakeOther''
```

The following cases are typical and cannot be decided by the previous criteria: (i) parenthesis, (ii) footnotes and after "horizontal" environments like $[\langle math \rangle \rangle]$, (iii) section titles, (iv) **\noindent**. We introduce some dangerous tricks—redefinitions of IATEX's internal **\@sect** and of TEX's primitives **\noindent** and **\ignorespaces** as well as by a signal **\spacefactor** value of 1001. In page headers, LATEX equips the single right quote with the meaning of **\active@math@prime** which must be overridden.

```
221 \newcommand*{\nvAllowRQSS}{%
```

```
222 \MakeActiveLetHere\'\RQsansserif
```

223 \niceverb_ignore}

%% 2010/03/16

These and the entire right quote functionality are activated by

\nvRightQuoteSansSerif and disabled by \nvRightQuoteNormal -at \begin{document}---where we collect previous settings---or later: \AtBeginDocument{% 224225\edef\before_niceverb_parenthesis{\the\sfcode'\(}% 226\let \before_niceverb_ignore \ignorespaces %% 2010/03/16 227 \let \before_niceverb_sect \@sect \let \before_niceverb_noindent \noindent} %% 2010/03/08 228

We assume that $\ensuremath{\sc lambda}$ has the same parameters there as in $\ensuremath{\sc lambda}$ (even if redefined by another package, like hyperref).

```
229 \def\niceverb_sect#1#2#3#4#5#6[#7]#8{%
230 \before_niceverb_sect{#1}{#2}{#3}{#4}{#5}{#6}%
231 [{\protect\nvAllowRQSS #7}]%
232 {\protect\nvAllowRQSS #8}}
```

2010/03/20:

```
233 \newcommand*{\niceverb_spacefactor}{\spacefactor=1001\relax}
234 \newcommand*{\niceverb_noindent}{%
235 \before_niceverb_noindent \niceverb_spacefactor}
236 \newcommand*{\niceverb_ignore}{%
237 \iffmode \niceverb_spacefactor \fi \before_niceverb_ignore}
```

Here are the main switches:

238	\newcommand*{\nvRigh	tQuoteSansSerif}{%	
239	\MakeActiveLet\'	\RQsansserif	
240	sfcode' (=1001	%% enable in parentheses 20	09/04/10

I also added \sfcode'/=1001 in the preamble of makedoc.tex.

241	%	\let\@footnotetext\niceverb_footnotet	ext		
242		\let\ignorespaces\niceverb_ignore	%%	2010/03/16	
243		\let\@sect\niceverb_sect			
244		<pre>\let\noindent\niceverb_noindent}</pre>	%%	2010/03/08	
245	\n	ewcommand*{\nvRightQuoteNormal}{%			
246		\MakeNormal\'%		%%	2010/03/21
247		\sfcode'\(=\before_niceverb_parenthesis	\re	lax	
248		\let\ignorespaces\before_niceverb_ignor	е	%%	2010/03/16
249		\let\@sect\before_niceverb_sect			
250		<pre>\let\noindent\before_niceverb_noindent}</pre>		%%	2010/03/08

 $[\nvAllRightQuotesSansSerif]$ (after \begin{document}!) forces the \textsf feature without testing for apostrophes. You then must be sure—DANGER! CARE!—to use '\rq' only for obtaining an apostrophe and the double quote character '"' for closing double quotes, or our \dqtd{ $\langle text \rangle$ } for the entire quoting.

```
251 \newcommand*{\nvAllRightQuotesSansSerif}{%
```

```
252 \nvRightQuoteNormal
```

```
253 \MakeActiveLet\'\DoRQsansserif}
```

I started v0.31 (signal sfcode=1000, lowercase letters get sfcode=1001) because $href{http://ctan.org/pkg/<math>\langle pkg \rangle$ } failed. However, what I actually needed was $\lceil ctanpkgref{\langle pack-name \rangle}$:

```
254 % \DeclareRobustCommand*{\ctanpkgref}[1]{%
255 % \href{http://ctan.org/pkg/#1}{\textsf{#1}}}
```

```
\dots moves to texlinks.sty 2011/01/24.
```

2.10 Command-Highlighting Boxes

With v0.3, we include one kind of command syntax boxes whose $\langle content \rangle$ is (in niceverb syntax) delimited as $\lceil \langle content \rangle \rceil$.

