coop-writing v1.5.2

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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[1] of the package, since it is distributted with the `editing` option turned on. This is done to provide the examples of use.

Xexéo:1

1.1 A bit of context

I wrote `coop-writing` to support my way of writing papers in colaboration with my students, and also to comment on theses and dissertations I supervise. It received many suggestions from my students.

The starting goal was to build a front-end that would put together other packages, with the best behavior of each package, mostly `ed` and `todonotes`, but with time, and the difficulty to make different packages with commands that have the same name to coexist, it grew in scope.

It picks ideas from different packages, such as `ed`[Koh11], `color-edits`[Kem20], and `todonotes`[Mid21]. 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 https://github.com/xexeo/coop-writing, using a MIT License. The stable distribution is in the folder `dist`, while the lastest, and unstable, will be in the root folder. A CTAN folder now contains the current submitted CTAN distribution.

The only file you really need, apart from this manual, is `coop-writing.sty`. This should be in your LATEX path, such as in the same folder that your main `.tex` file.

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

```
\usepackage[editing]{coop-writing}
\usepackage[submit]{coop-writing}
```

[1] Xexéo:This is an exemple of using this package to make a comment with highlighted text

```
\usepackage[publish]{coop-writing}
```

After that, you can use `\cwauthor` or `\cweditor` to make commentaries, but you should 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

You can make suggestions, complain about bugs, and request features using GitHub's "Issues" feature, in https://github.com/xexeo/coop-writing/issues.

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.

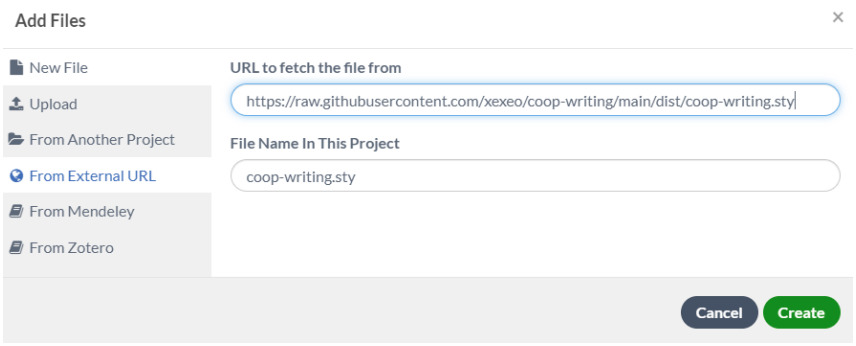

Figure 1: How to link a coop-writing.sty file in your project folder in Overleaf to the official distribution.

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 because, 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 `cwdraft` environment. They are named *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 `editing`, `submit`, or `publish`, and some minor variations. They are named *state oriented options*.

They turn on and off different commands, according to the need described by the state.

The third type control other behaviors. They are named *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 **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 enviroments, they will be there for you to use, but the deeply affect their behavior. A macro that is very complex, such as `\cwauthor`, if one of the options `comments` or `editing` is selected, is replaced by a simple version that do almost nothing.

3.1 Command oriented options

`subjects` • `subjects`, enables the use of `\subject`, which is proposed as a paragraph heading describing its subject;

`comments` • `comments`, enables all editorial comments and the command `\pleasecite`;

`drafts` • `drafts`, enables the `\cwdraft` command;

`suggestions` • `suggestions`, enables the comments definided in the suggestion section of this text.

`anonymize` • `anonymize`, enables anonymization commands, and

`todos` • `todos`, enables the to do family of commands.

`changecolor` • `changecolor`, enable the `cwcolor` family of commands

3.2 State oriented options

`submit` • `submit`, enables the `submit` state. `anonymize` is on, `subjects`, `comments`, `drafts`, `changecolor` and `suggestions` are off.

`noanonymize` • `noanonymize`, disables `anonymize` even in `submit` and `editing` options.

`publish` • `publish`, disables all command oriented options, ignore suggestions.

`acceptingpublish` • `acceptingpublish`, disables all command oriented options, accept suggestions

`editing` • `editing`, enables `subjects`, `comments`, `drafts`, `changecolor` and `suggestions`; since version 1.3 it disables `anonymize`.

3.3 Behavior oriented options

Some of this option are inherited from `ed`.

- `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 redefinition 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 various ways of marking your text, such as with comments or 'to-do' notes, which can be completely suppressed if desired.. Mostly, this can be easilly done using one the 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.

`\coopwritingversion` Provides the current version

`\printcoopwritingversion` Provides name and version

`\coopwritingversion` was used in the title of this article. The current version is v1.5.2.

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

`\printcoopwritingversion`

will result in:

coop-writing v. v1.5.2

Please state the version when reporting bugs.

5 Editorial comments

This is the main purpose of this package.

The idea is that users not only 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

Xexéo:2 margin note indicating this intervention, and a footnote explaining it[2]. Figure 2 illustrate this behavior.

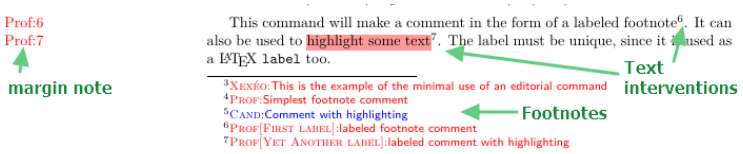

Figure 2: How comments appear in the document when `editing` option is on.

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 LaTeXdocument, i.e., before the `\begin{document}` declaration. It is usually done just after the `\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 sufixes, ⟨*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, `\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"[3].
Xexéo:3

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 `\gut`, but use "Gutemberg" as your identifier.

`\cwauthor` `\cweditor` 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.

[2]Xexéo:This is the simplest form of an editorial note.
[3]Xexéo:This is the example of the minimal use of an editorial command

5.2.1 Comments

\<name> `\<name> [`⟨*selection*⟩`]{`⟨*footnote comment*⟩`}`

\cwauthor `\cwauthor [`⟨*selection*⟩`]{`⟨*footnote comment*⟩`}`

\cweditor `\cweditor [`⟨*selection*⟩`]{`⟨*footnote comment*⟩`}`

These are the simplest commands, and will make a comment in the form of a identified footnote[4]. The optional ⟨*selection*⟩ parameter allows to highlight some text[5].

