THE CNLTX BUNDLE

Documentation for LATEX 2ε Packages or Classes

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LATEX tools and documenting facilities the CN way

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A versatile bundle of packages and classes for consistent formatting of control sequences, package options, source code examples, and writing a package manual (including an index containing the explained control sequences, options, ...).

The bundle also provides several other small ideas of mine such as a mechansim for providing abbreviations *etc*. Not at least it provides a number of programming tools.

Table of Contents

I.	About The Bundle	3		5.2.	Versioning Commands, Li-	
					censing and Related Stuff	8
1.	Background	3		5.3.	Input Source Code Files	9
2.	Bundled Packages, Classes and		6.	Avai	ilable Environments	10
	Files	4		6.1.	Description Environments	10
3∙	License and Requirements	5		6.2.	Source Code Environments	11
			7.	Usaş	ge of the Various Functions	12
II.	Details of Available Commands, Environments and Options			7.1.	Command Descriptions	12
•••				7.2.	Option Descriptions	13
		6		7.3.	Environment Descriptions	15
		Ū		7.4.	Code Examples	16
4.	Options and Setup			7.5.	Example File	18
				7.6.	Additional Functionality Pro-	
5.	Available Commands	6			vided by CNLTX-BASE	18
	5.1. Description of Macros, Envi-				7.6.1. Looking for Trailing	
	ronments and Options	6			Punctuation	19

		7.6.2.	Counter Representa-			10.2. listings	36
			tion Commands	20		10.2.1. LATEX Sourcecode	36
		7.6.3.	Expandable Document			10.2.2. BBTEX Entries	38
		A dditia	Commands	22		10.2.3. makeindex Style Files .	39
	7.7.	vided b	y CNLTX-TOOLS	22	11.	PDF Strings and hyperref	39
		7.7.1. 7.7.2. 7.7.3.	Commands for Defining Different Document Macros Defining Abbreviations Predefined Abbreviations	22 24 24	12.	Predefined Colors and Color-Schemes 12.1. Explicitly Defined Colors 12.2. Actual Used Color Names and Color Schemes	40 40
8.	Forr	natting	Possibilities	26			
	8.1.	Format	ting by Redefining Hooks	27	13.	. Language Support	42
	8.2.	Format	ting by Setting Options	27			
9.	Commands, Options and Further Settings Directly Related to the CNLTX-DOC Class				Ш	. Appendix	42
					A.	Internal Helper Commands	42
				29		A.1. Defined by CNLTX-BASE	44
	9.1. 9.2.	_	Class Options ation on the Described	29		A.1.1. Related to the Bundle .	44
	9.2.		e or Class	29		A.1.2. Programming Tools	44
	9.3.	_	g of the Manuals Title	29		A.2. Defined by CNLTX-DOC	46
	<i>y</i> •3•			30		A.3. Defined by CNLTX-EXAMPLE	47
	9.4.		ation Environment	30		A.4. Defined by CNLTX-LISTINGS	48
	9.5.	Predefi	ned Preamble	32		A.5. Defined by CNLTX-TOOLS	49
	9.6.	.6. Predefined Indexing		33	R	B. List of Known LATEX Control Se-	
	9.7.	U	raphy with biblatex	34	ъ.	quences	50
		9.7.1.	Bibliography Entry			4	J -
			Types package, class		C.	List of Known LATEX Environments	55
		0.7.4	and bundle for biblatex	34			
		9.7.2.	* =	34 35		List of Known LATEX Environments List of Entries in cnltx.bib	55 55
10		lefined	and bundle for biblatex	35	D.		
10	Style	lefined es	and bundle for biblatex Automatic Bibliography		D. E.	List of Entries in cnltx.bib	55

Part I.

About The Bundle

1. Background

The CNLTX bundle contains different packages and classes.¹ I developed it as a successor of my class cnpkgdoc [Nie13b] that I used until now for writing the documentation of my packages. The intention behind the new bundle is a cleaner interface and less unnecessary ballast, hence the separation into packages and classes. This is actually a bit of a contradiction: the document class CNLTX-DOC loads all packages of the bundle which makes it more feature-rich than cnpkgdoc eber used to be. The bundle provides source code environments that also print the output and defines quite a lot of macros for formatting of control sequence names, package names, package options and so on.

Part of the motivation is also that users have asked me how I created the manuals for my packages. Now I can refer to this bundle.

Another reason for the splitting into separate packages is – besides the advantage of easier maintenance – is that I wanted to add programming tools that I often use into CNLTX-BASE which may allow me (and others) to use them for other packages, too, without having to define them each time. So it is quite likely that CNLTX-BASE will get extended in the future.

The bundle provides listings style for LaTeX code, bibliography database files and index style files. It provides a bibliography citation and bibliography style closely linked to CNLTX-DOC. It provides a bibliography database file containing many LaTeX packages. It provides... Let's stop here. You see that the bundle provides a lot of different features which explains why this manual is more than 50 pages long.

The most detailed documentation for the bundle is as always the source code of the sty and cls files but I'm trying to provide a documentation as comprehensive as possible. Reading the source files may show how things are implemented but the intended use only becomes clear when you read this manual.

The bundle reflects the fact that I haven't started using literate programming, yet. I don't use docstrip and don't write dtx files but always write the sty or cls files directly. I write the manual always at the same time but as a separate file. While I'm entirely aware of the advantages of literate programming I never could bring myself to start to use it myself. As a consequence I have no idea if this bundle can be used for it or not.

Source code formatting is done with the help of the powerful listings package [HM13] by Carsten Heinz and later Brooks Moses, now maintained by Jobst Hoffmann. The only real drawback I have found with it is recognizing starred und un-starred versions of an environment as different keywords. This does not seem to be possible which is why indexing of such environments will lead to wrong page numbers.

The fancy frames of the source code examples are realized with the mdframed package by Marco Daniel [Dan13], loaded with the option framemethod = tikz.

^{1.} Well, one class for the time being,

Besides all this I included some other ideas of mine in this bundle which are all provided by **CNLTX-TOOLS**. This includes a mechansim for defining clever abbreviations or macros that make it easy to index names the same way biblatex does.

2. Bundled Packages, Classes and Files

The CNLTX bundle currently bundles the following packages, classes and files:

- CNLTX-BASE a package that defines base macros for error-messaging, expansion control, tokenlist manipulation and defining of expandable macros. It also provides color definitions and defines a few color schemes for the CNLTX-DOC class. All other packages and classes of the CNLTX bundle load this package. This package can be used stand-alone. \usepackage{cnltx-base}
- CNLTX-DOC a class for writing package manuals. Loads CNLTX-EXAMPLE and CNLTX-TOOLS and implicitly all other files of the bundle.
 \documentclass{cnltx-doc}
- CNLTX-EXAMPLE a package that defines macros and environments for describing control sequences and options and for including source code. Loads CNLTX-LISTINGS. This package can be used stand-alone.

 \usepackage{cnltx-example}

Introduced in version 0.4

• CNLTX-LISTINGS — a package that defines the listings language 'BibTeX'. Also defines a list of highlighted control sequence names and environment names, loaded by CNLTX-EXAMPLE. The additional control sequence and environment names used to be defined in CNLTX-CSNAMES. That package got removed and its contents are now provided by CNLTX-LISTINGS. This package can be used stand-alone. \usepackage{cnltx-listings}

Introduced in version 0.2

- CNLTX-TOOLS a package that defines tools used by CNLTX-DOC that are unrelated to LATEX documentation *per se*. This package can be used stand-alone. \usepackage{cnltx-tools}
- cnltx.ist an index style file that is used when the option add-index for CNLTX-DOC is activated and the option index-style is not used.
- Introduced in version 0.4
- cnltx.bib a bibliography file that contains a small but growing number of package entries. Used by CNLTX-DOC when the add-bib is used.

Introduced in version 0.4

• cnltx.bbx, cnltx.cbx and cnltx.dbx – files related to the biblatex style cnltx. The biblatex style defined in those files is used when the add-bib for CNLTX-DOC is used.

3. License and Requirements

Permission is granted to copy, distribute and/or modify this software under the terms of the LATEX Project Public License (LPPL), version 1.3 or later (http://www.latex-project.org/lppl.txt). The software has the status "maintained."

The CNLTX-BASE package loads the following packages: pgfopts² [Wri11], etoolbox³ [Leh11], ltxcmds⁴ [Obe11b], trimspaces⁵ [Robo9] and xcolor⁶ [Ker07].

The CNLTX-DOC class loads the packages CNLTX-BASE, CNLTX-EXAMPLE, ulem⁷ [Ars11], translations [Nie13d], multicol⁸ [Mit11], ragged2e⁹ [Scho9], marginnote¹⁰ [Koh12] and hyperref¹¹ [OR12]. It is a wrapper class for the KOMA-Script class scrartcl¹² [KN12]. The class has the option load-preamble which when used will load additional packages, see section 9.5 on page 32 for details.

The CNLTX-EXAMPLE package loads the packages: CNLTX-BASE, CNLTX-LISTINGS, CNLTX-TOOLS, translations, and mdframed [Dan13] and idxcmds [Nie13c].

The CNLTX-LISTINGS package loads the packages CNLTX-BASE, listings¹⁶ [HM13] and catchfile¹⁷ [Obe11a].

The CNLTX-TOOLS package loads the packages CNLTX-BASE and accsupp 18 [Obe10].

All other packages that are loaded are loaded by the mentioned packages and not directly by any of the packages or classes of the CNLTX bundle. Like all of my packages CNLTX implicitly relies on an up to date TeX distribution.

^{2.} on CTAN as pgfopts: http://mirrors.ctan.org/macros/latex/contrib/pgfopts/

^{3.} on CTAN as etoolbox: http://mirrors.ctan.org/macros/latex/contrib/etoolbox/

^{4.} on CTAN as oberdiek: http://mirrors.ctan.org/macros/latex/contrib/oberdiek/

^{5.} on CTAN as trimspaces: http://mirrors.ctan.org/macros/latex/contrib/trimspaces/

^{6.} on CTAN as xcolor: http://mirrors.ctan.org/macros/latex/contrib/xcolor/

^{7.} on CTAN as ulem: http://mirrors.ctan.org/macros/latex/contrib/ulem/

^{8.} on CTAN as multicol: http://mirrors.ctan.org/macros/latex/required/tools/multicol/

^{9.} on CTAN as ragged2e: http://mirrors.ctan.org/macros/latex/contrib/ms/ragged2e/

^{10.} on CTAN as marginnote: http://mirrors.ctan.org/macros/latex/contrib/marginnote/

^{11.} on CTAN as hyperref: http://mirrors.ctan.org/macros/latex/contrib/hyperref/

^{12.} on CTAN as koma-script: http://mirrors.ctan.org/macros/latex/contrib/koma-script/

 $^{13.\} on\ \texttt{CTAN}\ as\ \texttt{translations:}\ \texttt{http://mirrors.ctan.org/macros/latex/contrib/translations/latex/contrib/translations/latex/contrib/translations/latex/contrib/translations/latex/lat$

^{14.} on CTAN as mdframed: http://mirrors.ctan.org/macros/latex/contrib/mdframed/

^{15.} on CTAN as idxcmds: http://mirrors.ctan.org/macros/latex/contrib/idxcmds/

^{16.} on CTAN as listings: http://mirrors.ctan.org/macros/latex/contrib/listings/

^{17.} on CTAN as catchfile: http://mirrors.ctan.org/macros/latex/contrib/catchfile/

^{18.} on CTAN as accsupp: http://mirrors.ctan.org/macros/latex/contrib/oberdiek/accsupp/

Part II.

Details of Available Commands, Environments and Options

4. Options and Setup

The CNLTX bundle has a large number of options. The CNLTX-DOC class only knows a few options (described in section 9.1 on page 29) as *class* options, though. All other options regardless if they're defined by a package or a class can and should be set with the setup command:

$\strut_{\langle options \rangle}$

Setup command for the CNLTX bundle. This command is provided by CNLTX-BASE.

The source code environments defined by the **CNLTX-EXAMPLE** package also have optional arguments that can be used to set the options for the environment locally.

5. Available Commands

5.1. Description of Macros, Environments and Options

provided by CNLTX-EXAM-PLE

The commands described in this section all are provided by the CNLTX-EXAMPLE package. They all are related to the typesetting of provided macros, options and the like.

$\code{\langle arg \rangle}$

Formatting of source code. This is *no* verbatim command. Used internally in the following commands.

$\ensuremath{\mbox{verbcode}}\langle char \rangle \langle code \rangle \langle char \rangle$

Introduced in version 0.2

A verbatim command that uses the same formatting as the source code example environments, *cf.* section 7.4. This is a wrapper for **\lstinline** which loads the corresponding style.

```
\csin (name)
```

Format the control sequence $\langle name \rangle$, \cs{name}: \name. Adds a corresponding index entry. The starred form does not add an index entry.

$\csidx{\langle name \rangle}$

Adds an index entry but does not typeset the control sequence $\langle name \rangle$.

$\ensuremath{\mbox{env}*} \{\langle name \rangle\}$

Format the environment $\langle name \rangle$, \env{name}: name. Adds a corresponding index entry with a hint that the entry refers to an environment. The starred form does not add an index entry.

$\ensuremath{\mbox{envidx}} \langle name \rangle$

Adds an index entry but does not typeset the environment $\langle name \rangle$.

