co-op-writing v1.2.4

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1 Introduction

This package supports editorial comments and gives some extra support for writing papers, or any document that involves more than one author or editor.

Usually, a final version of a document would be printed with the publish option turned on, and no editorial comments would appear. In this document the reader will see some uses\footnote{Xexeo: This is an example of using this package to make a comment with highlighted text} of the package, since it is distributed with the editing option turned on. This is done to provide the examples of use.

1.1 A bit of context

coop-writing was written to support my way of working, and received suggestions from my students. The starting goal was to build only a front-end to put together other packages, mostly \texttt{ed} and \texttt{todonotes}, but with time, and the difficulty to make different packages with commands that have the same name to work together, it grow in scope.

It picks ideas from different packages, such as \texttt{ed} \cite{Koh11}, \texttt{color-edits} \cite{Kem20}, and \texttt{todonotes} \cite{Mid21}, and from my practice writing papers and supervising thesis. As it is my first package, \TeX{} and \LaTeX{} programming is sometimes naive. However, due to the large amount of available code, and sites as StackExchange, this is not a rule.

1.2 The Brazilian origin

Originally, coop-writing was written in Portuguese. The Portuguese commands are still available. Typos and others errors can appear in this text, please use GitHub issues to warn me any errors that you find.

2 How to use coop-writing

coop-writing is available as open source at \url{https://github.com/xexeo/coop-writing}, using a MIT License. The stable distribution is in the folder \texttt{dist}, while the latest, and unstable, will be in the root folder. A CTAN folder now contains the current submitted CTAN distribution.

The only file you really need, besides this manual, is \texttt{coop-writing.sty}. This should be in your \TeX{} path, such as in the same folder that your main \texttt{.tex} file.

If you are new to \TeX{}, just put one of these 3 lines in the preamble part of your document, i.e., before \texttt{\begin{document}}:

\begin{verbatim}
\usepackage[editing]{coop-writing}
\end{verbatim}
After that, you can use \cwauthor or \cweditor to make commentaries, but you must look at the many options available that are described in section 5. You will probably want to define authors as described in subsection 5.1.

2.1 How to complain or make suggestions


2.2 Using from Overleaf

The best way to use coop-writing inside Overleaf is to link the distributed style file through its URL. To do that, inside your project, select first “Upload”. An “Add files” window will appear, then select “From External URL” and enter https://raw.githubusercontent.com/xexeo/coop-writing/main/dist/coop-writing.sty as “URL to fetch the file from” and “coop-writing” as “File Name in This Project”, as in Figure 1.

![Figure 1: How to link a coop-writing.sty file in your project folder in Overleaf to the official distribution.](image)

3 Package Options

Using the package allows the use of all macros and environments described in this manual, however, if the options are not turned on, there will be no effect on the generated pdf, since, by default, all options are false.
There are three types of options. The first type enables the visualization of the result of specific macros or environments, such as the \cw draft environment. They are named \textit{command oriented options}. You can use many of them in the same time.

The second type represents a state of the text, which can be \textit{editing}, \textit{submit}, or \textit{publish}, and some minor variations. They are named \textit{state oriented options}.

The third type control other behaviors. They are named \textit{behavior oriented options}

If they appear together, state oriented commands have precedence over the others. However, the user should avoid mixing command and state oriented options. Also, you should \textbf{use only one of the state oriented options}.

It should be clear that the options have no impact on the availability of the macros and environments, they will be there for you to use, but the deeply affect their behavior. A macro that is very complex, such as \texttt{\cw author}, if one of the options \texttt{comments} or \texttt{editing} is selected, is replaced by a simple version that do almost nothing.

\section*{3.1 Command oriented options}

- \texttt{subjects}, enables the use of \texttt{\subject}, which is proposed as a paragraph heading describing its subject;
- \texttt{comments}, enables all editorial comments and the command \texttt{\pleasecite};
- \texttt{drafts}, enables the \texttt{\cw draft} command;
- \texttt{suggestions}, enables the comments defined in the suggestion section of this text.
- \texttt{anonymize}, enables anonymization commands, and
- \texttt{todos}, enables the to do family of commands.

\section*{3.2 State oriented options}

- \texttt{submit}, enables the \texttt{submit} state. \texttt{anonymize} is on, \texttt{subjects}, \texttt{comments}, \texttt{drafts} and \texttt{suggestions} are off.
- \texttt{noanonymize}, disables \texttt{anonymize} even in \texttt{submit} and \texttt{editing} options.
- \texttt{publish}, disables all command oriented options, ignore suggestions.
- \texttt{acceptingpublish}, disables all command oriented options, accept suggestions.
- \texttt{editing}, enables \texttt{subjects}, \texttt{comments}, \texttt{drafts}, \texttt{anonymize}, and \texttt{suggestions}.

\section*{3.3 Behavior oriented options}

Some of this option are inherited from \texttt{ed}. 

5
• `nopdfbookmarks` will avoid adding bookmarks in the PDF file for all comments. The default behavior of `coop-writing` is adding them.
• `toclofttitles` toggles the option `titles` in `tocloft`, that avoid the re-definition of `\listoffigures` and `\listoftables`. This fix the bug with CoppeTeX package, identified as `coppe`.

### 3.4 General behavior

The general behavior of this package is to provide different ways of marking your text, for example, with comments or to do notes, which can be totally suppressed when desired. Mostly, this can be easily done using one of the 3 main option states: `editing`, `submit`, and `publish`.

Users should use the `editing` state most of the time. In this state, all markings will appear and the anonymization will be off.

When submitting, the `submit` state will provide a clean article, without any markings. Most of the times the article should be anonymized, but if this is not enforced by a conference or journal, it is possible to use the options `submit` and `noanonymize` together. `publish` will never anonymize.

The goal is to make the `submit` and `publish` documents states minimally invasive, to avoid any clash with publishers’ styles. A clash will be considered a bug, and should be reported to the authors. Most of the time, using these options will simply create dummy commands.

If you use `comments`, there will be a lot of “Marginpar moved” warnings. This is normal behavior, caused by the margin notes. It will not happen when `submit` or `publish` is active.

