postit [en]

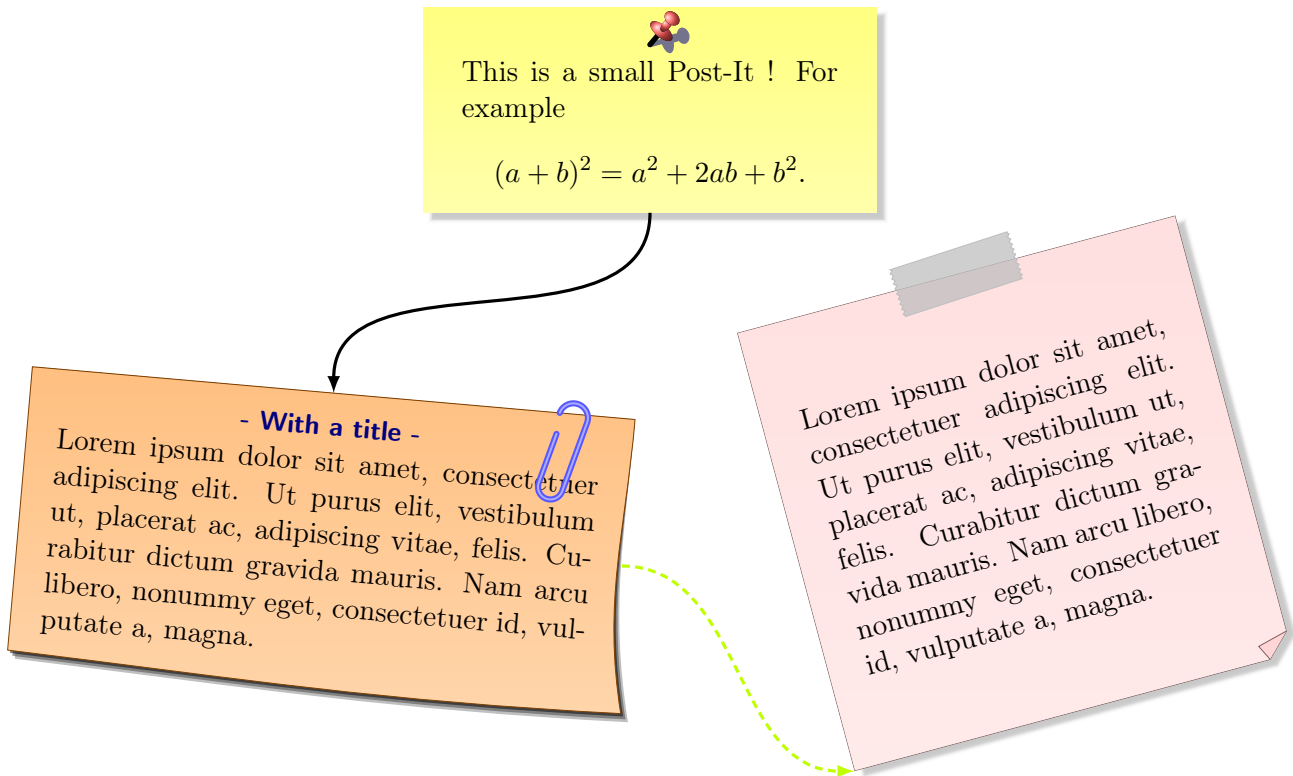## Small Post-It notes,

with tcolorbox or TikZ.

Version 0.1.3 - 12/06/2023

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https://github.com/cpierquet/postit

► Display and customize Post-It or *mini*-Post-It.

► Custom width, height, rotation, decoration...

This is a small Post-It ! For example

$$(a+b)^2 = a^2 + 2ab + b^2.$$

- With a title -

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Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna.

LaTeX

pdfLaTeX

LuaLaTeX

TikZ

TeXLive

MiKTeX

Contents

1 History

v0.1.3 :   Nodes for anchor points.
v0.1.2 :   English version.
v0.1.1 :   \vphantom for *mini*-Post-It + Bugfixes + Ti*k*Z rendering + optional title .
v0.1.0 :   Initial version.

2 The package postit

2.1 Introduction

The package proposes small Post-It notes, in a `tex` doc, created with `tcolorbox` or `tikz`, with option(s) in order to :

- change dimensions orcolor ;

- use pin deocration like Paperclip, Pushpin or Scotch ;

- customize border and/or corner ;

- use anchor points for each Post-It.