```
256 \newsavebox\niceverb_savebox
```

 $\GenCmdBox(char)(content)(char)$ works like $\NVerb(char)(content)(char)$ except putting the latter's result into a framed (or coloured or ...) box.

```
257 \newcommand*{\GenCmdBox} {\_no_nice_meta_verb_false \gen_cmd_box}
```

\HardVerbBox is a variant of \GenCmdBox with the meta-variable feature disabled (for the documentation of the present package).

```
258
     \newcommand*{\HardVerbBox}{\_no_nice_meta_verb_true \gen_cmd_box}
259
     \newcommand*{\gen_cmd_box}{%
260
     %
         \ifvmode\let\niceverb_boxtype\VerticalCmdBox
                                                              %% 2011/11/05
             \else\let\niceverb_boxtype\InlineCmdBox
                                                       \fi
261
     %
262
       \let\niceverb_egroup\nice_collect_verb_egroup
       \setbox\niceverb_savebox \hbox\bgroup
263
264
         \if_no_nice_meta_verb_
                \expandafter \HardNVerb
265
266
          \else \expandafter \NVerb
                                         \fi}
     \newcommand*{\nice_collect_verb_egroup}{%
267
          \egroup \egroup
268
       \ifvmode \expandafter \VerticalCmdBox
269
                 \ifmmode \hbox \fi
270
       \else
                 \expandafter \InlineCmdBox \fi
271
272
     %
         \ifmmode\hbox\fi \niceverb_boxtype
                                                              %% 2011/11/05
273
         {\box\niceverb_savebox}%
```

Modifying invocation of \niceverb_normal_egroup 2011/11/05 according to remark of 2010/03/15 for saving nesting level:

```
275 \let\niceverb_egroup\niceverb_normal_egroup
```

```
276
```

}

\nvCmdBox will be the permanent alias for '|'.

277 $\mbox{lmwcmmand*{\nvCmdBox}{\GenCmdBox\|}}$

 $VerticalCmdBox{(content)} may eventually start a decl environment as in Itxguide.cls, looking ahead for another '|' in order to (perhaps) append another row. Another possibility is first to do some$

\if@nobreak\else_\pagebreak[2]\fi

etc. and then invoke \InlineCmdBox. The user can choose later by some \renewcommand. We do the perhaps most essential thing here (again cf. \begin_min_verb):

278 \newcommand*{\VerticalCmdBox}{\leavevmode\InlineCmdBox}

(2011/11/05 removing \null.) The command declaration boxes in the documentation of Nicola Talbot's datatool would be an especially nice realization of \VerticalCmdBox.

[\InlineCmdBox{{content}}], according to our idea, should not change baseline skip, even with some \fboxsep and \fboxrule. (However, it may be a good idea to increase the overall normal baseline skip.) We therefore replace actual height and depth of the content by the height and depth of math parentheses.

```
279 \newcommand*{\InlineCmdBox}[1]{%
280 \bgroup
```

... needed in math mode with \begin_min_verb.

281	\fboxsep 1pt
282	\kern\SetOffInlineCmdBoxOuter
283	\SetOffInlineCmdBox{\kern\SetOffInlineCmdBoxInner
284	\InlineCmdBoxArea{#1}%
285	\kern\SetOffInlineCmdBoxInner}}%
286	\mathstrut
287	\kern\SetOffInlineCmdBoxOuter
288	\egroup
289	}

The default choice for \SetOffInlineCmdBox is \fbox:

 $290 \qquad \verb+\ensuremath{@} \ensuremath{@} \ensuremath{$>$$ \ensuremath{$>$$ \ensuremath{$>$$ \ensuremath{$>$$} \ensuremath{$>$$ \ensuremath{$>$$} \ensuremath{$>$$ \ensuremath{$>$$} \ensuremath{$>$$ \ensuremath{$>$$ \ensuremath{$>$$} \ensuremath{$>$$ \ensuremath{$>$$ \ensuremath{$>$$ \ensuremath{$>$$} \ensuremath{$>$$ \ensuremath{$>$$ \ensuremath{$>$$ \ensuremath{$>$$} \ensuremath{$>$$ \ensuremath{$>$ \ensuremath{$>$ \ensuremath{$>$ \ensuremath{$>$ \ensuremath{$>$ \ensuremath{$>$ \ensuremath{$>$ \ensuremath{$>$ \e$

You can \renewcommand it to change \fboxsep, \fboxrule etc. or to use a \colorbox with the color package, e.g., I used the following setting so far:

\SetOffInlineCmdBoxInner enables controlling the inner horizontal space to the box margin independently of **\fboxsep**.

