

# THE CNLTX BUNDLE

Documentation for L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub> Packages or Classes

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L<sup>A</sup>T<sub>E</sub>X examples the CN way

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A bundle of packages and classes 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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## Part I.

# About The Bundle

### 1. Background

The **CNLTX** bundle contains different packages and classes. I developed it as a successor of my class `cnpkgdoc` that I used for writing the documentation of my packages. The intention behind this is a cleaner interface and less unnecessary ballast, hence the separation into packages and classes. The bundle provides source code environments that also print the output and defines quite a number 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 may want to add programming tools that I use often 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 possible that **CNLTX-BASE** will get extended in the future.

The best documentation for the bundle as always is the source code of the `sty` and `cls` files but I'm trying to provide a documentation as comprehensive as possible. This is one of the reasons why this documentation is noticeably longer than the one for `cnpkgdoc`.

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. The manual is always created parallel but separately. 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.

## 2. Bundled Packages and Classes

The **CNLTX** bundle currently bundles the following packages and classes:

- **CNLTX-BASE** – a package that defines base macros for error-messaging, expansion control and tokenlist manipulation. It also provides color definitions and defines a few color schemes for the **CNLTX-DOC** class. All other packages and classes of the **cnbundle** load this package.

This package can be loaded alone.

- **CNLTX-EXAMPLE** – a package that defines macros and environments for describing control sequences and options and for including source code.

This package can be loaded alone.

- **CNLTX-CSNAMES** – a package that defines a list of highlighted control sequence names, loaded by **CNLTX-EXAMPLE**.

It does not make sense to load this package directly: it only defines a single macro containing the list of control sequence names. The package only exists for maintenance reasons.

The list is by no means comprehensive. If you like to extend it feel free to fork the github repo (<https://github.com/cgnieder/cnltx>). That would be very much appreciated.

- **CNLTX-TOOLS** – a package that defines tools used by **CNLTX-DOC** that are unrelated to  $\text{\LaTeX}$  documentation *per se*.
- **CNLTX-DOC** – a class for writing package manuals. Loads **CNLTX-EXAMPLE** and **CNLTX-TOOLS**.

## 3. License and Requirements

Permission is granted to copy, distribute and/or modify this software under the terms of the  $\text{\LaTeX}$  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: **pgfopts**,<sup>1</sup> **etoolbox**,<sup>2</sup> **trimspaces**<sup>3</sup> and **xcolor**.<sup>4</sup>

The **CNLTX-CSNAMES** package only loads **CNLTX-BASE**.

The **CNLTX-EXAMPLE** package loads the following packages: **CNLTX-BASE**, **CNLTX-TOOLS**, **translations**,<sup>5</sup> **listings**,<sup>6</sup> **mdframed**<sup>7</sup> and **idxcmds**.<sup>8</sup>

---

1. on CTAN as **pgfopts**: <http://mirrors.ctan.org/macros/latex/contrib/pgfopts/>

2. on CTAN as **etoolbox**: <http://mirrors.ctan.org/macros/latex/contrib/etoolbox/>

3. on CTAN as **trimspaces**: <http://mirrors.ctan.org/macros/latex/contrib/trimspaces/>

4. on CTAN as **xcolor**: <http://mirrors.ctan.org/macros/latex/contrib/xcolor/>

5. on CTAN as **translations**: <http://mirrors.ctan.org/macros/latex/contrib/translations/>

6. on CTAN as **listings**: <http://mirrors.ctan.org/macros/latex/contrib/listings/>

7. on CTAN as **mdframed**: <http://mirrors.ctan.org/macros/latex/contrib/mdframed/>

8. on CTAN as **idxcmds**: <http://mirrors.ctan.org/macros/latex/contrib/idxcmds/>

The **CNLTX-TOOLS** package loads **CNLTX-BASE** and **accsupp**.<sup>9</sup>

The **CNLTX-DOC** class loads the package with the same name and additionally the following packages: **CNLTX-BASE**, **CNLTX-EXAMPLE**, **translations**, **ulem**,<sup>10</sup> **multicol**,<sup>11</sup> **ragged2e**,<sup>12</sup> **marginnote**<sup>13</sup> and **hyperref**.<sup>14</sup> It is a wrapper class for the KOMA-Script class **scrartcl**.<sup>15</sup>

Like all of my packages **CNLTX** implicitly relies on an up to date **T<sub>E</sub>X** distribution.

## Part II.

# Details of Available Commands, Environments and Options

### 4. Options and Setup

The **CNLTX** bundle has a number of options. The **CNLTX-DOC** class only knows the **load-preamble** (described in section 9.3) as a *class* option. All other options regardless if they're defined by a package or a class can be set with a setup command:

`\setcnltx{<options>}`  
setup command for **CNLTX**.

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 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{<arg>}`  
Formatting of source code. This is *no* verbatim command. Used internally in the following commands.

Introduced in  
version 0.2

`\verbatimcode<delim><code><delim>`  
A verbatim command that uses the same formatting as the source code example environments. This is a wrapper for `\lstinline` which loads the corresponding style.