### 4 Version

It is possible that the user wants to know the version being used. We provide two commands for it.

```latex
\coopwritingversion \text{Provides the current version}
\printcoopwritingversion \text{Provides name and version}
```

`\coopwritingversion` was used in the title of this article. The current version is v1.2.4.

If needed, the second macro prints also the name of the package:

```latex
\printcoopwritingversion
```

will result in:

coop-writing v. v1.2.4

Please state the version when reporting bugs.
5 Editorial comments

This is the main reason of this package.

The idea is that not only users can make editorial comments on the text they are writing, but they can also establish a dialog through those comments. In this package an editorial comment has 3 visual parts: an intervention in the text, a margin note indicating this intervention, and a footnote explaining it. Figure 2 illustrate this behavior.

Figure 2: How comments appear in the document when editing option is on.

5.1 Creating authors

\cwnamedef

This macro creates a series of commands based on a desired base command name. The command name is, usually, the name of the author, of the editor, or a function in the work being done.

This macro must be used in the preamble of the \LaTeX\ document, i.e., before the \texttt{\begin{document}} declaration. It is usually done just after the \texttt{\usepackage{coop-writing}} line. Its syntax is:

\cwnamedef {⟨name⟩}{⟨color⟩}{⟨author-name⟩}

Where ⟨name⟩ will be the base command name, which generates different commands, by receiving suffixes, ⟨color⟩ is the color to be used by all comments and suggestions made by this author, and ⟨author-name⟩ is the string to be used to represent the collaborator.

As an example, I usually declare myself as:

\cwnamedef{xexeo}{red}{Xexéo}

And, among other commands, \texttt{xexeo} will be defined in such a way that it generates a footnote written in red, with a indicative margin note in the same color. Both will be identified with “Xexéo”\footnote{Xexéo: This is the simplest form of an editorial note.}

The ⟨name⟩ and ⟨author-name⟩ are different to support short command names and characters not supported in \LaTeX\ macros. Therefore, if you name is Gutemberg you can create a family of commenting macros based on \texttt{gut}, but use “Gutemberg” as your identifier.

\footnote{Xexéo: This is the example of the minimal use of an editorial command}
Two authors are pre-defined in the style, `cwauthor` and `cweditor`, to represent an author and an editor. They can be freely used.

## 5.2 Available commands

For each user created with command name `<name>`, such as `cwauthor` and `cweditor`, used as example, the following commands are available.

### 5.2.1 Comments

```
<name> [<selection>]{{footnote comment}}
```

These are the simplest commands, and will make a comment in the form of an identified footnote. The optional `<selection>` parameter allows to highlight some text.

### 5.2.2 Labeled Comments

```
<name>r [<selection]{{footnote comment}}{<label>}
```

This command will make a comment in the form of a labeled footnote. It can also be used to highlight some text. The label must be unique, and usually a single word, since it is used as a `\LaTeX \label` too. You can refer to this command using `\ref{cw:<label>}`. For example, the comment 6 would be referenced as `\ref{cw:FirstLabel}`, as in here.

## 5.3 Striked-through comments

After using the editorial comments for a time we started to delete the old ones that represented fixed problems. However, we notice that some comments should be kept, even if solved. The solution was to create the striked-through comments. They are easy to use, just put an `x` after the command name.

```
<name>x [ <selection]{{footnote comment}}
```
This command will make a comment in the form of a footnote, however the comment is strikethrough. It can also be used to highlight some text.

This command will make a comment in the form of a labeled footnote, however the comment is strikethrough. It can also be used to highlight some text. The label must be unique, since it is used as a LaTeX label too.

5.4 Text Modification - Suggestions

Sometimes one of the authors wants to insert, remove or edit some text, but he or she is not sure that everyone will agree, therefore he or she can make a suggestion, that will appear with his or her color.

This macro supports making a suggestion. It inserts text, using the color chosen by the author. It is also possible to make a comment, but in this command the command is the optional argument.

As example, in this paragraph the following text:

\texttt{\textbackslash{cwa}uthor\{inserted text\} will appears in the red, and it is possible to \textbackslash{cwe}ditor\{I want to insert this\} use a comment.}

generates:

\texttt{inserted text will appears in the red, and it is possible to use a comment.}

This macro is used to suggest removals.

\texttt{\textbackslash{cwa}uthor\{comment\} \{suggested removal\}}

\texttt{\textbackslash{cwe}ditor\{comment\} \{suggested removal\}}

This macro is used to suggest removals.
For example:

This is an example \cwauthorrem{that is quite good}.
Again, it is also possible to comment
the \cwauthorrem{Repeated words}{the removal} removal.

\begin{verbatim}
\cwauthorswap{This should work like this.}%
{This is an example of how the command should work.}%
The following text is not a suggestion.
\end{verbatim}

\begin{verbatim}
{\textit{This is an example that is quite good.} Again, it is also possible to comment the \cwauthorrem{Repeated words}{the removal} removal.}
\end{verbatim}

This will work as the union of a removal and a suggestion. Actually, both are simplified forms of this command.

For example:

\begin{verbatim}
\cwauthorswap{This should work like this.}%  %\textit{This is an example of how the command should work.}%
The following text is not a suggestion.
\end{verbatim}

5.5 Putting more warning in text

It is possible to define a symbol, or any other thing, to appear before the superscript number that indicates the comment.

This is done using the following command and syntax:
\begin{verbatim}
\cswsetcommwarn\{(symbol)\}
\end{verbatim}

Using package marvosym, the example:
\begin{verbatim}
\cswsetcommwarn{\Lightning}
\end{verbatim}

will change the behavior of editorial\footnote{Xexéo: This comment superscript number should be proceeded by a \textit{f} symbol} comments to include the \textit{f} symbol.

You can remove the symbol by simply using \cswsetcommwarn{}.

It should be clear that \textit{coop-writing} does not provide any font for these symbols. If users want to use a certain font, like marvosym, they import it with \textit{usepackage}.

\footnote{Author: Repeated words}
5.6 A tip for using comments

A student asked me to give a priority to my demands. This would make me add yet another set of commands, with more arguments. labels don’t work because they must be unique to allow for being used as references.

