CNLTXAMPLE

Documentation for LATEX 2ε Packages or Classes

? ?

LATEX examples the CN way

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A bundle of a package and a class for consistent format of control sequences, package options, source code with examples, writing a package manual (including an index containing the explained control sequences, options, ...).

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1 Background

The CNLTX bundle contains of a package and a class both with the same name. I developed them as a successor of a class that I used for writing the documentation of my packages with the intention of a cleaner interface and less unnecessary ballast. Hence the separation into package and class. The package provides a source code environment that also prints the output and defines quite a number of macros for formatting of control sequence names, package names, package options and so on. The best documentation for the bundle as always is the source code but I'm trying to provide a documentation as comprehensive as possible.

2 License and Requirements

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

The CNLTX package loads the following packages: etoolbox, xcolor, pgfopts, listings, trimspaces, accsupp, mdframed and idxcmds.

The CNLTX class loads the package with the same name and additionally the following packages: ulem,⁹ multicol,¹⁰ ragged2e,¹¹ marginnote¹² and hyperref.¹³ It is a wrapper class for the KOMA-Script class scrartcl.¹⁴

Like all of my packages **CNLTX** implicitly relies on an up to date TeX distribution.

3 Options and Setup

The CNLTX bundle has a number of options. The package knows most of them as package option, the class only knows the load-preamble (described in section 7.3). All options except the one class option regardless if they're defined by the package or the class can be set with a setup command:

\setcnltxample{ $\langle options \rangle$ } setup command for CNLTX.

^{1.} on CTAN as etoolbox: http://mirrors.ctan.org/macros/latex/contrib/etoolbox/

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

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

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

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

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

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

 $^{8.\} on\ \mathtt{CTAN}\ as\ \mathtt{idxcmds:http://mirrors.ctan.org/macros/latex/contrib/idxcmds/latex/contrib/idxcmds/latex/contrib/idxcmds/latex/contrib/idxcmds/latex/late$

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

^{10.} on CTAN as multicol: http://mirrors.ctan.org/macros/latex/required/tools/multicol/

^{11.} on CTAN as ragged2e: http://mirrors.ctan.org/macros/latex/contrib/ms/ragged2e/

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

^{13.} on CTAN as hyperref: http://mirrors.ctan.org/macros/latex/contrib/hyperref/

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

The source code environments also have optional arguments that can be used to set the options for the environment locally.

4 Available Commands

4.1 Description of Macros, Environments and Options

provided by the CNLTX-EXAMPLE package

The commands described in this section all are provided by the CNLTX 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.

```
\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 $\langle name \rangle$.

$\mbox{meta}\{\langle meta\rangle\}$

Description of an argument, $\mbox{meta}{\mbox{meta}}$: \mbox{meta} .

$\mbox{marg}\{\langle arg \rangle\}$

A mandatory argument. $\langle arg \rangle$ is formatted with \meta if it is not blank, \marg{arg}: $\{\langle arg \rangle\}$.

$\operatorname{\mathsf{oarg}}\{\langle arg \rangle\}$

An optional argument. $\langle arg \rangle$ is formatted with \meta if it is not blank, \oarg{arg}: $[\langle arg \rangle]$.

$\langle darg\{\langle arg \rangle\}$

An argument with parentheses as delimiters. $\langle arg \rangle$ is formatted with \meta if it is not blank, \darg{arg}: ($\langle arg \rangle$).

\sarq

An optional star argument, \sarg: *.

$\operatorname{option} \{\langle name \rangle\}$

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{optionidx}}\{\langle name \rangle\}
                                               Adds an index entry but does not typeset the option \langle name \rangle.
                                        \key*{\langle name \rangle} {\langle values \rangle}
                                               A key \langle name \rangle with values \langle values \rangle, \langle key \{ key \} \{ value \} : key = \{ \langle value \rangle \}; \langle key * \{ key \} \{ value \} : key = \{ \langle value \rangle \}; \langle key * \{ key \} \{ value \} : key = \{ \langle value \rangle \}; \langle key * \{ key \} \{ value \} : key = \{ \langle value \rangle \}; \langle key * \{ key \} \{ value \} : key = \{ \langle value \rangle \}; \langle key * \{ key \} \{ value \} : key = \{ \langle value \rangle \}; \langle key * \{ key \} \{ value \} : key = \{ \langle value \rangle \}; \langle key * \{ key \} \{ value \} : key = \{ \langle value \rangle \}; \langle key * \{ key \} \{ value \} : key = \{ \langle value \rangle \}; \langle key * \{ key \} \{ value \} : key = \{ \langle value \rangle \}; \langle key * \{ key \} \{ value \} : key = \{ \langle value \rangle \}; \langle key * \{ key \} \{ value \} : key = \{ \langle value \rangle \}; \langle key * \{ key \} \{ value \} : key = \{ \langle value \rangle \}; \langle key * \{ key \} \{ value \} : key = \{ \langle value \rangle \}; \langle key * \{ key \} \{ value \} : key = \{ \langle value \rangle \}; \langle key * \{ key \} \{ value \} : key = \{ \langle value \rangle \}; \langle key * \{ key \} \{ value \} : key = \{ \langle value \rangle \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \{ value \} \}; \langle key * \{ key \} \}
                                                key = \langle value \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 \{ key \} \{ one, two, three \} : key = one |
                                                two|three
                                        \bookey{\langle name \rangle}
                                               A boolean key \langle name \rangle with choices true and false, \boolkey{key}: key = true|false
                                        \default{\langle value \rangle}
                                               Markup for a default choice, \choices {one, \default {two}}, three}: one|two|three
                                               4.2 Versioning Commands, Licensing and Related Stuff
provided by the
                                               The commands described in this section are provided by the CNLTX class except where indicated
CNLTX-DOC class
                                               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 \range}
                                               Gives a sidenote like the one on the left.
                                        \lppl
                                               Typesets "LPPL" and adds a corresponding index entry.
                                        \LPPL
                                               Typesets "IATEX Project Public License" and adds a the same index entry as \lppl.
                                        \license*
                                               Typesets 'Permission is granted to copy, distribute and/or modify this software under the terms
                                                of the LATEX Project Public License, version 1.3 or later (http://www.latex-project.org/
                                                lppl.txt). The package has the status "maintained.". The un-starred variant adds a \par.
```