- 
- 9. on CTAN as **accsupp**: <http://mirrors.ctan.org/macros/latex/contrib/oberdiek/accsupp/>
  - 10. on CTAN as **ulem**: <http://mirrors.ctan.org/macros/latex/contrib/ulem/>
  - 11. on CTAN as **multicol**: <http://mirrors.ctan.org/macros/latex/required/tools/multicol/>
  - 12. on CTAN as **ragged2e**: <http://mirrors.ctan.org/macros/latex/contrib/ms/ragged2e/>
  - 13. on CTAN as **marginnote**: <http://mirrors.ctan.org/macros/latex/contrib/marginnote/>
  - 14. on CTAN as **hyperref**: <http://mirrors.ctan.org/macros/latex/contrib/hyperref/>
  - 15. on CTAN as **koma-script**: <http://mirrors.ctan.org/macros/latex/contrib/koma-script/>

## 5. Available Commands

`\cs*{⟨name⟩}`

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

`\csidx{⟨name⟩}`

Adds an index entry but does not typeset the control sequence `⟨name⟩`.

`\env*{⟨name⟩}`

Format the environment `⟨name⟩`, `\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.

`\envidx{⟨name⟩}`

Adds an index entry but does not typeset the environment `⟨name⟩`.

`\meta{⟨meta⟩}`

Description of an argument, `\meta{meta}`: `⟨meta⟩`.

`\marg{⟨arg⟩}`

A mandatory argument. `⟨arg⟩` is formatted with `\meta` if it is not blank, `\marg{arg}`: `{⟨arg⟩}`.

`\Marg{⟨arg⟩}`

A mandatory argument. `⟨arg⟩` is formatted with `\code` if it is not blank, `\Marg{arg}`: `{arg}`.

Introduced in  
version 0.2

`\oarg{⟨arg⟩}`

An optional argument. `⟨arg⟩` is formatted with `\meta` if it is not blank, `\oarg{arg}`: `[⟨arg⟩]`.

`\Oarg{⟨arg⟩}`

An optional argument. `⟨arg⟩` is formatted with `\code` if it is not blank, `\Oarg{arg}`: `[arg]`.

Introduced in  
version 0.2

`\darg{⟨arg⟩}`

An argument with parentheses as delimiters. `⟨arg⟩` is formatted with `\meta` if it is not blank, `\darg{arg}`: `(⟨arg⟩)`.

`\Darg{⟨arg⟩}`

An argument with parentheses as delimiters. `⟨arg⟩` is formatted with `\code` if it is not blank, `\Darg{arg}`: `(arg)`.

Introduced in  
version 0.2

`\sarg`

An optional star argument, `\sarg`: `*`.

`\option*{⟨name⟩}`

An option `⟨name⟩`, `\option{name}`: `name`. Adds a corresponding index entry. The starred form does not add an index entry.

`\optionidx{⟨name⟩}`

Adds an index entry but does not typeset the option `⟨name⟩`.

## 5. Available Commands

`\key*-{<name>}{<value>}`

A key `<name>` with value `<value>`, the optional star prevents an index entry, the optional - strips the braces around `<value>`; `\key{key}{value}: key = {<value>}`; `\key-{key}{value}: key = <value>`

`\keyis*{<name>}{<value>}`

Introduced in  
version 0.2

A key `<name>` set to value `<value>`, the optional star prevents an index entry, `\key{keyis}{value}: key = value.`

`\choices{<clist of choices>}`

A list of choices, `\choices{one,two,three}: one|two|three`

`\choicekey{<name>}{<clist of choices>}`

A key `<name>` with a list of possible values, `\choicekey{key}{one,two,three}: key = one|two|three`

`\boolkey{<name>}`

A boolean key `<name>` with choices true and false, `\boolkey{key}: key = true|false`

`\default{<value>}`

Markup for a default choice, `\choices{one,\default{two},three}: one|two|three`

### 5.2. Versioning Commands, Licensing and Related Stuff

provided by the  
**CNLT**X-DOC class

The commands described in this section are provided by the **CNLT**X class except where indicated differently. These commands are related to information about the legal stuff of a package and where to find it on the world wide web.

`\sinceversion{<version>}`

Introduced in  
version 0.0

Gives a sidenote like the one on the left.

`\changedversion{<version>}`

Changed in  
version 0.0

Gives a sidenote like the one on the left.

`\newnote*{<cs>}[<num>]{<definition>}`

Defines a note like `\sinceversion`. The star makes the note macro short, `<num>` defines the number of mandatory arguments. Optional arguments are not possible. `\sinceversion` was defined as follows: `\newnote*\sinceversion[1]{Introduced in version~#1}`

`\newpackagename{<cs>}{<name>}`

Define a command `<cs>` that prints `<name>` formatted like **CNLT**X.

`\newname{<cs>}{<first name>}{<second name>}`

provided by the  
**CNLT**X-TOOLS  
package

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

`\lppl`

Typesets “LPPL” and adds a corresponding index entry.