The solution, however, is simple, special characters, such as *, $\star$ can be used and are highly efficient to communicate priority.\textsuperscript{15}

Using other fonts, more can be accomplished. For example, package marvosym offers \HollowBox, \Check, \CheckedBox, \CrossedBox, \X, which can be used to indicate that something should be done, is done or will not be done.

6 Anonymization

Anonymization will provide commands to replace names and references by anonymous names and references. It will, by default, be enable only in the submit option.

There are 4 anonymization commands:

\begin{itemize}
  \item \cwanon\{⟨text⟩\}
  \item \cwanoncite\[⟨cite-compat-arg⟩\]{⟨cite-compat-arg⟩}
  \item \cwanoncitet\[⟨citet-compat-arg⟩\]{⟨citet-compat-arg⟩}
  \item \cwanoncitep\[⟨citep-compat-arg⟩\]{⟨citep-compat-arg⟩}
\end{itemize}

The alternative text used by anonymization commands can be configured with other commands:

\begin{itemize}
  \item \cwdefanontext\{⟨replacement-text⟩\}
  \item \cwdefanoncitetext\{⟨replacement-text⟩\}
  \item \cwdefanoncitetttext\{⟨replacement-text⟩\}
  \item \cwdefanoncitepmap\{⟨replacement-text⟩\}
\end{itemize}

The example:

My name is \cwanon\{Geraldo Xexe\ö\}, and I read \cwanoncite{ed}, \cwanoncitep\{pags 1\}{todonotes}, % \cwanoncitet{xcolor}.

generates:

My name is Anonymous, and I read (Anonymous, Year), (Anonymous, Year), Anonymous (Year).

\textsuperscript{15}Xexe\ö: \textbf{** Two stars are still low priority}
Changing values, as in:

```latex
\cwdefanontext{Can’t say}
\cwdefanoncitetext{[0]}
\cwdefanonciteptext{[X]}
\cwdefanoncitettext{[Anon]}
```

My name is \cwanon{Geraldo Xexéo}, and I read \cwanoncite{ed}, \cwanoncitep{pags 1}{todonotes}, % \cwanoncitet{xcolor}.

generates:

My name is Can’t say, and I read [0], [X], [Anon].

### 7 Draft environment

The `cwdraft` environment aims to allow writers to include text that is marked somehow as a draft.

This environment is evolving, looking for a good way to signal the draft status, due to the different interactions with the packages it uses and user's packages. It has one optional parameter that names the draft. Its default value is “Draft” If the `draft` option is not enabled, the text inside the title and the text inside the environment will not appear. The user should remember that some options will automatically turn on the `draft` option, such as the option `editing`.

The color of the title highlight can be changed with

```latex
\cssetdraftcolor{⟨color⟩}
```

The example:

```latex
\begin{cwdraft}[A draft title]
This is the example of a draft.
The title must be highlighted
There must be a box around it.
\end{cwdraft}
```

```latex
\cwsetdraftcolor{blue}
\begin{cwdraft}
This draft has the default title.
\end{cwdraft}
```

generates:

---

This was motivated because my students liked to hide text from me because “it was only a draft”, but I need to have some way to measure if they were advancing. Marking text as a draft allowed them to be free of the fear of showing errors to me. I see it most as a psychological support to writing without fear of making mistakes. And, yes, you can still use footnotes and they will be correctly numbered.
A draft title
This is the example of a draft.

The title must be highlighted
There must be a box around it.

Draft
This draft has the default title.

8 Subjects

\cwsubject \cwmain
\cwsubject[(color)]{(text)}
These are alternatives supposed to help organizing a text.
\cwsubject provides a header or title for a paragraph.
\cwmain provides an emphasis (yellow highlight by default) for any text. It should be used in the main message of the paragraph.

The idea here is that each paragraph should be about one and only one subject, and that reading these paragraph title will allow the authors to better understand what is being written and in which sequence.

This feature was inspired by Minto \cite{Mint09}.

The example:

\cwsubject{Example of a subject}
A subject is the main subject of a paragraph

\cwsubject[pink]{A pink colored subject}
You can use other colors, such as pink.

\cwsetsubjectcolor{cyan}
\cwsubject{All subjects will be cyan.}
You can use other colors, such as pink.

generates:

Example of a subject
A subject is the main subject of a paragraph
A pink colored subject
You can use other colors, such as pink.
All subjects will be cyan.
You can use other colors, such as pink.

While the example:

```
\cwmain{This is the main idea}. This is the explanation. These are examples.
\cwmain[pink]{This is another main idea}. This is the explanation. These are examples.
\cwsetmaincolor{cyan}
\cwmain{This is the main idea}. This is the explanation. These are examples.
```
generates:

This is the main idea. This is the explanation. These are examples.
This is another main idea. This is the explanation. These are examples.
This is the main idea. This is the explanation. These are examples.

Intentionally, entries in `\cwsubject` and `\cwmain` go both for the list of subjects, since users should use one or another for each paragraph.

### 8.1 Reconfiguring the behavior of `\cwmain`

It is possible to reconfigure partially the behavior of `\cwmain` by using the standard \LaTeX macro `\renewcommand` on the command `\cwmainemphasis`.

Its standard definition is:

```
\newcommand{\cwmainemphasis}{[1]{\hl{#1}}}
```

And this will highlight it with the current highlight color, which can be easily defined with `\cwsetmaincolor`.

However, suppose if you want the text to be in bold, you must redefine this command, like in:

```
\renewcommand{\cwmainemphasis}[1]{\textbf{#1}}
```

This is easy to do, but an error can always cause mayhem.

Therefore, the example:

```
\renewcommand{\cwmainemphasis}[1]{\textbf{#1}}
\cwmain{This is the main idea}. This is the explanation. These are examples.
```
generates.

This is the main idea. This is the explanation. These are examples.
9 Lists

\listofcomments
\listofcitationneeds
\listofsubjects

Comments, citation demands and subjects can be list with these commands.
The lists will only appear if their commands are enable (or in the all-enabling
editing option).
They are usually put in the end of the file.