5. Available Commands

```
\mbox{meta}\{\langle meta\rangle\}
                                                    Description of an argument, \mbox{meta}{\mbox{meta}}: \mbox{meta}.
                                            \marq{\langle arg \rangle}
                                                    A mandatory argument. \langle arg \rangle is formatted with \meta if it is not blank, \marq{arg}: \{\langle arg \rangle\}.
                                            \Marg{\langle arg \rangle}
Introduced in
                                                    A mandatory argument. \langle arg \rangle is formatted with \code if it is not blank, \Marg{arg}: {arg}.
version 0.2
                                            \langle arg \langle arg \rangle 
                                                   An optional argument. \langle arg \rangle is formatted with \meta if it is not blank, \oarg{arg}: [\langle arg \rangle].
                                            \backslash 0arg\{\langle arg \rangle\}
Introduced in
                                                     An optional argument. \langle arg \rangle is formatted with \code if it is not blank, \Oarg{arg}: [arg].
version o.2
                                            \langle arg \{ \langle arg \rangle \}
                                                    An argument with parentheses as delimiters. \langle arg \rangle is formatted with \meta if it is not blank,
                                                     \darg{arg}: (\langle arg \rangle).
                                            \Darg{\langle arg \rangle}
                                                    An argument with parentheses as delimiters. \langle arg \rangle is formatted with \code if it is not blank,
Introduced in
version 0.2
                                                     \Darg{arg}: (arg).
                                            \sarq
                                                    An optional star argument, \sarg: *.
                                            \ordressip \langle name \rangle
                                                    An option \langle name \rangle, \backslash option\{name\}: name. Adds a corresponding index entry. The starred form
                                                    does not add an index entry.
                                            \operatorname{\operatorname{Noptionidx}}\{\langle name \rangle\}
                                                    Adds an index entry but does not typeset the option \langle name \rangle.
                                            \mbox{\mbox{module}*} \{\langle name \rangle\}
                                                    A module \langle name \rangle, \module {name}: name. Adds a corresponding index entry. The starred form
                                                    does not add an index entry. In some of my packages I like to organize options by grouping
                                                     them in different classes that I call "modules". This command refers to those modules.
                                            \mbox{\mbox{moduleidx}} {\mbox{\mbox{\mbox{}}}}
                                                    Adds an index entry but does not typeset the option \langle name \rangle.
                                            \key* - {\langle name \rangle} {\langle value \rangle}
                                                    A key (name) with value (value), the optional star prevents an index entry, the optional - strips
                                                    the braces around \langle value \rangle; \langle value \rangle;
                                                     ⟨value⟩
                                            \langle \text{keyis} * \{\langle name \rangle\} \{\langle value \rangle\}
                                                    A key \langle name \rangle set to value \langle value \rangle, the optional star prevents an index entry, \langle key\{keyis\}\{value\}\}:
Introduced in
version 0.2
                                                     key = value.
```

```
\choices{\langle clist\ of\ choices\rangle}
  A list of choices, \choices {one, two, three}: one | two | three
\choicekey{\langle name \rangle} {\langle clist\ of\ choices \rangle}
  A key \langle name \rangle with a list of possible values, \langle choicekey \} \{ one, two, three \}: key = one |
  two|three
\boolkey{\langle name \rangle}
  A boolean key \langle name \rangle with choices true and false, \langle boolkey \} key = \langle true | false \rangle
\default{\langle value \rangle}
  Markup for a default choice, \choices {one, \default {two}, three}: one | two | three
  5.2. Versioning Commands, Licensing and Related Stuff
  The commands described in this section are provided by the CNLTX class except where indicated
  differently. These commands are related to information about the legal stuff of a package and
  where to find it on th world wide web.
\sinceversion{\langle version \rangle}
  Gives a sidenote like the one on the left.
\changedversion{\langle version \rangle}
  Gives a sidenote like the one on the left.
\newnote*{\langle cs \rangle}[\langle num \rangle][\langle optional \rangle]{\langle definition \rangle}
  Defines a note like \sinceversion. The syntax of the command is the same as the one of
  \newcommand. \sinceversion was defined as follows:
  \newnote*\sinceversion[1]{Introduced in version~#1}
\newpackagename{\langle cs \rangle} {\langle name \rangle}
  Define a comand \langle cs \rangle that prints \langle name \rangle formatted like CNLTX, i. e. in small caps and colored
  with the color cnltx (see section 12.2).
  Typesets "LPPL" and adds a corresponding index entry.
  Typesets "LATEX Project Public License" and adds the same index entry as \lppl.
Default: maintained
  Typesets 'Permission is granted to copy, distribute and/or modify this software under the terms
  of the LATEX Project Public License (LPPL), version 1.3 or later (http://www.latex-project.
  org/lppl.txt). The software has the status "maintained.". The un-starred variant adds a \par.
```

\ctan

provided by

CNLTX-DOC

Introduced in version o.o

Changed in version o.o

Changed in version 0.2

Typesets "CTAN" and adds a corresponding index entry.

```
\CTAN
                  Typesets "Comprehensive TFX Archive Network" and adds the same index entry as \ctan.
                \pkg*{\package\}
                  Format the package name \(\langle package \rangle\) and add an index entry. The starred variant adds nothing
provided by
CNLTX-EXAM-
                  to the index.
PLE
                \pkgidx{\package\}
                  Add an index entry for the package \langle package \rangle.
provided by
CNLTX-EXAM-
               \cls*{\langle class \rangle}
PLE
                  Format the class name (class) and add an index entry. The starred variant adds nothing to the
provided by
CNLTX-EXAM-
                  index.
PLE
                \clsidx{\langle class\rangle}
provided by
                  Add an index entry for the class \langle class \rangle.
CNLTX-EXAM-
PLE
               \CTANurl[\langle directory \rangle] \{\langle name \rangle\}
                  Writes a CTAN link like the ones in section 3 on page 5 in the footnotes. The predefined directory
                  is macros/latex/contrib. The link address will be:
                  http://mirrors.ctan.org/\langle directory \rangle / \langle name \rangle /.
                \needpackage[\langle directory \rangle] \{\langle name \rangle\}
                  A wrapper for \pkg{#2}\footnote{\CTANurl[#1]{#2}}
Introduced in
version o.2
                \needclass[\langle directory \rangle] \{\langle name \rangle\}
                  A wrapper for \cls{#2}\footnote{\CTANurl[#1]{#2}}
Introduced in
version 0.2
                        1 \newpackagename{\foothree}{foo-3}%
                        2 now \foothree\ looks like \cnltx.
                           now FOO-3 looks like CNLTX.
```

5.3. Input Source Code Files

Similar to the environments described in section 6.2 on page 11 CNLTX-EXAMPLE provides a few commands for inputting source code files, formatting and printing the source code and inputting the file directly.

```
\input example [\langle options \rangle] \{\langle file name \rangle\}
```

The equivalent of the example environment, see section 6.2 on page 11.

```
\inputsidebyside[\langle options \rangle] \{\langle file\ name \rangle\}
```

The equivalent of the sidebyside environment, see section 6.2 on page 11.

```
\inputsourcecode[\langle options \rangle] \{\langle file name \rangle\}
```

The equivalent of the sourcecode environment, see section 6.2 on the following page.

```
\ightharpoonup \label{limit} $$ \ightharpoonup \end{substitute} $$ \ightharpoonup \e
```

Introduced in version 0.5

A wrapper for \lstinputlisting[style=cnltx,#1]{#2}

It is possible to define further commands like this:

```
\mbox{\ensuremath{\sf newinputsourcefilecmd[\langle option \rangle] \{\langle control \ensuremath{sequence} \rangle\}}
```

Defines *(control sequence)* as a new source code input command where *(options)* are preset.

The existing commands have been defined like this:

- newinputsourcefilecmd\inputexample
- 2 \newinputsourcefilecmd[side-by-side]\inputsidebyside
- 3 \newinputsourcefilecmd[code-only]\inputsourcecode

6. Available Environments

6.1. Description Environments

CNLTX-DOC defines some description environments used to describe macros, environments or options.

\begin{commands}

A description-like environment for describing commands. While this environment is a list internally and thus recognizes \item own commands are used to describe macros. They are explained in section 7.1 on page 12.

\begin{options}

A description-like environment for describing options. While this environment is a list internally and thus recognizes \item own commands are used to describe options. They are explained in section 7.2 on page 13.

\begin{environments}

A description-like environment for describing environments. While this environment is a list internally and thus recognizes \item own commands are used to describe environments. They are explained in section 7.3 on page 15.

These environments are lists all using the same internal \list. The setup of this list can be changed via an option:

```
list-setup = \{\langle definitions \rangle\}
```

Default: \leftmargin=0pt \labelwidth=2em \labelsep=0pt \itemindent=-1em The setup of the \list used by the commands, options and environments environments.

6.2. Source Code Environments

CNLTX-EXAMPLE defines the following environments that are used to display source code and possibly the output of the source code, too.

```
\operatorname{begin}\{\operatorname{example}\}[\langle \operatorname{options}\rangle]
```

This environment is a formatted verbatim environment that also inputs the output of the inputted code. This environment is described in section 7.4 on page 16.

```
\begin{sidebyside}[\langle options \rangle]
```

This environment is a formatted verbatim environment that also inputs the output of the inputted code. Source and output are printed side-by-side. This environment is described in section 7.4 on page 16.

```
\begin{sourcecode}[\langle options \rangle]
```

This environment is a formatted verbatim environment. This environment is described in section 7.4 on page 16.

Introduced in version 0.2

In each of these environments certain hooks are provided that can be used to add definitions you like:

```
pre-code = {\langle definitions\rangle}
  \langle definitions\rangle are placed before the source code is inserted.

after-code = {\langle definitions\rangle}
  \langle definitions\rangle are placed after the source code is inserted.

pre-output = {\langle definitions\rangle}
  \langle definitions\rangle are placed before the output of the source code is inserted.

after-output = {\langle definitions\rangle}
  \langle definitions\rangle are placed after the output of the source code is inserted.
```

It is possible to define further environments like this:

```
\newsourcecodeenv[\langle option \rangle] \{\langle name \rangle\}
```

Defines $\langle name \rangle$ as a new source code environment where $\langle options \rangle$ are preset.

The existing environments have been defined like this:

```
1 \newsourcecodeenv{example}
2 \newsourcecodeenv[side-by-side]{sidebyside}
3 \newsourcecodeenv[code-only]{sourcecode}
```

7. Usage of the Various Functions

7.1. Command Descriptions

Inside of the environment commands that was introduced in section 6.1 on page 10 items are input via the following command:

```
\command*{\langle name \rangle} [\langle stuff after \rangle]
```

This macro formats a control sequence with \cs and puts a line break after it. The optional argument allows printing things directly after the command name and can thus be used for adding arguments. The star prevents the creation of an index entry.

```
\Default*!{\langle code \rangle}
```

Changed in version 0.3

This command can be placed after \command or \opt in order to give a default definition of a macro or a default value of an option. The definition will then be placed on the same line flush right. The star prevents the insertion of \newline after it. The optional bang adds the information that an option is mandatory, i. e. has to be set.

\expandable

Introduced in version 0.5

Adds the symbol * to the left of a command in the margin to indicate that the command is expandable. This command should be used immediately before \command.

Introduced in version 0.5

Adds the symbol * to the left of a command in the margin to indicate that the command is not expandable. This command should be used immediately before \command.

\expandablesign

Default: \textasteriskcentered

Introduced in version 0.5

The macro that holds the sign used by \expandable and \unexpandable.

```
1 \begin{commands}
    \command{cs}
      This is about foo bar baz.
    \command{cs}[\marg{arg}]
      This one has an argument.
    \command{cs}[\sarg\oarg{option}]
     This has a star variant and an optional argument.
    \command{cs}\Default{foo bar}
      This one has the default replacement text \code{foo bar}
    \expandable\command{cs}
      This macro is expandable.
12 \end{commands}
```

This is about foo bar baz.

```
\cs{\langle arg \rangle}
```

This one has an argument.

```
\csin (option)
```

This has a star variant and an optional argument.

\cs Default: foo bar

This one has the default replacement text foo bar

\c

This macro is expandable.

The \expandablesign can of course be redefined to something else you like better. For the sake of completeness there is an option that does exactly this:

```
expandable-sign = \{\langle definition \rangle\}
```

Default: \textasteriskcentered

Introduced in Redefines \expandablesign to $\langle definition \rangle$. version 0.5

7.2. Option Descriptions

The options environment knows a few more commands to meet all the different kinds of options.

\opt*

An option. The star prevents an index entry.

```
\keyval*-\{\langle key\rangle\}\{\langle value\rangle\}
```

A key/value option. The optional star prevents an index entry. The optional - strips the braces around $\langle value \rangle$, see the example below.

```
\keychoice*{\langle key \rangle}{\langle list\ of\ choices \rangle}
```

A key/value option where the value is one of a list of choices. The star prevents an index entry.

```
\keybool*{\langle name \rangle}
```

A boolean key, that ist a choice key with choices true and false. The star prevents an index entry.

```
\Default*!{\langle code \rangle}
```

Changed in version 0.3

This command can be placed after \command or \opt (or any of the other commands for adding an option to the options list) in order to give a default definition of a macro or a default value of an option. The definition will then be placed on the same line flush right. The star prevents the insertion of \newline after it. The optional bang adds the information that an option is mandatory, *i. e.*, it has to be set.

```
\Module*!\{\langle name \rangle\}
```

Introduced in version 0.3

This command can be placed after **\option** but before **\Default** in order to determine the module the option belongs to. It will be written in the left margin next to the option name. The star prevents the insertion of **\newline** after it. The optional bang *adds* an index entry for the

module. This is somehow inconsistent with many of the other commands where an optional star *prevents* an index entry but it fits to the functionality of \Default which is why this syntax was chosen.

The following demonstrates how the commands would be used to create option descriptions:

```
1 \begin{options}
    \opt{foo}
      This makes stuff. Let's add a few more words so that the line gets
      filled and we can see how the output actually looks.
    \opt*{foo}\Default{bar}
      This makes stuff. Let's add a few more words so that the line gets
      filled and we can see how the output actually looks.
    \opt{foo}\Module{bar}
      This option belongs to \module*{bar}. Let's add a few more words so
      that the line gets filled and we can see how the output actually
10
      looks.
11
    \opt{foo}\Module{bar}\Default{baz}
      This option belongs to \module*{bar}. Let's add a few more words so
13
      that the line gets filled and we can see how the output actually
14
    \keyval{foo}{bar}\Default
16
      This makes stuff. Let's add a few more words so that the line gets
17
      filled and we can see how the output actually looks.
    \keyval{foo}{bar}\Default!
      This makes stuff. Let's add a few more words so that the line gets
      filled and we can see how the output actually looks.
21
    \keyval*{foo}{bar}
      This makes stuff. Let's add a few more words so that the line gets
      filled and we can see how the output actually looks.
24
   \keyval-{foo}{bar}
      This makes stuff. Let's add a few more words so that the line gets
      filled and we can see how the output actually looks.
    \keychoice{foo}{one,two,three}
28
      This makes stuff. Let's add a few more words so that the line gets
      filled and we can see how the output actually looks.
    \keybool{foo}
31
      This makes stuff. Let's add a few more words so that the line gets
      filled and we can see how the output actually looks.
34 \end{options}
```

The code above gives the following output:

foo

This makes stuff. Let's add a few more words so that the line gets filled and we can see how the output actually looks.

foo Default: bar

This makes stuff. Let's add a few more words so that the line gets filled and we can see how the output actually looks.

bar » foo

This option belongs to the module bar. Let's add a few more words so that the line gets filled and we can see how the output actually looks.

bar » foo Default: baz

This option belongs to the module bar. Let's add a few more words so that the line gets filled and we can see how the output actually looks.

 $foo = \{\langle bar \rangle\}$ (initially empty)

This makes stuff. Let's add a few more words so that the line gets filled and we can see how the output actually looks.

 $foo = \{\langle bar \rangle\}$ (required)

This makes stuff. Let's add a few more words so that the line gets filled and we can see how the output actually looks.

 $foo = \{\langle bar \rangle\}$

This makes stuff. Let's add a few more words so that the line gets filled and we can see how the output actually looks.

 $foo = \langle bar \rangle$

This makes stuff. Let's add a few more words so that the line gets filled and we can see how the output actually looks.

foo = one|two|three

This makes stuff. Let's add a few more words so that the line gets filled and we can see how the output actually looks.

foo = true|false

This makes stuff. Let's add a few more words so that the line gets filled and we can see how the output actually looks.

7.3. Environment Descriptions

Environment descriptions are made – unsurprisingly – with the environments environment. It knows the command \environment:

```
\environment*\{\langle name \rangle\} [\langle stuff after \rangle]
```

This macro prints the environment name and puts a line break after it. The optional argument allows printing things directly after the environment name and can thus be used for adding arguments.

```
    \begin{environments}
    \environment*{foobar}[\oarg{options}]
    This is environment \env*{foobar}. The star prevents it from being
    added to the index.
    \end{environments}

\begin{foobar}[\langle options \rangle]
    This is environment foobar. The star prevents it from being added to the index.
```

7.4. Code Examples

Code examples can be included through the example environment or the sourcecode environment. The sourcecode only shows the piece of LaTeX code while the example environment also shows the output of the LaTeX code.

```
1 \begin{example}
2 a \LaTeX\ code example
3 \end{example}
```

This example would give:

```
a LATEX code example
```

Both environments can be influenced by options:

```
code-only = true|false
```

Default: false

Only typeset the code as code but don't include it afterwards. The code box above is an example for the usage of this option. This option has no effect on the sourcecode environment: is is already set for this environment.

```
side-by-side = true|false
```

Default: false

Typeset source and output side by side. The code is input on the left and the output on the right. Side by side examples are typeset in minipage environments with all consequences that come with them (think of \parindent, page breaks ...). Since a minipage cannot be broken across pages the surrounding mdframed frame gets the option nobreak = true. This option has no effect on the sourcecode environment.

```
code-left = true|false
```

Default: true

If true and the option side-by-side is chosen the source code is printed on the right side else on the left. This option has no effect on the sourcecode environment.

```
code-sep = \{\langle definition \rangle\}
```

Default: \hrulefill

Code that is inserted between a source code and the corresponding output when printed below each other. This option has no effect on the sourcecode environment.