Author:4
Editor:5

5.2.2 Labeled Comments

\<name>r `\<name>r [`⟨*selection*⟩`]{`⟨*footnote comment*⟩`}{`⟨*label*⟩`}`

\cwauthorr `\cwauthorr [`⟨*selection*⟩`]{`⟨*footnote comment*⟩`}{`⟨*label*⟩`}`

\cweditorr `\cweditorr [`⟨*selection*⟩`]{`⟨*footnote comment*⟩`}{`⟨*label*⟩`}`

This command will make a comment in the form of a labeled footnote[6]. It can also be used to highlight some text[7]. 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 Comment 6.

Author:6
Author:7

5.3 Striked-throught 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-trought comments. They are easy to use, just put an `x` after the command name.

\<name>x `\<name>x [`⟨*selection*⟩`]{`⟨*footnote comment*⟩`}`

\cwauthorx `\cwauthorx [`⟨*selection*⟩`]{`⟨*footnote comment*⟩`}`

\cweditorx `\cweditorx [`⟨*selection*⟩`]{`⟨*footnote comment*⟩`}`

This command will make a comment in the form of a footnote[8], however the comment is striked through. It can also be used to highlight some text[9].

Editor:8
Author:9

\<name>rx `\<name>rx [`⟨*selection*⟩`]{`⟨*footnote comment*⟩`}{`⟨*label*⟩`}`

\cwauthorrx `\cwauthorrx [`⟨*selection*⟩`]{`⟨*footnote comment*⟩`}{`⟨*label*⟩`}`

\cweditorrx `\cweditorrx [`⟨*selection*⟩`]{`⟨*footnote comment*⟩`}{`⟨*label*⟩`}`

This command will make a comment in the form of a labeled footnote[10], however the comment is striked through. It can also be used to highlight some text[11].

Author:10
Author:11

[4] Author:Simplest footnote comment
[5] Editor:Comment with highlighting
[6] Author[FirstLabel]:labeled footnote comment
[7] Author[OtherLabel]:labeled comment with highlighting
[8] Editor:~~Simplest footnote comment~~
[9] Author:~~Comment with highlighting~~
[10] Author[Second label]:~~labeled footnote comment~~
[11] Author[New label]:~~labeled comment with highlighting~~

The label must be unique, since it is used as a LaTeX `label` too.

5.4 Text Modification - Suggestions

Sometimes, an author may want to insert, remove, or edit some text. If they are unsure whether everyone will agree, they can make a suggestion, which will appear in their chosen color.

`\<name>sug`
`\cwauthorsug`
`\cweditorsug`

`\<name>sug[`⟨*comment*⟩`]{`⟨*suggested text*⟩`}`

`\cwauthorsug[`⟨*comment*⟩`]{`⟨*suggested text*⟩`}`

`\cweditorsug[`⟨*comment*⟩`]{`⟨*suggested text*⟩`}`

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:

```
\cwauthorsug{inserted text} will appears in the red, and it is
possible to \cweditorsug[I want to insert this]{use a comment}.
```

generates:

Author:12 inserted text[12] will appears in the red, and it is possible to use a comment[13].
Editor:13

`\<name>rem`
`\cwauthorrem`
`\cweditorrem`

`\<name>rem[`⟨*comment*⟩`]{`⟨*suggested removal*⟩`}`

`\cwauthorrem[`⟨*comment*⟩`]{`⟨*suggested removal*⟩`}`

`\cweditorrem[`⟨*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.
```

generates:

Author:14 This is an example ~~that is quite good~~[14]. Again, it is also possible to comment
Author:15 the ~~the removal~~[15] removal.

`\<name>swap`
`\cwauthorswap`
`\cweditorswap`

`\<name>swap[`⟨*comment*⟩`]{`⟨*suggested removal*⟩`}{`⟨*suggested insertion*⟩`}`

`\cwauthorswap[`⟨*comment*⟩`]{`⟨*suggested removal*⟩`}{`⟨*suggested insertion*⟩`}`

`\cweditorwap[`⟨*comment*⟩`]{`⟨*suggested removal*⟩`}{`⟨*suggested insertion*⟩`}`

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

[12] Author:Attention
[13] Editor:I want to insert this
[14] Author:Attention
[15] Author:Repeated words

For example:

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

generates:

~~This should work like this.~~This is an example of how the command should work.[16] The following text is not a suggestion.

Author:16

5.5 Putting more warning in text

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

`\cwsetcommwarn`

This is done using the following command and syntax:

`\cwsetcommwarn{`⟨*symbol*⟩`}`

Using package `marvosym`, the example:

```
\cwsetcommwarn{\Lightning}
```

will change the behavior of editorial[17] comments to include the ϟ symbol.

Xexéo:17

You can remove the symbol by simply using `\cwsetcommwarn{}`

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

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[18].

Xexéo:18

Using other fonts, more can be acomplished. For example, package `marvosym` offers `\HollowBox`, □, `\Checkedbox`, ☑, `\CrossedBox`, ☒, which can be used to indicate that something should be done, is done or will not be done.

6 Anonymization

Anonymization provide commands to replace names and references by anonymous names and references. It, by default, is enabled only in the `submit` option

There are 5 anonymization commands:

[16] Author:Attention

[17] Xexéo:This comment superscript number should be preceeded by a ϟ

[18] Xexéo:⋆⋆ Two stars are still low priority

\cwanon
- \cwanon{⟨*text*⟩}

\cwanoncite
- \cwanoncite[⟨*cite-compatible-oarg*⟩]{⟨*cite-compatible-arg*⟩}

\cwanoncitet
- \cwanoncitet[⟨*citet-compatible-oarg*⟩]{⟨*citet-compatible-arg*⟩}

\cwanoncitep
- \cwanoncitep[⟨*citep-compatible-oarg*⟩]{⟨*citep-compatible-arg*⟩}

\cwblind
- \cwblind{⟨*command*⟩}{⟨*open text*⟩}{⟨*blind text*⟩}

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

\cwdefanontext
- \cwdefanontext{⟨*replacement-text*⟩}

\cwdefanoncitetext
- \cwdefanoncitetext{⟨*replacement-text*⟩}

\cwdefanoncitettext
- \cwdefanoncitettext{⟨*replacement-text*⟩}

\cwdefanonciteptext
- \cwdefanonciteptext{⟨*replacement-text*⟩}

The example:

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

generates:

My name is Geraldo Xexéo, and I read [Koh11], [Mid21, pags 1], Kern [Ker16].

Changing values, as in:

```
\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 Geraldo Xexéo, and I read [Koh11], [Mid21, pags 1], Kern [Ker16].