10 To dos

The todo command is a much simpler version than the one available in
todonotes\textsuperscript{16}. It’s syntax is:
\[ todo[\inline\{\text\} ] \]

A todo without a inline option is equivalent to a comment of author “To do”\textsuperscript{17}.
With the option, the text will appear inside an orange box, as in the example below.
The example:
\[ todo[\inline\{This command can have other options,\}
based on other implementations of to do in different packages.\} \]
generates:

This command can have other options, based on other implementations of
to do in different packages

It is possible to change the background color of the box using this macro. The
idea, however, is that all todos should have the same color.
\[ \texttt{cwdefinecolor\{color\}} \]
The example:
\[ \texttt{cwdefinecolor\{yellow\} }\]
\[ \texttt{todo[\inline\{This command can have other options,\}
based on other implementations of to do in different packages.\} } \]
generates:

\textsuperscript{16} Xexeo: But it will grow in power with time
\textsuperscript{17} To do: This is how it works without the inline option
This command can have other options, based on other implementations of to do in different packages.

11 Language Support

This style supports the following babel defined languages:

- brazil,
- brazilian,
- portuguese, and
- english.

To use other language, or to use other texts instead of the standard ones, you should define these macros, as in:

\def\cwdrafttitle{Draft}
\def\cwcommentstitle{List of Comments}
\def\cwsubjtitle{List of Subjects}
\def\cwcitationstitle{List of Citation Needs}
\def\cwpleasecitetext{Please cite}
\def\cwpleasecitemessage{something to support this information}
\def\cwpleasecitemarginnote{Cite}

12 Warnings

This package uses another package that changes LATEX's standard behavior for summary and lists. When you use it, you must explicitly change pages with \newpage before \tableofcontents or similar commands.

13 The commands in Portuguese

This section is in Brazilian Portuguese.

A Tabela 1 Mostra o mapeamento em inglês e português.

13.1 Opções em Português

As seguintes opções são aceitas em português, todas sem acentos ou cedilha: anonimizar, naoanonimizar, rascunhos, assuntos, comentarios, edicao, submeter, publicar, sugestoes, publicaraceitando.
14 Comparision with other packages

It is interesting to compare this package with other 3:

- \texttt{ed} has more features for commenting, and is more configurable, however it does not have colors.
- \texttt{todos} does not have the identification of the commentator, which must be put by hand. It has more options too.
- \texttt{color-edits} does not support to do notes and drafts.

15 Interaction with other packages

This package uses other packages, and this can cause interaction with them and even other packages. \LaTeX{} is a harsh mistress.

\texttt{tocloft} seems to be the main agressor and it is a candidate to be removed, since its function in the code is mostly secondary, generate lists of the comments, etc.

\texttt{tocloft} interacts with \texttt{memoir}. At this point, I blame \texttt{memoir}, since it \texttt{emulates} \texttt{tocloft}, but change syntax and behavior. This is a crazy idea for me, and show the need for namespaces in \LaTeX{}.

\texttt{tocloft} also interacts with \texttt{coppe}, the class for the CoppeTeX package, which I am one of the maineiners, both redefine LoF and LoT. More IFs, that detect \texttt{coppe} and turn on \texttt{titles} option in \texttt{tocloft}, and a new option \texttt{toclofttitles} to solve the general problem of \texttt{tocloft} changing LoF and LoT definitions.

16 Implementation

This package was initially written in Portuguese. As it become more useful, it was translated to English. There are still some signs of this in the code.
16.1 Access to the current version

We provide some macros for the user to know the version being used.

\coopwritingversion Provides current version of coop-writing

1 \newcommand{\coopwritingversion}{\cw@version}\%

\printcoopwritingversion Provides package name and version

2 \newcommand{\printcoopwritingversion}{coop-writing v. \coopwritingversion}\%

16.2 Option Processing

16.2.1 Creating Options Variables used in \texttt{ed}

Some come from \texttt{ed} code and are being cleaned

3 \newif\ifshowednotes\showednotestrue\%
4 \newif\ifmargins\marginstrue\%
5 \newif\ifednotebookmarks\ednotebookmarkstrue\%
6 \subsubsection{Creating Original Options Variables}
7 \newif\ifshowcomentario\@showcomentariofalse\%
8 \newif\ifnaoanonimizar\naoanonimizarfalse\%
9 \newif\ifshowdraft\showdraftfalse\%
10 \newif\ifshowsubjects\showsubjectsfalse\%
11 \newif\ifshowtudo\showtodofalse\%
12 \newif\ifbeanonymous\beanonymousfalse\%
13 \newif\ifmodoeica\modoeicafalse\%
14 \newif\ifmodosubmeter\modosubmeterfalse\%
15 \newif\ifmodopublicar\modopublicarfalse\%
16 \newif\ifmodopublicaraceitando\modopublicaraceitandofalse\%
17 \newif\ifcwtoctitles\cwtoctitlesfalse\%
18 \newif\ifcwtoctofofttitles\cwtoctofofttitlesfalse\%

16.2.2 Portuguese Options

19 \texttt{DeclareOption} {rascunhos}{\@showdrafttrue}\%
20 \texttt{DeclareOption} {comentarios}{\@showcomentariotrue}\%
21 \texttt{DeclareOption} {anonymizar}{\@beanonymoustrue}\%
22 \texttt{DeclareOption} {naoanonymizar}{\@naoanonimizartrue}\%
23 \texttt{DeclareOption} {sugestoes}{\@showsugestaotrue}\%
24 \texttt{DeclareOption} {assuntos}{\@showsubjectstrue}\%
25 \texttt{DeclareOption} {edicae}{\@modoeica}\%
26 \texttt{DeclareOption} {submeter}{\@modosubmetertrue}\%
27 \texttt{DeclareOption} {publicar}{\@modopublicartrue}\%
28 \texttt{DeclareOption} {publicaraceitando}{\@modopublicaraceitandotrue}\%
29 \texttt{DeclareOption} {publicartrue}
16.2.3 English Options, inspired on ed package