## 5. Available Commands

### `\LPPL`

Typesets “ $\LaTeX$  Project Public License” and adds a the same index entry as `\lppl`.

### `\license*`[ $\langle$ *maintenance status* $\rangle$ ]

Default: maintained

Changed in  
version 0.2

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`

Typesets “CTAN” and adds a corresponding index entry.

### `\CTAN`

Typesets “Comprehensive  $\TeX$  Archive Network” and adds the same index entry as `\ctan`.

### `\cnltxacronym`{ $\langle$ *pdf and sort string* $\rangle$ }{ $\langle$ *acronym* $\rangle$ }

provided by the  
**CNLT**X-TOOLS  
package

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 `\lppl` and `\ctan`. *This is not intended as a replacement for packages like `acro` or `glossaries`!* In fact it is a “poor man’s” solution that allows me not to require one of those packages.

### `\pkg*`{ $\langle$ *package* $\rangle$ }

provided by the  
**CNLT**X-EXAMPLE  
package

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

### `\pkgidx`{ $\langle$ *package* $\rangle$ }

provided by the  
**CNLT**X-EXAMPLE  
package

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

### `\cls*`{ $\langle$ *class* $\rangle$ }

provided by the  
**CNLT**X-EXAMPLE  
package

Format the class name  $\langle$ *class* $\rangle$  and add an index entry. The starred variant adds nothing to the index.

### `\clsidx`{ $\langle$ *class* $\rangle$ }

provided by the  
**CNLT**X-EXAMPLE  
package

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

### `\CTANurl`[ $\langle$ *directory* $\rangle$ ]{ $\langle$ *name* $\rangle$ }

Writes a CTAN link like the ones in section 3 in the footnotes. The predefined directory is `macros/latex/contrib`. The link address will be:

<http://mirrors.ctan.org/⟨directory⟩/⟨name⟩/>.

### `\needpackage`[ $\langle$ *directory* $\rangle$ ]{ $\langle$ *name* $\rangle$ }

Introduced in  
version 0.2

A wrapper for `\pkg{#2}\footnote{\CTANurl{#1}{#2}}`

### `\needclass`[ $\langle$ *directory* $\rangle$ ]{ $\langle$ *name* $\rangle$ }

Introduced in  
version 0.2

A wrapper for `\cls{#2}\footnote{\CTANurl{#1}{#2}}`

```

1 \newpackagename{\foothree}{foo-3}%
2 now \foothree\ looks like \cnltx.
3
4 \newname\carlisle{David}{Carlisle}%
5 \carlisle\ is a well-known member of the \LaTeX\ community. \carlisle* is
6 the author of many packages such as \pkg*{longtable}.

```

---

now **FOO-3** looks like **CNLTX**.  
 David Carlisle is a well-known member of the  $\text{\LaTeX}$  community. Carlisle is the author of many packages such as longtable.

## 6. 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}**[\textit{options}]

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

**\begin{example\*}**[\textit{options}]

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.

**\begin{sourcecode}**[\textit{options}]

This environment is a formatted verbatim environment. This environment is described in section 7.4.

**\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 7.1.

**\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 7.2.

**\begin{environments}**

A description-like environment for describing environments. While this environment is a list



## 7. Usage

internally and thus recognizes `\item` own commands are used to describe environments. They are explained in section 7.3.

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

`list-setup = {\definitions}`

Default: `\leftmargin=0pt \labelwidth=2em \labelsep=0pt \itemindent=-1em`

The setup of the `\list` used by the commands, options and environments environments.

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 = {\definitions}`

`\definitions` are placed before the source code is inserted.

`after-code = {\definitions}`

`\definitions` are placed after the source code is inserted.

`pre-source = {\definitions}`

`\definitions` are placed before the output of the source code is inserted.

`after-source = {\definitions}`

`\definitions` are placed after the output of the source code is inserted.

## 7. Usage

### 7.1. Command Descriptions

Inside of the environment commands that was introduced in section 6 items are input via the following command:

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

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{\code}`

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.

```
1 \begin{commands}
2   \command{cs}
3     This is about foo bar baz.
4   \command{cs}[\marg{arg}]
5     This one has an argument.
6   \command{cs}[\sarg\oarg{option}]
```

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```
7   This has a star variant and an optional argument.
8   \command{cs}\Default{foo bar}
9   This one has the default replacement text \code{foo bar}
10  \end{commands}
```

---

`\cs`  
This is about foo bar baz.

`\cs{<arg>}`  
This one has an argument.

`\cs*[<option>]`  
This has a star variant and an optional argument.

`\cs` Default: foo bar  
This one has the default replacement text foo bar

### 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*-{<key>}{<value>}`  
A key/value option. The optional star prevents an index entry. The optional - strips the braces around <value>, see the example below.

`\keychoice*{<key>}{<list of choices>}`  
A key/value option where the value is one of a list of choices. The star prevents an index entry.

`\keybool*{<name>}`  
A boolean key, that is a choice key with choices true and false. The star prevents an index entry.