`cwblind` is a command that appeared in version 1.3. It works as a `\newcommand` with two different definitions, the first for when anonymization is turned off, the second for when it is turned on.

When in editing mode, text to be anonymized will be printed in blue. This color can be changed with the command `\cwsetanoncolor`.

7 Draft environment

`cwdraft` (*env.*)

The `cwdraft` environment aims to allow writers to include text that is marked somehow as a draft[1]

[1] 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 correcly numbered

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`.

`\cssetdraftcolor`

The color of the title highlight can be changed with

`\cssetdraftcolor{`⟨*color*⟩`}`

The example:

```
\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}

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

generates:

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 [Min09].

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

`\todo`

Xexéo:19

The `todo` command is a much simpler version than the one available in `todonotes`[19]. It´s syntax is:

`\todo`[inline]{⟨*text*⟩}

To do:20

A todo without a inline option is equivent to a comment of author "To do"[20]. 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

.

`\cwdefinetodocolor`

It is possible to change the background color of the box using this macro . The idea, however, is that all to-dos should have the same color.

[19] Xexéo:But it will grow in power with time
[20] To do:This is how it works without the inline option

`\cwdefinetodocolor{`⟨*color*⟩`}`.

The example:

```
\cwdefinetodocolor{yellow}
\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.

11 Coloring Text

Sometimes we want to color text. As for version 1.5 we have the neew `\cwcolor` and `\cwrestore` color commands.

`\cwcolor` Sets the current default text color to a new color, save the current default start color as color to restored with `restorecolor`.

`\cwcolor{`⟨*color*⟩`}`.

`\cwrestorecolor` Restore the last default text color.

```
Text is in the default text color.
\cwcolor{red}
 This text in red
\cwrestorecolor
 This text back to default color
```

Text is in the default text color. This text in red This text back to default color

12 Language Support

This style supports the following `babel` defined languages:

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

`\cwcommentstitle` `\cwdrafttitle` `\cwsubjtitle` `\cwcitationstitle` `\cwpleasecitetext` `\cwpleasecitemessage` `\cwpleasecitemarginnote` 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{Plese cite}
\def\cwpleasecitemessage{something to support this information}
\def\cwpleasecitemarginnote{Cite}
```

13 Optional Files (input and include)

Since version 1.4, it is possible to insert optional files accordingly to the current mode

`\cwinput` `\cwinclude`

This first to commands allow to select which file will be displayed in each mode.

`\cwinput{`⟨*file-editing-mode*⟩`}{`⟨*file-submit-mode*⟩`}{`⟨*file-publish-mode*⟩`}`

`\cwinclude{`⟨*file-editing-mode*⟩`}{`⟨*file-submit-mode*⟩`}{`⟨*file-publish-mode*⟩`}`

The next six commands work only in their specific mode.

`\cwinputediting` `\cwincludeediting` `\cwinputsubmit` `\cwincludesubmit` `\cwinputpublish` `\cwincludepublish`

`\cwinputediting{`⟨*file-if-editing-mode*⟩`}`

`\cwincludeediting{`⟨*file-if-editing-mode*⟩`}`

`\cwinputsubmit{`⟨*file-if-submit-mode*⟩`}`

`\cwincludesubmit{`⟨*file-if-submit-mode*⟩`}`

`\cwinputpublish{`⟨*file-if-publish-mode*⟩`}`

`\cwincludepublish{`⟨*file-if-publish-mode*⟩`}`

14 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.

15 The commands in Portuguese

This section is in Brazilian Portuguese.

A Tabela 1 Mostra o mapeamento em inglês e português.

15.1 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.

Tabela 1: Tradução dos comandos para português.

Tipo	Inglês	Português
environment	`cwdraft`	`rascunho`
macro	`\cwnamedef`	`\cwautor`
macro	`\cwsubject`	`\cwassunto`
macro	`\listofcomments`	`\listofcomentario`
macro	`\listofsubjects`	`\listofassunto`
macro	`\listofcitationneeds`	`\listofcomentarioref`
macro	`\todo`	`\todo`

16 Comparision with other packages

It is interesting to compare this package with other 3:

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

17 Useful packages that work together with coop-writing

`lineno` is useful in editing mode, and works together with `coop-writing`, as our tests show.

18 Interaction with other packages

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

`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.

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

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

19 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.

19.1 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

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

`\printcoopwritingversion` Provides package name and version

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

19.2 Option Processing

19.2.1 Creating Options Variables used in ed

Some come from ed code and are being cleaned

```
\newif\ifshowednotes\showednotestrue%
\newif\ifcw@avoidhyperref\cw@avoidhyperreffalse
\newif\ifmargins\marginstrue%
\newif\ifednotebookmarks\ednotebookmarkstrue%
% \subsubsection{Creating Original Options Variables}
\newif\if@showcomentario\@showcomentariofalse%
% as próximas duas variáveis controlam o \@beanonymous, por isso tem que ser duas
% porque só são mexidas se chamadas, não pode chamar uma porque vai mudar sempre
% a \@beanonymous
\newif\if@anonimizar\@anonimizarfalse% o default é não anonimizar
\newif\if@naoanonimizar\@naoanonimizarfalse% o default dessa variavel é anonimizar
\newif\if@beanonymous\@beanonymousfalse%
\newif\if@showdraft\@showdraftfalse%
\newif\if@showsubjects\@showsubjectsfalse%
\newif\if@showsugestao\@showsugestaofalse%
\newif\if@showtodo\@showtodofalse%
\newif\if@modoedicao\@modoedicaofalse%
\newif\if@modosubmeter\@modosubmeterfalse%
\newif\if@modopublicar\@modopublicarfalse%
\newif\if@modopublicaraceitando\@modopublicaraceitandofalse%
\newif\if@cwtoclofttitles\@cwtoclofttitlesfalse
\newif\if@changecolor\@changecolorfalse
```

19.2.2 Portuguese Options