\DeclareOption{nopdfbookmarks}{\edefnotebookmarksfalse}

16.2.4 Original English Options

\DeclareOption{comments}{\@showcomentariotrue}
\DeclareOption{anonymize}{\@beanonymoustrue}
\DeclareOption{noanonymize}{\@naoanonimizatrue}
\DeclareOption{suggestions}{\@showsgestatrue}
\DeclareOption{subjects}{\@showsubjectstrue}
\DeclareOption{drafts}{\@showdrafttrue}
\DeclareOption{todos}{\@showtodotrue}
\DeclareOption{editing}{\@moodicaotrue}
\DeclareOption{submit}{\@modosubmetertrue}
\DeclareOption{publish}{\@modopublicartrue}
\DeclareOption{acceptingpublish}{
\@modopublicartrue
\@modopublicaraceitandotrue
}
\DeclareOption{toclofttitles}{\@cwtoclofttitlestrue}
\ProcessOptions\relax

16.2.5 Fixing the Super Options

@if\moodicao
\@showsubjectstrue
\@showdrafttrue
\@showcomentariotrue
\@showsgestatrue
\@beanonymoustrue
\@showtodotrue
@fi
@if\modosubmeter
\@showsubjectsfase
\@showdraftfalse
\@showcomentariofalse
\@showsgestaofalse
\@beanonymoustrue
\@showtodofalse
@fi
@if\naoanonimizar
\@beanonymousfalse
@fi
@if\modopublicar
\@showsubjectsfase
@fi
@if\modopublicar
\@showsubjectsfase

16.3 Required Packages

Packages that are always required

- xcolor - used to support colors
- soulutf8 - this is a variation of soul, used for highlighting
- ulem - used to support strikethrough
- tocloft - used to support modifications in lists and tocs
- mdframed - used to support boxes for todos and drafts
- iflang - used to check if language is loaded and define new words not in Babel

To doc:18

16.4 Optional Packages

Package that are required only sometimes

16.5 CoppeTeX problems

tcloft and CoppeTeX have different assumptions whether LoF, LoT and etc... appears in ToC. In default Book, they do not appear

---

18To not must complete this explanation list
16.6 Solving problems with other packages

16.6.1 Problems with abntex2 and memoir

abntex2 causes error in \newlistof, you can't refer to chapter, section or other counter as optional argument.

This error is actually memoir fault\(^\text{19}\), since it emulates tocloft (and other packages). I can’t imagine why...

Therefore, we will avoid using the command with option when the class is present

16.7 Color related variables

\newcommand{\cor@prof}{red}
16.8 I18N Almost Using Babel

We can detect if babel is enabled and allow for some languages. If you want to use another language, you must set new values for the command \cwdrafttitle. I really thought that it was possible to do something smarter with babel, for example using \setlocalizeaption, but no attempt worked out as I wanted.

There are some packages, as translator that can be useful but up to now this seems to be the easiest way of doing it.

The advantage of this way is that any user can \renewcommand{\cwdrafttitle}{some text}.

\IfLanguageName{brazil}{}
\IfLanguageName{brazilian}{}
16.9 ed inspired code

This code, inspired in the \texttt{ed} package\textsuperscript{20}, makes the basic mechanism for inserting comments as footnotes with an observation in the margin. As an addition to \texttt{ed}, it supports colors and some text before the superscript number in the text.

\texttt{cwnotecounter} Setting up the counter that gives the number of the footnote

\begin{verbatim}
178 \newcounter{cwnotecounter}\
\end{verbatim}

16.9.1 The footnote

Format for the text

\begin{verbatim}
179 \newcommand\cw@noteshape{\sffamily}\
\end{verbatim}

Defining the variable that holds the color to be printed. \texttt{soul} made it quite complex; global variable is not the best programming technique, but it works.

\begin{verbatim}
180 \def\cw@currentcolor{black}\
\end{verbatim}
\cw@foot This macro write the text in the footnote using standard \LaTeX \footnotetext

It uses counter \cwnotecounter in arabic. It prints the footnote using the currently defined color (That is a global variable, setted up elsewheire. This is not good programming practice, but it turned out to be the easiest way of doing it in \LaTeX without more and more arguments.)

Syntax: \cw@foot{⟨footnote-text⟩}{⟨author-name⟩}{⟨label⟩}

If this is a labeled note, it will create a \LaTeX label on the format

\text{cw:⟨label⟩}

That can be used in a \ref command.

\newcommand\cw@foot[3]{% [181]
  % [182]
  \def\@test{#3}% @test just checks if argument #3 exists
  \footnotetext[\arabic{cwnotecounter}]% [184]
  {% [185]
    \sshape\textcolor{\cw@currentcolor}{#2}%= [186]
    \if\@test%
      \@empty%
    \else%
      \label{cw:#3}% if \meta{label} is not empty
      \textcolor{\cw@currentcolor}{[#3]}%
    \fi%
  }
  \cw@noteshape\textcolor{\cw@currentcolor}{#1}}%

\cw@mark This macro generates the footnote mark with standard \LaTeX \footnotemark

\def\cw@mark@style#1{#1}% [196]
\newcommand\cw@mark[1]{\cw@mark@style{\footnotemark[#1]}}%

\cw@beforemarksymbol These macros control the symbol (or any text) that can appear before the foot-

\cwsetcommwarn

\cwsetcommwarn{⟨symbol⟩}

⟨symbol⟩ can be of any length, but we suggest only one character. It can be empty, what is the default option, and will print nothing at that point.

\newcommand{\cw@beforemarksymbol}{}%
\newcommand{\cwsetcommwarn}[1]{\def\cw@beforemarksymbol{#1}}%

\cw@footnote This macro actually makes the footnote symbol, mark and text

Syntax is:

\cw@footnote{⟨text⟩}{⟨name⟩}{⟨label⟩}

⟨label⟩ can be empty, but must be present

24
It is in this macro that symbol, number and footnote mark end up in the document.

This command also changes the color of footnote mark WARNING: it does that by redefining \@makefnmark, however this interferes with normal \TeX{} operation. Therefore we save and restore the original value.

When change the \@makefnmark to a sligher different version that includes color, that is controled by a “global” is a variable of coop-writing, even if is not global in the \gdef sense.

It is possible that this cause, in a style that changes the footnote, some difference between coop-writing footnotes and normal (style) footnotes. This is not bad necessarily, it can even be good.

