

The **colorframed** package

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report issues at <https://github.com/jfbu/colorframed>

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1 Description

This package fixes various colour leaks one encounters with the environments from Donald Arseneau's package `framed`. Typically, colour leaks occur if using `\color` inside the environments, or more subtly also when using `\textcolor` with an argument ending up being split at a page break.

This latter type of colour leak (or colour disappearance) is the more challenging one as the fix requires modifications or replacements not only of some of the `framed.sty` macros (such as its `\CustomFBox`) but also to some \TeX internals, as some environments of `framed.sty` rely on usage of `\fbox` or `\colorbox`.

However, rather than overwriting such internal \TeX macros as `\@frameb@x` or `\color@b@x`, the `framed.sty` environments are modified by **colorframed** to make use of custom replacements to `\fbox`, `\colorbox`, and `\CustomFBox`.

I am aware `tcolorbox` package documentation explains at least one colour issue which looks similar to those fixed here in `framed` context, and that the fix overthere uses an extra colour stack, hence is not `xelatex` compatible currently.

The problems are solved here without involving an extra colour stack, hence the fixes work also with `xelatex`.

2 The environments from `framed`

A list of the environments from package `framed`

This indicates the boxing macros they are based upon originally, and what this package does as replacement:

framed (`\fbox`) The **colorframed** variant uses own `\CustomFBox` rather.

oframed (`\CustomFBox`) **colorframed** replaces it with own version.

titled-frame (`\CustomFbox`) Replaced by own version.

A list of the environments from package framed (cont)

shaded (`\colorbox`) Replaced by `\colorframedcolorbox`.

shaded* (`\colorbox`) Idem.

snugshade (`\colorbox`) Idem.

snugshade* (`\colorbox`) Idem.

leftbar This one does not use any boxing macro.

We refer the reader to framed documentation and provide here only a few additional details, particularly regarding the `'titled-frame'` environment as it is described in framed documentation more as being a template than a user-level finalized environment. The above box gives an example of its use. It is an environment with one mandatory argument which provides the title of the frame, which is repeated after a page break with (cont) appended. The colours `TFFrameColor` and `TFTitleColor` must be defined by user. To customize further one will need to renew the environment definition, which is left untouched by `colorframed` (which modifies rather `\TitleBarFrame` and `\CustomFBox`). Here is how this environment is defined:

```
% A particular type of titled frame with continuation marks.
% Parameter #1 is the title, repeated on each page.
\newenvironment{titled-frame}[1]{%
  \def\FrameCommand{\fboxsep8pt\fboxrule2pt
    \TitleBarFrame{\textbf{#1}}}%
  \def\FirstFrameCommand{\fboxsep8pt\fboxrule2pt
    \TitleBarFrame[$\blacktriangleright$]{\textbf{#1}}}%
  \def\MidFrameCommand{\fboxsep8pt\fboxrule2pt
    \TitleBarFrame[$\blacktriangleright$]{\textbf{#1\ (cont)}}}%
  \def\LastFrameCommand{\fboxsep8pt\fboxrule2pt
    \TitleBarFrame{\textbf{#1\ (cont)}}}%
  \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
% note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
% could interfere with the width measurement.
{\endMakeFramed}
```

As a side note, this `'titled-frame'` environment was partly broken in recent \TeX which has modified how `\smash` behaves; `colorframed` fixes it in passing.

One does not need to dive into the details of the macros used above to understand intuitively how they are supposed to influence the final output. To

modify this output, simply redefine this environment with suitable changes. Notice in particular that `\blacktriangleright` requires to the best of my knowledge loading of `amssymb` or other math symbols package and it is up to user to do it, if its usage is kept.

The original environment gives to the continuation label at bottom right of the first part of a broken box the same colour as the frame. The `colorframed` variant adds the possibility to customize this colour via suitably defining a macro, in the example above we did:

```
\renewcommand\colorframedTFconlabcolorcommand{\color{red}}
```

This is an example of usage of the environment `\framed`.

This environment allows customization of the border width and of the separation with contents, via `\FrameRule` and `\FrameSep`, but not of the colour of the border. The `colorframed` version adds this possibility: it is simply a matter of redefining the `\colorframedbordercolorcommand` macro, which defaults to `\normalcolor`.

So the current frame was configured using:

```
\setlength{\FrameRule}{5pt}  
\setlength{\FrameSep}{9pt}  
\renewcommand\colorframedbordercolorcommand{\color{red!20}}
```

The text colour induced from a `\color{blue}` will not leak out to the frame or to the text following this environment, even in case of a pagebreak.

As indicated the aim of `colorframed` is not to modify the existing environments of `framed.sty` into acquiring more capabilities and customizability, and we have indicated already the two sole customization additions. The aim was strictly to fix the colour leak issues.

3 TODO

The author has developed based upon usage of `pict2e` breakable boxes with round corners, background colour, optional shadow, and other goodies and is planning on incorporating this environment into the package.

Of course, it will remain limited in comparison to the fully customizable boxes provided by package `tcolorbox` but our testing showed significant speed-up in build time, which may matter for long documents.

Hopefully this addition will be done when time will permit.