The same example again, this time using side-by-side (which is the same as using the sidebyside environment):

```
1 a \LaTeX\ code example
```

a LATEX code example

side-by-side and code-left = false:

```
a L<sup>A</sup>T<sub>E</sub>X code example
```

₁ a \LaTeX\ code example

The frame around the examples is done by the mdframed package [Dan13]. It is of course possible to customize it:

```
add-frame-options = \{\langle mdframed \ options \rangle\}
```

(initially empty)

Add options to the predefined settings.

```
frame-options = \{\langle mdframed \ options \rangle\}
```

Default: backgroundcolor=cnltxbg,linecolor=cnltx,roundcorner=5pt Overwrite the settings with new ones.

The source code is formatted using the great listings package [HM13] by Carsten Heinz, Brooks Moses, and Jobst Hoffmann. Similar options exist to adapt listings' options that are used for formatting the source code. The predefined style has many options that will not be mentioned here. If you're interested you can find them in cnltx-example.sty or in section 10.2.1 on page 36.

```
gobble = \langle integer \rangle Default: 2
```

The number of initial characters that is gobbled from each line.

```
add-cmds = \{\langle list \ of \ csnames \rangle\}
```

(initially empty)

A list of control sequence names that should be recognized as a command sequence in the source code examples and should be formatted accordingly. The control sequence names in this list will also get an index entry when they're used in the source example. This is done internally via \csidx. The option should be used to add the new commands that are defined by the package for which you are writing the manual for.

```
add-silent-cmds = {\langle list \ of \ csnames \rangle}
```

A list of control sequence names that should be recognized as a command sequence in the source code examples and should be formatted accordingly. The control sequence names in this

list will *not* get an index entry when they're used in the source example. There already is quite a large but far from comprehensive list of silent commands but many are still missing. This option allows you to extend the list on a per document basis.

```
add-listings-options = {\langle listings options \rangle}  (initially empty)
```

Additional options for the listings [HM13] environments. This redefines the cnltx listings style which will affect all sourcecode environments!

```
listings-options = {⟨listings options⟩}
```

Overwrite existing options with new ones. This can be used to build an own style from scratch. This redefines the cnltx listings style which will affect all sourcecode environments!

```
sourcecode-options = \{\langle listings \ options \rangle\}
```

Introduced in version 0.4

These options are added to the listings options of the source code environments without redefing the main style. Hence it can be used to locally add options to a source code environment.

```
add-envs = {\langle list of environment names\rangle}
Like add-cmds but for environment names.

add-silent-envs = {\langle list of environment names\rangle}
Like add-silent-cmds but for environment names.
```

7.5. Example File

Let's say you're documenting a package called mypackage that provides the command \mycommand and the environment myenv. The basic manual setup could then look something like this:

```
1 \documentclass[load-preamble]{cnltx-doc}
2 \usepackage[T1]{fontenc}
3 \usepackage[utf8]{inputenc}
4 \setcnltx{
5 package = mypackage ,
6 authors = John Doe ,
7 email = john@doe.com ,
8 add-cmds = {mycommand} ,
9 add-envs = {myenv}
10 }
11 \begin{document}
12 ...
13 \end{document}
```

7.6. Additional Functionality Provided by CNLTX-BASE

The **CNLTX-BASE** package's main purpose is to provide programming facilities. Most of its macros are listed in section A.1. However, I like to explain some of its features in a bit more detail.

7.6.1. Looking for Trailing Punctuation

The command \cnltx@ifpunctuation is is a conditional that detects if a punctuaction mark follows and acts depending on it. What counts as a punctuation mark can be set by the user.

The starred version does not gobble the trailing punctuation while the unstarred does. That's why in the unstarred version you can also use \cnltx@trailpunct to access the gobbled punctuation mark. The optional argument sets the punctuation marks that should be considered for this use only.

```
set-trail-punct = \{\langle punctuation \ marks \rangle\}
```

Default: , . ! ?;:

Sets the default list of punctuation marks that should be checked if the optional argument of \cnltx@ifpunctuation is not used.

The usage is probably self-explaining:

```
    \makeatletter
    \cnltx@ifpunctuation{(test\cnltx@trailpunct)}{(test)}!\par
    \cnltx@ifpunctuation[.]{(test\cnltx@trailpunct)}{(test)}!\par
    a punctuation mark \cnltx@ifpunctuation*{follows}{doesn't follow}!\par
    a full stop \cnltx@ifpunctuation*[.]{follows}{doesn't follow}!

    (test!)
    (test)!
    a punctuation mark follows!
    a full stop doesn't follow!
```

If the non-starred variant has gobbled a \par the \par is placed back:

```
1 \makeatletter
2 \def\test{\cnltx@ifpunctuation{(test\cnltx@trailpunct)}{(test)}}%
3 \makeatother
4 \test
5
6 \test.
7
8 \test{} .

(test)
(test).
(test).
```

7.6.2. Counter Representation Commands

Background

A counter representation command like \arabic{section} always is a command that calls an associated internal command (\@arabic in the case of our example) that acts on the count associated with the counter:

```
1 \def\arabic#1{\expandafter\@arabic\csname c@#1\endcsname}
2 \def\@arabic#1{\number #1}
```

The command $\arabic \{\langle counter \rangle\}$ builds a command sequence $\c@\langle counter \rangle$ from its argument $\langle counter \rangle$. It then calls the internal command \arabic that takes this command sequence as an argument. The command sequence $\c@\langle counter \rangle$ is the count (in the TEX sense) that is associated with the counter $\langle counter \rangle$, *i. e.*, it holds the actual number. The command \arabic now simply typesets the integer value of the count.

The same holds for every counter representation command. The principle always is as follows:

```
1 \def\foo#1{\expandafter\@foo\csname c@#1\endcsname}
2 \def\@foo#1{do something with #1 (where #1 is a count)}
```

This means in order to get a new counter representation command you actually need to define *two* macros.

CNLTX-BASE defines an interface that allows to define both commands at once without having to think about \expandafter, associated counts, internal command names and so on. The only thing left to do is choosing a name for the counter representation and providing a valid definition of what should happen with the (integer) value of the counter.

New Commands

```
\DeclareCounterRepresentation{\langle command \rangle} {\langle definition \rangle}
```

Declares a new counter representation command and its internal equivalent. In the $\langle definition \rangle$ #1 is used to refer to the counter *number*, that is, the value of \colongle Counter. This command will silently overwrite any existing definition.

```
\mbox{\ensuremath{\sf newcounterrepresentation}} {\ensuremath{\langle command \rangle}} {\ensuremath{\langle definition \rangle}}
```

Defines a new counter representation command and its internal equivalent. In the $\langle definition \rangle$ #1 is used to refer to the counter *number*, that is, the value of \colongle Counter. This command will issue an error if either the user command or the internal command (*cf.* \arabic and \@arabic) already exist.

```
\providecounterrepresentation{\langle command \rangle} {\langle definition \rangle}
```

Provides a new counter representation command and its internal equivalent. In the $\langle definition \rangle$ #1 is used to refer to the counter *number*, that is, the value of \ceo\counter\cappa. This command will

define the commands only if neither the user command nor the internal command (*cf.* \arabic and \@arabic) already exist and will do nothing if either of them exist.

```
\rowvert representation {\langle command \rangle} {\langle definition \rangle}
```

Redefines an existing counter representation command and its internal equivalent. In the $\langle definition \rangle$ #1 is used to refer to the counter *number*, that is, the value of \colongle Counter. This command will issue an error if either the user command or the internal command (*cf.* \arabic and \@arabic) or both already exist.

Let's take a look at what is actually defined by these commands:

```
1 \makeatletter\ttfamily
2 before:\par
3 \meaning\arabic\par
4 \meaning\@arabic
5
6 \renewcounterrepresentation\arabic{\the\numexpr#1\relax}%
7 after:\par
8 \meaning\arabic\par
9 \meaning\@arabic

before:
macro:#1->\expandafter \@arabic \csname c@#1\endcsname
macro:#1->\number #1
after:
macro:#1->\expandafter \@arabic \csname c@#1\endcsname
macro:#1->\the \numexpr #1\relax
```

As you can see nothing bad happens. The commands are only a convenient interface. Let's take a look at some more realistic examples. The above redefinition was only a demonstration. For example you may want to have a representation which calculates the displayed value from the counter value?

```
1 \newcounterrepresentation\minusone{\the\numexpr#1-1\relax}%
2 \newcounterrepresentation\multoffourrm{\romannumeral\numexpr(4*#1)-4\relax}%
3 % \newrobustcmd is provided by the 'etoolbox' package
4 \newrobustcmd*\circlenumber[1]{%
5 \tikz[baseline]\node[anchor=base,draw,shape=circle]{\number#1};}%
6 \newcounterrepresentation\circled{\circlenumber{#1}}%
7 \makeatletter
8 \newcounterrepresentation\twodigits{\two@digits{#1}}%
9 \makeatother
10 \newcounter{test}%
11 \setcounter{test}{9}
```

7.6.3. Expandable Document Commands

The commands presented in this section are highly experimental. *Use them* only *if you really have to!*

 $\newexpandablecmd*{\langle cs \rangle}[\langle num\ args \rangle][\langle default\ opt \rangle]{\langle definition \rangle}$

Introduced in version 0.7

This command has the same syntax as \newcommand. The difference is that if $\langle cs \rangle$ is defined with an optional argument it is still fully expandable. This comes with a cost: in order to still being able to check for the optional argument it needs to see a following token as argument. If it is used without optional argument and has no mandatory arguments it may be necessary to add a trailing \empty or something. There's another drawback: a command \test thus defined cannot distinguish between \test[] and \test{[}] and will misinterpret the second as a present optional argument.

My recommendation is to never use this for defining a user command. ¹⁹ Use it in code you can control and only if you have to.

If you define a command without optional argument this command falls back to \newcommand.

 $\ensuremath{\mbox{renewexpandablecmd}} \{\langle cs \rangle\} [\langle num\ args \rangle] [\langle default\ opt \rangle] \{\langle definition \rangle\}$

Introduced in version 0.7

The equivalent of \renewcommand. See description of \newexpandablecmd for further details. is to \newcommand.

 $\provideexpandablecmd*{\langle cs \rangle}[\langle num\ args \rangle][\langle default\ opt \rangle]{\langle definition \rangle}$

Introduced in version 0.7

The equivalent of \providecommand. See description of \newexpandablecmd for further details.

7.7. Additional Functionality Provided by CNLTX-TOOLS

7.7.1. Commands for Defining Different Document Macros

The **CNLTX-TOOLS** package defines some additional macros which provide useful functionality also in contexts *not* documenting a LATEX package.

```
\newname{\langle cs \rangle}{\langle first name \rangle}{\langle second name \rangle}
```

Defines $\langle cs \rangle$ to write out the full name and add an index entry sorted by the last name. Also defines a starred variant of $\langle cs \rangle$ that only writes the last name but still adds the full index entry.

^{19.} I can see the contradiction here: if a command is no user command there is no need for an optional argument.

7. Usage of the Various Functions

```
\coloredge{cnltxacronym} \{ \langle pdf \ and \ sort \ string \rangle \} \{ \langle acronym \rangle \}
```

Typesets $\langle acronym \rangle$ with small caps and uses $\langle pdf \ and \ sort \ string \rangle$ as PDF string and for sorting the index entry that is added. This command was used to define \lnpl and \ctan. This is not intended as a replacement for packages like acro [Nie13a] or glossaries[Tal13]! In fact it is a "poor man's" solution that allows me not to require one of those packages.

```
\newabbr*{\langle control sequence \rangle} {\langle definition \rangle}
```

Defines the abbreviation $\langle control\ sequence \rangle$ with the definition $\langle definition \rangle$. The star argument prevents that a dot is added at the end of the definition. An error is raised if $\langle control\ sequence \rangle$ already exists.

```
\ensuremath{\verb|renewabbr*||} {\langle control sequence \rangle} {\langle definition \rangle}
```

Redefines the abbreviation $\langle control\ sequence \rangle$ with the definition $\langle definition \rangle$. The star argument prevents that a dot is added at the end of the definition. An error is raised if $\langle control\ sequence \rangle$ does not exist already.

```
\defabbr*{\langle control sequence \rangle}{\langle definition \rangle}
```

Defines or overwrites the abbreviation $\langle control\ sequence \rangle$ with the definition $\langle definition \rangle$. The star argument prevents that a dot is added at the end of the definition.

Used in some predefined abbreviations.

```
\cline{Constraint} \cline{Constraint} Default: \textit{#1}
```

Used in some localization strings.

```
acronym-format = {\langle definition \rangle} Default: \scshape
```

Formatting of the acronyms as typeset with \cnltxacronym.

A short example of the usage of \newname and \cnltxacronym:

```
1 \newname\carlisle{David}{Carlisle}%
2 \carlisle\ is a well-known member of the \LaTeX\ community. \carlisle* is
3 the author of many packages such as \pkg*{longtable}. Take a look in the
4 index where you'll find \carlisle* mentioned.

5 \lpp\\ is defined as \cnltxacronym{LPPL}{lppl}.
```

David Carlisle is a well-known member of the LaTeX community. Carlisle is the author of many packages such as longtable. Take a look in the index where you'll find Carlisle mentioned.

LPPL is defined as LPPL.

7.7.2. Defining Abbreviations

In section 7.7.1 when describing \newabbr and similar commands I said "The star argument prevents that a dot is added at the end of the definition". We should clarify what that means. Many abbreviations end with a dot. Some don't which explains the starred form of the commands. But why add a dot automatically in the first place? The reasoning is two-fold:

- Suppose you add the dot explicitly in the definition but forget one or two times that you did you'll end up with abbreviations followed by *two* dots! Macros defined with CNLTX-TOOLS recognize a following dot and will not print a second one in those cases.
- In a document where \nonfrenchspacing is active the space after a dot in the middle of a sentence should be shorter than the one after the full stop ending a sentence. TeX automatically interprets a dot following a small letter as the end of a sentence and a dot after a capital letter as a dot after an abbreviation inside of a sentence. Usually you solve this by adding \@ in the appropriate places: e.\,g.\@ for a intra-sentence space and NASA\@. for a inter-sentence space. The dot added by CNLTX-TOOLS always will be followed by a intra-sentence space. If you add a dot explicitly it will be your responsibility. Per default it will then act like a dot after a small letter.

Let's see some example:

```
1 \ttfamily% <= this will amplify the visual effect of \nonfrenchspacing
2 \newabbr\ab{a.b}%
3 \newabbr\AB{A.B}%
4 \newabbr*\cd{c.d.}%
5 \ab\ and some words\par
6 \ab. and some words\par
7 \AB\ and some words\par
8 \AB. and some words\par
9 \cd\ and some words</pre>
A.B. and some words
6 \ab. and some words\par
7 \AB\ and some words\par
9 \cd\ and some words
```

Beware: CNLTX-TOOLS will only leave the dot out if one follows directly in the input! That means that spaces are not ignored. However, of course TeX ignores spaces after macro names so usually this won't be an issue. If you define an abbreviation with a macro name consisting of one non-letter where spaces are not ignored you have to keep this fact in mind, though.