The package propose a command to display *mini*-Post-It (created with `tcbox`), with color and shadow customization.

2.2 Loading of the package, and option

The package Scrabble loads within the preamble.
There's no option, and `xcolor` isn't loaded.

```
\documentclass{article}
\usepackage{postit}
```

`postit` loads the following packages and libraries :

- `tcolorbox` with library `tcbox.skins` ;

- `tikz` libraries :

    - `tikz.calc` ;
    - `tikz.babel` ;
    - `tikz.decorations` ;
    - `tikz.decorations.pathmorphing` ;

- `settobox`, `xstring`, `varwidth` and `simplekv`.

It's mostly compatible with latex, pdflatex, lualatex or xelatex compilation !

2.3 Compatibility

If an other package loads `tcolorbox`, with ⟨[most]⟩ option, it's better to load `postit` after, to avoid `option clash error...`.

```
\documentclass{article}
\usepackage[<librairies>]{tcolorbox}
\usepackage{postit}
...
```

3 Post-It Environment

3.1 Environment

The environment to display a Post-It note is `PostItNote`.
It works with keys, between `[...]` and, with `<...>`, it's possible to parse options to the `tcbox` (not necessary with `tikz`) !

```
\begin{PostIt}[keys]<options tcbox>
...
...
\end{PostIt}
```

As mentionned in the introduction, the Post-It note is create with a `tcbox` or a `tikzpicture`. Most of the `tcbox`/`tikzpicture` parameters are fixed by the code, but some of them are configurable !

```
%default rendering (tcbox), with lipsum paragraph
\begin{PostItNote}
\lipsum[1][1-2]
\end{PostItNote}
```

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.

```
%tikz rendering, with lipsum paragraph
\begin{PostItNote}[Render=tikz]
\lipsum[1][1-2]
\end{PostItNote}
%tikzv2 rendering, with lipsum paragraph
\begin{PostItNote}[Render=tikzv2]
\lipsum[1][1-2]
\end{PostItNote}
```

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Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.

The colors must be used as *single*, without *mixes* (with `CouleurA!...!CouleurB`) proposed by `xcolor`.
However, every predefined color can be used within the Post-It.

The Post-It can be used with a `minipage` or a `wrapstuff` if needed.
For horizontal alignement, `\hfill` or `flush...` can be used.

⚠️ With a overlapping pin and the `tcbox` rendering, a vertical spacing before can be necessary, like `\vspace` or `\bigskip`...

3.2 Keys and options

💡 The first argument, mandatory and between `[...]`, proposes the following ⟨keys⟩ :

- `Maj 0.1.3` ⟨StorePostIt⟩ : name (for futher Ti*k*Z code) of the Post-It ;   default : ⟨PostIt⟩

- ⟨Width⟩ : width (in cm) of the Post-It ;   default : ⟨6cm⟩

- ⟨Color⟩ : color of the Post-It (border is a bit darker) ;   default : ⟨yellow⟩

- ⟨Height⟩ : hieght (in cm, if needed) of the Post-It (*automatic* by default) ;

  default : ⟨auto⟩

- `Maj 0.1.1` ⟨Render⟩ : engine, within ⟨tcbox / tikz / tikv2⟩ ;   default : ⟨tcbox⟩

- ⟨Rotation⟩ : rotation of the Post-It ;   default : ⟨0⟩

- ⟨Shadow⟩ : boolean for shadow ;   default : ⟨true⟩

- ⟨Border⟩ : boolean for a thin border ;   default : ⟨true⟩

- ⟨Corner⟩ : boolean to the corner decoration (`tcbox`) ;   default : ⟨false⟩

- ⟨Pin⟩ : decoration, within ⟨Paperclip / Pushpin / None / Scotch⟩ ;

  default : ⟨Pushpin⟩

- ⟨PinColor⟩ : color of the pin ;   default : ⟨red⟩

- ⟨PinsShift⟩ : horizontal shift (without unity, but in cm) of the orginal position of the pin
  default : ⟨0⟩

- `Maj 0.1.1` ⟨Title⟩ : add a title (1st line and/or under the pin) ;   default : ⟨empty⟩

- `Maj 0.1.1` ⟨Fonttitle⟩ : font of the titel ;   default : ⟨\normalfont\normalfont⟩