```
1  \begin{options}
2    \opt{foo}
3    This makes stuff. Let's add a few more words so that the line gets
4    filled and we can see how the output actually looks.
5    \opt*{foo}\Default{bar}
6    This makes stuff. Let's add a few more words so that the line gets
7    filled and we can see how the output actually looks.
8    \keyval{foo}{bar}\Default
```

## 7. Usage

```
9   This makes stuff. Let's add a few more words so that the line gets
10  filled and we can see how the output actually looks.
11  \keyval*{foo}{bar}
12  This makes stuff. Let's add a few more words so that the line gets
13  filled and we can see how the output actually looks.
14  \keyval-{foo}{bar}
15  This makes stuff. Let's add a few more words so that the line gets
16  filled and we can see how the output actually looks.
17  \keychoice{foo}{one,two,three}
18  This makes stuff. Let's add a few more words so that the line gets
19  filled and we can see how the output actually looks.
20  \keybool{foo}
21  This makes stuff. Let's add a few more words so that the line gets
22  filled and we can see how the output actually looks.
23  \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 = {⟨bar⟩}

(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 = {⟨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 = ⟨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 = 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*{⟨name⟩}[⟨stuff after⟩]`

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.

```

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

```

---

`\begin{foobar}[⟨options⟩]`

This is environment foobar. The star prevents it from being added to the index.

### 7.4. 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:

```

1 a \LaTeX\ code example

```

---

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.

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`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 ...).

`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.

`code-sep = {\definition}`

Default: `\hrulefill`

Code that is inserted between a source code and the corresponding output when printed below each other.

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

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

a  $\text{\LaTeX}$  code example

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

a  $\text{\LaTeX}$  code example

```
1 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 = {\mdframed options}`

(initially empty)

Add options to the predefined ones.

`frame-options = {\mdframed options}`

Default: `backgroundcolor=cnltxbg, linecolor=cnltx, 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 predefined style has many options that will not be mentioned here. If you're interested you can find them in `cnltx-csnames.sty` or in section B.

`gobble = \integer`

Default: 2

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

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

(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.

## 8. Formatting Possibilities

`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.

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

Like `add-silent-cmds` but for environment names.

## 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** 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.

### 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.

`\versionnoteformat` Default: `\footnotesize\sffamily\RaggedRight`

Formatting of the notes introduced in section 5.2.

provided by the  
**CNLTX-DOC** class

<code>\packageformat</code>	Default: <code>\sffamily</code>
The formatting of package names.	
<code>\classformat</code>	Default: <code>\sffamily</code>
The formatting of class names.	
<code>\argumentformat</code>	Default: <code>\normalfont\itshape</code>
The formatting of <code>\meta{⟨meta⟩}</code> .	

```

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 by setting the following options. They're all defined by the `CNLTX-EXAMPLE` package except where indicated differently.

Introduced in version 0.2	<code>title-format = {⟨definition⟩}</code>	Default: <code>\bfseries\scshape</code>
	Formatting of the document title.	
	<code>code-font = {⟨definition⟩}</code>	Default: <code>\ttfamily</code>
	Used for all formatting of source code.	
	<code>source-format = {⟨definition⟩}</code>	Default: <code>\codefont\small</code>
	Formatting of the listings.	
	<code>expl-format = {⟨definition⟩}</code>	(initially empty)
	Special formatting of the output of a listing.	
provided by the <code>CNLTX-DOC</code> class	<code>version-note-format = {⟨definition⟩}</code>	Default: <code>\footnotesize\sffamily\RaggedRight</code>
	Formatting of the notes introduced in section 5.2.	
provided by the <code>CNLTX-TOOLS</code> package	<code>acronym-format = {⟨definition⟩}</code>	Default: <code>\scshape</code>
	Formatting of the acronyms as typeset with <code>\cnltxacronym</code> .	
	<code>pkg-format = {⟨definition⟩}</code>	Default: <code>\sffamily</code>
	The formatting of package names.	
	<code>cls-format = {⟨definition⟩}</code>	Default: <code>\sffamily</code>
	The formatting of class names.	
	<code>arg-format = {⟨definition⟩}</code>	Default: <code>\normalfont\itshape</code>
	The formatting of <code>\meta{⟨meta⟩}</code> .	

Introduced in  
version 0.2

`default-format = {\code}`

Default: `\uline`

The formatting of `\default`'s argument. `\code`'s last macro should take one argument.

```
1 \setcnltx{code-font=\sffamily\itshape}
2 \code{foo} and \cs*{bar}, option \option{baz}
```

---

*foo* and *\bar*, option *baz*

## 9. Package or Class Information, Building of the Manuals Title Page

### 9.1. 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 = {\package}`

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 = {\class}`

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 = {\name}`

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 = {\author list}`

Comma separated list of package/class authors.

`version = {\version number}`

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 = {\date}`

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.



## 9. Package or Class Information, Building of the Manuals Title Page

`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.