```
\DeclareOption{rascunhos}{\@showdrafttrue}
\DeclareOption{cwavoidhyperref}{cw@avoidhyperreftrue}
\DeclareOption{comentarios}{\@showcomentariotrue}
```

```
\DeclareOption{anonimizar}{\@anonimizartrue} % isso vai se perder nos modos
\DeclareOption{naoanonimizar}{\@naoanonimizartrue}
\DeclareOption{sugestoes}{\@showsugestaotrue}
\DeclareOption{assuntos}{\@showsubjectstrue}
\DeclareOption{edicao}{\@modoedicaotrue}
\DeclareOption{submeter}{\@modosubmetertrue}
\DeclareOption{publicar}{\@modopublicartrue}
\DeclareOption{publicaraceitando}{
\@modopublicartrue
\@modopublicaraceitandotrue
}
```

19.2.3 English Options, inspired on ed package

```
\DeclareOption{nopdfbookmarks}{\ednotebookmarksfalse}
```

19.2.4 Original English Options

```
\DeclareOption{comments}{\@showcomentariotrue}
\DeclareOption{anonymize}{\@anonimizartrue}
\DeclareOption{noanonymize}{\@naoanonimizartrue}
\DeclareOption{suggestions}{\@showsugestaotrue}
\DeclareOption{subjects}{\@showsubjectstrue}
\DeclareOption{drafts}{\@showdrafttrue}
\DeclareOption{todos}{\@showtodotrue}
\DeclareOption{changecolor}{\@changecolortrue}
\DeclareOption{editing}{\@modoedicaotrue}
\DeclareOption{submit}{\@modosubmetertrue}
\DeclareOption{publish}{\@modopublicartrue}
\DeclareOption{acceptingpublish}{
\@modopublicartrue
\@modopublicaraceitandotrue
}
```

New option to titles in tocloft

```
\DeclareOption{toclofttitles}{\@cwtoclofttitlestrue}
\ProcessOptions\relax
```

19.2.5 Fixing the Super Options

```
\if@modoedicao
\@showsubjectstrue
\@showdrafttrue
\@showcomentariotrue
\@showsugestaotrue
\@beanonymousfalse
\@showtodotrue
\@changecolortrue
\fi
\if@modosubmeter
\@showsubjectsfalse
\@showdraftfalse
\@showcomentariofalse
\@showsugestaofalse
\@beanonymoustrue
```

```
\@showtodofalse
\@changecolorfalse
\fi
\if@modopublicar
\@showsubjectsfalse
\@showsugestaofalse
\@showdraftfalse
\@showcomentariofalse
\@beanonymousfalse
\@showtodofalse
\@changecolorfalse
\fi%
% is explicitilly set, changes beanonymous
\if@naoanonimizar
\@beanonymousfalse
\fi
% is explicitilly set, changes beanonymous
\if@anonimizar
\@beanonymoustrue
\fi
\if@showtodo
\@showcomentariotrue
\fi
```

19.3 Required Packages

Packages that are always required

- xcolor - used to support colors
- soul - substituted its now obsolete variation in 1.4.4, used for highlighting.
- ulem - used to support strikethrought[21]
- 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 do:21

```
\RequirePackage{xcolor}
\RequirePackage{soul}
\RequirePackage[normalem]{ulem}
\RequirePackage{etoolbox} % \ifdef comes from here
\RequirePackage{environ}
\RequirePackage{xstring}
\RequirePackage{csquotes}
\RequirePackage{mdframed}
```

19.4 Optional Packages

Package that are required only sometimes

```
\ifshowednotes%
\else%
\RequirePackage{verbatim}%
\fi%
```

[21] To do:I must complete this explanation list

19.5 CoppeTeX problems

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

```
\@ifclassloaded{coppe}%
{%
\RequirePackage[titles]{tocloft}%
}%
{%
\if@cwtocloftttitles%
\RequirePackage[titles]{tocloft}%
\else%
\RequirePackage{tocloft}%
\fi%
}%
```

Checking if babel is loaded, use iflang

```
\@ifpackageloaded{babel}%
{%  \message{Babel Loaded!}%
\RequirePackage{iflang}%
}{%
\message{Babel not detected!}%
}%
```

`hyperref` must always be the last

```
\ifednotebookmarks%
\@ifpackageloaded{hyperref}%
  {
    \message{Hyperref loaded before coop-writing}
  }
  { \message{Hyperref loaded before coop-writing}
    \ifcw@avoidhyperref
       {
         \message{coop-writing must avoid hyperref}
       }%
       {
         \message{Hyperref called by coop-writing}
         \RequirePackage{hyperref}
       }%
  }
\fi
```

19.6 Solving problems with other packages

19.6.1 Problems with `abntex2` and `memoir`

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

Cite:22

This error is actually `memoir` fault[22], since it emulates `tocloft` (and other

[22] Cite:Plese cite memoir package

packages). I can´t imagine why...

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

```
\@ifclassloaded{memoir}%
{% TRUE
\newif\if@cwmemoirdefense\@cwmemoirdefensetrue%
}%
{% FALSE
\newif\if@cwmemoirdefense\@cwmemoirdefensefalse%
}%
%
```

19.7 Color related variables

```
\newcommand{\cor@prof}{red}%
\newcommand{\cor@cand}{blue}%
\newcommand{\cor@subject}{green}%
\newcommand{\cor@main}{yellow}%
\newcommand{\cor@citar}{purple}%
\newcommand{\cor@hldraft}{yellow}%
\newcommand{\cw@cftnumwidth}{20pt}
```

19.8 I18N Almost Using Babel

We can detect if babel is enable 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 `\setlocalecaption`, 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}`.