- `Maj 0.1.1` ⟨ExtraRightMargin⟩ : add (with `tikz` rendering, and in cm) à right margin ;

  default : ⟨0cm⟩

- ⟨AlignV⟩ : vertical alignement in the Post-It (within ⟨top/center/bottom⟩) ;

  default : ⟨top⟩

- ⟨AlignH⟩ : horizontal alignment in the Post-It (within ⟨left/center/right/justify⟩) ;

  default : ⟨justify⟩

- ⟨AlignPostIt⟩ : vertical alignemnt of the Post-It (within ⟨top/center/bottom⟩).

  default : ⟨bottom⟩

💡 The second argument, optional and between `<...>` is used to parse options to the `tcolorbox`. They can be used to modify locally options not present in the keys.
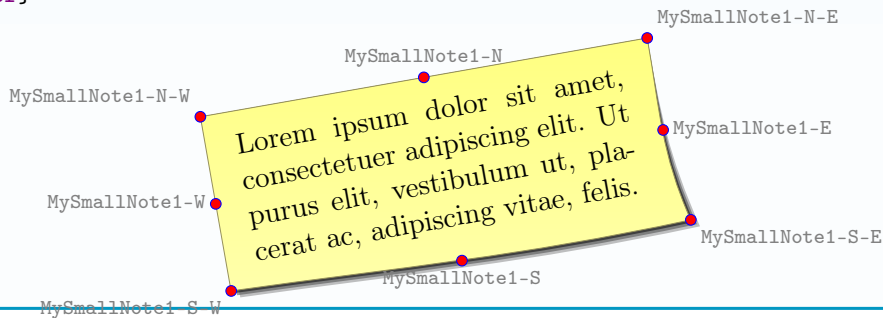
3.3 Anchor points
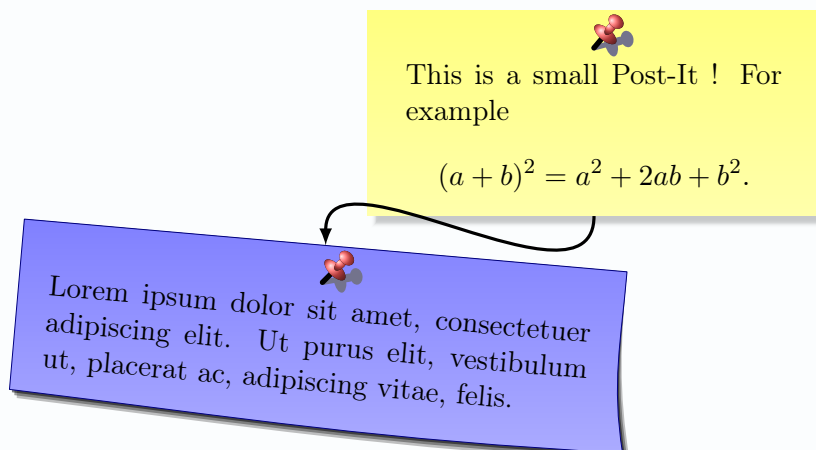
Some anchor points are created with the code :

- `(<name>-N)`, `(<name>-E)`, `(<name>-S)` et `(<name>-W)` for North/East/South/West ;

- `(<name>-N-W)`, `(<name>-N-E)`, `(<name>-S-E)` and `(<name>-S-W)` for North East/North West/....

```latex
\begin{center}
\begin{PostItNote}[Rotate=10,Pin=None,Render=tikz,StorePostIt=MySmallNote1]
    \lipsum[1][1-2]
\end{PostItNote}
\end{center}
```

MySmallNote1-N-E

MySmallNote1-N

MySmallNote1-N-W

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.