200 \newcommand\cw@footnote[3]{%  
201 \let\@temp@makefnmark\@makefnmark%  
202 \def\@makefnmark{\hbox{\@textsuperscript{\normalfont\color{\cw@currentcolor}\@thefnmark}}}%  
203 \cw@beforemarksymbol\cw@mark{\arabic{cwnotecounter}}%  
204 \cw@foot{#1}{#2}{#3}%  
205 \let\@makefnmark\@temp@makefnmark%  
206 \}%  

16.9.2 The margin note

This macro builds the margin note.

207 \newcommand\cw@margin[1]{%  
208 \ifmargins%  
209 \marginpar{\textcolor{\cw@currentcolor}{#1}}%  
210 \fi%  
211 \}%

\Cw@note Basic function to build the comment
\Cw@note\{(text)\{(name)\{(label)\} \}
If not label, it must be empty

212 \newcommand\Cw@note [3] % text, name, label  
213 {%  
214 \addtocounter{cwnotecounter}{1}%  
215 \ifshowednotes%  
216 \cw@footnote\{#1\}\{#2\}\{#3\}%  
217 \ifednotebookmarks%  
218 \belowpdfbookmark\{#2: #1\}\{cwnotepdfbm.\the\cwnotecounter\}%  
219 \fi%  
220 \fi}%

More functions for doing the editorial note
\newcommand{\cw@note}[4]{% text, type, label, margin
  \ifshowednotes%
  \cw@margin{#4:\arabic{cwnotecounter}}%
  \fi}
\newcommand{\cwnote@label}{Editor}%
\newcommand{\cwnote@margin}{Ed}%
\newcommand{\cwnotelabel}[1]{\def\cwnote@label{#1}}%
\newcommand{\cwnotemargin}[1]{\def\cwnote@margin{#1}}%
\newcommand{\Cwnote}[2]{%\}{\Cw@note{#2}\cwnote@label{#1}}%
\cwnote

It writes the footnote, the symbol and the margin.

To avoid problems we keep $\cw@currentcolor$.

WARNING: will this use a lot of memory? Every creation will keep the old value alive?

\newcommand{\cwnote}[3]{%\}{\let\@temp@color\cw@currentcolor% \def\cw@currentcolor{#3}%, \cw@note{#2}% \cwnote@label{#1}% \cwnote@margin% \let\cw@currentcolor\@temp@color%}

https://tex.stackexchange.com/questions/30483/how-can-i-check-in-latex-or-plain-tex-whether-a-command-exists-by-name as opções comentário, assuntos e anonimizar CORES

\cor@suavizacao

Make a color lighter for later use in highlighitngs This code is more complex than it should be because o soulutf8's package \hl behavior. Solution found in: https://tex.stackexchange.com/questions/410295/soul-color-transparency

\corleve

Light highlight makes a \hl that is lighter

\cw@hll

Isolating cwnote

% rótulo texto cor indicador
\newcommand{\cw@cwnote}[4]{%
16.10 Anonymization

Will write anonymous or cite anonymous. The user has a way to configure the
citation as he or she wants.

\newcommand{\cw@anontext}{Anonymous}
\newcommand{\cw@anoncitetext}{(Anonymous, Year)}
\newcommand{\cw@anonciteptext}{(Anonymous, Year)}
\newcommand{\cw@anoncitettext}{Anonymous (Year)}

These macros allow to define how anonymous citations will appear is anonymous
mode is activated. For example, one can change all the citation formats to [0].

\if@beanonymous
\newcommand{\cwanon}{\cw@anontext}
\newcommand{\cwanoncite}{\cite{\#1}{\#2}}
\else
\newcommand{\cwanon}{\cite{\#1}{\#2}}
\fi

16.11 Subjects

The idea of subjects is to have one subject for each paragraph.

There are two commands to support it: `\cwsuject[⟨highlight-color⟩] {⟨subject⟩}`
and `\cwmain[⟨highlight-color⟩] {⟨line-inside-a-paragraph⟩}`

Both are listed with `\listofsubject`.

\cwsetsubjectcolor
\cwsetmaincolor

Sets color for all cwsubject and cwcolor
\cwsubject Currently is just a list of subjects and and a highlight
This is an use for cwsubject
it is a header for a paragraph.

\if@showsubjects
\newcommand{\listsubject}{\cwsubjtitle}\
%% cria a lista, depende do pacoto tcloft
\fi\
\if@cwmemoirdefense\
\@ifundefined{chapter}{\newlistentry[section]{subject}{aaa}{0}}{\newlistentry[chapter]{subject}{aaa}{0}}
\newlistof{listofsubject}{aaa}{\listsubject}
\else\
\@ifundefined{chapter}{\newlistof[section]{subject}{aaa}{\listsubject}}{\newlistof[chapter]{subject}{aaa}{\listsubject}}\fi\
\newcommand{\cwsubject}[2][\cor@subject]{\refstepcounter{subject}\
\sethlcolor{#1}\
\hl{#2}\
\par\if@cwmemoirdefense\addcontentsline{aaa}{subject}{\protect\numberline{\thesubject}{#2}}\else\addcontentsline{aaa}{subject}{\protect\numberline{\thesubject}{#2}}\fi\}\
\fi\
\cwmain This is another way to control the main idea for a paragraph, but using an sentence inside it.
This is a use for cwmain. In the first sentence of a paragraph.
Trying to configure it:
This is a use for cwmain. In the first sentence of a paragraph.
16.12 Editorial Comments

The main subject of this package
\addcontentsline{ccc}{comentario}{\protect\numberline{\thecomentario}#2}
\else\addcontentsline{ccc}{comentario}{\protect\numberline{\thecomentario}{#2}}\fi
\%\% comentador genérico, parte II
\% faz o highlight , soma o step e comenta
\% [texto hl] footnote cor indicator
\newcommand{\cw@comment}[4]{\refstepcounter{comentario}% soma um ao contador
\cw@hll{#3}{#1}% ver subfunção de impressão com hl
\cw@comentar{#2}{#3}{#4}%
}%
\%\% comentador genérico com rótulo
\% [texto hl] footnote cor indicator rótulo
\newcommand{\cw@commentLabeled}[5]{\refstepcounter{comentario}% soma um ao contador
\cw@hll{#3}{#1}% ver subfunção de impressão com hl
\cw@comentar[#5]{#2}{#3}{#4}%
}%
\if@cwmemoirdefense\else\setlength{\cftcomentariosnumwidth}{\cw@cftnumwidth}\fi
\%
16.13 Suggestions, Remo ves and Changes