7.7.3. Predefined Abbreviations

CNLTX-TOOLS already provides a bunch of abbreviations defined with its \newabbr command.

Abbreviations that allow Localization

CNLTX-TOOLS defines a few abbreviations that are sensitive to babel settings. Currently only translations for English and German are provided and the definition falls back to the English version if you're using a language other than those. It is possible to add further localization strings quite easily, see section 13.

```
\ie Prints "i. e." or "d. h."
\eg
Prints "e. g." or "z. B."
\etc
Prints "etc." or "etc."
\cf
Prints "cf." or "vgl."
```

All of these macros add a final dot followed by \@ except if a dot directly follows the macro.

```
1 \eg\ and some following text\par
2 \eg, and some following text\par
3 \eg. and some following text\par
4 \selectlanguage{ngerman}
5 \eg\ and some following text\par
6 \eg, and some following text\par
7 \eg. and some following text
2 e. g. and some following text
2 e. g. and some following text
2 z. B. and some following text
3 z. B. and some following text
3 c. B. and some following text
4 z. B. and some following text
5 and some following text
5 and some following text
6 and some following text
7 and some following text
8 and some following text
9 an
```

German Abbreviations

The following abbreviations are not sensitive to localization are and only of use in a German text. Although they're defined: *please* do not use abbreviations at the start of a sentence!

```
\dsh
Prints "d. h."

\Dsh
Prints "D. h."

\usf
Prints "usf."

\usw
Prints "usw."

\uswusf
Prints "usw. usf."

\zB
Prints "z. B."
```

```
Vgl
Prints "vgl."
Vgl
Prints "Vgl."
```

These macros behave the same as the ones described in section 7.7.3 on page 24.

```
d. h. und weiterer Text
1 \dsh\ und weiterer Text\par
                                            d. h. und weiterer Text
2 \dsh. und weiterer Text\par
                                            usw. und weiterer Text
3 \usw\ und weiterer Text\par
                                            usw. und weiterer Text
4 \usw. und weiterer Text\par
                                            usf. und weiterer Text
5 \usf\ und weiterer Text\par
6 \usf. und weiterer Text\par
                                            usf. und weiterer Text
7 \zB\ und weiterer Text\par
                                            z. B. und weiterer Text
8 \zB. und weiterer Text
                                            z.B. und weiterer Text
```

Time related Abbreviations

The abbreviations presented in this section differ from the others in that they're formatted by the command \cnltxtimeformat{}, see section 7.7.1 on page 22.

```
\AM
Prints "A.M."

\PM
Prints "P.M."

\AD
Prints "A.D."

\BC
Prints "B.C."
```

In their current definition these abbreviations are meant to be used *directly* after the time of day or the date, respectively.

```
She left for work before 6\AM, but did not arrive until 12\PM. The arrive until 12\PM. The before 5\BC--5\AD\ is one year shorter than the interval 5\BC--105\AD.

She left for work before 6 A.M., but did not arrive until 12 P.M. The interval 5 B.C.—5 A.D. is one year shorter than the interval 95 A.D.—105 A.D.
```

8. Formatting Possibilities

One of the goals I wanted to achieve with this package is a consistent look and an easy interface for customization. No font choice and no color choice is fixed. In this section ways to change the formatting are shown.

The formatting of the different commands provided by CNLTX and various other properties can be changed in two ways: either by redefining the internal commands that are used for the formatting or by setting a corresponding option. Both variants are described in the next subsections

How the colors should be changed is described in section 12 on page 40.

8.1. Formatting by Redefining Hooks

You can change the formatting by redefining the following commands. They're all defined by the CNLTX-EXAMPLE package except where indicated differently.

\codefont Default: \ttfamily

This command is used for all formatting of source code.

\sourceformat Default: \codefont\small

Formatting of the listings.

\exampleformat (initially empty)

Special formatting of the output of a listing.

Formatting of the notes introduced in section 5.2 on page 8.

\packageformat Default: \sffamily

The formatting of package names.

\classformat Default: \sffamily

The formatting of class names.

\argumentformat Default: \normalfont\itshape

The formatting of $\mbox{meta}\{\langle meta\rangle\}$.

```
1 \renewcommand*\codefont{\sffamily\bfseries}
2 \code{foo} and \cs*{bar}, option \option{baz}
```

foo and \bar, option baz

8.2. Formatting by Setting Options

You can change the formatting of by setting the following options. They're all defined by the **CNLTX-EXAMPLE** package except where indicated differently.

```
title-format = \{\langle definition \rangle\} Default: \bfseries\scshape
```

Introduced in version 0.2

provided by CNLTX-DOC

Formatting of the document title.

8. Formatting Possibilities

```
abstract-width = \{\langle dimension \rangle\}
                                                                                               Default: .75\linewidth
                  The width of the \parbox the abstract as set with the abstract option is placed in.
Introduced in
version 0.6
               abstract-format = \{\langle definition \rangle\}
                                                               Default: \setlength\parskip{.333\baselineskip}
                  Code that is placed in the parbox the abstract is placed in before the abstract text.
Introduced in
version o.6
               caption-font = \{\langle definition \rangle\}
                                                                             Default: \normalfont\small\sffamily
                  This option only has any effect if you use the option load-preamble, see section 9.5 on page 32
                  for details on the option.
               caption-label-font = \{\langle definition \rangle\}
                                                                   Default: \normalfont\small\sffamily\scshape
                 This option only has any effect if you use the option load-preamble, see section 9.5 on page 32
                  for details on the option.
               code-font = \{\langle definition \rangle\}
                                                                                                    Default: \ttfamily
                  Used for all formatting of source code.
               source-format = \{\langle definition \rangle\}
                                                                                            Default: \codefont\small
                  Formatting of the listings.
               expl-format = \{\langle definition \rangle\}
                                                                                                        (initially empty)
                  Special formatting of the output of a listing.
               module-sep = \{\langle definition \rangle\}
                                                                                                        Default: \,>>\,
                  Change the separator between module name and corresponding option name.
provided by
CNLTX-DOC
               version-note-format = \{\langle definition \rangle\}
                                                                   Default: \footnotesize\sffamily\RaggedRight
                  Formatting of the notes introduced in section 5.2 on page 8.
provided by
CNLTX-DOC
               pkq-format = \{\langle definition \rangle\}
                                                                                                    Default: \sffamily
                  The formatting of package names.
               cls-format = \{\langle definition \rangle\}
                                                                                                    Default: \sffamily
                  The formatting of class names.
               arg-format = \{\langle definition \rangle\}
                                                                                       Default: \normalfont\itshape
                 The formatting of \mbox{meta}\{\langle meta\rangle\}.
               default-format = \{\langle code \rangle\}
                                                                                                        Default: \uline
                  The formatting of \default's argument. \langle code \rangle's last macro should take one argument.
Introduced in
version 0.2
                       1 \setcnltx{code-font=\sffamily\itshape}
                       2 \code{foo} and \cs*{bar}, option \option{baz}
                          foo and \bar, option baz
```

9. Commands, Options and Further Settings Directly Related to the CNLTX-DOC Class

9.1. Using Class Options

The **CNLTX-DOC** class only knows a few options:

load-preamble = true|false

Default: false

See section 9.5 on page 32 for details.

load-preamble+ = true|false

Default: false

See section 9.6 on page 33 for details.

add-index = true|false

Default: false

See section 9.6 on page 33 for details.

 $babel-options = \{\langle options \rangle\}$

Default: english

Options given to the babel²⁰ package. This option only has an effect if load-preamble = true.

 $scrartcl = \{\langle options \rangle\}$

(initially empty)

Options that are passed to the underlying class scrartcl. *All global options you want to use should be given here.*

9.2. Information on the Described Package or Class

A manual for a package or a class needs some information on the described package like the package name, the version number, the date and so on. This information is given with the following options. They are used to build the title page of the manual.

```
package = \{\langle package \rangle\}
```

The name of the package that is described. Either this option or class or name should always be given. This command also defines a command sequence from the package name that formats the package name with color and small caps like CNLTX.

```
class = \{\langle class \rangle\}
```

The name of the class that is described. Either this option or package or name should always be given. This command also defines a command sequence from the class name that formats the class name with color and small caps like CNLTX.

```
name = \{\langle name \rangle\}
```

The name of the class/package that is described. Either this option or package or class should always be given. This command also defines a command sequence from the class name that formats the class name with color and small caps like CNLTX.

```
authors = \{\langle author \ list \rangle\}
```

Changed in Comma

version 0.4

Comma separated list of package/class authors. After each author name you can add an email

^{20.} on CTAN as babel: http://mirrors.ctan.org/macros/latex/required/babel/

address by writing it in square brackets: Some Name[some@name.com]. Email addresses specified this way get written as a footnote. At least one author should always be given.

```
version = \{\langle version \ number \rangle\}
```

Version number of the package/class. CNLTX tries to extract the information from the given package or class. This option can be used to set it explicitly.

```
date = \{\langle date \rangle\}
```

Date of the package/class. **CNLTX** tries to extract the information from the given package or class. This option can be used to set it explicitly.

```
info = {\langle package/class info \rangle}
```

Information about the package/class. CNLTX tries to extract the information from the given package or class. This option can be used to set it explicitly.

```
subtitle = \{\langle subtitle \rangle\}
```

A subtitle, printed below the package/class name.

```
url = \{\langle url \rangle\}
```

The homepage of the package.

```
email = \{\langle email \rangle\}
```

A contact email address.

```
abstract = \{\langle abstract \rangle\}
```

An abstract of the package/class/manual. This is text typeset in a box of .75\linewidth. Actually it does not have to be text but could be an image or whatever you like.

9.3. Building of the Manuals Title Page

If either the package or class has been given an automatic title page is built using the gathered information. Figure 1 on the next page roughly sketches which informations is used and how the different elements are arranged on the title page. The page style of the title page is plain. Additionally a table of contents is automatically built that is set in two columns. The automatic building of the title page can be prevented by explicitly setting the following option:

```
build-title = true | false
```

The default state depends on other options given like package. However, setting this option to false *after* any of the options described in section 9.2 on the preceding page will prevent the building of a title page and allows you to design your own.

9.4. A Quotation Environment

Introduced in version 0.5

CNLTX-DOC provides a quotation environment:

```
\begin{cnltxquote}[\langle author/reference \rangle]
```

A quotation environment.

9. Commands, Options and Further Settings Directly Related to the CNLTX-DOC Class

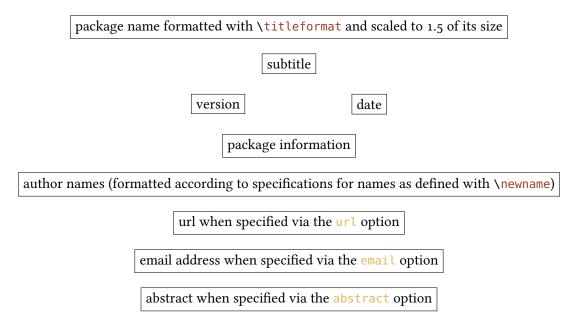


FIGURE 1: Schematic sketch of the title page.

The environment sets the body indented on both sides as it simply uses a quote environment internally. The contents of the optional argument is set flush right after the environment's body. The formatting is controlled by two options:

"The first ten million years were the worst," said Marvin, "and the second ten million years, they were the worst too. The third ten million years I didn't enjoy at all. After that I went into a bit of a decline."

Douglas Adams, The Restaurant at the End of the Universe

9.5. Predefined Preamble

It is possible to load a part of my standard preamble automatically by passing an option as class option.

load-preamble

Class option that preloads part of my custom preamble.

Using the option will include the following code:

```
1 \RequirePackage{ifxetex,ifluatex}
2 \ifboolexpr{not bool{xetex} and not bool{luatex}}
   {\RequirePackage[T1]{fontenc}}
   {\RequirePackage{fontspec}}
5 \RequirePackage[oldstyle]{libertine}
6% 'libertinehologopatch' is not on CTAN, yet!
_{7} % you can get it at https://bitbucket.org/cgnieder/libertinehologopatch/
8 \RequirePackage{libertinehologopatch}
9 \RequirePackage[supstfm=libertinesups]{superiors}
10 % libertine does not have superior letters:
11 \def\@makefnmark{%
   \hbox{%
      \cnltx@ifisnum{\@thefnmark}
13
        {\textsu{\hspace*{\superiors@spaced}\@thefnmark}}
        {\@textsuperscript{\normalfont\@thefnmark}}%
15
    }%
16
17 }
18 \RequirePackage{microtype}
 \ifboolexpr
    {
      test {\ifcsdef{MT@pr@set@@romansans}} and
21
      test {\ifcsdef{MT@ex@set@@romansans}}
22
    }
23
    {}
24
25
     \DeclareMicrotypeSet{romansans}{
26
        encoding = \{*\},
27
        family = {rm*,sf*}
28
      }
29
    }
  \ifcsdef{MT@tr@set@@scshape}
    {}
32
    {
33
      \DeclareMicrotypeSet[tracking]{scshape}{
34
        encoding = \{*\},
35
        shape
                 = {sc,scit,si}
36
      }
37
   }
39 \microtypesetup{
```

9. Commands, Options and Further Settings Directly Related to the CNLTX-DOC Class

```
= scshape ,
    tracking
    protrusion = romansans ,
41
    expansion = romansans
42
43 }
44 \ifboolexpr{not bool{xetex} and not bool{luatex}}
    {\RequirePackage[scaled=.79]{beramono}}
    {\setmonofont[Scale=MatchLowercase]{Bitstream Vera Sans Mono}}
47 \RequirePackage{fnpct}
48 \expandafter\RequirePackage\expandafter[\cnltx@babel@options]{babel}
49 \renewcommand*\othersectionlevelsformat[3]{%
    \textcolor{cnltx}{#3\autodot}\enskip}
_{5^1} \renewcommand*\partformat{%
   \textcolor{cnltx}{\partname~\thepart\autodot}}
53 \deffootnote{2em}{1em}{\llap{\thefootnotemark. }}%
54 \pagestyle{headings}
55 \setcapindent{1.5em}
56 \setkomafont{caption}{\cnltx@caption@font}
57 \setkomafont{captionlabel}{\cnltx@captionlabel@font}
```

The effect of this preamble is demonstrated by the document you're reading at this moment.

9.6. Predefined Indexing

CNLTX-DOC allows the automated creation of an index. This is done with the help of the imakeidx package by Enrico Gregorio [Gre13]. To use this feature you have two class options. They cannot be set with \setcnltx but must be given as class options.

```
add-index = true|false
```

Default: false

Enables the automatic creation of an index at the end of the document.

```
load-preamble+ = true|false
```

Default: false

This option has the same effect as adding the options load-preamble, add-index and add-bib.

Enabling the feature

- loads the imakeidx²¹ package,
- uses a given style file for the index that can be specified with the index-style option,
- sets a certain setup for the index that can be specified with the index-setup option and
- adds an index at the end of the document.

The following options are available to customize the appearance of the index:

```
index-prologue = \{\langle text \rangle\}
```

Adds $\langle text \rangle$ as index prologue between heading and the actual index.

^{21.} on CTAN as imakeidx: http://mirrors.ctan.org/macros/latex/contrib/imakeidx/

```
index-space = \{\langle dimension \rangle\}
```

Default: 0pt

The vertical space between index prologue and index.

```
 index-setup = \{\langle options \rangle\}  Default: othercode=\footnotesize,level=\addsec
```

The options that are passed to imakeidx's \indexsetup command.

```
makeindex-setup = \{\langle options \rangle\} Default: columns=2, columnsep=1em
```

The options that are passed to the \makeindex command.

```
index-style = {\langle style file \rangle} Default: cnltx.ist
```

The style file that is used for formatting the index.