```
\def\cwdrafttitle{Standard Draft}%
\def\cwcommentstitle{Standard List of Comments}%
\def\cwsubjtitle{Standard List of Subjects}%
\def\cwcitationstitle{Standard List of Citation Needs}%
\def\cwpleasecitetext{Plese cite}%
\def\cwpleasecitemessage{something to support this information}%
\def\cwpleasecitemarginnote{Cite}%
\def\cw@attentiontext{Attention}%
%
\@ifpackageloaded{babel}%
{%
\IfLanguageName{brazil}%
{%
\def\cwdrafttitle{Rascunho}%
\def\cwcommentstitle{Lista de Comentários}%
\def\cwsubjtitle{Lista de Assuntos}%
\def\cwcitationstitle{Necessidades de Citação}%
\def\cwpleasecitetext{Favor citar}%
\def\cwpleasecitemessage{alguma coisa que suporte este texto}%
```

```
\def\cwpleasecitemarginnote{Citar}%
\def\cw@attentiontext{Atenção}%
}{}%
\IfLanguageName{brazilian}%
{%
\def\cwdrafttitle{Rascunho}%
\def\cwcommentstitle{Lista de Comentários}%
\def\cwsubjtitle{Lista de Assuntos}%
\def\cwcitationstitle{Necessidades de Citação}%
\def\cwpleasecitetext{Favor citar}%
\def\cwpleasecitemessage{alguma coisa que suporte este texto}%
\def\cwpleasecitemarginnote{Citar}%
\def\cw@attentiontext{Atenção}%
}{}%
%
\IfLanguageName{portuguese}%
{%
\def\cwdrafttitle{Rascunho}%
\def\cwcommentstitle{Lista de Comentários}%
\def\cwsubjtitle{Lista de Assuntos}%
\def\cwcitationstitle{Necessidades de Citação}%
\def\cwpleasecitetext{Favor citar}%
\def\cwpleasecitemessage{alguma coisa que suporte este texto}%
\def\cwpleasecitemarginnote{Citar}%
\def\cw@attentiontext{Atenção}%
}{}%
%
\IfLanguageName{english}%
{%
\def\cwdrafttitle{Draft}%
\def\cwcommentstitle{List of Comments}%
\def\cwsubjtitle{List of Subjects}%
\def\cwcitationstitle{List of Citation Needs}%
\def\cwpleasecitetext{Plese cite}%
\def\cwpleasecitemessage{something to support this information}%
\def\cwpleasecitemarginnote{Cite}%
\def\cw@attentiontext{Attention}%
}{}%
}%
{}%
```

19.9 ed inspired code

Cite:23

This code, inspired in the `ed` package[23], makes the basic mechanism for inserting comments as footnotes with an observation in the margin. As an adition to `ed`, it support colors and some text before the superscript number in the text

`cwnotecounter` Setting up the counter that gives the number of the footnote

```
\newcounter{cwnotecounter}%
```

[23] Cite:Plese cite ed package

19.9.1 The footnote

Format for the text

```
\newcommand\cw@noteshape{\sffamily}%
```

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

```
\def\cw@currentcolor{black}%
```

footnote indicador e rótulo

`\cw@foot` This macro write the text in the footnote using with 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 elsewehre. This is not good programming practice, but it turned out to be the easiest way of doing it in LaTeXwithout more and more arguments.)

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

If this is a labeled note, it will create a LaTeXlabel on the format

`cw:`⟨*label*⟩

That can be used in a `\ref` command.

```
\newcommand\cw@foot[3]%
{%
\def\@test{#3}% @test just checks if argument #3 exists
\footnotetext[\arabic{cwnotecounter}]%
{%
{\scshape{\textcolor{\cw@currentcolor}{#2}}%
\if\@test%
\@empty%
\else%
\label{cw:#3}%
\textcolor{\cw@currentcolor}{[#3]}% if \meta{label} is not empty
\fi%
\textcolor{\cw@currentcolor}{:}%
\cw@noteshape\textcolor{\cw@currentcolor}{#1}}%
}%
```

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

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

`\cw@beforemarksymbol` `\cwsetcommwarn` These macros control the symbol (or any text) that can appear before the footnotemark

`\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

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 LaTeX operation. Therefore we save and restore the original value.

Whe change the `\@makefnmark` to a slighter 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.

```
\newcommand\cw@footnote[3]{%
\let\@temp@makefnmark\@makefnmark%
\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\color{\cw@currentcolor}\@thefnmark}}}%
\textcolor{\cw@currentcolor}{\cw@beforemarksymbol\cw@mark{\arabic{cwnotecounter}}}%
\cw@foot{#1}{#2}{#3}%
\let\@makefnmark\@temp@makefnmark%
}%
```

19.9.2 The margin note

This macro builds the margin note.

```
\newcommand\cw@margin[1]{%
\ifmargins%
\marginpar{\textcolor{\cw@currentcolor}{#1}}%
\fi%
}%
```

`\Cw@note` Basic function to build the comment

`\Cw@note{`⟨*text*⟩`}{`⟨*name*⟩`}{`⟨*label*⟩`}`

If not label, it must be empty

```
\newcommand\Cw@note[3]% text, name, label
{%
\addtocounter{cwnotecounter}{1}%
\ifshowednotes%
\cw@footnote{#1}{#2}{#3}%
\ifednotebookmarks%
```

```
\belowpdfbookmark{#2: #1}{cwnotepdfbm.\thecwnotecounter}%
\fi%
\fi}%
```

More functions for doing the editorial note

```
\newcommand\cw@note[4]% text, type, label, margin
{\Cw@note{#1}{#2}{#3}%
\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 comentario, assuntos e anonimizar CORES

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

```
\newcommand{\cor@suavizacao}{40}%
\newcommand{\corleve}[1]{#1!\cor@suavizacao!white}
```

`\cwsetanoncolor` Sets the color used to indicate what will be anonymized

```
\newcommand{\cwsetanoncolor}[1]{\def\cw@editAnonColor{#1}}
\cwsetanoncolor{blue}
```

`\cw@hll` Light highlight makes a `\hl` that is lighter

```
\newcommand{\cw@hll}[2]% % Depedendo do soulutf8
{\colorlet{x@coraqui}{\corleve{#1}}%
\sethlcolor{x@coraqui}%
```

```
\hl{#2}%
}%
```

Isolating cwnote

```
%% rótulo texto cor indicador
\newcommand{\cw@cwnote}[4][]{%
\cwnotelabel{#4}%
\cwnotemargin{#4}%
\cwnote[#1]{#2}{#3}%
}%
```

19.10 Anonymization

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

`\cw@anontext` `\cw@anoncitetext` `\cw@anonciteptext` `\cw@anoncitettext` Default values for anonymous citation.