One common error of students is not to cite correctly. Citation errors are so common that I decided to provide the option to have an optional list just for them. They are enable together with commentaries, users can use them or not.
16.15 Draft
cwdraft This environment creates a boxed text, with title used as a first parameter. It uses package mdframed to create the frame. If draft is turned off as an option, it suppress everything inside the body. Due to problems with soul accepting \cwdrafttitle we use \colorbox to support multiple languages if default title is used.
16.16 Powerful command to create editors and authors

This allows for many types of comments. This was the reason I started using a front-end to ed, and later decided to use colors, that ed does not support. If I had known of color-edits, maybe this package was never done. I actually implemented the same functionalities without knowing about that package. One day, looking for other editorial packages that used editorial symbols, I found color-edits, but it was too late, I was already hooked on \LaTeX programming addiction.

\namedef\cwsetdraftcolor \setcolor that highlights the draft title

\newcommand{\cwsetdraftcolor}[1]{\def\cor@hldraft{#1}}

\newcommand{\cwnamedef}[3]{\expandafter\newcommand\csname#1\endcsname[2]{\cw@comment[##1]{##2}{#2}{#3}}}
\newcommand{\cwxcomment}[3]{\cw@xcomment[##1]{##2}{#2}{#3}}
\newcommand{\cwgensug}[3]{\cw@gensug[##1]{##2}{#2}{##3}{#2}{##2}}
\newcommand{\cw@xcommentLabeled}[5]{\cw@xcomment[##1]{##2}{#2}{#3}}
\newcommand{\cw@commentLabeled}[5]{\cw@comment[##1]{##2}{#2}{#3}{##4}}
\newcommand{\cwtroca}[3]{\cw@gensug[##1]{##2}{#2}{##3}{#2}{##3}}
\newcommand{\cw@gensug}[4]{\cw@gensug[##1]{##2}{#2}{##3}{#2}{##4}}
\newcommand{\cw@gensug}[5]{\cw@gensug[##1]{##2}{#2}{##3}{#2}{##4}{##5}}

\newcommand{\cwnamedef}[3]{\expandafter\newcommand\csname#1\endcsname[2]{\cw@comment[##1]{##2}{#2}{#3}}}
\newcommand{\cwxcomment}[3]{\cw@xcomment[##1]{##2}{#2}{#3}}
\newcommand{\cwgensug}[3]{\cw@gensug[##1]{##2}{#2}{##3}{#2}{##2}}
\newcommand{\cw@xcommentLabeled}[5]{\cw@xcomment[##1]{##2}{#2}{#3}}
\newcommand{\cw@commentLabeled}[5]{\cw@comment[##1]{##2}{#2}{#3}{##4}}
\newcommand{\cwtroca}[3]{\cw@gensug[##1]{##2}{#2}{##3}{#2}{##3}}
\newcommand{\cw@gensug}[4]{\cw@gensug[##1]{##2}{#2}{##3}{#2}{##4}}
\newcommand{\cw@gensug}[5]{\cw@gensug[##1]{##2}{#2}{##3}{#2}{##4}{##5}}
These are the two standard users.

16.17 To do notes

This was developed because some of my students started a text using todonotes, before being aware of my package, therefore I need to have some compatibility to make the change. With time it became useful and I will try to make something better in the future.

\todo If option inline is not used, it is only a front-end to an editorial comment for a user called “To do”. If it is used, it tries to simulate the simplest behavior of todonotes package. In the future this can be enhanced, since package mdframed is very powerful. If the non-inline version is used, the to do note will not appear in the List of Commentaries.\footnote{Xexeo: It would be nice to check if todonotes is load and just use it

\begin{mdframed}[backgroundcolor=\cw@todobackgroundcolor]#2\end{mdframed}

\definetodocolor Allows the definition of a background color for todo notes.
16.18 Portuguese/English, or inverse translation table

These next lines of code made easy to convert this package to English, because it was written in Portuguese, for Brazilian researchers. Some commands were rewritten in English with time, such as \texttt{rascunho}, but the Portuguese version will always be maintained, while other were translated using only his mechanism.

\begin{verbatim}
528 \let\rascunho=\cwdraft%
529 \let\cwassunto=\cwssubject%
530 \let\favorcitar=\pleasecite%
531 \let\cwautor=\cwnamedef%
532 \let\listofcomments=\listofcomentario%
533 \let\listofcitationneeds=\listofcomentarioref%
534 \let\listofassunto=\listofsubject%
535 \let\listofsubjects=\listofsubject%
536 
\end{verbatim}

End of Code

References


Change History

v1.0
- General: First version

v1.1
- General: You can put an additional symbol before the comment superscript number

v1.1.1
- General: Fix some bugs, anonyziation back on manual

v1.1.2
- General: PDF bookmarks can’t handle full UTF

v1.2.0
- General: New command cwmain and configuration for it

v1.2.1
- General: Fixing problems with

v1.2.2
- General: Memoir class, used by abnetex2, used by my department, “emulates” tocloft, but not correctly. Many IFs were necessary

v1.2.3
- General: CoppeTex class asks for LoF and etc. to appear in tocloft, but Book does not behave like that

v1.2.4
- General: Corrections for CTAN
Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