Typesets "CTAN" and adds a corresponding index entry.

\CTAN

Introduced in version o.o

Changed in version o.o

Typesets "Comprehensive TEX Archive Network" and adds the same index entry as \ctan.

 $\protect\operatorname{pkg} \{\langle package \rangle\}$

provided by the CNLTX-EXAMPLE

Format the package name \(\langle package \rangle\) and add an index entry. The starred variant adds nothing to the index.

package

\pkgidx{\package\}

Add an index entry for the package $\langle package \rangle$. provided by the

CNLTX-EXAMPLE

 $\cls*{\langle class \rangle}$ package

CNLTX-EXAMPLE

provided by the Format the class name (class) and add an index entry. The starred variant adds nothing to the

index.

package

\clsidx{\langle class\rangle}

provided by the

Add an index entry for the class $\langle class \rangle$.

CNLTX-EXAMPLE package

 $\CTANurl[\langle f \rangle]$ directory

 $\{\langle name \rangle\}$ Writes a CTAN link like the ones in section 2 in the footnotes. The predefined directory is macros/latex/contrib.

4.3 Formatting Commands

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 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 8.

4.3.1 Formatting by Redefining Hooks

You can change the formatting by redefining the following commands. They're all defined by the **CNLTX** 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.

\versionnoteformat Default: \footnotesize\sffamily\RaggedRight

Formatting of the notes introduced in section 4.2. provided by the **CNLTX-DOC class**

> \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}
                     code{foo} and \cs*{bar}, option \option{baz}
                         foo and \bar, option baz
                 4.3.2 Formatting by Setting Options
                 You can change the formatting by setting the following options. They're all defined by the
                 CNLTX package except where indicated differently.
              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.
              version-note-format = \{\langle definition \rangle\}
                                                               Default: \footnotesize\sffamily\RaggedRight
provided by the
                 Formatting of the notes introduced in section 4.2.
CNLTX-DOC class
              pkg-format = \{\langle definition \rangle\}
                                                                                               Default: \sffamily
                The formatting of package names.
              cls-format = \{\langle definition \rangle\}
                                                                                               Default: \sffamily
                 The formatting of class names.
```

```
The formatting of \mbox{meta}\{\langle\textit{meta}\rangle\}.
```

Default: \normalfont\itshape

foo and \bar, option baz

\setcnltxample{code-font=\sffamily\itshape}
\code{foo} and \cs*{bar}, option \option{baz}

 $arg-format = \{\langle definition \rangle\}$

5 Available Environments

CNLTX defines a few environments most of them related to the way how descriptions of commands are typeset.

The example environment is defined by the CNLTX package, the others are defined by the class.

$\begin{example} [\langle options \rangle]$

This environment is a formatted verbatim environment that also inputs the output of the inputted code. This environment is described in section 6.4.

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

This environment is a formatted verbatim environment. This environment is described in section 6.4.

\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 6.1.

\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 6.2.

\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 6.3.

Except for the example and the sourcecode environments the environments are lists all using the same internal \list. The setup uf this list can be changed via an option:

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

 $Default: \verb|\labelwidth=2em \labelsep=0pt \$

6 Usage

6.1 Command Descriptions

Inside of the environment commands that was introduced in section 5 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.

$\Default{\langle code \rangle}$

This command can be placed after \command in order to give a default definition. The definition will then be placed on the same line flush right.