### 9.2. 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.

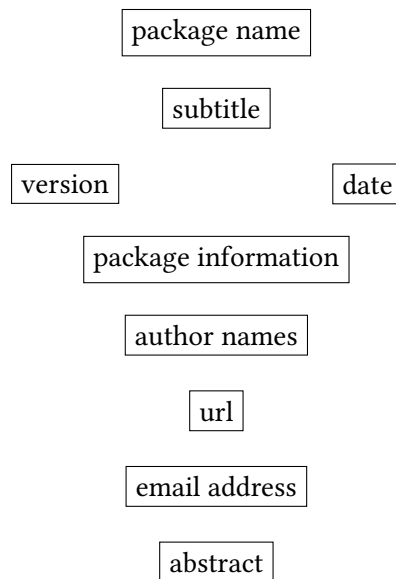


FIGURE 1: Schematic sketch of the title page.

### 9.3. 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[oldstyle]{libertine}
2 % 'libertinehologopatch' is not on CTAN, yet!
3 % you can get it at https://bitbucket.org/cgnieder/libertinehologopatch
4 \RequirePackage{libertinehologopatch}
5 \RequirePackage[supstfm=libertinesups]{superiors}
6 \RequirePackage{microtype}
7 \RequirePackage[scaled=.83]{beramono}
8 \RequirePackage{fnpct}
9 \RequirePackage[english]{babel}
10 \renewcommand*{\othersectionlevelsformat[3]}{%
11   \textcolor{cnltx}{#3\autodot}\enskip}
12 \renewcommand*{\partformat}{%
13   \textcolor{cnltx}{\partname~\thepart\autodot}}
14 \deffootnote{2em}{1em}{\llap{\thefootnotemark. }}%
15 \pagestyle{headings}
16 \setcapindent{1.5em}
17 \setkomafont{caption}{\normalfont\footnotesize\sffamily}
18 \setkomafont{captionlabel}{\normalfont\footnotesize\sffamily\scshape}

```

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

## 10. Predefined listings and mdframed Styles

### 10.1. mdframed

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

```

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

```

6 }

## 10.2. listings

The code of the source code environments (see section 7.4) is formatted with the help of the listings package. 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 as follows:

```

1 \def\cnltx@listings@style{
2   language      = [LaTeX]TeX,
3   basicstyle    = {\sourceformat},
4   numbers      = left,
5   numberstyle   = \tiny,
6   xleftmargin   = 1em,
7   numbersep     = .5em,
8   gobble        = \cnltx@gobble ,
9   columns       = fullflexible,
10  literate       =
11    {ä}{{\"a}}1
12    {ö}{{\"o}}1
13    {ü}{{\"u}}1
14    {Ä}{{\"A}}1
15    {Ö}{{\"O}}1
16    {Ü}{{\"U}}1
17    {ß}{{\ss}}1 ,
18  breaklines     = true,
19  keepspaces     = true,
20  breakindent    = 1em,
21  commentstyle   = \color{comment},
22  keywordstyle   = \color{cs},
23  deletetexcs    =
24    {
25      a,o,u,A,O,U,
26      begin,
27      center,
28      description,document,
29      end,enumerate,
30      figure,flushleft,flushright,
31      itemize,
32      otherlanguage,
33      table,tabu,tabular
34    },
35  % \begin, \end:
36  texcsstyle     = [2]\color{beginend},
37  index          = [2][texcs2],
38  indexstyle     = [2]\@gobble,

```

```

39 moretexcs      = [2]{begin,end},
40 % environments:
41 texcsstyle     = [3]\color{env},
42 index          = [3][texcs3],
43 indexstyle     = [3]\@gobble,
44 % control sequences:
45 texcsstyle     = [4]\color{cs},
46 index          = [4][texcs4],
47 indexstyle     = [4]\@gobble ,
48 % added control sequences:
49 texcsstyle     = [5]\color{cs},
50 index          = [5][texcs5],
51 indexstyle     = [5]\indexcs,
52 % added environments:
53 texcsstyle     = [6]\color{env},
54 index          = [6][texcs6],
55 indexstyle     = [6]\envidx,
56 }

```

## 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. 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 not 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` Unused per default.

`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 options.

`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:

The ‘default’ color scheme is defined as follows:

```

1 \cnltx@define@colorscheme{default}{
2   cs           => cnltxbrown , % command sequences
3   option       => cnltxyellow , % options
4   comment      => cnltxgray ,  % comments
5   beginend     => red ,        % \begin and \end
6   env          => black ,      % environment names
7   argument     => black ,      % argument delimiters
8   meta         => black!80 ,   % arguments of \meta
9   cnltx        => cnltxred ,   % base color
10  cnltxbg       => white ,      % source code box background
11  link          => black!90 ,   % hyperlinks
12  versionnote   => black!75    % versioning notes text
13 }
```

The ‘blue’ color scheme is defined this way:

```

1 \cnltx@define@colorscheme{blue}{
2   cs           => cnltxbrown ,
3   option       => cnltxgreen ,
4   comment      => cnltxgray ,
5   beginend     => red ,
6   env          => black ,
7   argument     => black ,
8   meta         => black!80 ,
9   cnltx        => cnltxblue ,
10  cnltxbg       => yellow!10 ,
11  link          => cnltx ,
12  versionnote   => black!75
```