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

`\cwdefanontext` `\cwdefanoncitetext` `\cwdefanonciteptext` `\cwdefanoncitettext` These macros allow to define how anonymous citations will appear is anonymous mode is activated. For exemplo, one can change all the citation formats to `[0]`.

```
\newcommand{\cwdefanontext}[1]{\renewcommand{\cw@anontext}{#1}}%
\newcommand{\cwdefanoncitetext}[1]{\renewcommand{\cw@anoncitetext}{#1}}%
\newcommand{\cwdefanonciteptext}[1]{\renewcommand{\cw@anonciteptext}{#1}}
\newcommand{\cwdefanoncitettext}[1]{\renewcommand{\cw@anoncitettext}{#1}}%

\if@beanonymous
\newcommand{\cwanon}[1]{\cw@anontext}%
\newcommand{\cwanoncite}[2][]{\cw@anoncitetext}%
\newcommand{\cwanoncitep}[2][]{\cw@anonciteptext}%
\newcommand{\cwanoncitet}[2][]{\cw@anoncitettext}%
\else% be anonymous
\if@modoedicao%
\newcommand{\cwanon}[1]{\textcolor{\cw@editAnonColor}{#1}}%
\newcommand{\cwanoncite}[2][]%
{%
\ifstrempty{#1}%
{\textcolor{\cw@editAnonColor}{\cite{#2}}}%
{\textcolor{\cw@editAnonColor}{\cite[#1]{#2}}}%
}%
\else% modo edicao
\newcommand{\cwanon}[1]{#1}%
\newcommand{\cwanoncite}[2][]%
{%
\ifstrempty{#1}%
{\cite{#2}}%
```

```
{\cite[#1]{#2}}%
}%
\fi% modoedicao
%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% where ifdef comes from?
\ifdef{\citep}%
{% tem citep
\newcommand{\cwanoncitep}[2][]%
{%
\if@modoedicao%
\ifstrempty{#1}%
{\textcolor{\cw@editAnonColor}{\citep{#2}}}%
{\textcolor{\cw@editAnonColor}{\citep[#1]{#2}}}%
\else% modo edicao
\ifstrempty{#1}%
{\citep{#2}}%
{\citep[#1]{#2}}%
\fi% mode edicao
}%
}%
{% não tem citep
\newcommand{\cwanoncitep}[2][]
{\ifstrempty{#1}%
{\cwanoncite{#2}}%
{\cwanoncite[#1]{#2}}%
}%
}%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\ifdef{\citet}%
{% tem citet
\newcommand{\cwanoncitet}[2][]%
{%
\if@modoedicao%
\ifstrempty{#1}%
{\textcolor{\cw@editAnonColor}{\citet{#2}}}%
{\textcolor{\cw@editAnonColor}{\citet[#1]{#2}}}%
\else% modo edicao
\ifstrempty{#1}%
{\citet{#2}}%
{\citet[#1]{#2}}%
\fi% mode edicao
}%
}%
{% não tem citet
\newcommand{\cwanoncitet}[2][]
{%
\ifstrempty{#1}%
{\cwanoncite{#2}}%
{\cwanoncite[#1]{#2}}%
}%
}%
\fi% be anonymous
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

\cwblind Defines a new macro for blind review commands \cwblind{⟨*command*⟩}{⟨*open text*⟩}{⟨*blind text*⟩}

```
\if@beanonymous%
\newcommand{\cwblind}[3]{%
\newcommand{#1}{#3}%
}%
\else%
\if@modoedicao%
\newcommand{\cwblind}[3]{%
\newcommand{#1}{\textcolor{\cw@editAnonColor}{#2}}% AQUI
}%
\else
\newcommand{\cwblind}[3]{%
\newcommand{#1}{#2}%
}%
\fi%
\fi%
```

19.11 Subjects

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

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

Both are listed with \listofsubject.

\cwsetsubjectcolor \cwsetmaincolor Sets color for all cwsubject and cwmaincolor

```
\newcommand{\cwsetsubjectcolor}[1]{\def\cor@subject{#1}}%
\newcommand{\cwsetmaincolor}[1]{\def\cor@main{#1}}%
```

\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
```

Memoir class needs 2 commands to really define a list It also changes the \newlistof arguments' meaning

```
\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%
% I really can´t say why we need to
% avoid curly braces in the next command
\if@cwmemoirdefense%
\addcontentsline{aaa}{subject}{\protect\numberline{\thesubject}#2}%
\else%
\addcontentsline{aaa}{subject}{\protect\numberline{\thesubject}{#2}}%
\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.

```
\newcommand{\cwmainemphasis}[1]{\hl{#1}}
%
\newcommand{\cwmain}[2][\cor@main]{%
\refstepcounter{subject}%
\sethlcolor{#1}%
\cwmainemphasis{#2}%
\if@cwmemoirdefense%
\addcontentsline{aaa}{subject}{\protect\numberline{\thesubject}#2}%
\else%
\addcontentsline{aaa}{subject}{\protect\numberline{\thesubject}{#2}}%
\fi%
}%
%
\if@cwmemoirdefense%
\else%
\setlength{\cftsubjectnumwidth}{\cw@cftnumwidth}%
\fi%
\else%
\newcommand{\listofsubject}{}%
\newcommand{\cwsubject}[2][]{}%
\newcommand{\cwmain}[2][]{#2}
\fi%
```

19.12 Editorial Comments

The main subject of this package