```
291 \newcommand*{\SetOffInlineCmdBoxInner}{-\fboxsep\thinspace}
```

This choice is inspired by \cstok for "boxed" things in Knuth's manmac.tex which formats *The T_EXbook*.

\SetOffInlineCmdBoxOuter allows that the box hangs out into the margin horizontally. We set it to 0 pt as default (it is a macro only, for a while).

292 \newcommand*{\SetOffInlineCmdBoxOuter}{\z@}

The height and depth of the frame should be the same for all inline boxes, we think. The present choice <u>\InnerCmdBoxArea</u> for the spacing respects code characters rather than the height and depth of the angle brackets that surround meta-variable names.

```
293 \newcommand*{\InlineCmdBoxArea}[1]{%
294 \smash{#1}\vphantom{gjpq\backslash_verb}}
```

 $\cmdboxitem[(content)]$ is another variant of \GenCmdBox. It should replace \item[(content)] in the description environment.

```
\newcommand*{\cmdboxitem}{%
295
        \bgroup
296
          \let\niceverb_egroup\cmd_item_egroup
297
          \global %% TODO!? 2010/03/15
298
          \setbox\niceverb_savebox \hbox\bgroup
299
             \mathbb{V}^{\mathbb{V}^{2}}
300
      \newcommand*{\cmd_item_egroup}{%
301
302
             \egroup \egroup \egroup
303
        \item[\InlineCmdBox{\box\niceverb_savebox}]}
```

2.11 When **niceverb** Gets Nasty

These things are new with v0.3.

2.11.1 Meta-Variables

This is even newer than v0.3.

In case you actually need \langle and \rangle in math mode, <u>\lt</u> and <u>\gt</u> are "provided" as aliases:

```
304 \providecommand*{\gt}{>}
305 \providecommand*{\lt}{<}</pre>
```

2.11.2 Quotes

In order to get *real* single quotes, you could use $\lfloor q_{\sqcup} \langle text \rangle \backslash rq$, maybe appending a $\lfloor \\ \end{pmatrix}$, but the code $\lfloor \langle text \rangle \rbrace$ may look better and be easier to type.

306 \newcommand*{\qtd}[1]{'#1'}

However, here we get the problem that the left quote in $\t d\{ code \}' \$ will be unable to switch into verbatim mode entirely—then use &, e.g., $\t d\{ \&\&\}' \$ typesets "&", i.e., the ampersand in single (non-verbatim) quotes.

 307
 % TODO \qtdverb!? alternative meaning for \LQverb!? 2010/03/06

 308
 % rather rare, & takes less space
 2010/03/09

\AddQuotes automatically surrounds code with single quotes. I have so often felt that it was a design mistake to drop them (2011/09/09):

```
309 \newcommand*{\AddQuotes}{%
```

```
310 \let\niceverb_maybe_qs\niceverb_add_qs}
311 \newcommand*{\niceverb_add_qs}{%
```

In a math display, quotes are suppressed even with \AddQuotes:

You can undo this by \DontAddQuotes:

```
317 \newcommand*{\DontAddQuotes}{\let\niceverb_maybe_qs\relax}
```

The default will be the behaviour that we had before:

318 \DontAddQuotes

 $\dqtd{\langle text \rangle}$ can be used for enclosing in *double* quotes with the dangerous \nvAllRightQuotesSansSerif (see above).