```

13 }

```

Finally the ‘formal’ color scheme is defined like this:

```

1 \cnltx@define@colorScheme{formal}{
2   cs          => black ,
3   option      => cnltxformalblue ,
4   comment     => cnltxgray ,
5   beginend    => red ,
6   env         => black ,
7   argument    => black ,
8   meta        => black!80 ,
9   cnltx       => cnltxformalblue ,
10  cnltxbg      => white ,
11  link         => black!90 ,
12  versionnote => black!75
13 }

```

## 13. Language Support

Introduced in  
version 0.2

The **CNLTX-DOC** and the **CNLTX-EXAMPLE** package both rely on the translations package 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{<language>}{<keyword>}{<translation>}
```

Provide translations for the string identified by the ID *<keyword>*.

The defined strings are listed in table 1. 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.

## A. Internal Helper Commands

TABLE 1: Overview over available internationalization key words.

Package	key word	English version
<b>CNLTX-EXAMPLE</b>	<code>cnltx-package</code>	package
<b>CNLTX-EXAMPLE</b>	<code>cnltx-class</code>	class
<b>CNLTX-EXAMPLE</b>	<code>cnltx-environment</code>	environment
<b>CNLTX-DOC</b>	<code>cnltx-default</code>	Default
<b>CNLTX-DOC</b>	<code>cnltx-empty</code>	initially empty
<b>CNLTX-DOC</b>	<code>cnltx-toc</code>	Table of Contents
<b>CNLTX-DOC</b>	<code>cnltx-license</code>	Permission is granted to copy, distribute and/or modify this software under the terms of the L <sup>A</sup> T <sub>E</sub> X Project Public License (LPPL), version 1.3 or later ( <a href="http://www.latex-project.org/lppl.txt">http://www.latex-project.org/lppl.txt</a> ). The software has the status
<b>CNLTX-DOC</b>	<code>cnltx-introduced</code>	Introduced in version
<b>CNLTX-DOC</b>	<code>cnltx-changed</code>	Changed in version

### A.1. Defined by **CNLTX-BASE**

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

`\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.

`\cnltx@create@message*{<module>}{Error|Warning|WarningNoLine|Info}`

Create suiting error and warning messaging commands for the module `<module>`. The starred version creates messages for a class the un-starred version messages for a package.

`\cnltx@base@error{<message>}`

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

`\cnltx@base@warning{<message>}`

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

`\cnltx@base@warningnoline{<message>}`

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

`\cnltx@base@info{<message>}`

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

Changed in  
version 0.2

## A. Internal Helper Commands

`\cnltx@par`

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

`\cnltx@ifsym{⟨token⟩}{⟨true⟩}{⟨false⟩}`

A generic version of L<sup>A</sup>T<sub>E</sub>X's `\ifstar` that checks if `⟨token⟩` follows if the input stream. If yes it is removed and `⟨true⟩` is placed in the input stream else `⟨false⟩`.

`\cnltx@ifdash{⟨true⟩}{⟨false⟩}`

A wrapper for `\cnltx@ifsym{-}`.

`\cnltx@expand@arg{⟨cs⟩}{⟨macro⟩}`

Expands `⟨macro⟩` once before it is passed as argument to `⟨cs⟩`.

`\cnltx@fullexpand@arg{⟨cs⟩}{⟨argument⟩}`

Exhaustive expansion of `⟨argument⟩` before it is passed as argument to `⟨cs⟩`.

`\cnltx@fullexpand@twoargs{⟨cs⟩}{⟨argument1⟩}{⟨argument2⟩}`

Exhaustive expansion of `⟨argument1⟩` and `⟨argument2⟩` before they're passed as argument to `⟨cs⟩`. This is an alias of the kernel command `\@expandtwoargs` defined for the sake of consistency.

`\cnltx@stripbs`

A shortcut for `\expandafter\@gobble\string`.

`\cnltx@if@in{⟨tokenlist⟩}{⟨search⟩}{⟨true⟩}{⟨false⟩}`

Places `⟨true⟩` in the input stream if `⟨search⟩` is found in `⟨tokenlist⟩` and `⟨false⟩` if it isn't.

`\cnltx@replace@once{⟨cs⟩}{⟨search⟩}{⟨replace⟩}`

Replaces the first occurrence of `⟨search⟩` in the first expansion of `⟨cs⟩` with `⟨replace⟩`.

`\cnltx@replace@all{⟨cs⟩}{⟨search⟩}{⟨replace⟩}`

Replaces all occurrences of `⟨search⟩` in the first expansion of `⟨cs⟩` with `⟨replace⟩`.

`\cnltx@define@colorscheme{⟨name⟩}{⟨scheme definition⟩}`

Command that can be used to define a color scheme.

### A.2. Defined by **CNLTX-EXAMPLE**

`\cnltx@example@error{⟨message⟩}`

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

`\cnltx@example@warning{⟨message⟩}`

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

`\cnltx@example@warningnoline{⟨message⟩}`

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

`\cnltx@example@info{⟨message⟩}`

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 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.<sup>16</sup> 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 ‘=’.