```
\if@showcomentario
```

```
%% Resolve a lista de comentários
\newcommand{\listcomentario}{\cwcommentstitle}%
%% cria a lista
\if@cwmemoirdefense%
\@ifundefined{chapter}%
{\newlistentry[section]{comentario}{ccc}{0}}
{\newlistentry[chapter]{comentario}{ccc}{0}}
\newlistof{listofcomentario}{ccc}{\listcomentario}%
\else%
\@ifundefined{chapter}
{\newlistof[section]{comentario}{ccc}{\listcomentario}}
{\newlistof[chapter]{comentario}{ccc}{\listcomentario}}%%
\fi%
%%
%% Comentador genérico - parte I
%% faz o cwnote e soma na lista
%% [rótulo], texto , cor, indicador
\newcommand{\cw@comentar}[4][]{%
\ifstrempty{#4}{%
% rótulo texto cor indicador
\cw@cwnote[#1]{#2}{#3}{Comentário}% faz a nota de rodapé do ed
\if@cwmemoirdefense%
\addcontentsline{ccc}{comentario}{\protect\numberline{\thecomentario}#2}%
\else%
\addcontentsline{ccc}{comentario}{\protect\numberline{\thecomentario}{#2}}%
\fi%
}%
{%
\cw@cwnote[#1]{#2}{#3}{#4}%
\if@cwmemoirdefense%
\addcontentsline{ccc}{comentario}{\protect\numberline{\thecomentario}#4: #2}%
\else%
\addcontentsline{ccc}{comentario}{\protect\numberline{\thecomentario}{#4: #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}%
}%
%%
%%
\newcommand{\cw@xcomment}[4][]{%
\refstepcounter{comentario}% soma um ao contador
\cw@hll{#3}{#1}% ver subfunção de impressão com hl
\cw@comentar{\sout{#2}}{#3}{#4}%
}%
%%
%%
%% comentador genérico com rótulo
```

```
%% [texto hl] footnote cor  indicator rótulo
\newcommand{\cw@commentLabeled}[5][]{%
\refstepcounter{comentario}%
\cw@hll{#3}{#1}%
\cw@comentar[#5]{#2}{#3}{#4}%
}%
%%
%% [texto hl] footnote cor  indicator rótulo
\newcommand{\cw@xcommentLabeled}[5][]{%
\refstepcounter{comentario}%
\cw@hll{#3}{#1}%
\cw@comentar[#5]{\sout{#2}}{#3}{#4}%
}%
%%
\if@cwmemoirdefense%
\else%
\setlength{\cftcomentarionumwidth}{\cw@cftnumwidth}%
\fi%
\else
\newcommand{\cw@comentar}[4][]{}%
\newcommand{\listofcomentario}{}%
%% não pode perder o texto comentado
\newcommand{\cw@comment}[4][]{#1}%
\newcommand{\cw@commentLabeled}[5][]{#1}%
\newcommand{\cw@xcomment}[4][]{#1}
\newcommand{\cw@xcommentLabeled}[5][]{#1}%
\fi%|
```

19.13 Suggestions, Removes and Changes

```
%% comentário, cor, indicador, textovelho, cor velho, textonovo, cor novo
%% Em modo publicar coloca o textovelho
\newcommand{\cwdefattentiontext}[1]{\def\cw@attentiontext{#1}}
\if@showsugestao
\newcommand{\cw@gensug}[7][Uma proposta]{%
\textcolor{#5}{\sout{#4}}% CORRIGINDO AQUI
\textcolor{#7}{#6}%
\if@showcomentario%
\ifstrempty{#1}{%
\cw@comentar{\cw@attentiontext}{#2}{#3}%% [rótulo], cor , footnote , indicador
}%
{\refstepcounter{comentario}%
\cw@comentar{#1}{#2}{#3}%% [rótulo], cor , footnote , indicador
}%
\fi%
}%% [rótulo], cor , footnote , indicador
\else%
\if@modopublicaraceitando
\newcommand{\cw@gensug}[7][]{#6}%
\else%
\newcommand{\cw@gensug}[7][]{#4}%
\fi%
\fi%
```

19.14 File Control

\cwinput
\cwinclude
\cwinputediting
\cwincludeediting
\cwinputsubmit
\cwincludesubmit
\cwinputpublish
\cwincludepublish

```
\newcommand{\cwinput}[3]{} %% blank commands first
\newcommand{\cwinclude}[3]{}%
\newcommand{\cwinputediting}[1]{}%
\newcommand{\cwincludeediting}[1]{}%
\newcommand{\cwinputsubmit}[1]{}%
\newcommand{\cwincludesubmit}[1]{}%
\newcommand{\cwinputpublish}[1]{}%
\newcommand{\cwincludepublish}[1]{}%
\if@modoedicao %% redefine only the necessary commands
\renewcommand{\cwinput}[3]{\input{#1}}%
\renewcommand{\cwinclude}[3]{\include{#1}}%
\renewcommand{\cwinputediting}[1]{\input{#1}}%
\renewcommand{\cwincludeediting}[1]{\include{#1}}%
\else%
\if@modopublicar%
\renewcommand{\cwinput}[3]{\input{#3}}%
\renewcommand{\cwinclude}[3]{\include{#3}}%
\renewcommand{\cwinputpublish}[1]{\input{#1}}%
\renewcommand{\cwincludepublish}[1]{\include{#1}}%
\else%
\if@modosubmeter%
\renewcommand{\cwinput}[3]{\input{#2}}%
\renewcommand{\cwinclude}[3]{\include{#2}}%
\renewcommand{\cwinputsubmit}[1]{\input{#1}}%
\renewcommand{\cwincludesubmit}[1]{\include{#1}}%
\fi%
\fi%
\fi%
```

\cwincludepublish

19.15 Citations Needed

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.

```
\if@showcomentario%
\newcommand{\listcomentarioref}{\cwcitationstitle}%
\if@cwmemoirdefense%
\@ifundefined{chapter}%
{\newlistentry[section]{comentarioref}{ccr}{0}}
{\newlistentry[chapter]{comentarioref}{ccr}{0}}
\newlistof{listofcomentarioref}{ccr}{\listcomentarioref}
\else%
\@ifundefined{chapter}%
{\newlistof[section]{comentarioref}{ccr}{\listcomentarioref}}
{\newlistof[chapter]{comentarioref}{ccr}{\listcomentarioref}}%
\fi%
```