MySmallNote1-E

MySmallNote1-W

MySmallNote1-S-E
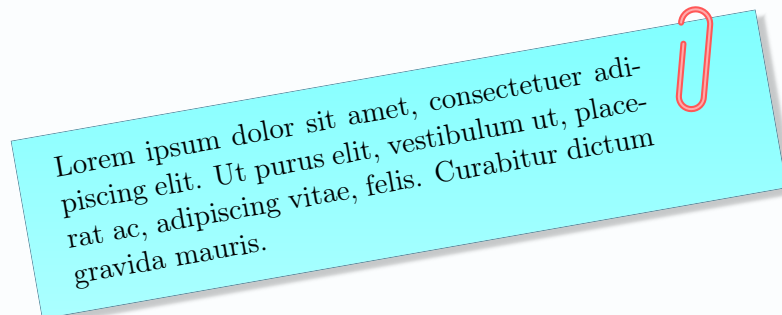
MySmallNote1-S

MySmallNote1-S-W

```latex
\begin{PostItNote}[StorePostIt=NoteY]<center>
    This is a small Post-It ! For example \[(a+b)^2=a^2+2ab+b^2.\]
\end{PostItNote}\\
\begin{PostItNote}[Render=tikz,Width=8cm,Color=blue,Rotate=-5,StorePostIt=NoteZ]
    \lipsum[1][1-2]
\end{PostItNote}

\begin{tikzpicture}[remember picture,overlay]
    \draw[very thick,->,>=latex] (NoteY-S)to[out=-90,in=90](NoteZ-N) ;
\end{tikzpicture}
```

This is a small Post-It ! For example

$$(a + b)^2 = a^2 + 2ab + b^2.$$

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.
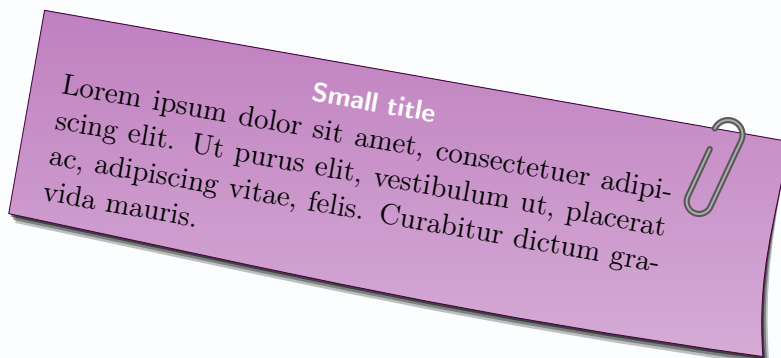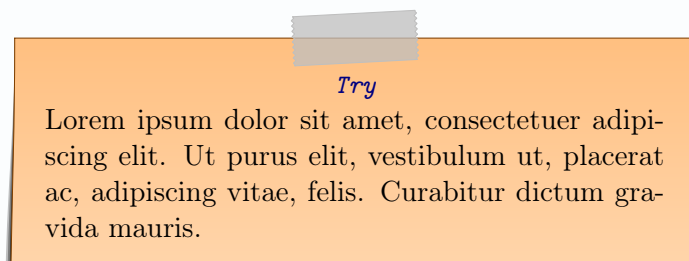
3.4 Examples

```
\begin{PostItNote}%tcbox rendering
    [Color=cyan,Pin=Paperclip,Width=10cm,Rotate=10]<center,right=1.5cm>
\lipsum[1][1-3]
\end{PostItNote}
```

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```
\hfill\begin{PostItNote}%tikz rendering
    [Render=tikz,Color=violet,Width=9cm,Rotate=-10,Pin=Paperclip,
    PinColor=black,ExtraRightMargin=1cm,Title={Small title},
    FontTitle={\color{white}\bfseries\small\sffamily}]
\lipsum[1][1-3]
\end{PostItNote}\hfill~
```

Small title

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```
\hfill\begin{PostItNote}%tikzv2 rendering
    [Render=tikzv2,Color=orange,Width=9cm,rotate=-10,Pin=Scotch, Title={Try},
    FontTitle={\color{blue!50!black}\bfseries\itshape\small\ttfamily}]
\lipsum[1][1-3]
\end{PostItNote}\hfill~
```
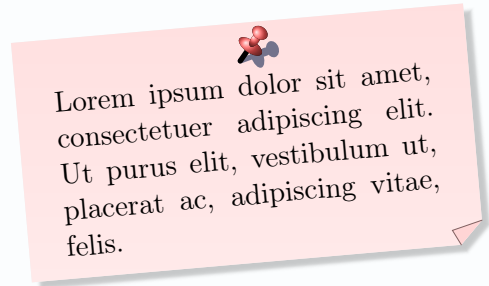
Try

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```
%usepackage{wrapstuff}
\begin{wrapstuff}[r,top=1]
\begin{PostItNote}[Rotate=5,Corner,Color=pink,PinkColor=blue,Border=false]
\lipsum[1][1-2]
\end{PostItNote}
\end{wrapstuff}