```
\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}
10 \end{commands}
\cs
  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.
                                                                     Default: foo bar
  This one has the default replacement text foo bar
```

6.2 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 star prevents an index entry.

```
\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.

```
\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.
     \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.
     \keyval*{foo}{bar}
11
       This makes stuff. Let's add a few more words so that the line gets
12
       filled and we can see how the output actually looks.
     \keychoice{foo}{one,two,three}
14
       This makes stuff. Let's add a few more words so that the line gets
15
       filled and we can see how the output actually looks.
16
     \keybool{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.
19
   \end{options}
```

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.

```
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
```

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.

6.3 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.
```

6.4 Example Code

Example code can be included through the example environment or the sourcecode environment.

```
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: this is already what that environment does.

```
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 ...).

The same example again, this time using side-by-side:

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

a LATEX code example

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

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

(initially empty)

Add options to the predefined ones.

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

Default: backgroundcolor=cnltxamplebg,linecolor=cnltxample,roundcorner=5pt Overwrite the options with new ones.

The source code is formatted using the listings package. Similar options exist to adapt listings' options that are used for formatting the source code. The predifined style has many options that will not be mentioned here. If you're interested you can find them in cnltxample.sty.

```
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 environments.

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

Overwrite existing options with new ones. This can be used to build an own style from scratch.

```
add-envs = {\langle list \ of \ environment \ names \rangle}
```

(initially empty)

Like add-cmds but for environment names.

7 Package or Class Information, Building of the Manuals Title Page

7.1 Package or Class Information

A manual for a package or a class needs some information 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 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 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\}
```

Comma separated list of package/class authors.

```
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 that is typeset *instead* of the package/class info.

```
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.

7.2 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 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.

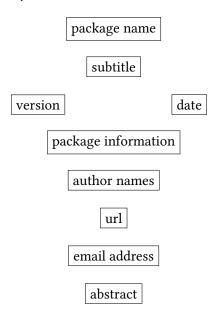


Figure 1: Schematic sketch of the title page.

7.3 Predefined Preamble

It is posssible 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:

Predefined Colors and Color-Schemes

Index

A	\env 3, 10	N
abstract13	\envidx3	name 3
accsupp 2	\environment10	Niederberger, Clemens1
$\verb add-cmds \dots \dots$	environments (environment). 7, 10	
add-envs12	etoolbox2	0
add-frame-options11	example (environment)7, 10 f.	\oarg3, 8, 10
add-listings-options12	\exampleformat5	\opt8 f.
add-silent-cmds11	expl-format6	\option3, 6, 8
arg-format 6		\optionidx4
\argumentformat6	F	options (environment)7-10
authors12	f009f.	
	frame-options11	P
В	· ·	package12 f.
baz 6	G	\packageformat5
<i>baz</i> 6	gobble11	pgfopts2
\boolkey4	3	\pkg 5
	Н	pkg-format 6
C	hyperref2	\pkgidx5
\changedversion4	71	
\choicekey4	I	R
\choices4	idxcmds 2	ragged2e 2
class12 f.	info12	
\classformat6		S
\cls5	K	\sarg 3, 8
cls-format 6	key 4	scrartcl2
\clsidx5	\key 4	\setcnltxample
\code3, 6, 8, 10 f.	\keybool8f.	side-by-side11
code-font6	\keychoice 8 f.	\sinceversion4
code-only11	\keyval8 f.	source-format6
\codefont 5 f.	(no) racinition	sourcecode (environment) 7, 10 f.
\command7 f.	L	\sourceformat5
commands (environment)7 f.	\license4	subtitle12
\cs3, 6 ff.	list-setup7	T
\csidx3, 11	listings2, 11 f.	T
\CTAN 4	listings-options12	trimspaces2
CTAN	load-preamble	U
\ctan 4	\LPPL 4	_
\CTANurl5	LPPL	ulem
D	\lbpl 4	url12
D	(срес	V
\darg 3	M	version12
date	\marg3, 8	version-note-format6
\Default8f.	marginnote 2	\versionnoteformat5
\default4,8	mdframed 2, 11	(ver stolling fer or ling f 2
E	\meta3, 6	X
email13	multicol	xcolor