

Demo of flatbox

Léo Valais

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Dependencies:

- xcolor
- tcolorbox
- ifthen
- applecolors (optional)

1 Presentation

The package `flatbox` provides three kind of `tcolorboxes`:

- `flatbox`: boxes without background
- `ffbox`: boxes with filled background
- `groupbox`: another kind of minimalistic box

Title

I'm a `flatbox`.

Title

I'm a `ffbox`.

Title

I'm a `groupbox`.

L^AT_EX code:

```
1 \begin{flatbox}{Title}
2 I'm a \texttt{flatbox}.
3 \end{flatbox}
4
5 \begin{ffbox}{Title}
6 I'm a \texttt{ffbox}.
7 \end{ffbox}
8
9 \begin{groupbox}{Title}
10 I'm a \texttt{groupbox}.
11 \end{groupbox}
```

These boxes can have an empty title:

I'm a flatbox without title.

I'm a ffbox without title.

I'm a groupbox.

LaTeX code:

```
1 \begin{flatbox}{}
2 I'm a \texttt{flatbox} without title.
3 \end{flatbox}
4
5 \begin{ffbox}{}
6 I'm a \texttt{ffbox} without title.
7 \end{ffbox}
8
9 \begin{groupbox}{}
10 I'm a \texttt{groupbox}.
11 \end{groupbox}
```

1.1 Colors

Since these boxes are intentionally simplistic, the main point one wants to customize is the colors. To define flatbox-compatible colors, use `\setflatboxcolor`.

LaTeX code:

```
1 \setflatboxcolor[fg]{hippie}{red} % same as \setflatboxcolor{hippie}{red}
2 \setflatboxcolor[bg]{hippie}{green}
```

For flatboxes, the background color is useless and it is not even necessary to define it.

Then, to use this color combination, pass the name of the combination as an optional parameter to the boxes:

LaTeX code:

```
1 \begin{flatbox}[hippie]{Hippie flatbox}
2 I'm a hippie box.
3 \end{flatbox}
4
5 \begin{ffbox}[hippie]{Hippie flatbox}
6 I'm a hippie box.
7 \end{ffbox}
```

Hippie flatbox

I'm a hippie box.

Hippie flatbox

I'm a hippie box.

Alternatively, you can manually define the colors using the `xcolor` package facilities:

L^AT_EX code:

```
1 \colorlet{flatboxhippie.fg}{red}
2 \definecolor{flatboxhippie.bg}{RGB}{0,255,0}
```

The `flatbox` package defines some default colors for the environments `flatbox`, `exampleflatbox`, `alertflatbox`, `noteflatbox`, `theoremflatbox`, `ffbox`, `exampleffbox`, `alertffbox`, `noteffbox` and `theoremffbox` which are shown in section 2.

You can also override default colors, which names are:

- `flatbox.fg` and `flatbox.bg`
- `flatboxexample.fg` and `flatboxexample.bg`
- `flatboxalert.fg` and `flatboxalert.bg`
- `flatboxtheorem.fg` and `flatboxtheorem.bg`
- `flatboxnote.fg` and `flatboxnote.bg`

If the package `applecolors` is imported **before** `flatbox`, the iOS colors are used as default colors instead.

1.2 Error boxes

This package also defines the command `\errbox` and the environment `errorbox` that uses the colors `flatboxerror.fg` and `flatboxerror.bg`. They're sometimes useful to the writer for debugging purposes or to leave temporary notes but clearly not meant to be kept in the final document.

I'm a sentence **oh crap!** with some mistakes **not again!**.

Fix spelling (aspell?).

L^AT_EX code:

```
1 I'm a sentence\errbox{oh crap!} with some mistakes\errbox{not again!}.
2
3 \begin{errorbox}
4   Fix spelling (aspell?).
5 \end{errorbox}
```

1.3 Package options

The package `flatbox` accepts two options:

- `rounded`: gives `ffboxes` rounded corners
- `align`: if you wish to use both `flatboxes` and `ffboxes` in the same document, you might want to have their left margin aligned. This option does that (`flatboxes` have more indentation otherwise).

This option is used in this document.

2 Demo

Each box just has one (required) parameter: the title (can be empty).

L^AT_EX code:

```
1 \begin{style of flatbox}{optional title}
```

2.1 flatbox and ffbbox

Demo of flatbox

I'm a demo box.
Also I like to span over
multiple
lines.

I'm a demo box.
Also I like to span over
multiple
lines.

Demo of ffbbox

I'm a demo box.
Also I like to span over
multiple
lines.

I'm a demo box.
Also I like to span over
multiple
lines.

Demo of groupbox

I'm a demo box.
Also I like to span over
multiple
lines.

I'm a demo box.
Also I like to span over
multiple
lines.

2.2 exampleflatbox and exampleffbox

Demo of exampleflatbox

I'm a demo box.
Also I like to span over
multiple
lines.

I'm a demo box.
Also I like to span over
multiple
lines.

Demo of exampleffbox

I'm a demo box.
Also I like to span over
multiple
lines.

I'm a demo box.
Also I like to span over
multiple
lines.

Demo of examplegroupbox

I'm a demo box.
Also I like to span over
multiple
lines.

I'm a demo box.
Also I like to span over
multiple
lines.

2.3 alertflatbox and alertffbox

Demo of alertflatbox I'm a demo box. Also I like to span over multiple lines.	Demo of alertffbox I'm a demo box. Also I like to span over multiple lines.
I'm a demo box. Also I like to span over multiple lines.	I'm a demo box. Also I like to span over multiple lines.
Demo of alertgroupbox I'm a demo box. Also I like to span over multiple lines.	I'm a demo box. Also I like to span over multiple lines.

2.4 theoremflatbox and theoremffbox

Demo of theoremflatbox Stirling's approximation $\forall n \in \mathbb{N}, n! \sim \sqrt{2 \cdot \pi \cdot n} \cdot \left(\frac{n}{e}\right)^n$	Demo of theoremffbox Stirling's approximation $\forall n \in \mathbb{N}, n! \sim \sqrt{2 \cdot \pi \cdot n} \cdot \left(\frac{n}{e}\right)^n$
Stirling's approximation $\forall n \in \mathbb{N}, n! \sim \sqrt{2 \cdot \pi \cdot n} \cdot \left(\frac{n}{e}\right)^n$	Stirling's approximation $\forall n \in \mathbb{N}, n! \sim \sqrt{2 \cdot \pi \cdot n} \cdot \left(\frac{n}{e}\right)^n$
Demo of theoremgroupbox Stirling's approximation $\forall n \in \mathbb{N}, n! \sim \sqrt{2 \cdot \pi \cdot n} \cdot \left(\frac{n}{e}\right)^n$	Stirling's approximation $\forall n \in \mathbb{N}, n! \sim \sqrt{2 \cdot \pi \cdot n} \cdot \left(\frac{n}{e}\right)^n$

2.5 noteflatbox and noteffbox

Demo of noteflatbox I'm a demo box. Also I like to span over multiple lines.	Demo of noteffbox I'm a demo box. Also I like to span over multiple lines.
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I'm a demo box.
Also I like to span over
multiple
lines.

I'm a demo box.
Also I like to span over
multiple
lines.

Demo of notegroupbox

I'm a demo box.
Also I like to span over
multiple
lines.

I'm a demo box.
Also I like to span over
multiple
lines.