```
\else%
\newcommand{\listofcomentarioref}{}%
\fi%
\if@showcomentario%
\newcommand{\cw@commentref}[3][]{%
\refstepcounter{comentarioref}%
\cw@hll{#3}{#1}%
\cw@cwnote{#2}{#3}{\cwpleasecitemarginnote}%
\if@cwmemoirdefense%
\addcontentsline{ccr}{comentarioref}{\protect\numberline{\thecomentarioref}#2}%
\else%
\addcontentsline{ccr}{comentarioref}{\protect\numberline{\thecomentarioref}{#2}}%
\fi%
}%
\if@cwmemoirdefense%
\else%
\setlength{\cftcomentariorefnumwidth}{\cw@cftnumwidth}%
\fi%
\else%
\newcommand{\cw@commentref}[3]{}%
\fi%
\if@showcomentario
```

`\pleasecite` `\pleasecite[`⟨*footnote-text*⟩`]`

```

\newcommand{\pleasecite}[1][\cwpleasecitemessage]{%
\cw@commentref{\cwpleasecitetext\  #1}{\cor@citar}}%
\else%
\newcommand{\pleasecite}[1][]{}%
\fi%
```

19.16 Draft

`cwdraft` (*env.*) This enviroment 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 supress everything inside the body. Due to problems with soul accepting `\cwdrafttitle` we use `\colorbox` to support multiple languages if default title is used

```
\if@showdraft%
\NewEnviron{cwdraft}[1][]{%
\ifstrempty{#1}%
{\colorbox{\corleve{\cor@hldraft}}{\textbf{\cwdrafttitle}}}%
{\cw@hll{\cor@hldraft}{\textbf{#1}}}%
\newline%
\BODY%
}%
{}%
\surroundwithmdframed{cwdraft}%
\else%
\NewEnviron{cwdraft}[1][]{}{}%
\fi%
```

\cwsetdraftcolor Sets the color that highlights the draft title

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

19.17 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` dones 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. nome do autor, cor, identificador

\cwnamedef

```
\newcommand{\cwnamedef}[3]{%
%% cwcomment - texto a hl, cor, comentário, indicador de pessoa
\expandafter\newcommand\csname#1\endcsname[2][]%
{%
\cw@comment[##1]{##2}{#2}{#3}}%
% [texto a marcar], cor , comentário, palavra, rótulo
\expandafter\newcommand\csname#1r\endcsname[3][]%
{\cw@commentLabeled[##1]{##2}{#2}{#3}{##3}}%
%% cortados
\expandafter\newcommand\csname#1x\endcsname[2][]%
{%
%% Comentários
\cw@xcomment[##1]{##2}{#2}{#3}}%
%% [texto a marcar], cor , comentário, palavra, rótulo
\expandafter\newcommand\csname#1rx\endcsname[3][]%
{\cw@xcommentLabeled[##1]{##2}{#2}{#3}{##3}}%
%% sugestões
\expandafter\newcommand\csname#1sug\endcsname[2][]%
{\cw@gensug[##1]{#2}{#3}{}{#2}{##2}{#2}}%
\expandafter\newcommand\csname#1rem\endcsname[2][]%
{\cw@gensug[##1]{#2}{#3}{##2}{#2}{}{#2}}
\expandafter\newcommand\csname#1troca\endcsname[3][]%
{\cw@gensug[##1]{#2}{#3}{##2}{#2}{##3}{#2}}%
\expandafter\newcommand\csname#1swap\endcsname[3][]%
{\cw@gensug[##1]{#2}{#3}{##2}{#2}{##3}{#2}}%
}%
```

\cwauthor These are the two standard users.
\cweditor

```
\cwnamedef{cwauthor}{red}{Author}
\cwnamedef{cweditor}{blue}{Editor}
```

19.18 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 de 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 `mdframe` is very powerful. If the non-inline version is used, the to do note will not appear in the List of Commentaries.[24]

Xexéo:24

```
\newcommand{\cw@todobackgroundcolor}{orange}%
\cwnamedef{cw@todoauthor}{orange}{To do}%
\if@showtodo%
\newcommand{\todo}[2][comentar]{%
\IfEq{inline}{#1}%
{%
\begin{mdframed}[backgroundcolor=\cw@todobackgroundcolor]
#2%
\end{mdframed}%
}%
{%
\cw@todoauthor{#2}%
}%
}%
\else%\if@showtodo
\newcommand{\todo}[2][]{}%
\fi%
```

`\cwdefinetodocolor` Allows the definition of a background color for todo notes.

```
\newcommand{\cwdefinetodocolor}[1]{\renewcommand{\cw@todobackgroundcolor}{#1}}%
```

19.19 Text Color

This is new in version 1.5. Trying to create a way to change the color of the default text, but it could interact with other commands.

```
\if@changecolor%
\newcommand{\cwsavecolor}{\colorlet{savedcolor}{.}}
\newcommand{\cwcolor}[1]{\cwsavecolor%
\color{#1}
}
\newcommand{\cwrestorecolor}{\color{savedcolor}}
\else%
\newcommand{\cwsavecolor}{}
\newcommand{\cwcolor}[1]{}
\newcommand{\cwrestorecolor}{}
\fi%
```

[24] Xexéo:It would be nice to check if todonotes is load and just use it

19.20 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 `rascunho`, but the Portuguese version will always be maintained, while other were translated using only his mechanism.

```
\let\rascunho=\cwdraft%
\let\cwassunto=\cwsubject%
\let\favorcitar=\pleasecite%
\let\cwautor=\cwnamedef%
\let\listofcomments=\listofcomentario%
\let\listofcitationneeds=\listofcomentarioref%
\let\listofassunto=\listofsubject%
\let\listofsubjects=\listofsubject%
%
```

End of Code

References

[Kem20] David Kempe. *The Color-edits package. Colorful edits for multiple authors of a shared document.* Version 1.1. Sept. 19, 2020. URL: http://www.ctan.org/pkg/color-edits (visited on 05/29/2021).

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[Koh11] Michael Kohlhase. *The Ed package. Editorial Notes for LaTeX documents.* Version 1.8. July 1, 2011. URL: https://gl.kwarc.info/kwarc/macros/tree/master/ed (visited on 05/29/2021).

[Mid21] Henrik Skov Midtiby. *The todonotes package.* Apr. 26, 2021. URL: http://www.ctan.org/pkg/todonote (visited on 05/29/2021).

[Min09] B. Minto. *The Pyramid Principle: Logic in Writing and Thinking.* Financial Times Series. Financial Times Prentice Hall, 2009. ISBN: 9780273710516.

Change History

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