```
319 \newcommand*{\dqtd}[1]{``#1"}
```

2.11.3 hyperref

This is for/about compatibility with the hyperref package. (One preliminary thing: in doubt, don't load niceverb earlier than hyperref.)

We need some substitutions for PDF bookmarks with hyperref. We issue them at \begin{document} when we know if hyperref is at work.⁹

320	%
321	\@ifpackageloaded{hyperref}{%
322	\newcommand*{\PDFcstring}{% %% moved here 2010/03/09
323	<pre>\134\expandafter\@gobble\string}% %% ASCII octal encoding</pre>
324	%
325	\let\nvAllowRQSS\empty %% not \relax 2010/03/12
326	%% 2010/03/12
327	\MakeActiveLetHere\'\lq \MakeActiveLetHere\'\rq
328	\MakeActiveLetHere\&\PDFcstring
329	\def\cs{\134}% %% 2010/03/17, 2011/06/27
330	ት%

 $^{^9\}mathrm{An}$ alternative approach would be using <code>afterpackage</code> by Alex Rozhenko.

Moreover, in order to avoid spurious Label(s) may have changed with hyperref, a single right quote must be *read* as active by a \newlabel if and only if it has been active when \@currentlabelname was formed.¹⁰ as \active. We use \protected@write as this cares for \nofiles. \@auxout may be \@partaux for \include.

331	\newcommand*{\niceverb_aux_cat}[2]{%	%%	2010/03/14
332	<pre>\protected@write\@auxout{}{\string#1\string#2}}</pre>	%	

v0.5 restricts "activating" to \MakeActiveLet:

333	%	\renewcommand*{\MakeActive}[1]{%
334	%	\MakeActiveHere#1%
335	%	<pre>\niceverb_aux_cat\MakeActiveHere#1}%</pre>
336		\renewcommand*{\MakeActiveLet}[2]{%
337		\MakeActiveLetHere#1#2%
338	%	<pre>\niceverb_aux_cat\MakeActiveHere#1}%</pre>
339		<pre>\protected@write\@auxout{}{%</pre>
340		\string\MakeActiveLetHere\string#1\string#2}}%
341		\renewcommand*{\MakeNormal}[1]{%
342		\MakeNormalHere#1%
343		\niceverb_aux_cat\MakeNormalHere#1}%
344		}{}%
345	}	

TODO doesn't babel have the same problem? 2010/03/12

2.11.4 hyper-xr

With the hyper-xr package creating links into external documents, preceding $\externaldocument{{file}} with \MakeActiveLet\&CmdSyntaxVerb may be needed. I do not want to redefine something here right now as I have too little experience with this situation.$

2.11.5 Turning off and on altogether

These commands are new with v0.3. $\$ **\noNiceVerb** *disables* all niceverb features.

346	\newcommand*{\noNiceVerb}	{\MakeNormal\'%
347		\MakeNormal\&%
348		\MakeNormal\<%
349		\MakeNormal\#%
350		\nvRightQuoteNormal
351		$MakeNormal \}$

\useNiceVerb activates all the niceverb features (apart from "auto mode").

352 \newcommand*{\useNiceVerb}{\MakeActiveLet\'\LQverb

 $^{^{10}{\}rm This}$ uses **\Conelevelsanitize**, therefore **\protect** doesn't change the behaviour of "active" characters.

TODO to be changed with wiki.sty v0.2

353	\MakeActiveLet\&\CmdSyntaxVerb
354	\MakeActiveLet\<\MetaVar
355	\MakeActiveLet\#\HashVerb
356	\nvRightQuoteSansSerif
357	\MakeActiveLet\ \nvCmdBox}

2.12 Activating the niceverb Syntax

niceverb features are activated at $\begin{document} so (some) other packages can be loaded$ *after*niceverb. For v0.3, we do this after possible settings for compatibility with hyperref.

358 \AtBeginDocument{\useNiceVerb}

2.13 Leave Package Mode

2.14 VERSION HISTORY

361	v0.1	2009/02/21	very first, sent to CTAN
362	v0.2	2009/04/04	NoVerbList: \subsubsection, \AddToMacro,
363		2009/04/05	\SimpleVerb makes more other than iii
364		2009/04/06	just uses \dospecials
365		2009/04/08	<pre>debugging code for rq/sf, +\relax</pre>
366		2009/04/09	+\verb@eol@error, prepared for new doc method,
367			<pre>removed spurious \makeat, -\relax (ligature),</pre>
368		2009/04/10	('-trick
369		2009/04/11	\@ after \SimpleVerb
370		2009/04/14	noted TODO below
371		2009/04/15	change v0.1 to 2009/02/21
372	v0.30	2010/02/27	<pre>short, more explained, \AssignCatCodeTo,</pre>
373			use \MakeActive for re-activating, \MakeNormal
374		2010/02/28	fixed @ and _ with & by moving \begin_min_verb;
375			replaced \lq by '; Capitals in Titles
376		2010/03/05	<pre>\SimpleVerb -> \NVerb;</pre>
377			use \MakeActive + \MakeNormal; \rq -> ';
378			renamed some sections; \lq_verb -> \LQverb,
379			<pre>\niceverb_meta -> \MetaVar,</pre>
380			\param_verb -> \HashVerb
381		2010/03/06	removed \MakeAlign; removed @ and _ todo below;
382			\NVerb makes ' and ' other;
383			\nvAllowRQSF allows ' in column titles,
384		2010/03/08	\LQverb and & work in column titles,
385			\RQverb works with \noindent;
386			bookmark substitutions
387		2010/03/09	<pre>extended notes on 'hyperref' (in)compatibility;</pre>