The index style file cnltx.ist contains the following lines:

```
heading_prefix "{\\bfseries "
heading_suffix "\\hfil}\\nopagebreak\n"
headings_flag 1
delim_0 "\\dotfill"
delim_1 "\\dotfill"
delim_2 "\\dotfill"
delim_r "\\nohyperpage{\\textendash}"
delim_t ""
suffix_2p "\\nohyperpage{\\,\\GetTranslation{cnltx-f.}\\@}"
suffix_3p "\\nohyperpage{\\,\\GetTranslation{cnltx-ff.}\\@}"
```

The feature is demonstrated by this document which does not contain a single control sequence containing the string index!

9.7. Bibliography with biblatex

9.7.1. Bibliography Entry Types package, class and bundle for biblatex

Introduced in version 0.4

CNLTX-DOC defines the bibliograpy entry types package, class and bundle when biblatex [Leh13] is used. This allows specifying LATEX packages in bib files:

```
1 @package{pkg:chngcntr,
<sub>2</sub> title
            = {chngcntr} ,
   author = {Peter Wilson} ,
   maintainer = {Will Robertson} ,
   date = \{2009 - 09 - 02\},
   version = \{1.0a\} ,
             = {http://mirror.ctan.org/macros/latex/contrib/chngcntr/}
   url
8 }
9 @class{cls:exam,
title = \{exam\},
   author
            = {Philip Hirschhorn},
           = \{2011 - 05 - 22\},\,
   date
```

9. Commands, Options and Further Settings Directly Related to the CNLTX-DOC Class

```
version
              = \{2.4\},
              = {http://mirror.ctan.org/macros/latex/contrib/exam/}
14
15 }
16 @bundle{bnd:koma-script,
   title = {\KOMAScript},
   sorttitle
                = {KOMA-Script} ,
   indextitle = {\KOMAScript},
   indexsorttitle = {KOMA-Script} ,
   author = {Markus Kohm and Frank Neukahm},
                 = \{2012-07-29\},
version
                = \{3.11b\} ,
                 = {http://mirror.ctan.org/macros/latex/contrib/koma-script/}
   url
25 }
```

As you can see also an entry field maintainer is defined. For this to work you have to use the biblatex bibliography style cnltx. This style basically is a clone of the style alphabetic but defines the necessary additions for the package, class and bundle entry types and the maintainer entry field.

Along with the bibliography style a citation style cnltx is provided, again a clone of the alphabetic style. The only addition it makes is that indexing of maintainer names is enabled if biblatex's indexing option is used. The styles can only be used with the CNLTX-DOC class as it relies on definitions made by it.

This document uses the following call of biblatex:

```
1 \usepackage[
2 backend=biber,
3 style=cnltx,
4 sortlocale=en_EN,
5 indexing=cite,
6 useprefix]{biblatex}
7 \addbibresource{cnltx.bib}
```

Actually it let's CNLTX-DOC do it, see section 9.7.2 for details.

Just for the sake of the example I am going to cite the chngcntr package now [Wilo9] so you can see both the bibliography entry and the indexed names of package, author and maintainer in the appendix.

9.7.2. Automatic Bibliography

CNLTX-DOC allows the automated creation of a bibliography.

```
add-bib = true|false Default: false
```

Enables the automatic creation of a bibliography at the end of the document.

```
load-preamble+ = true|false Default: false
```

This option has the same effect as adding the options load-preamble, add-index and add-bib.

What this options does is including the following code:

```
1 \RequirePackage[
2 backend=biber,
3 style=cnltx,
4 sortlocale=en_EN,
5 indexing=cite,
6 useprefix]{biblatex}
7 \addbibresource{cnltx.bib}
8 \AtEndDocument{\printbibliography}
```

As you can see there's also a bibliography database file cnltx.bib that provides a yet small but growing number of package entries.

10. Predefined listings and mdframed Styles

10.1. mdframed

The source code environments (see section 7.4 on page 16) all get a frame with the help of the mdframed [Dan13] package. For this a custom style is defined called cnltx. The options frame-options and add-frame-options mentioned in section 7.4 on page 16 manipulate this style. It is predefined with these values:

```
1 \def\cnltx@mdframed@options{
2 backgroundcolor = cnltxbg ,
3 linecolor = cnltx ,
4 roundcorner = 5pt
5 }
```

10.2. listings

10.2.1. LATEX Sourcecode

The code of the source code environments (see section 7.4 on page 16) is formatted with the help of the listings package [HM13]. A listings style is defined called cnltx. The options add-cmds, add-silent-cmds, add-envs, add-silent-envs, listings-options and add-listings-options manipulate this style. It is predefined by CNLTX-EXAMPLE as follows:

```
xleftmargin
                     = 1em,
    numbersep
                     = .75em,
    gobble
                     = \cnltx@gobble ,
    columns
                     = fullflexible,
    literate
     {ä}{{\"a}}1
12
      {ö}{{\"o}}1
13
     {ü}{{\"u}}1
     {Ä}{{\"A}}1
     {Ö}{{\"0}}1
16
     {Ü}{{\"U}}}1
17
     \{\emptyset\}\{\{\setminus ss\}\}\}1 ,
18
19
   breaklines
                     = true,
    keepspaces
                     = true,
20
    breakindent
                     = 1em,
    commentstyle = \color{comment},
    keywordstyle = \color{cs},
23
    deletetexcs
24
     {
25
        a,o,u,A,O,U,
26
        begin,
27
        center,
28
        description, document,
        end, enumerate,
30
        figure, flushleft, flushright,
31
        itemize, list,
32
        otherlanguage,
33
        table,tabu,tabular
34
      },
35
    deletekeywords
36
        a,o,u,A,O,U,
38
        begin,
39
        center,
        description, document,
41
        end, enumerate,
42
        figure, flushleft, flushright,
43
        itemize, list,
        otherlanguage,
        table,tabu,tabular
46
      },
47
   % \begin, \end:
48
   texcsstyle = [2]\color{beginend},
                    = [2][texcs2],
    index
50
    indexstyle
                     = [2]\@gobble,
51
                 = [2]{begin,end},
    moretexcs
   % added environments that'll be indexed:
    texcsstyle = [3]\color{env},
```

```
index
                      = [3][texcs3],
   indexstyle = [3]\envidx,
56
   % environments that won't be indexed:
   texcsstyle = [4]\color{env},
index = [4][texcs4],
59
   index = [4]\@gobble,
   % control sequences that'll be indexed:
_{62} texcsstyle = [5]\color{cs},
_{63} index = [5][texcs5], _{64} indexstyle = [5]\indexcs,
   % control sequences that won't be indexed:
66 texcsstyle = [6]\color{cs},
67 index = [6][texcs6],
    indexstyle = [6]\@gobble
68
69 }
```

10.2.2. BIBTEX Entries

Introduced in version 0.4

The CNLTX-LISTINGS package defines a listings language BibTeX that contains a huge number of bibentry types and bibentry field types, have a look at section 9.7.1 on page 34. CNLTX-EXAMPLE defines a listings style for formatting them called cnltx-bibtex:

```
1 \def\cnltx@bibtex@listings@style{
                 language = BiBTeX,
basicstyle = {\sourceformat},
numbers = left,
numberstyle = \tiny,
xleftmargin = lem,
numbersep = .5em,
gobble = \columns = fullflexible,
literate = {\false \false \
                   {ä}{{\"a}}1
11
                  {ö}{{\"o}}1
                  {ü}{{\"u}}1
\{\ddot{A}\}\{\{\"A\}\}\}
                    {Ö}{{\"0}}1
15
                              {Ü}{{\"U}}}1
16
                              \{\emptyset\}\{\{\setminus ss\}\}\}1,
17
                      breaklines = true,
18
                      keepspaces
                                                                                                                                  = true,
                        breakindent = 1em,
                       commentstyle = \color{comment},
                     keywordstyle = \color{bibentry} ,
keywordstyle = [2]\color{bibentryfield}\itshape ,
                          showstringspaces = false ,
25 }
```

10.2.3. makeindex Style Files

Introduced in version 0.7

CNLTX-LISTINGS defines a listings language makeindex that contains the keywords used in makeindex style files. CNLTX-EXAMPLE defines a listings style for formatting them called cnltx-makeindex:

```
1 \def\cnltx@makeindex@listings@style{
    language
                    = makeindex,
    basicstyle
                         = {\sourceformat},
    numbers
                         = left,
    numberstyle
                         = \tiny,
                         = 1em,
    xleftmargin
    numbersep
                         = .75em,
    gobble
                         = \cnltx@gobble ,
    columns
                         = fullflexible,
    literate
      {ä}{{\"a}}1
       {\ddot{o}}{\{\"o}\}{1}
12
       \{\ddot{\mathsf{u}}\}\{\{\backslash "\mathsf{u}\}\}\mathbf{1}
13
       \{A\}\{\{\"A\}\}\}1
       \{\ddot{0}\}\{\{\"0\}\}\}1
15
       \{\ddot{U}\}\{\{\"U\}\}\}1
16
       \{B\}\{\{\setminus ss\}\}\}1 ,
    breaklines
                         = true,
    keepspaces
                         = true,
    breakindent
                         = 1em,
                         = \color{comment},
    commentstyle
                         = \color{makeidxkey}\bfseries ,
    keywordstyle
    stringstyle
                         = \color{makeidxstring} ,
23
     showstringspaces = false
24
25 }
```

11. PDF Strings and hyperref

Since the formatting and indexing commands \cs, \env, \option, \pkg, \cls and \key are robust they are ignored in PDF strings. For this reason you should *only use the starred variants* in places where PDF bookmarks are built from such as section titles when you use hyperref [OR12]. Since CNLTX-DOC loads hyperref this means you should do so, too, when you use CNLTX-DOC. This is important for two reasons:

1. Indexing in strings that get written to the table of contents does noch make much sense, anyway, so the starred versions should be used in section titles even if you don't use hyperref.

2. When hyperref is loaded the mentioned commands are disabled in PDF strings in a way that *expects* them to be followed by a star. This means leaving the star out will result in doesn't match its definition errors.

12. Predefined Colors and Color-Schemes

12.1. Explicitly Defined Colors

The **CNLTX-BASE** package defines a number of colors:

cnltxbrown

Per default used for the control sequences.

cnltxblue

Per default used for module names.

cnltxred

Per default used as base color in various places.

cnltxgreen

Unused per default.

cnltxgray

Per default used for formatting comments.

cnltxyellow

Per default used for option names.

cnltxformalblue

Unused per default.

cnltxformalred

Unused per default.

12.2. Actual Used Color Names and Color Schemes

The colors defined in section 12.1 are not directly used with those names. Instead colors are used whose names describe their function rather than the color. For this the color names are mapped to actual colors and saved as a coloring scheme. There are currently three predefined color schemes whose definitions are given below. Those definitions also show the actually used color names. They are defined via the following command:

$\definecolorscheme{\langle name \rangle} {\langle color assignments \rangle}$

Introduced in version 0.5

Defines the color scheme $\langle name \rangle$. When used all assignments will be actually carried out with xcolor's \colorlet command. How to input $\langle color \ assignments \rangle$ will be immediately clear from the examples below.

The 'default' color scheme is defined as follows:

```
1 \definecolorscheme{default}{
             => cnltxbrown , % command sequences
    cs => clltxblown, 0 command
option => cnltxyellow, % options
module => cnltxblue, % modules
comment => cnltxgray, % comments
beginend => red, % \begin and \end
env => black, % environment names
    env => black , % environment names
argument => black , % argument delimiters
meta => black!80 , % arguments of \meta
cnltx => cnltxred , % base color
cnltxbg => white , % source code box back
link => black!90 , % hyperlinks
                                            % source code box background
    versionnote => black!75
                                            % versioning notes text
    bibentry => cnltxgreen , % BibTeX entry types
    unexpandable => black , % the color used in \expandable
     makeidxkey => cnltxgreen , % used for keywords in the cnltx-makeindex
                                              % style
     makeidxstring => black
                                              % used for strings in the cnltx-makeindex
20
                                              % style
```

The 'blue' color scheme is defined this way:

```
1 \definecolorscheme{blue}{
             => cnltxbrown ,
   CS
    option
                 => cnltxgreen ,
                 => cnltxred ,
    module
   comment
                  => cnltxgray ,
    beginend
                  => red ,
                 => black ,
    env
   argument => black,
meta => black!80,
cnltx => cnltxblue,
cnltxbg => yellow!10,
link => cnltx,
10
   versionnote => black!75
   bibentry => cnltxyellow ,
   bibentryfield => black ,
   expandable => red ,
   unexpandable => black ,
    makeidxkey => cnltxyellow ,
    makeidxstring => black
19
20 }
```

Finally the 'formal' color scheme is defined like this:

```
1 \definecolorscheme{formal}{
              => black ,
               => cnltxformalblue ,
   option
   module
               => cnltxblue ,
               => cnltxgray ,
   comment
               => red ,
   beginend
                => black ,
                => black ,
   argument
                => black!80 ,
   meta
   cnltx
               => cnltxformalblue ,
   cnltxbg
               => white ,
               => black!90 ,
   link
   versionnote => black!75 ,
                => black ,
   bibentry
   bibentryfield => black ,
   expandable
                => red ,
   unexpandable => black ,
   makeidxkey => black ,
   makeidxstring => black
20 }
```

13. Language Support

Introduced in version 0.2

The CNLTX-DOC, the CNLTX-EXAMPLE and the CNLTX-TOOLS package all rely on the translations package [Nie13d] for providing some document language dependent strings. Currently only translations for English and German are provided. Others can be added and the existing ones changed with the following command provided by the translations package:

```
\DeclareTranslation{\langle language \rangle}{\langle keyword \rangle}{\langle translation \rangle}
Provide translations for the string identified by the ID \langle keyword \rangle.
```

The defined strings are listed in table 1 on the following page. They are used in indexing strings and in different parts of the document.

Part III.

Appendix

A. Internal Helper Commands

The commands in this section are only described for the sake of completeness. They are not meant to be used in a document. Expandable commands are marked with *.

 $\label{table 1} {\sf Table \ 1: Overview \ over \ available \ internationalization \ key \ words.}$

Package/Class	key word	English version	German version
CNLTX-EXAMPLE	cnltx-package	package	Paket
CNLTX-EXAMPLE	cnltx-class	class	Klasse
CNLTX-EXAMPLE	cnltx-bundle	bundle	Bundle
CNLTX-EXAMPLE	cnltx-environment	environment	Umgebung
CNLTX-DOC	cnltx-default	Default	Voreinstellung
CNLTX-DOC	cnltx-empty	initially empty	zunächst leer
CNLTX-DOC	cnltx-required	required	erforderlich
CNLTX-DOC	cnltx-toc	Table of Contents	Inhaltsverzeichnis
CNLTX-DOC	cnltx-license	Permission is granted to copy, distribute and/or modify this software under the terms of the LATEX Project Public License (LPPL), version 1.3 or later (http://www.latex-project.org/lppl.txt). The software has the status	Es ist erlaubt, diese Software unter den Bedingungen der LATEX Project Public License (LPPL), Version 1.3 oder später, zu kopieren und zu verteilen (http://www. latex-project.org/ lppl.txt). Sie hat den Status
CNLTX-DOC	cnltx-introduced	Introduced in version	Eingeführt in Version
CNLTX-DOC	cnltx-changed	Changed in version	Geändert in Version
CNLTX-DOC	cnltx-f.	f.	f.
CNLTX-DOC	cnltx-ff.	ff.	ff.
CNLTX-DOC	cnltx-maintainer	current maintainer	aktueller Maintainer
CNLTX-DOC	cnltx-maintainer	current maintainers	aktuelle Maintainer
CNLTX-TOOLS	cnltx-i.e.	i. e	d. h
CNLTX-TOOLS	cnltx-e.g.	e. g	z.B
CNLTX-TOOLS	cnltx-cf.	cf	vgl
CNLTX-TOOLS	cnltx-etc.	etc	etc

A.1. Defined by CNLTX-BASE

Especially CNLTX-BASE defines some useful helper macros that are also used by the other packages and classes.

