

The `callouts-box` Package

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1 Introduction

The `callouts-box` package provides a collection of visually appealing, structured callout boxes for \LaTeX documents. These boxes are useful for highlighting important information such as warnings, errors, notes, and success messages. The package is built on top of `tcolorbox` for highly customizable, breakable callout boxes and `xcolor` for predefined color schemes.

2 Installation

To install the `callouts-box` package, place the following files in your \LaTeX directory:

- `callouts-box.sty` (Core functionality and environment definitions)
- `callouts-box-colors.sty` (Predefined color definitions for callouts)

Then, include the package in your document preamble:

```
\usepackage{callouts-box}
```

3 Usage

`warningbox` (*env.*) The package provides four predefined callout box environments: Each environment `errorbox` (*env.*) takes an optional argument for the box title. If no title is provided, a default title `notebox` (*env.*) is used.
`successbox` (*env.*)

3.1 Basic Examples

Here are some examples of how to use the predefined callout boxes:

```
\begin{warningbox}[Custom Warning Title]
  This is a warning message.
\end{warningbox}
```

```
\begin{errorbox}
  This is an error message.
\end{errorbox}
```

```
\begin{notebox}[Important Note]
  This is a note.
\end{notebox}
```

```
\begin{successbox}
  This is a success message.
\end{successbox}
```

3.2 Advanced Examples

You can nest callout boxes inside each other:

```
\begin{warningbox}[Outer Warning]
  This is an outer warning message.

  \begin{notebox}[Nested Note]
    This is a nested note inside a warning.
  \end{notebox}
\end{warningbox}
```

You can add equations, lists, or images inside callout boxes:

```
\begin{successbox}[Success with Equation]
  The famous Pythagorean theorem:
  \[
    a^2 + b^2 = c^2
  \]
\end{successbox}
```

```
\begin{notebox}[Note with List]
  Key points to remember:
  \begin{itemize}
    \item Callout boxes can contain lists.
    \item They can also include images.
  \end{itemize}
\end{notebox}
```

3.3 Customization

Users can modify the visual appearance of callout boxes by editing `callouts-box-colors.sty` or overriding the `tcbset` settings in their document.

`\tcbset` To adjust layout settings, use the `tcbset` command:

```
\tcbset{
  boxsettings/.style={
    boxrule=2pt, rounded corners=10pt, arc=10pt,
    left=10pt, right=10pt, top=10pt, bottom=10pt,
    boxsep=10pt, before skip=15pt, after skip=15pt,
    breakable, before upper={\ignorespaces},
  }
}
```

4 Defining Custom Boxes

You can define your own callout box styles using `NewTColorBox`. Example:

```
\definecolor{custom-border}{HTML}{FFA500}
\definecolor{custom-content}{HTML}{FFF3E0}
\definecolor{custom-text}{HTML}{FF6D00}

\NewTColorBox{custombox}{0{Custom Box} o }{
  colframe=custom-border,
  colback=custom-content,
  coltitle=custom-text,
  fonttitle=\bfseries,
  coltext=custom-text,
  title={#1},
}
```

To use the custom box:

```
\begin{custombox}[My Custom Box]
  This is a custom box.
\end{custombox}
```

5 Complete Example

Here is a complete document using the `callouts-box` package:

```
\documentclass{article}
\usepackage{callouts-box}

\begin{document}

\begin{warningbox}[Warning]
  This is a warning message.
\end{warningbox}

\begin{successbox}[Success]
  This is a success message.
\end{successbox}
```

```

\begin{notebox}[Math Example]
  \[
    E = mc^2
  \]
\end{notebox}

\end{document}

```

6 License

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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.

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environments:		N	<code>\tcbset</code> <i>2</i>	
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