<table>
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<tr>
<th>Symbols</th>
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<th>@beanonymoustrue</th>
</tr>
</thead>
<tbody>
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<td></td>
<td>... 12, 66, 73</td>
<td>... 21, 34, 54, 62</td>
</tr>
<tr>
<td>@cwmemoiredefensefalse</td>
<td>... 114</td>
<td>@showsubjectsttrue</td>
</tr>
<tr>
<td></td>
<td>... 111</td>
<td>... 24, 37, 50</td>
</tr>
<tr>
<td>@cwmemoirefensetrue</td>
<td>... 111</td>
<td>@showugestaottrue</td>
</tr>
<tr>
<td></td>
<td>... 23, 36, 53</td>
<td>... 11, 61, 70</td>
</tr>
<tr>
<td>@cwtoclofttitlesfalse</td>
<td>... 18</td>
<td>@shortodottrue</td>
</tr>
<tr>
<td></td>
<td>... 278, 283</td>
<td>... 13, 63, 74</td>
</tr>
<tr>
<td>@empty</td>
<td>... 47</td>
<td>@showtodofalse</td>
</tr>
<tr>
<td></td>
<td>... 201, 202, 205</td>
<td>... 201, 205</td>
</tr>
<tr>
<td>@makefnmark</td>
<td>... 201, 202, 205</td>
<td>@temp@makefnmark</td>
</tr>
<tr>
<td></td>
<td>... 201, 202, 205</td>
<td>... 39, 55</td>
</tr>
<tr>
<td>@modoedicaofalse</td>
<td>... 14</td>
<td>@temp@color</td>
</tr>
<tr>
<td>@modoedicatruetrue</td>
<td>... 17</td>
<td>... 232, 237</td>
</tr>
<tr>
<td>@modopublicartrue</td>
<td>... 297, 299, 309</td>
<td>@w</td>
</tr>
<tr>
<td>@modopublicarceitandofalseaddcontentline</td>
<td>... 17</td>
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</tr>
<tr>
<td></td>
<td>... 311, 347, 349</td>
<td>@w</td>
</tr>
<tr>
<td>@modopublicarceitandotree</td>
<td>... 30, 45</td>
<td>@w</td>
</tr>
<tr>
<td></td>
<td>... 355, 357, 447, 449</td>
<td>@w</td>
</tr>
<tr>
<td>@modopublicarfalse</td>
<td>... 16</td>
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</tr>
<tr>
<td>@modopublicartrue</td>
<td>... 27, 29, 42, 44</td>
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</table>
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\L
\label \listcomentario \listcomentarioref \listofcomments \listofsubject \listofsubjects \listsubject \marginpar \marginstrue \meta

\N \NewEnviron \newif \newline \newlistof \numberline \rascunho \refstepcounter \relax

\P \par \plesecite \printcooperwritingversion \ProcessOptions \protect \thecontentario \thecontentarioref

\R \rascunho \refstepcounter \thesubject

\S \setqcolor \setlength \textbf \textcolor \thecnometcounter \thesubject

\T \textbf \textcolor
## List of Comments

<table>
<thead>
<tr>
<th>Number</th>
<th>Author/Comment</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Xexéo</td>
<td>This is an example of using this package to make a comment with highlighted text.</td>
</tr>
<tr>
<td>5.1</td>
<td>Xexéo</td>
<td>This is the simplest form of an editorial note.</td>
</tr>
<tr>
<td>5.2</td>
<td>Xexéo</td>
<td>This is the example of the minimal use of an editorial command.</td>
</tr>
<tr>
<td>5.3</td>
<td>Author</td>
<td>Simplest footnote comment.</td>
</tr>
<tr>
<td>5.4</td>
<td>Editor</td>
<td>Comment with highlighting.</td>
</tr>
<tr>
<td>5.5</td>
<td>Author</td>
<td>Labeled footnote comment.</td>
</tr>
<tr>
<td>5.6</td>
<td>Author</td>
<td>Labeled comment with highlighting.</td>
</tr>
<tr>
<td>5.7</td>
<td>Editor</td>
<td>Simplest footnote comment.</td>
</tr>
<tr>
<td>5.8</td>
<td>Author</td>
<td>Comment with highlighting.</td>
</tr>
<tr>
<td>5.9</td>
<td>Author</td>
<td>Labeled footnote comment.</td>
</tr>
<tr>
<td>5.10</td>
<td>Author</td>
<td>Labeled comment with highlighting.</td>
</tr>
<tr>
<td>5.11</td>
<td>Editor</td>
<td>I want to insert this.</td>
</tr>
<tr>
<td>5.12</td>
<td>Author</td>
<td>Repeated words.</td>
</tr>
<tr>
<td>5.13</td>
<td>Xexéo</td>
<td>This comment superscript number should be preceded by a <code>\footnote{}</code>.</td>
</tr>
<tr>
<td>5.14</td>
<td>Xexéo</td>
<td>Two stars are still low priority.</td>
</tr>
<tr>
<td>10.1</td>
<td>Xexéo</td>
<td>But it will grow in power with time.</td>
</tr>
<tr>
<td>10.2</td>
<td>To do</td>
<td>This is how it works without the inline option.</td>
</tr>
<tr>
<td>16.1</td>
<td>To do</td>
<td>I must complete this explanation list.</td>
</tr>
<tr>
<td>16.2</td>
<td>Xexéo</td>
<td>It would be nice to check if todonotes is load and just use it.</td>
</tr>
</tbody>
</table>
List of Citation Needs

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16.2 Please cite ed package ..................................................... 23
# List of Subjects

<table>
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<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example of a subject</td>
<td>13</td>
</tr>
<tr>
<td>A pink colored subject</td>
<td>13</td>
</tr>
<tr>
<td>All subjects will be cyan</td>
<td>13</td>
</tr>
<tr>
<td>This is the main idea</td>
<td>14</td>
</tr>
<tr>
<td>This is another main idea</td>
<td>14</td>
</tr>
<tr>
<td>This is another main idea</td>
<td>14</td>
</tr>
<tr>
<td>This is the main idea</td>
<td>14</td>
</tr>
<tr>
<td>This is the main idea</td>
<td>14</td>
</tr>
<tr>
<td>This is another main idea</td>
<td>14</td>
</tr>
<tr>
<td>This is another main idea</td>
<td>14</td>
</tr>
<tr>
<td>This is an use for cwssubject</td>
<td>28</td>
</tr>
<tr>
<td>This is a use for cwmain</td>
<td>28</td>
</tr>
<tr>
<td>This is a use for cwmain</td>
<td>28</td>
</tr>
</tbody>
</table>