

sim-os-menus

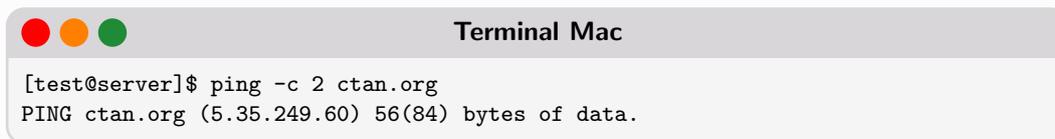
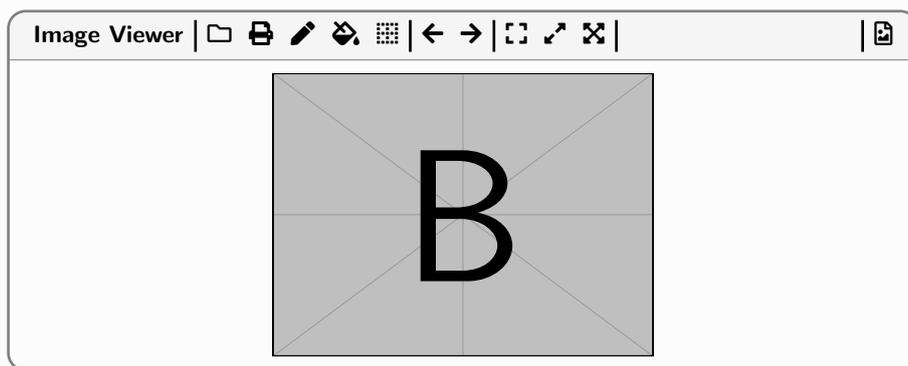
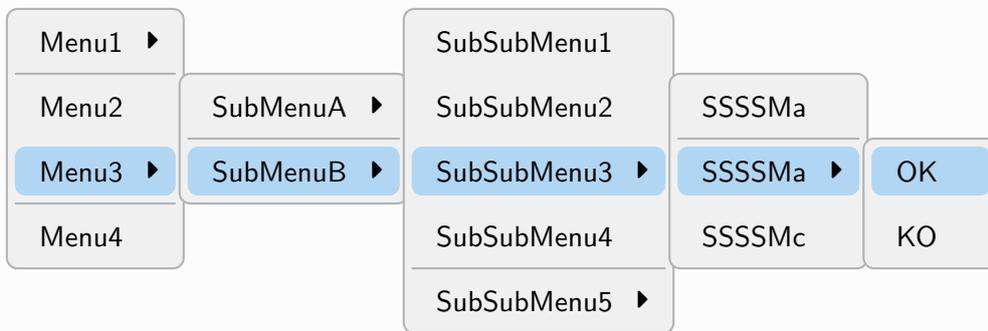
Simulate 'windows', 'terminal' or
'context menu' like in an OS.

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<https://github.com/cpierquet/sim-os-menus>



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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

- 0.1.2 : Script editor viewer 'like'
- 0.1.1 : French version of the commands
- 0.1.0 : Initial version

2 The macros

2.1 Context menu

In 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) ;
- `ColItems` := 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) ;
- `ListSepts` := 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 {...}, is given as :

```
item1A,item1B,... § item2A,item2B,... § ...
```

- 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.

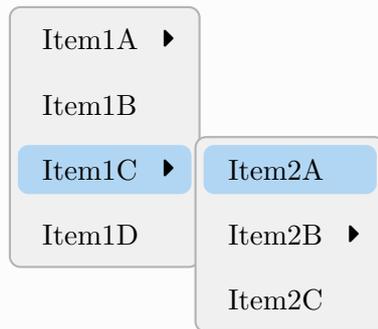
A correct usage of the syntax is necessary for the code !

A few tips, due to `ListIcons`, `ListOffsets` and `ListSepts` keys, which are *sensitive* :

- `ListIcons` must have the same number of elements than the number of levels/items (with possible empty items) ;
- `ListSepts` 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 !).