### `\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 occurrences 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**.

### `\newarg[⟨arg formatting⟩]{⟨cs⟩}{⟨left delim⟩}{⟨right delim⟩}`

Default: `\meta`

Changed in  
version 0.2

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

### `\MakePercentComment`

Sets the category code of % to 14.

### `\cnltx@copyablespace`

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

### `\cnltx@mdframed@options`

Predefined option list for the mdframed style `cnltx`.

### `\cnltx@listings@style`

Predefined option list for the listings style `cnltx`.

<sup>16</sup>. This is important. If you `\let` it to `\cnltxat` index entries may be sorted differently! Remember: `\cnltxat` is robust.

### A.3. Defined by **CNLTX-TOOLS**

`\cnltx@tools@error{⟨message⟩}`

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

`\cnltx@tools@warning{⟨message⟩}`

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

`\cnltx@tools@warningnoline{⟨message⟩}`

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

`\cnltx@tools@info{⟨message⟩}`

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

`\cnltx@accsupp{⟨actual text⟩}{⟨additional options⟩}{⟨TEX text⟩}`

A wrapper for package `accsupp`'s `\BeginAccSupp{ActualText = ⟨actual text⟩} ⟨TEX text⟩`  
`\EndAccSupp{}`.

### A.4. Defined by **CNLTX-DOC**

`\cnltx@doc@error{⟨message⟩}`

Issue an error message using `\ClassError{cnltx-doc}`.

`\cnltx@doc@warning{⟨message⟩}`

Issue a warning message using `\ClassWarning{cnltx-doc}`.

`\cnltx@doc@warningnoline{⟨message⟩}`

Issue a warning message using `\ClassWarningNoLine{cnltx-doc}`.

`\cnltx@doc@info{⟨message⟩}`

Issue a message using `\ClassInfo{cnltx-doc}`.

`\cnltx@getfileinfo{⟨file name⟩}{⟨file extension⟩}`

Extract the date, version and background information for a package or a class.

`\cnltx@version@note{⟨note⟩}`

Command that is used for the versioning notes internally. Sets `\reversemarginpar` and then writes the note `⟨note⟩` to the margin with corresponding formatting.

`\begin{cnltxlist}`

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

### A.5. Defined by **CNLTX-CSNAMES**

`\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.

## B. List of Known $\text{\LaTeX}$ Control Sequences

`\listsilentcmds`

Prints all known control sequence names formatted and separated with a comma.

`\listsilentenvs`

Prints all known environment names formatted and separated with a comma.

## B. List of Known $\text{\LaTeX}$ Control Sequences

Below are listed all *predefined* control sequence names that are treated as “silent” names by **CNLT $\text{\X}$** , that is, those defined by **CNLT $\text{\X}$ -CSNAMES**. You may notice that the list does not cover all control sequences that are formatted. That is because listings already has a number of known control sequence names. This list probably overlaps with those on some parts, though.

<code>\-, \@, \@empty, \@gobble,</code>	<code>\fontsize, \fontshape,</code>	<code>\newpage, \newrobustcmd,</code>
<code>\@ifnextchar, \@ifstar,</code>	<code>\footnote, \footnotesize,</code>	<code>\ng, \NG, \nolinebreak,</code>
<code>\addtokomafont, \ae,</code>	<code>\footnotetext,</code>	<code>\nonfrenchspacing,</code>
<code>\AE, \AfterEndPreamble,</code>	<code>\foreignlanguage,</code>	<code>\noindent, \nopagebreak,</code>
<code>\AfterPreamble,</code>	<code>\frenchspacing,</code>	<code>\normalsize, \normalfont,</code>
<code>\AfterEndDocument,</code>	<code>\global, \H, \hskip,</code>	<code>\o, \O, \oe, \OE,</code>
<code>\AfterEndEnvironment,</code>	<code>\hspace, \huge, \Huge,</code>	<code>\othersectionlevelsformat,</code>
<code>\alph, \Alph, \author,</code>	<code>\hypersetup, \hyphenation,</code>	<code>\P, \pagebreak, \par,</code>
<code>\autodot, \arabic,</code>	<code>\ignorespaces,</code>	<code>\paragraph, \parindent,</code>
<code>\AtBeginDocument,</code>	<code>\ignorespacesafterend,</code>	<code>\part, \partformat,</code>
<code>\AtBeginEnvironment,</code>	<code>\include, \includeonly,</code>	<code>\partname, \pounds,</code>
<code>\AtEndDocument,</code>	<code>\indent, \input,</code>	<code>\printacronyms,</code>
<code>\AtEndEnvironment,</code>	<code>\InputIfFileExists,</code>	<code>\printbibliography,</code>
<code>\AtEndPreamble,</code>	<code>\item, \itshape, \j,</code>	<code>\printendnotes,</code>
<code>\baselineskip,</code>	<code>\k, \KOMAOption,</code>	<code>\printindex,</code>
<code>\BeforeBeginEnvironment,</code>	<code>\KOMAOptions, \l, \L,</code>	<code>\protected, \protecting,</code>
<code>\begingroup, \bfseries,</code>	<code>\labelenumi, \labelenumii,</code>	<code>\providecommand,</code>
<code>\bgroup, \c, \caption, \cb,</code>	<code>\labelenumiii,</code>	<code>\providerobustcmd,</code>
<code>\centering, \chapter,</code>	<code>\labelenumiv, \label,</code>	<code>\ProvidesClass,</code>
<code>\cleardoublepage,</code>	<code>\labelitemi, \labelitemii,</code>	<code>\ProvidesPackage, \r,</code>
<code>\clearpage, \color,</code>	<code>\labelitemiii,</code>	<code>\raggedright, \raggedleft,</code>
<code>\cref, \d, \date, \dh, \DH,</code>	<code>\labelitemiv, \labelsep,</code>	<code>\RaggedRight, \ref,</code>
<code>\DeclareRobustCommand,</code>	<code>\large, \Large, \LARGE,</code>	<code>\refstepcounter,</code>
<code>\deffootnote,</code>	<code>\LaTeX, \LaTeXe,</code>	<code>\relax, \renewcommand,</code>
<code>\deffootnotemark,</code>	<code>\linebreak, \linewidth,</code>	<code>\renewrobustcmd,</code>
<code>\definecolor,</code>	<code>\LoadClassWithOptions,</code>	<code>\RequirePackage,</code>
<code>\descriptionlabel,</code>	<code>\LoadClass, \maketitle,</code>	<code>\rightarrow, \robustify,</code>
<code>\discretionary, \dj, \DJ,</code>	<code>\mbox, \mdseries,</code>	<code>\roman, \Roman,</code>
<code>\documentclass, \egroup,</code>	<code>\NeedsTeXFormat,</code>	<code>\rmfamily, \S, \samepage,</code>
<code>\emph, \endgroup, \endnote,</code>	<code>\newcommand, \newcounter,</code>	<code>\scriptsize, \scshape,</code>
<code>\enlargethispage, \fbox,</code>	<code>\newlabel, \newline,</code>	<code>\section, \selectfont,</code>