```
\MakeLetter\@ in \CmdSyntaxVerb only;
388
389
                          implemented as \prepareCmdBox etc.!
             2010/03/10
                          \colorbox example, \thinspace; ltxguide!;
390
                          removed todo; ..._exec -> \DoRQsansserif;
391
                          minor doc changes in ''Nasty"
392
                          doc changes in 'Escape Character ... " and
393
            2010/03/11
394
                          ''Ampersand"
            2010/03/12
395
                          \niceverb_aux_cat, \MakeActiveHere etc.,
                          \IfTypesetting, \noNiceVerb, \useNiceVerb,
396
                          corr. bracing mistake in \MakeNormal!
397
            2010/03/14
                          0.31 -> 0.3; \HardNVerb, \GenCmdBox,
398
                          \prepareCmdBox -> \nvCmdBox
399
            2010/03/15
                          \endcell; \cmdboxitem; remark on \sfcode'/
400
            2010/03/16
                          corr. -> \endline;
401
                          advice on \cs{par}, \cs{if...}, \cs{fi};
402
                          redefined \ignorespaces for RQ feature
403
            2010/03/17
                          corr. '\fututelet', corr. \cs PDF substitution
404
            2010/03/18
                          |\niceverbNoVerbList|, |\AddToMacro| etc.;
405
406
                          corr. \AddToMacro;
407
                          \lastskip-fix of \niceverb_ignore,
                          another fix of \niceverb_noindent
408
             2010/03/19
                          another fix of \niceverb_ignore: \spacefactor
409
            2010/03/20
                          ... again: \niceverb_spacefactor
410
411
412
     NOT DISTRIBUTED, just stored saved as separate version
413
     v0.31 2010/03/20
                          right quote feauture: letters get \sfcode=1001
414
                          'column title' -> 'page headers', \ctanpkgref
415
416
     NOT DISTRIBUTED, just stored as separate version
417
418
419
     v0.32 2010/03/21
                          taking best things from v0.30 and v0.31
420
            2010/03/23
                          removed \relax from \IfTypesetting
     SENT TO CTAN
421
422
423
     v0.4
            2010/03/27
                          restoring '_' with "auto mode" safer
            2010/03/28
                          \AddToNoVerbList
424
                          note above, renamed v0.4
425
            2010/03/29
426
     SENT TO CTAN
427
428
     v0.41 2010/04/03
                          v0.33 -> v0.4
429
            2010/04/05
                          corrected \AutoCmdInput list
     SENT TO CTAN as part of NICETEXT release r0.41
430
431
432
     v0.41a 2010/11/09 typo corrected
433
     v0.42 2010/12/30 corr. ' ` emulation in auto mode
434
            2010/12/31 \MetaVar in ...maybe_meta...
435
            2011/01/19
                         '...' fix
            2011/01/24 \ctanpkgref moves to texlinks.sty
436
            2011/01/26 update (C)
437
```

```
438
     with nicetext RELEASE r0.42
     v0.43 2011/05/09 \gt, \lt
439
            2011/05/27 \cs uses \@backslashchar
440
            2011/06/20 \MakeActiveLetHere in \nice_maybe_meta_verb !!!
441
            2011/06/27 2011/05/27 undone
442
            2011/08/20 'r0.42', 'v0.43'
443
444
     with nicetext RELEASE r0.43
     v0.44 2011/09/09 \AddQuotes, \DontAddQuotes
445
     with nicetext RELEASE r0.44
446
     v0.45 2011/11/05 mod. \niceverb_collect_egroup/\VerticalCmdBox,
447
                         tried \output problem without avail
448
            2011/12/05 clarified "r0.44"
449
     with nicetext RELEASE r0.5
450
     v0.5 2012/08/27 using 'catcodes', \providecommand\CatCode,
451
                         rm. \AssignCatCodeTo, \private_letters
452
            2012/08/28 fixed \private_letters;
453
                        rewording for filling lines
454
            2012/09/27 corrections about \MakeActive...
455
456
```