A.1.1. Related to the Bundle

* \cnltx@@date

The creation date of the current version of the bundle.

*\cnltx@@version

The version number of the bundle.

*\cnltx@@info

The short description of the bundle.

Introduced in version 0.7

\cnltx@create@bundle@message*{\module\}}{Error|Warning|WarningNoLine|Info} Create suiting error and warning messaging commands for the module \module\ of the CNLTX bundle. The starred version creates messages for a class the un-starred version messages for a package.

```
\coloredge{\coloredge} \coloredge{\coloredge}
```

Issue an error message using \PackageError{cnltx-base}.

$\coloredge{\coloredg$

Issue a warning message using \PackageWarning{cnltx-base}.

\cnltx@base@warningnoline{\(message \)}

Issue a warning message using \PackageWarningNoLine{cnltx-base}.

$\coloredge{cnltx@base@info{\langle message \rangle}}$

Issue a message using \PackageInfo{cnltx-base}.

$\colorscheme{\langle name \rangle} {\langle scheme \ definition \rangle}$

Command that can be used to define a color scheme.

A.1.2. Programming Tools

 $\cnltx@create@message*{\langle prefix\rangle}{\{\langle package/class\ name\rangle\}}{Error|Warning|WarningNoLine|Info}}{\{\langle detailed\ error\ message\rangle\}}$

Changed in version 0.7

Create error and warning massaging commands $\langle prefix \rangle$ @error|warning|warningnoline|info{ $\langle message \rangle$ }. The starred version creates messages for a class the un-starred version messages for a package. All commands have one argument which takes the message. $\langle prefix \rangle$ will be all lowercase in the generated command.

 $\cnltx@create@generic@message*{\prefix}}{\prefix}}{\prefix}{\prefix}}{\columnwdf}{\colum$

Introduced in version 0.7

Create error and warning massaging commands $\protect\ \protect\ \protect\$

info{ $\langle message \rangle$ }. The starred version creates messages for a class the un-starred version messages for a package. All commands have one argument which takes the message *except for the error command which gets two arguments*, the first for the short version and the second for the detailed message. $\langle prefix \rangle$ will be all lowercase in the generated command.

\cnltx@par

Expands to \par. Sometimes you need to smuggle a \par in a short macro ...

* \iftest{\langle test directive \rangle } {\langle true \rangle } {\langle false \rangle }

Introduced in version 0.7

Checks if $\langle test \ directive \rangle$ is true and either places $\langle true \rangle$ or $\langle false \rangle$ in the input stream. $\langle test \ directive \rangle$ should be a TeX test like $\langle test \ directive \rangle$.

This is a command in the spirit of etoolbox's \ifbool that does the same for a boolean $\langle bool \rangle$ defined with \newif\if $\langle bool \rangle$ or \newbool{ $\langle bool \rangle$ }. It corresponds to etoolbox's test directive for its \ifboolexpr.

* $\nottest{\langle test \ directive \rangle}{\langle not \ true \rangle}{\langle not \ false \rangle}$

Introduced in version 0.7

Checks if $\langle test \ directive \rangle$ is not true and either places $\langle not \ true \rangle$ or $\langle not \ false \rangle$ in the input stream. Test directive should be a TeX test like \iftimes \langle token1 \rangle \langle token2 \rangle.

This is a command in the spirit of etoolbox's \notbool that does the same for a boolean $\langle bool \rangle$ defined with \newif\if $\langle bool \rangle$ or \newbool{ $\langle bool \rangle$ }.

Introduced in version o.8

Tests if $\langle trailing\ token \rangle$ is any of those in $\langle list\ of\ tokens \rangle$ and either places $\langle true \rangle$ or $\langle false \rangle$ in the input stream without removing $\langle trailing\ token \rangle$.

A generic version of LaTeX's \@ifstar that checks if $\langle token \rangle$ follows if the input stream. If yes it is removed and $\langle true \rangle$ is placed in the input stream else $\langle false \rangle$.

A wrapper for \cnltx@ifsym{-}.

Introduced in version 0.3

A wrapper for \cnltx@ifsym{!}.

Introduced in version o.6

Checks if $\langle token \ list \rangle$ is an integer zero or greater and leaves $\langle true \rangle$ in the input stream if it is an $\langle false \rangle$ if it isn't.

\cnltx@expandargs(\langle specs\rangle)\langle control sequence\rangle

* \cnltx@ifisnum{ $\langle token \ list \rangle$ }{ $\langle true \rangle$ }{ $\langle false \rangle$ }

Introduced in version 0.7

This is a LaTeX 2ε version of expl3's \exp_args:N\specs\. The command expands the arguments of \(\scale \control \) sequence \(\according \) to \(\scale \scale \control \). In \(\specs \rangle \)

- •N means unexpanded token,
- •n means unexpanded braced group,
- •c means braced group converted into a control sequence name,
- •o means braced group expanded once,

•f means braced group expanded with \romannumeral, and

•x means braced group expanded with \edef.

```
* \cnltx@stripbs
                                                                                                                                                      A shortcut for \expandafter\@gobble\string.
                                                                                                                                \cnltx@if@in{\langle tokenlist\rangle}{\langle search\rangle}{\langle true\rangle}{\langle false\rangle}
                                                                                                                                                      Places \langle true \rangle in the input stream if \langle search \rangle is found in \langle tokenlist \rangle and \langle false \rangle if it isn't.
                                                                                                                                \cnltx@replace@once{\langle cs \rangle}{\langle search \rangle}{\langle replace \rangle}
                                                                                                                                                      Replaces the first occurrence of \langle search \rangle in the first expansion of \langle cs \rangle with \langle replace \rangle.
                                                                                                                                \color= \col
                                                                                                                                                      The same as \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same as \c varphi and \c varphi are equivalent to the same and \c varphi are equivalent to the sa
Introduced in
version 0.3
                                                                                                                                \cnltx@replace@all{\langle cs \rangle}{\langle search \rangle}{\langle replace \rangle}
                                                                                                                                                      Replaces all occurences of \langle search \rangle in the first expansion of \langle cs \rangle with \langle replace \rangle.
                                                                                                                                \color= \col
                                                                                                                                                      Introduced in
 version 0.3
                                                                                                                                \colored{cnltx@remove@once}{\langle cs\rangle}{\langle search\rangle}
                                                                                                                                                      Removes the first occurrence of \langle search \rangle in the first expansion of \langle cs \rangle.
 Introduced in
 version 0.3
                                                                                                                                \color= \col
                                                                                                                                                      The same as \colon colon col
Introduced in
 version 0.3
                                                                                                                                \colored \
 Introduced in
                                                                                                                                                      Removes all occurences of \langle search \rangle in the first expansion of \langle cs \rangle.
 version o.3
                                                                                                                                \color= \col
                                                                                                                                                      The same as \cnltx@remove@all but \langle cs \rangle will be redefined with \cnlty long.
 Introduced in
 version o.3
                                                                                                                                                      A.2. Defined by CNLTX-DOC
                                                                                                                                \cnltx@doc@error{\langle message\rangle}
                                                                                                                                                      Issue an error message using \ClassError{cnltx-doc}.
                                                                                                                                Issue a warning message using \ClassWarning{cnltx-doc}.
                                                                                                                                Issue a warning message using \ClassWarningNoLine{cnltx-doc}.
                                                                                                                                \coloredge{\coloredge}\coloredge{\coloredge}
                                                                                                                                                      Issue a message using \ClassInfo{cnltx-doc}.
```

$\cnltx@getfileinfo{\langle file\ name \rangle} {\langle file\ extension \rangle}$

Extract the date, version and background information for a package or a class and defines \cnltx@package@date, \cnltx@package@version and \cnltx@package@info to contain the extracted data.

$\colonergia (note)$

Command that is used for the versioning notes interally. Sets \reversemarginpar and then writes the note $\langle note \rangle$ to the margin with corresponding formatting.

\begin{cnltxlist}

The list environment that is used by the environments commands, options and environments.

A.3. Defined by CNLTX-EXAMPLE

$\coloredge{\coloredge} \coloredge{\coloredge}$

Issue an error message using \PackageError{cnltx-example}.

Issue a warning message using \PackageWarning{cnltx-example}.

Issue a warning message using \PackageWarningNoLine{cnltx-example}.

Issue a message using \PackageInfo{cnltx-example}.

\cnltxat

Robust command that typesets '@' with category code 11. An @ in command names confuses the indexing of the command names. Either one uses another symbol for makeindex's "actual" recognition and also tells idxcmds [Nie13c] about it or one uses \cnltxat in \cs and friends. For the sake of convenience you can define a command like \at that expands to it.²² In order not to overwrite any such existing macro it is not defined by CNLTX-EXAMPLE. This document for example defines \def\at{\cnltxat}.

\cnltxletterat

An alias of \cnltxat.

\cnltxotherat

The same as \cnltxat but with a '@' with category code 12.

\cnltxbang

The same as \cnltxotherat except that it contains a '!'.

\cnltxequal

The same as \cnltxotherat except that it contains a '='.

^{22.} This is important. If you \let it to \cnltxat index entries may be sorted differently! Remember: \cnltxat is robust.

\cnltx@isvalue

Used in definitions of the key/value option typesetting commands. Inserts a = with some stretchable space around and a legal break-point after it.

\indexcs

Version of \csidx that takes care of a \textcompwordmark inserted by listings. Also replaces all occurences of @ with category code 11 or 12 with \cnltxat. Used to index commands in the sourcecode and example environments that have been added with add-cmds.

\indexenv

Introduced in version 0.7a

Version of \envidx that takes care of a \textcompwordmark inserted by listings. Also replaces all occurences of @ with category code 11 or 12 with \cnltxat. Used to index environments in the sourcecode and example environments that have been added with add-envs.

Introduced in version 0.7a

This command was used to define \indexcs and \indexenv:

\cnltx@treat@lst@index{\indexcs}{\csidx}

 $\lceil (arg formatting) \rceil \{\langle cs \rangle\} \{\langle left delim \rangle\} \{\langle right delim \rangle\}$

Default: \meta

Changed in version 0.2

Command used to define the argument commands: $\mbox{\mbox{$newarg\marg{\mbox{$}}}$. The optional argument determines how the argument of the new command will be formatted. This is done with $\mbox{\mbox{\mbox{$meta$} per default. $newarg[\code]\mbox{$meta$}}$

\MakePercentComment

Sets the category code of % to 14.

\cnltx@copyablespace

Prints a space that is also copyable. Uses the accsupp package by Heiko Oberdiek [Obe10].

\cnltx@mdframed@options

Predefined option list for the mdframed [Dan13] style cnltx.

\cnltx@listings@style

Predefined option list for the listings [HM13] style cnltx.

A.4. Defined by CNLTX-LISTINGS

Issue an error message using \PackageError{cnltx-listings}.

Issue a warning message using \PackageWarning{cnltx-listings}.

Issue a warning message using \PackageWarningNoLine{cnltx-listings}.

$\colored{cnltx@listings@info{\langle message\rangle}}$

Issue a message using \PackageInfo{cnltx-listings}.

\cnltx@predefined@control@sequences

A comma-separated list of predefined 'silent' control sequence names.

\cnltx@predefined@environments

A comma-separated list of predefined 'silent' environment names.

\listsilentcmds

Prints all known control sequence names formatted and separated with the separator set with list-sep. Requires CNLTX-EXAMPLE.

\listsilentenvs

Prints all known environment names formatted and separated with the separator set with list-sep. Requires CNLTX-EXAMPLE.

$\langle listbibfilekeys {\langle file name \rangle} \rangle$

Introduced in version 0.7

Prints all cite keys contained in the bibliography file $\langle file\ name \rangle$ formatted with \land code and separated with the separator set with $\verb|list-sep|$. Requires $\verb|CNLTX-EXAMPLE|$.

$\left\langle istbibfiletypes \left\langle file name \right\rangle \right\rangle$

Introduced in version 0.7

Prints all citation types contained in the bibliography file \(\file name \rangle \) formatted with \(\code \) and separated with the separator set with \(\list-\sep \). Requires \(\code \) Requires \(\code \) NLTX-EXAMPLE.

$\left(istbibfileentries \{ \langle file name \rangle \} \right)$

Introduced in version 0.7

Prints all cite keys contained in the bibliography file \(\file name \) formatted with \(\code \) and gives their respective entry types, separated with the separator set with \(\text{list-sep} \). Requires \(\text{CNLTX-EXAMPLE} \).

```
list-sep = \{\langle separator \rangle\}
```

Default: ,\space

Sets the separator for **CNLTX-LISTINGS**' commands listing the different commands *etc*.

A.5. Defined by CNLTX-TOOLS

```
\coloredge{\coloredge}\coloredge{\coloredge}
```

Issue an error message using \PackageError{cnltx-tools}.

Issue a warning message using \PackageWarning{cnltx-tools}.

\cnltx@tools@warningnoline{\langle message\rangle}

Issue a warning message using \PackageWarningNoLine{cnltx-tools}.

\cnltx@tools@info{\decinfo}

Issue a message using \PackageInfo{cnltx-tools}.

```
\colored{\colored} $$ \colored{\colored} \colored{\colored} $$ \
```

A wrapper for package accsupp's \BeginAccSupp{ActualText = $\langle actual text \rangle$ } $\langle T_EX text \rangle$ \EndAccSupp{}.

Below are listed all *predefined* control sequence names that are treated as "silent" names by **CNLTX**, that is, those defined by **CNLTX-LISTINGS**.