\lipsum[1]
```
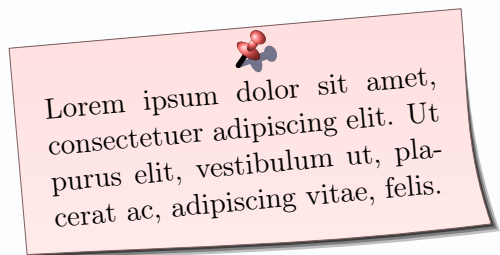
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```
%usepackage{wrapstuff}
\begin{wrapstuff}[r,top=1]
\begin{PostItNote}[Rotate=5,Render=tikz,Color=pink, PinkColor=blue,Border=false]
\lipsum[1][1-2]
\end{PostItNote}
\end{wrapstuff}

\lipsum[1]
```

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```
%usepackage{wrapstuff}
\begin{wrapstuff}[r,top=1]
\begin{PostItNote}[Rotate=5,Render=tikzv2,Pin=Scotch,Color=pink]
\lipsum[1][1-2]
\end{PostItNote}
\end{wrapstuff}

\lipsum[1]
```

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placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.
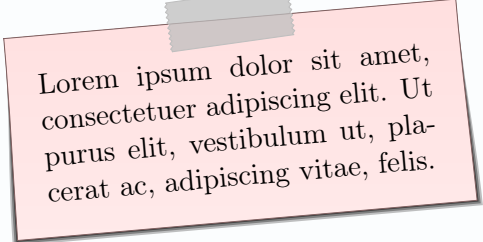
```
A small Post-It, and vertically aligned :
%
\hfill\begin{PostItNote}[Rotate=-10,Color=orange,Width=5cm,Height=5cm,
    AlignV=center,Corner,PinColor=yellow, PinShift=-1,AlignPostIt=center]

\textsf{\small\lipsum[1][1-2]}
\[\mathsf{\displaystyle\sum_{k=1}^{n} k = \dfrac{n(n+1)}{2}}\]
\end{PostItNote}
```

A small Post-It, and vertically aligned :

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.

$$\sum_{k=1}^{n} k = \frac{n(n+1)}{2}$$
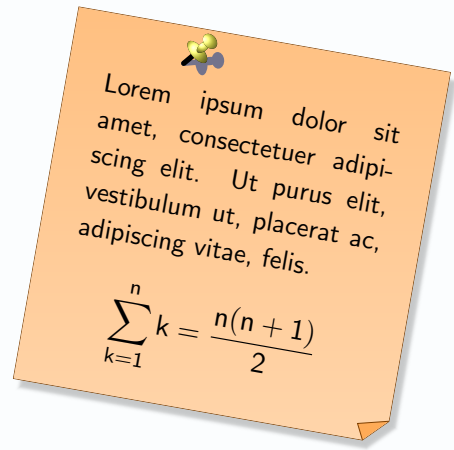
4 Simple inline Post-It Note

4.1 Command

The inline *mini*-Post-It note is `MiniPostIt`.
The only optional paramater for the `tcbox` Post-It is the color

Dimensions can't be changed, a `\vphantom` is insered at beginning to prevent different heights.

```
\MiniPostIt(*)[color]{text}
```

4.2 Arguments

The starred version show the shadow og the *mini*-Post-It.
The color (⟨yellow⟩), is the only optional argument, between `[...]`.

4.3 Examples

```
To solve Diophantine equations, we can use \MiniPostIt*[orange]{Bezout's thorem},
    and \MiniPostIt{Gauss' theorem}, with the \MiniPostIt*[cyan]{reciprocal}.

It's classic and good to know !
```

To solve Diophantine equations, we can use Bezout's thorem, and Gauss' theorem, with the reciprocal.
It's classic and good to know !

5 Gallery of styles

5.1 Render by tcbox

Shadow/PushPin/Border	Pin/Border
Shadow/Pushpin	Pushpin
Shadow/Paperclip/Border	Shadow/Scotch/Border
Shadow/Border	Shadow/Border/Corner

Lipsum[1][1-4]

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5.2 Render by tikz

Shadow/Pushpin/Border

Pushpin/Border

Shadow/Pushpin

Pushpin

Shadow/Paperclip/Border

Shadow/Scotch/Border

Shadow/Border

Lipsum[1][1-4]

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5.3 Render by tikzv2

Shadow/Pushpin/Border

Pushpin/Border

Shadow/Pushpin

Pushpin

Shadow/Paperclip/Border

Shadow/Scotch/Border

Shadow/Border

Lipsum[1][1-4]

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna.