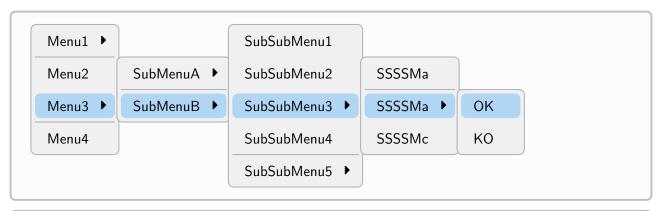
# sim-os-menus

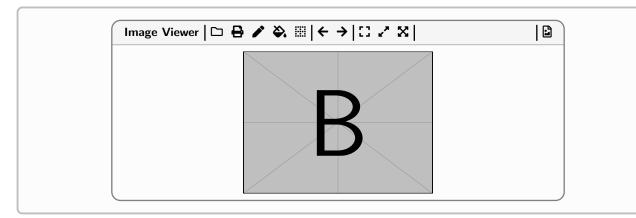
Simulate 'windows', 'terminal' or 'context menu' like in an OS.

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## Contents

	roduction
1.1	Description
1.2	Loading
1.3	History
	e macros
	Context menu
2.2	Terminal
2.3	Viewers
	Folders/files as in explrer

## 1 Introduction

# 1.1 Description

With this package you can create context menu, or terminal, or doc viewer, like in an OS. Global styles are mostly fixed, but some customizations are possible.

#### 1.2 Loading

To load the package, simply use:

\usepackage{sim-os-menus}

The package loads the packages:

- tikz (with calc, positioning), pgf, pgffor;
- calc, fontawesome5;
- simplekv, xintexpr, listofitems, xstring;
- settobox, tabularray;
- tcolorbox (with breakable, fitting, skins, listings, listingsutf8, hooks).

## 1.3 History

0.1.3: Fofders/Files like in explorer0.1.2: Script editor viewer 'like'0.1.1: French version of the commands

0.1.0: Initial version

[sim-os-menus] - 2 -

#### 2 The macros

#### 2.1 Context menu

I order to create a context menu, the command is:

```
%----contextual menu
\ContextMenu[keys]{list of items}<tikz options>
```

Optional keys, between [...] are:

- ColBack: background color;
- ColHL: = highlight color;
- Rounded: boolean for rounded corners (true by default);
- Font: font for the items (\normalsize\normalfont by default);
- Colltems: color(s) for the items (black by default);
- MarginV: vertical margin of the lines (6pt by default);
- MarginH: horizontal margin of the lines (12pt by default);
- Arrow: character for the arrow (\faCaretRight by default);
- ListSeps: list for the possible sep lines (empty or for all the levels!);
- ListIcons: list for the possible icons (empty or for all the levels/items!);
- ListOffsets: list for the possible vertical offset of levels (from 2, ...!) (empty or for all the sub-levels!);
- Icons: boolean for icons (false by default);
- Bar: boolean for small vertical bar with icons (true by default);
- Space: horizontal space between levels (-0.125 by default).

The mandatory argument, between  $\{\ldots\}$ , is given as:

```
item1A,item1B,... § item2A,itemp2B,... § ...
```

- if an item ends with (\*), this is the beginning of the next level (only one by level!);
- if an item ends with (>) (before optional (\*)), an arrow is written at the end of the line.

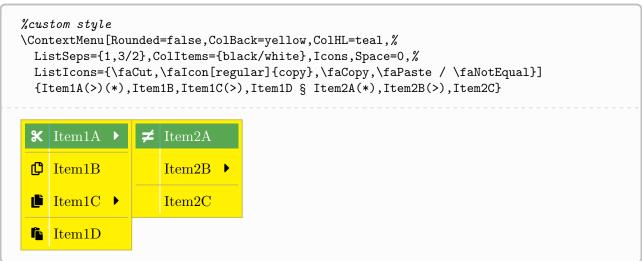
A correct usage of the syntax is necessary for the code!

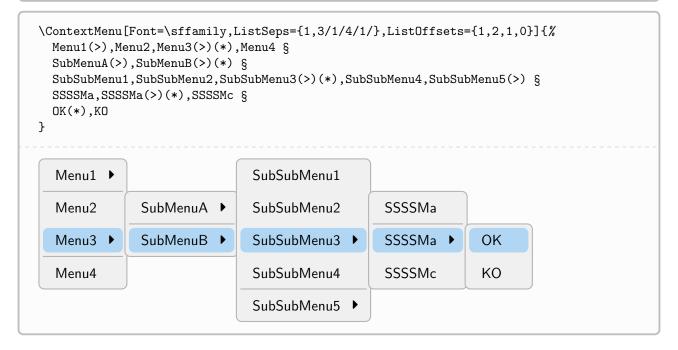
A few tips, due to ListIcons, ListOffsets and ListSeps keys, which are sensitive:

- ListIcons must have the same number of elements than the number of levels/items (with possible empty items);
- ListSeps must have the same number of elements than the number of levels (with possible empty items);
- ListOffsets must have the same number of elements than the numbers of sub-levels (with 0 si no offset!).

[sim-os-menus] - 3 -







[sim-os-menus] - 4 -

#### 2.2 Terminal

In order to create a terminal (Win/UNiX/Mac), environments are:

Optional keys, between [...] are:

- Title: title of the terminal (Terminal Win/UNiX/Mac by default);
- Align: horizontal alignment of the box (center by default);
- Width: width of the box (\linewidth by default).

The mandatory argument, between  $\{\ldots\}$ , are options to give to the tcbox.

```
\begin{TermWin}{}
Microsoft Windows [version 10.0.22000.493]
(c) Microsoft Corporation. Tous droits réservés.
C:\Users\test>ping ctan.org
Envoi d'une requête 'ping' sur ctan.org [5.35.249.60] avec 32 octets de données:
Réponse de 5.35.249.60: octets=32 temps=35 ms TTL=51
Réponse de 5.35.249.60: octets=32 temps=37 ms TTL=51
Réponse de 5.35.249.60: octets=32 temps=35 ms TTL=51
Réponse de 5.35.249.60: octets=32 temps=39 ms TTL=51
Statistiques Ping pour 5.35.249.60:
Paquets: envoyés = 4, reçus = 4, perdus = 0 (perte 0%),
Durée approximative des boucles en millisecondes:
Minimum = 35ms, Maximum = 39ms, Moyenne = 36ms
\end{TermWin}
                                                                                   - □ ×
 >_ Terminal Win
 Microsoft Windows [version 10.0.22000.493]
 (c) Microsoft Corporation. Tous droits réservés.
 C:\Users\test>ping ctan.org
 Envoi d'une requête 'ping' sur ctan.org [5.35.249.60] avec 32 octets de données:
 Réponse de 5.35.249.60: octets=32 temps=35 ms TTL=51
 Réponse de 5.35.249.60: octets=32 temps=37 ms TTL=51
 Réponse de 5.35.249.60: octets=32 temps=35 ms TTL=51
 Réponse de 5.35.249.60: octets=32 temps=39 ms TTL=51
 Statistiques Ping pour 5.35.249.60:
 Paquets: envoyés = 4, reçus = 4, perdus = 0 (perte 0%),
 Durée approximative des boucles en millisecondes:
 Minimum = 35ms, Maximum = 39ms, Moyenne = 36ms
```

[sim-os-menus] - 5 -

\begin{TermUnix}[Align=flush right]{hbox}
test@DESKTOP:~\$ ping -c 2 ctan.org
PING ctan.org (5.35.249.60) 56(84) bytes of data.
\end{TermUnix}

Terminal UNIX

test@DESKTOP:~\$ ping -c 2 ctan.org
PING ctan.org (5.35.249.60) 56(84) bytes of data.

\begin{TermMac} [Width=14cm,Align=flush left]{}

\begin{TermMac} [Width=14cm,Align=flush left] {}
[test@server] \$ ping -c 2 ctan.org
PING ctan.org (5.35.249.60) 56(84) bytes of data.
\end{TermMac}

Terminal Mac

[test@server] \$ ping -c 2 ctan.org
PING ctan.org (5.35.249.60) 56(84) bytes of data.

[sim-os-menus] - 6 -

#### 2.3 Viewers

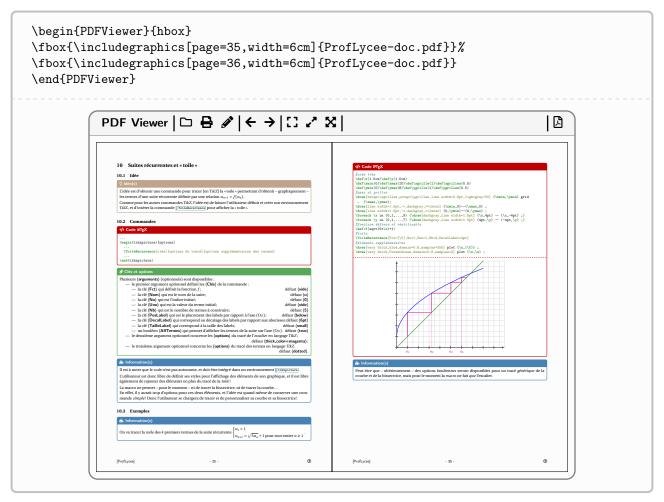
In order to create a 'fake' viewer (for pdf or img), environments are:

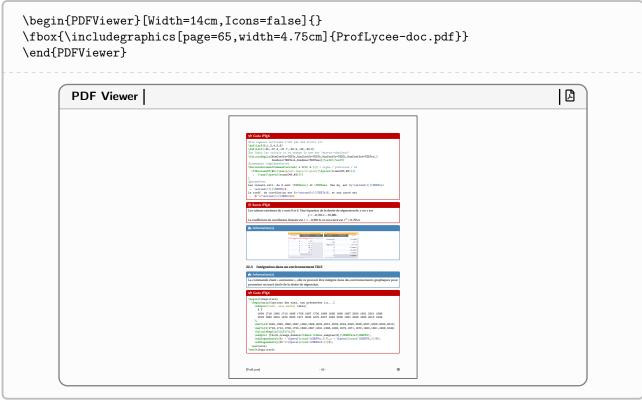
Optional keys, between [...] are:

- Title: title of the viewer;
- Align: horizontal alignment of the box (center by default);
- Width: width of the box (\linewidth by default);
- Halign: horizontal alignment fot the content (left by default);
- Icons: boolean for the icons (true by default).

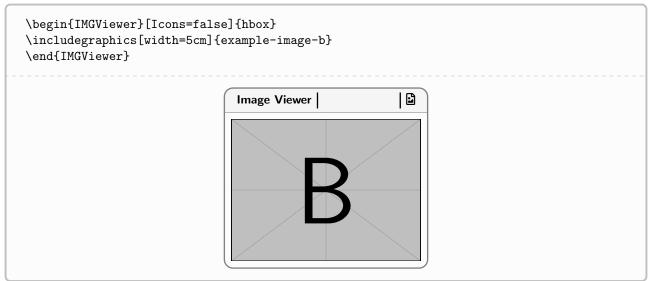
The mandatory argument, between  $\{\ldots\}$ , are options to give to the tcbox.

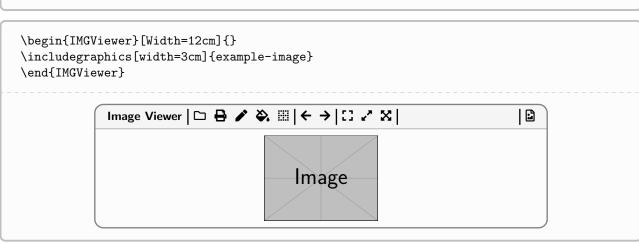
[sim-os-menus] - 7 -





[sim-os-menus] - 8 -





[sim-os-menus] - 9 -

```
%with listings, or piton, for example
\begin{PYViewer} [width=12cm] {}
\begin{lstlisting}%
    language=python,basicstyle=\ttfamily\small,
        keywordstyle=\color{green!50!black},tabsize=4,
        keywordstyle={[2]\color{magenta}},
        numbers=left,numbersep=3mm,xleftmargin=5mm,
        aboveskip=0pt,belowskip=0pt,
        numberstyle=\footnotesize\ttfamily\color{gray}
nterms = int(input("Entrez un nombre: "))
n1 = 0
n2 = 1
print("\n la suite Fibonacci est: ")
print(n1, ",", n2, end=", ")
for i in range(2, nterms):
    suivant = n1 + n2
    print(suivant, end=", ")
n1 = n2
n2 = suivant
\end{lstlisting}
\end{PYViewer}
```

[sim-os-menus] - 10 -

#### 2.4 Folders/files as in explrer

The forest package, with his library edges, can present foldertrees.

Available keys, betweeen [...], are:

- font: font of texts;
- coliconfolder: gray by default;
- coliconfile: gray by default;
- iconfolders: boolean for folder icons;
- iconfiles: boolean for file icons;
- vsep: vertical space between items (0.15em by default);
- iconfolder: icon for folder;
- iconfile: icone for file.

Folders need to be given within <folder\_name>,FTdir. Files need to be given within <file\_name>,FTfile.

Mandatory argument, between  $\{\ldots\}$ , corresponds to forest specific commands.

[sim-os-menus] - 11 -

Styles are global, but can be locally defined.

```
\tikzset{FTedge/.style={thick,->,densely dashed,red,>=latex}}
\begin{ForestDirTree}%
    [font=\sffamily,coliconfolder=yellow!50!pink,iconfiles,coliconfile=teal,vsep=0.5em]%
    \{1 \text{ sep=2em}\}
    [folder,FTdir
        [subfolder1,FTdir]
        [subfolder2,FTdir
             [file1,FTfile]
             [file2,FTfile]
        [file3,FTfile]
\end{ForestDirTree}
folder
 -->  subfolder1
   → > subfolder2
      -→🖹 file1
     --→ 🖹 file2
---- file3
```

[sim-os-menus] - 12 -