\-, \@, \@alph, \@Alph, \@arabic, \@ctrerr, \@empty, \@firstofone, \@firstoftwo, \@gobble, \@ifclassloaded, \@ifnextchar, \@ifpackageloaded, \@ifstar, \@makefnmark, \@roman, \@Roman, \@secondoftwo, **\@slowromancap**, \@textsuperscript, \@thefnmark, \a, \AA, \aa, \above, \abovedisplayshortskip, \abovedisplayskip, \abovewithdelims, \accent, \active, \acute, \addbibresource, \addcontentsline, \addpenalty, \addtocontents, \addtocounter, \addtolength, \addtokomafont, \addtoversion, \addvspace, \adjdemerits, \advance, \advancepageno, \ae, \AE, \afterassignment, \AfterEndPreamble, \AfterEndDocument, \AfterEndEnvironment, \aftergroup, \AfterPreamble, \aleph, \allocationnumber, \allowbreak, \alph, \Alph, \alpha, \amalg, \and, \angle, \approx, \appto, \arabic, \arccos, \arcsin, \arctan, \arg, \arraycolsep, \arrayrulewidth, \arraystretch, \arrowvert, \Arrowvert, \ast, \asymp, \AtBeginDocument, \AtBeginDvi, \AtBeginEnvironment, \AtEndDocument, \AtEndEnvironment, \AtEndOfClass,

\AtEndOfPackage, \AtEndPreamble, \atop, \atopwithdelims, \author, \author, \autodot, \b, \backslash, \badness, \bar, \baselineskip, \baselinestretch, \batchmode, \BeforeBeginEnvironment, \begingroup, \beginsection, \belowdisplayshortskip, \belowdisplayskip, \beta, \bezier, \bf, \bffam, \bfseries, \bgroup, \bibcite, \bibdata, \bibitem, \bibliography, \bibliographystyle, \bibstyle, \big, \Big, \bigbreak, \bigcap, \bigcirc, \bigcup, \bigg, \Bigg, \biggl, \Biggl, \biggm, \Biggm, \biggr, \Biggr, \bigl, \Bigl, \bigm, \Bigm, \bigodot, \bigoplus, \bigotimes, \bigr, \Bigr, \bigskip, \bigskipamount, \bigsqcup, \bigtriangledown, \bigtriangleup, \biguplus, \bigvee, \bigwedge, \binoppenalty, \bmod, \boldmath, \boolfalse, \booltrue, \bordermatrix, \bot, \botfigrule, \botmark, \bottomfraction, \bowtie, \Box, \box, \boxmaxdepth, \brace, \braceld, \bracelu, \bracerd, \braceru, \bracevert, \brack, \break, \breve, \brokenpenalty, \buildrel, \bullet, \bye, \c, \cal, \cap, \caption, \cases, \catcode, \cb, \cdot, \cdotp, \cdots, \centering, \centerline, \chapter, \char, \chardef, \check, \CheckCommand, \chi,

\choose, \circ, \circle, \citation, \cite, \ClassError, \ClassInfo, \ClassWarning, \ClassWarningNoLine, \cleaders, \cleardoublepage, \clearpage, \cleartabs, \cline, \closein, \closeout, \clubpenalty, \clubsuit, \colon, \color, \columns, \columnsep, \columnseprule, \columnwidth, \cong, \contentsline, \coprod, \copy, \copyright, \cos, \cosh, \cot, \coth, \count, \countdef, \cr, \crcr, \cref, \csdef, \csc, \cslet, \csletcs, \csname, \csuse, \cup, \CurrentOption, \d, \dag, \dagger, \dashbox, \dashv, \date, \day, \dblfigrule, \dblfloatpagefraction, \dblfloatsep, \dbltextfloatsep, \dbltopfraction, \ddag, \ddagger, \ddot, \ddots, \deadcycles, \DeclareCharacterInheritance, \DeclareDictTranslation, \DeclareErrorFont, \DeclareFixedFont, \DeclareFontEncoding, \DeclareFontEncodingDefaults, \DeclareFontFamily, \DeclareFontShape, \DeclareFontSubstitution, \DeclareLanguage, \DeclareLanguageAlias, \DeclareLanguageDialect, \DeclareListParser, \DeclareMathAccent, \DeclareMathAlphabet, \DeclareMathAlphabet, \DeclareMathDelimiter,

\DeclareMathRadical,

\DeclareMathSizes, \DeclareMathSymbol, \DeclareMathVersion, \DeclareMicrotypeAlias, \DeclareMicrotypeBabelHook, \DeclareMicrotypeSet, \DeclareMicrotypeSetDefault, \DeclareMicrotypeVariants, \DeclareOldFontCommand, \DeclareOption, \DeclarePreloadSizes, \DeclareRobustCommand, \DeclareSizeFunction, \DeclareSymbolFont, \DeclareSymbolFontAlphabet, \DeclareTextAccent, \DeclareTextAccentDefault, \DeclareTextCommand, \DeclareTextCommandDefault, \DeclareTextComposite, \DeclareTextCompositeCommand, \epsilon, \eqalign, \DeclareTextFontCommand, \DeclareTextSymbol, \DeclareTextSymbolDefault, \DeclareTranslation, \DeclareTranslationFallback, \def, \defaulthyphenchar, \defaultscriptratio, \defaultscriptscriptratio, \defaultskewchar, \deffootnote, \deffootnotemark, \definecolor, \deg, \delcode, \delimiter, \delimiterfactor, \delimitershortfall, \delta, \Delta, \depth, \descriptionlabel, \det, \dh, \DH, \Diamond, \diamond, \diamondsuit, \dim, \dimen, \dimendef, \dimexpr, \DisableLigatures, \discretionary, \displayindent, \displaylimits, \displaylines, \displaystyle, \displaywidowpenalty, \displaywidth, \div, \divide, \dj, \DJ, \do, \documentclass, \documentstyle, \dospecials,

\dosupereject, \dot, \doteq, \dotfill, \dots, \doublehyphendemerits, \doublerulesep, \downarrow, \Downarrow, \downbracefill, \dp, \edef, \egroup, \eject, \ell, \else, \em, \emergencystretch, \emph, \empty, \emptyset, \endcsname, \endgraf, \endgroup, \endinput, \endinsert, \enditemize, \endline, \endlinechar, \endlist, \endlrbox, \endmath, \endminipage, \endnote, \endpicture, \endsloppypar, \endtabbing, \endtabular, \endtrivlist, \endverbatim, \enlargethispage, \enskip, \enspace, \ensuremath, \eqalignno, \eqno, \equation, \equiv, \errhelp, \errmessage, \errorcontextlines, \errorstopmode, \escapechar, \eta, \evensidemargin, \everycr, \everydisplay, \everyhbox, \everyjob, \everymath, \everypar, \everyvbox, \ExecuteOptions, \exhyphenpenalty, \exists, \exp, \expandafter, \expandonce, \extracolsep, \fam, \fbox, \fboxrule, \fboxsep, \fi, \filbreak, \filecontents, \fill, \finalhypendemerits, \firstmark, \fiverm, \fivebf, \fivei, \fivesy, \flat, \floatingpenalty, \floatpagefraction, \floatsep, \flushbottom, \fmtname, \fmtversion, \fnsymbol, \folio, \font, \fontdimen, \fontencoding, \fontfamily, \fontname, \fontseries, \fontshape, \fontsize, \fontspec, \fontsubfuzz, \footins,

\footline, \footnote, \footnotemark, \footnoterule, \footnotesep, \footnotesize, \footnotetext, \footskip, \forall, \forlistloop, \foreignlanguage, \frac, \frame, \framebox, \frenchspacing, \frown, \fussy, \futurelet, \gamma, \Gamma, \gcd, \ge, \GenericError, \GenericInfo, \GenericWarning, \geq, \gets, \GetTranslation, \GetTranslationFor, \gdef, \gg, \global, \globaldefs, \glossary, \goodbreak, \grave, \H, \halign, \hang, \hangafter, \hangindent, \hat, \hbadness, \hbar, \hbox, \headheight, \headline, \headsep, \heartsuit, \height, \hfil, \hfill, \hfilneg, \hfuzz, \hglue, \hideskip, \hidewidth, \hline, \hoffset, \holdinginserts, \hom, \hookleftarrow, \hookrightarrow, \hphantom, \hrule, \hrulefill, \hsize, \hskip, \hskip, \hspace, \hss, \ht, \huge, \Huge, \hypersetup, \hyphenation, \hyphenchar, \hyphenpenalty, \i, \I, \ialign, \if, \ifblank, \ifbool, \ifboolexpe, \ifboolexpr, \ifcase, \ifcat, \ifcsdef, \ifcsname, \ifdim, \ifdef, \ifeof, \iff, \iffalse, \IfFileExists, \ifhbox, \ifhmode, \ifinlist, \ifinner, \ifmmode, \ifnum, \ifodd, \ifstr, \ifstrempty, \ifstrequal, \iftrue, \ifvbox, \ifvmode, \ifvoid, \ifx, \ignorespaces, \ignorespacesafterend, \Im, \imath, \immediate, \in, \include, \includeonly, \indent, \inf, \infty, \indent, \index, \input,

\InputIfFileExists, \inputlineno, \insert, \insertpenalties, \int, \interdisplaylinepenalty, \interfootnotelinepenalty, \interlinepenalty, \intextsep, \intop, \iota, \it, \item. itemindent, \itemitem, \itemize, \itemsep, \iterate, \itfam, \itshape, \j, \jmath, \jobname, \Join, \joinrel, \jot, \k, \kappa, \ker, \kern, \kill, \KOMAoption, \KOMAoptions, \l, \L, \label, \labelsep, \labelwidth, \labelenumi, \labelenumii, \labelenumiii, \labelenumiv, \labelitemi, \labelitemii, \labelitemiii, \labelitemiv, \lambda, \Lambda, \land, \langle, \language, \large, \Large, \LARGE, \lastbox, \lastkern, \lastpenalty, \lastskip, \LaTeX, \LaTeXe, \lbrace, \lbrack, \lccode, \lceil, \ldotp, \ldots, \le, \leaders, \leadsto, \leavevmode, \left, \leftarrow, \Leftarrow, \leftarrowfill, \lefteqn, \leftharpoondown, \leftharpoonup, \lefthyphenmin, \leftline, \leftmargin, \leftmargini, \leftmarginii, \leftmarginiii, \leftmarginiv, \leftmarginv, \leftmarginvi, \leftmark, \leftskip, \leftrightarrow, \Leftrightarrow, \leq, \leqalignno, \leqno, \let, \lfloor, \limits, \linepenalty, \lineskip, \lineskiplimits, \lg, \lgroup, \lhd, \lhook, \lim, \liminf, \limsup, \line, \linebreak, \linespread, \linethickness, \linewidth, \list, \listadd, \listfiles, \listfiles,

\listparindent, \ll, \llap, \lmoustache, \ln, \lnot, \LoadClassWithOptions, \LoadClass, \LoadDictionary, \LoadDictionaryFor, \LoadMicrotypeFile, \log, \long, \longleftarrow, \Longleftarrow, \longleftrightarrow, \Longleftrightarrow, \longmapsto, \longrightarrow, \loop, \looseness, \lor, \lower, \lowercase, \lq, \lslig, \lsstyle, \lstinline, \lstinputlisting, \lrbox, \ltx@ifnextchar, \LuaLaTeX, \LuaTeX, \mag, \magnification, \magstep, \magstephalf, \makeatletter, \makeatother, \makebox, \makefootline, \makeglossary, \makeheadline, \makeindex, \makelabel, \MakeLowercase, \maketitle, \MakeUppercase, \mapsto, \mapstochar, \marginpar, \marginparpush, \marginparsep, \marginparwidth, \mark, \markboth, \markright, \math, \mathaccent, \mathbf, \mathbin, \mathchar, \mathchardef, \mathchoice, \mathclose, \mathcode, \mathellipsis, \mathgroup, \mathhexbox, \mathinner, \mathit, \mathop, \mathopen, \mathord, \mathpalette, \mathparagraph, \mathpunct, \mathrel, \mathrm, \mathsection, \mathsf, \mathsterling, \mathstrut, \mathsurround, \mathtt, \mathunderscore, \mathversion, \matrix, \max, \maxdeadcycles, \maxdepth, \maxdimen, \mbox, \mdseries, \meaning, \medbreak, \medmuskip,

\message, \MessageBreak, \mho, \microtypecontext, \microtypesetup, \mid, \midinsert, \min, \minipage, \mit, \mkern, \models, \month, \moveleft, \moveright, \mp, \mscount, \mskip, \mu, \multicolumn, \multiply, \multiput, \multispan, \muskip, \muskipdef, \nabla, \narrower, \natural, \ne, \nearrow, \NeedsTeXFormat, \neg, \negthinspace, \neq, \newbox, \newbool, \newcommand, \newcount, \newcounter, \newdimen, \newenvironment, \newfam, \newfont, \newfontfamily, \newhelp, \newif, \newinsert, \newlabel, \newlanguage, \newlength, \newline, \newlinechar, \newmathalphabet, \newmuskip, \newpage, \newread, \newrobustcmd, \newsavebox, \newskip, \newtheorem, \newtoks, \NewTranslation, \newwrite, \next, \ng, \NG, \ni, \noalign, \noboundary, \nobreak, \nobreakspace, \nocite, \nocorr, \nocorrlist, \node, \noexpand, \nofiles, \noindent, \nointerlineskip, \nolimits, \nolinebreak, \nonfrenchspacing, \nonscript, \nonstopmode, \nonumber, \nopagebreak, \nopagenumbers, \normalbaselines, \normalbaselineskip, \normalbottom, \normalcolor, \normalfont, \normalmarginpar, \normallineskip, \normallineskiplimit, \normalsize, \notblank, \nopagebreak, \not, \notin, \nu, \null, \nulldelimiterspace,

\medskip, \medskipamount,

\nullfont, \number, \numberline, \numexpr, \nwarrow, \o, \0, \oalign, \obeycr, \obeylines, \obeyspaces, \oddsidemargin, $\odot, \oe, \oE, \of,$ \offinterlineskip, \oint, \ointop, \oldstyle, \oldstylenums, \omega, \Omega, \ominus, \omit, \onecolumn, \ooalign, \openin, \openout, \openup, \oplus, \OptionNotUsed, \or, \oslash, \otimes, \othersectionlevelsformat, \outer, \output, \outputpenalty, \oval, \over, \overbrace, \overfullrule, \overleftarrow, \overline, \overrightarrow, \overwithdelims, \owns, \P, \PackageError, \PackageInfo, \PackageWarning, \PackageWarningNoLine, \pagebody, \pagebreak, \pagecontents, \pagedepth, \pagefilllstretch, \pagefillstretch, \pagefilstretch, \pagegoal, \pageinsert, \pageno, \pagenumbering, \pageref, \pageshrink, \pagestretch, \pagestyle, \pagetotal, \paperheight, \paperwidth, \par, \paragraph, \paragraphmark, \parallel, \parbox, \parfillskip, \parindent, \parsep, \parshape, \parskip, \part, \partformat, \partial, \partname, \partopsep, \PassOptionsToClass, \PassOptionsToPackage, \patchcmd, \patterns, \pausing, \pdfLaTeX, \pdfstringdefDisableCommands, \rightharpoondown, \pdfTeX, \penalty, \perp, \pgfkeys, \phantom, \phi, \Phi, \pi, \Pi, \picture,

\plainoutput, \pm, \pmatrix, \pmod, \poptabs, \postdisplaypenalty, \pounds, \Pr, \prec, \preceq, \predisplaypenalty, \predisplaysize, \preloaded, \preto, \pretolerance, \prevdepth, \prevgraf, \prime, \printacronyms, \printbibliography, \printendnotes, \printindex, \ProcessPgf0ptions, \ProcessOptions, \proclaim, \prod, \propto, \protect, \protected, \protecting, \providecommand, \providerobustcmd, \ProvidesClass, \ProvideDictionaryFor, \ProvidesFile, \ProvidesPackage, \ProvideTextCommand, \psi, \Psi, \pushtabs, \put, \qbezier, \qbeziermax, \qquad, \quad, \r, \radical, \raggedbottom, \raggedleft, \RaggedLeft, \raggedright, \RaggedRight, \raise, \raisebox, \rangle, \rbrace, \rbrack, \rceil, \Re, \read, \recalctypearea, \ref, \refstepcounter, \relax, \relbar, \Relbar, \relpenalty, \removelastskip, \renewcommand, \renewenvironment, \renewrobustcmd, \RenewTranslation, \repeat, \RequirePackage, \RequirePackageWithOptions, \restorecr, \reversemarginpar, \rfloor, \rgroup, \rhd, \rho, \rhook, \right, \rightarrow, \Rightarrow, \rightarrowfill, \rightharpoonup, \righthyphenmin,

\rightline, \rightmargin, \rightmark, \rightskip, \rlap, \rm, \rmfamily, \rmoustache, \robustify, \roman, \Roman, \romannumeral, \root, \rootbox, \rq, \rule, \S, \samepage, \SaveTranslation, \SaveTranslationFor, \sb, \sbox, \scriptfont, \scriptscriptfont, \scriptscriptstyle, \scriptsize, \scriptspace, \scriptstyle, \scrollmode, \scshape, \searrow, \sec, \secdef, \section, \sectionmark, \selectfont, \selectlanguage, \setbox, \setcapindent, \setcounter, \SetExpansion, \SetExtraKerning, \SetExtraSpacing, \setfnpct, \setkomafont, \setlanguage, \setlength, \setmainfont, \setmainlanguage, \SetMathAlphabet, \setminus, \setmonofont, \setotherlanguage, \setotherlanguages, \SetProtrusion, \setsansfont, \SetSymbolFont, \settabs, \settodepth, \settoheight, \settowidth, \SetTracking, \sevenbf, \seveni, \sevensy, \sevenrm, \sfcode, \sffamily, \sharp, \shipout, \shorthandoff, \shorthandon, \shortstack, \show, \showbox, \showboxbreadth, \showboxdepth, \showhyphens, \showlists, \showoutput, \showoverfull, \showthe, \sidenote, \sigma, \Sigma, \sim, \simeq, \sin, \sinh, \skew, \skewchar, \skip, \skipdef, \sl, \slash, \slfam, \sloppy, \sloppypar, \slshape, \small, \smallbreak, \smallint, \smallskip, \smallskipamount, \smash,

\rightleftharpoons,

\smile, \sp, \space, \spacefactor, \spaceskip, \spadesuit, \span, \special, \splitbotmark, \splitfirstmark, \splitmaxdepth, \splittopskip, \sqcap, \sqcup, \sqrt, \sqsubset, \sqsubseteq, \sqsupset, \sqsupseteq, \ss, \SS, \stackrel, \star, \stepcounter, \stop, \stretch, \string, \strut, \strutbox, \subparagraph, \subparagraphmark, \subsection, \subsectionmark, \subset, \subseteq, \subsubsection, \subsubsectionmark, \succ, \succeq, \sum, \sup, \supereject, \suppressfloats, \supset, \supseteq, \surd, \swarrow, \symbol, \t, \tabalign, \tabbing, \tabbingsep, \tabcolsep, \tableofcontents, \tabskip, \tabular, \tabularnewline, \tabs, \tabsdone, \tabsyet, \tan, \tanh, \tau, \tenbf, \tenex, \teni, \tenit, \tenrm, \tensl, \tensy, \tentt, \TeX, \test, \textasciicircum, \textasciitilde, \textasteriskcentered, \textbackslash, \textbar, \textbf, \textbraceleft, \textbraceright, \textbullet, \textcircled, \textcompwordmark, \textcolor, \textdagger, \textdaggerdbl, \textdollar, \textellipsis, \textemdash, \textemdash, \textenglish, \textexclamdown, \textexclamdown, \textfloatsep, \textfont, \textfraction, \textgreater, \textindent,

\textit, \textheight, \textless, \textls, \textmicrotypecontext, \textmd, \textnormal, \textogonekcentered, \textparagraph, \textperiodcentered, \textquestiondown, \textquotedbl, \textquotedblleft, \textquotedblright, \textquoteleft, \textquoteright, \textregistered, \textrm, \textsc, \textsection, \textsf, \textsl, \textsterling, \textstyle, \textsuperscript, \textsection, \textsubscript, \textsuperscript, \textsterling, \TextSymbolUnavailable, \texttt, \texttrademark, \textunderscore, \textup, \textvisiblespace. \textwidth, \th, \TH, \thanks, \the, \theendnotes, \theenumi, \theenumii, \theenumiii, \theenumiv, \thefootnote, \thefootnotemark, \thempfn, \thempfn, \thempfootnote, \thepage, \thepart, \theta, \Theta, \thicklines, \thickmuskip, \thinlines, \thinmuskip, \thinspace, \thispagestyle, \tikz, \tilde, \time, \times, \tiny, \title, \to, \today toks, \toksdef, \tolerance, \top, \topfigrule, \topfraction, \topglue, \topins, \topinsert, \topmargin, \topmark, \topsep, \topskip, \totalheight, \tracingall, \tracingcommands, \tracingfonts, \tracinglostchars,

\tracingmacros, \tracingonline, \tracingoutput, \tracingpages, \tracingparagraphs, \tracingrestores, \tracingstats, \triangle, \triangleleft, \triangleright, \trivlist, \tt, \ttfam, \ttfamily, \ttraggedright, \two@digits, \twocolumn, \typein, \typeout, \u, \uccode, \uchyph, \unboldmath, \underbar, \underbrace, \underline, \unhbox, \unhcopy, \unitlength, \unkern, \unlhd, \unpenalty, \unrhd, \unskip, \unvbox, \unvcopy, \uparrow, \Uparrow, \upbracefill, \updownarrow, \Updownarrow, \uplus, \uppercase, \upsilon, \Upsilon, \upshape, \usebox, \usecounter, \usefont, \UseMicrotypeSet, \usepackage, \UseTextAccent, \UseTextSymbol, \upshape, \v, \vadjust, \valign, \value, \varepsilon, \varphi, \varpi, \varrho, \varsigma, \vartheta, \vbadness, \vbox, \vcenter, \vdash, \vdots, \vec, \vector, \vee, \verb, \verbatim, \vert, \Vert, \vfil, \vfill, \vfilneg, \vfootnote, \vfuzz, \vglue, \vline, \voffset, \vphantom, \vrule, \vsize, \vskip, \vspace, \vsplit, \vss, \vtop, \wd, \wedge, \widehat, \widetilde, \widowpenalty, \width, \wlog, \wp, \wr, \write, \xdef, \xdefinecolor, \XeLaTeX, \XeTeX, \xi, \Xi, \xleaders, \xspaceskip, \year, \zeta

C. List of Known LATEX Environments

Below are listed all *predefined* control sequence names that are treated as "silent" names by **CNLTX**, that is, those defined by **CNLTX-LISTINGS**.

array, center, description, itemize, labeling, list, sidisplaymath, document, longtable, lrbox, math, takenumerate, eqnarray, equation, minipage, otherlanguage, figure, flushleft, flushright, picture, quote, quoting,

sloppypar, tabbing, table,
tabu, tabular, tabularx,
tabulary, trivlist, verbatim

D. List of Entries in cnltx.bib

Most entries in cnltx.bib are entries of the @package type. The cite keys that the file currently contains are listed below. This list is very likely to be extended significantly in the future.

pkg:abbrevs (@package), bnd:exsheets (@bundle), pkg:mathtools (@package), pkg:accsupp (@package), pkg:exsol (@package), pkg:mdframed (@package), pkg:fontenc (@package), pkg:acro (@package), pkg:mfirstuc (@package), pkg:acromake (@package), pkg:fourier(@package), pkg:microtype (@package), pkg:acronym (@package), pkg:glossaries (@package), pkg:multicol (@package), pkg:acroterm (@package), pkg:graphicx (@package), pkg:multienum (@package), pkg:amsmath (@package), pkg:hologo (@package), pkg:newtx (@package), pkg:answers (@package), pkg:hyperref (@package), pkg:nicefrac (@package), pkg:babel (@package), pkg:idxcmds (@package), pkg:nomencl (@package), pkg:bm (@package), pkg:ifluatex (@package), pkg:pgf (@package), pkg:biblatex (@package), pkg:ifpdf (@package), pkg:pgfopts (@package), pkg:catchfile(@package), pkg:ifxetex (@package), pkg:pgfplots (@package), pkg:chemfig (@package), pkg:imakeidx (@package), pkg:polyglossia (@package), pkg:chngcntr(@package), bnd:koma-script (@bundle), pkg:probsoln (@package), bnd:cnltx (@bundle), pkg:kpfonts (@package), pkg:ragged2e (@package), bnd:l3experimental (@bundle), cls:cnpkgdoc (@class), pkg:siunitx (@package), pkg:enumitem (@package), bnd: 13kernel (@bundle), pkg:textgreek (@package), bnd:l3packages (@bundle), pkg:environ (@package), pkg:translations (@package), pkg:eqexam (@package), pkg:libertine (@package), pkg:trimspaces (@package), pkg:esami (@package), pkg:listings (@package), pkg:etoolbox (@package), pkg:longtable (@package), pkg:ulem (@package), pkg:upgreek (@package), cls:exam (@class), pkg:ltxcmds (@package), pkg:xcolor (@package), pkg:examdesign (@package), pkg:marginnote (@package), pkg:exercise (@package), pkg:mathdesign (@package), pkg:xspace (@package)

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F. Index

A	\cnltx@@info44
abstract28, 30 f.	\cnltx@@version 44
abstract-format28	\cnltx@accsupp 49
abstract-width28	\cnltx@babel@options33
accsupp (package) 5, 48 f.	\cnltx@base@error44
acro (package)	\cnltx@base@info44
acronym-format23	\cnltx@base@warning44
\AD26	\cnltx@base@warningnoline 44
add-bib4, 33, 35	\cnltx@bibtex@listings@style38
$\verb add-cmds \dots \dots$	\cnltx@caption@font33
add-envs	\cnltx@captionlabel@font
add-frame-options17, 36	\cnltx@copyablespace48
add-index 4, 29, 33, 35	\cnltx@create@bundle@message44
add-listings-options18, 36	\cnltx@create@generic@message44
$\verb add-silent-cmds \dots \dots$	\cnltx@create@message44
add-silent-envs	\cnltx@define@colorscheme44
after-code11	\cnltx@doc@error
after-output11	\cnltx@doc@info
\AM26	\cnltx@doc@warning46
arg-format28	\cnltx@doc@warningnoline
\argumentformat27	\cnltx@example@error47
Arseneau, Donald 5	\cnltx@example@info47
authors 29	\cnltx@example@warning47
_	\cnltx@example@warningnoline47
В	\cnltx@expandargs45
babel (package)	\cnltx@getfileinfo47
babel-options	\cnltx@gobble
bar15	\cnltx@if@in46
baz	\cnltx@ifbang
\BC26	\cnltx@ifdash
biblatex (package)	\cnltx@ifisnum
\boolkey8	\cnltx@ifnextchars45
Boruvka, Audrey	\cnltx@ifpunctuation19
build-title30	\cnltx@ifsym45
C	\cnltx@isvalue
C continue font	\cnltx@listings@error48
caption-font 28 caption-label-font 28	\cnltx@listings@info48
Carlisle, David	\cnltx@listings@style 36, 48
catchfile (package)	\cnltx@listings@warning48
\cf25	\cnltx@listings@warningnoline48
\changedversion	\cnltx@long@remove@all
chngcntr (package)	\cnltx@long@remove@once
\choicekey	\cnltx@long@replace@all
\choices	\cnltx@long@replace@once
class	\cnltx@mdframed@options
\classformat27	\cnltx@package@date47
\cls	\cnltx@package@info
cls-format	\cnltx@package@version
\clsidx 9	\cnltx@par45
\cnltx@@date44	\cnltx@predefined@control@sequences49

INDEX

\cnltx@predefined@environments49	E
\cnltx@remove@all46	\eg25
\cnltx@remove@once46	email30 f.
\cnltx@replace@all46	\env 6, 16, 37 ff., 41 f.
\cnltx@replace@once46	\envidx6, 38, 48
\cnltx@stripbs 46	\environment
\cnltx@tools@error49	environments (environment)
\cnltx@tools@info49	\etc25
\cnltx@tools@warning49	etoolbox (package) 5, 45
\cnltx@tools@warningnoline49	example (environment)
\cnltx@trailpunct19	\exampleformat
\cnltx@treat@lst@index 48	\expandable
\cnltx@version@note47	expandable-sign
\cnltxacronym	\expandablesign12 f.
\cnltxat47 f.	expl-format28
\cnltxbang	
\cnltxequal	F
\cnltxlatin	foo14 f.
\cnltxletterat	frame-options
cnltxlist (environment)	, , ,
\cnltxotherat	G
cnltxquote (environment)	glossaries (package)
	gobble
\cnltxtimeformat	Gregorio, Enrico
cnpkgdoc (class)3	
\code	Н
code-font	Heinz, Carsten
code-left	Hoffmann, Jobst3, 5, 17 f., 36, 48
code-only16	hyperref (package) 5, 39 f.
code-sep	71 4 67
\codefont	I
\command	idxcmds (package)5, 47
commands (environment)	\ie25
\cs6, 12 f., 27 f., 37 ff., 41 f., 47	\iftest45
\csidx6, 17, 48	imakeidx (package)33 f.
\CTAN9	\implementation
CTAN 5, 8 f., 29, 33	index-prologue
\ctan8 f., 23	index-setup
\CTANurl9	index-space34
	index-style 4, 33 f.
D	\indexcs
Daniel, Marco	\indexenv48
\Darg 7	info
\darg 7	\inputexample9f.
date 30	\inputsidebysidegf.
\DeclareCounterRepresentation20	\inputsourcecode
\DeclareTranslation42	
\defabbr23	K
\Default 12 ff.	Kern, Uwe
\default	key
default-format	\key
\definecolorscheme4off.	\keybool
\Dsh	\keychoice
\dsh	\keyis 7
3	- · · · · · · · · · · · · · · · · · · ·

INDEX

\keyval 13 f. Kime, Philip 34 Kohm, Markus 5 KOMA-Script (bundle) 5	\newsourcecodeenv
	0
L	\0arg 7
Lehman, Philipp5, 34	\oarg
\license8	Oberdiek, Heiko 5, 39, 48
list-sep49	\opt12 ff.
list-setup10	\option
\listbibfileentries49	\optionidx7
\listbibfilekeys49	options (environment) 10, 13 f., 16, 47
\listbibfiletypes49	_
listings (package)	P
listings-options	package29 f.
\listsilentcmds	\packageformat27
\listsilentenvs	PDF23, 39 f.
load-preamble	pgfopts (package) 5
load-preamble+	\pkg
\LPPL	pkg-format28
LPPL	\pkgidx
\lppl	\PM26
Itxcmds (package) 5	pre-code
W	pre-output11
M	\providecounterrepresentation20
makeindex-setup	\provideexpandablecmd22
\MakePercentComment	
\Marg	Q
\marg	quote-author-format31
marginnote (package)5	quote-format31
mdframed (package) 3, 5, 16 f., 36, 48	n
\meta	R
Mittelbach, Frank5	ragged2e (package)
\Module	Rahtz, Sebastian
\module	\renewabbr23
module-sep	\renewcounterrepresentation21
\moduleidx7	\renewexpandablecmd22
Moses, Brooks	Robertson, Will
multicol (package)5	c
N	S
N	\sarg
name	scrartcl
name	scrartcl (class)
\needclass	set-trail-punct
\needpackage	\setcnltx 6, 18, 28, 33
\\newabbr	
3	side-by-side 16 f. sidebyside (environment) 9, 11, 17
lem:lem:lem:lem:lem:lem:lem:lem:lem:lem:	
\newexpandablecmd	\sinceversion
\newinputsourcefilecmd	sourcecode (environment)
\newname	sourcecode-options
\newnote	
	\sourceformat
\newpackagename8 f.	subtitle30

INDEX

T	version30
Talbot, Nicola L.C23	version-note-format28
title-format27	\versionnoteformat27
\titleformat31	\Vgl26
translations (package) 5, 42	\vgl 26
trimspaces (package) 5	
U ulem (package) 5	W Wilson, Peter
\unexpandable	Wright, Joseph
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