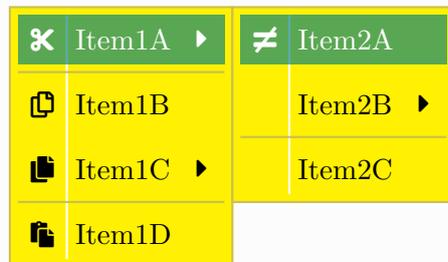
%default style

```
\ContextMenu{Item1A(>),Item1B,Item1C(>)(*),Item1D § Item2A(*),Item2B(>),Item2C}
```

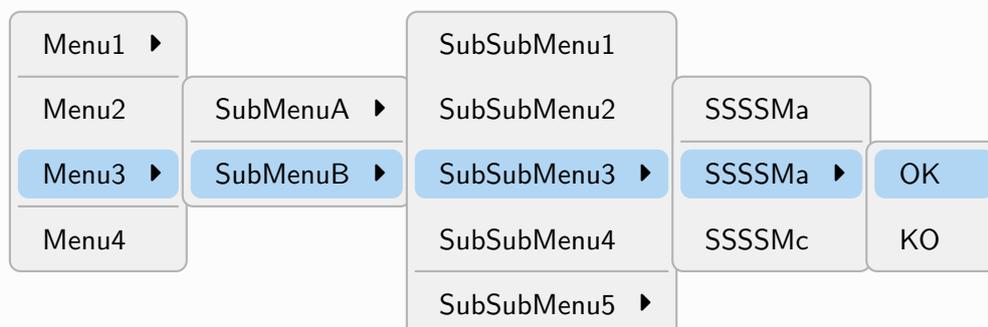


%custom style

```
\ContextMenu[Rounded=false,ColBack=yellow,ColHL=teal,%  
ListSeps={1,3/2},ColItems={black/white},Icons,Space=0,%  
ListIcons={\faCut,\faIcon[regular]{copy},\faCopy,\faPaste / \faNotEqual}]  
{Item1A(>)(*),Item1B,Item1C(>),Item1D § Item2A(*),Item2B(>),Item2C}
```



```
\ContextMenu[Font=\sfamily,ListSeps={1,3/1/4/1/},ListOffsets={1,2,1,0}]{%  
Menu1(>),Menu2,Menu3(>)(*),Menu4 §  
SubMenuA(>),SubMenuB(>)(*) §  
SubSubMenu1,SubSubMenu2,SubSubMenu3(>)(*),SubSubMenu4,SubSubMenu5(>) §  
SSSSMa,SSSSMa(>)(*),SSSSMc §  
OK(*),KO  
}
```



2.2 Terminal

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

```
%----Windows like terminal
\begin{TermWin}[keys]{tcbox options}
...
\end{TermWin}

%----UNiX like terminal
\begin{TermUnix}[keys]{tcbox options}
...
\end{TermUnix}

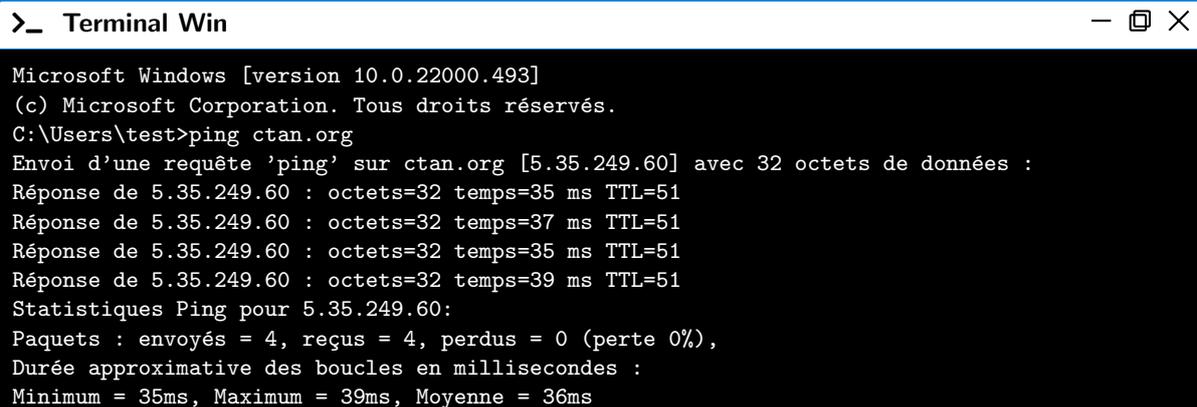
%----OSX like terminal
\begin{TermMac}[keys]{tcbox options}
...
\end{TermMac}
```