### C. List of Known L<sup>A</sup>T<sub>E</sub>X Environments

<code>\selectlanguage,</code>	<code>\textasciitilde,</code>	<code>\textquoteleft,</code>
<code>\setcapindent,</code>	<code>\textasteriskcentered,</code>	<code>\textquoteright,</code>
<code>\setcounter,\setfnpct,</code>	<code>\textbackslash,\textbar,</code>	<code>\textsc,\textsection,</code>
<code>\setkomafont,\setlength,</code>	<code>\textbf,\textbraceleft,</code>	<code>\textsl,\textsubscript,</code>
<code>\setmainfont,</code>	<code>\textbraceright,</code>	<code>\textsuperscript,</code>
<code>\setmainlanguage,</code>	<code>\textcolor,</code>	<code>\textsterling,\texttt,</code>
<code>\setotherlanguage,</code>	<code>\textcompwordmark,</code>	<code>\textunderscore,\textup,</code>
<code>\setotherlanguages,</code>	<code>\textdollar,\textemdash,</code>	<code>\textwidth,\th,\TH,</code>
<code>\shorthandoff,</code>	<code>\textendash,\textenglish,</code>	<code>\the,\theendnotes,</code>
<code>\shorthandon,</code>	<code>\textexclamdown,</code>	<code>\theenumi,\theenumii,</code>
<code>\sidenote,\sffamily,</code>	<code>\textgreater,\textit,</code>	<code>\theenumiii,\theenumiv,</code>
<code>\slshape,\small,\ss,</code>	<code>\textless,\textmd,</code>	<code>\thefootnotemark,</code>
<code>\SS,\stepcounter,</code>	<code>\textogonekcentered,</code>	<code>\thepart,\tiny,\title,</code>
<code>\subparagraph,</code>	<code>\textrm,\textsc,\textsf,</code>	<code>\today,\ttfamily,</code>
<code>\subsection,</code>	<code>\textquestiondown,</code>	<code>\usecounter,\usepackage,</code>
<code>\subsubsection,\t,</code>	<code>\textquotedbl,</code>	<code>\upshape,\v,\vskip,</code>
<code>\tableofcontents,\TeX,</code>	<code>\textquotedblleft,</code>	<code>\vspace,\xdefinecolor</code>
<code>\test,\textasciicircum,</code>	<code>\textquotedblright,</code>	

### C. List of Known L<sup>A</sup>T<sub>E</sub>X Environments

Below are listed all *predefined* control sequence names that are treated as “silent” names by **CNLT<sub>X</sub>**, that is, those defined by **CNLT<sub>X</sub>-CSNAMES**.

<code>center,description,</code>	<code>flushright,itemize,</code>	<code>table,tabu,tabular,</code>
<code>document,enumerate,</code>	<code>labeling,longtable,</code>	<code>tabularx,tabulary,</code>
<code>figure,flushleft,</code>	<code>otherlanguage,tabbing,</code>	<code>verbatim</code>

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