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).

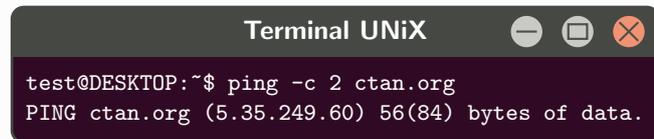
The mandatory argument, between {...}, are options to give to the tcbox.

```
\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}
```

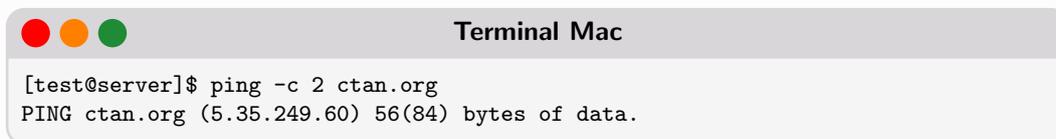


The screenshot shows a standard Windows Terminal window with a title bar containing a maximize button, a close button, and the title 'Terminal Win'. The terminal content is identical to the code block above, displaying the output of a 'ping ctan.org' command in a monospaced font on a black background.

```
\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}
```



```
\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}
```



2.3 Viewers

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

```
%----PDF Viewer like
\begin{PDFViewer}[keys]{tcbbox options}
    ....
\end{PDFViewer}

%----Image Viewer like
\begin{IMGViewer}[keys]{tcbbox options}
    ....
\end{IMGViewer}

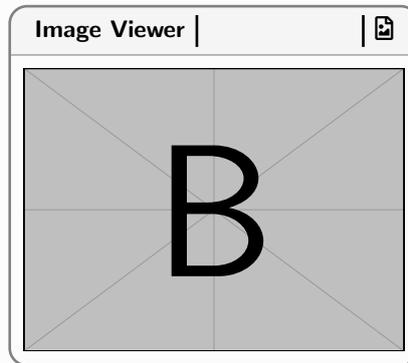
%----Script editor like
\begin{PYViewer}[keys]{tcbbox options}
    ....
\end{PYViewer}
```

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 for the content (**left** by default) ;
- **Icons** := boolean for the icons (**true** by default).

The mandatory argument, between {...}, are options to give to the tcbbox.

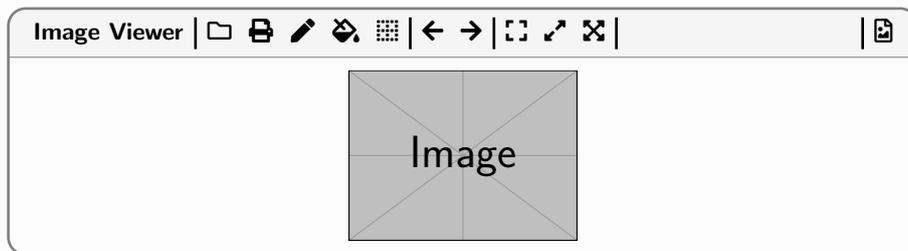

```
\begin{IMGViewer}[Icons=false]{hbox}
\includegraphics[width=5cm]{example-image-b}
\end{IMGViewer}
```



```
\begin{IMGViewer}[Width=12cm]{}
```

```
\includegraphics[width=3cm]{example-image}
```

```
\end{IMGViewer}
```



```

%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}

```

```

Python editor | [Icons] | [Run]
1 nterms = int(input("Entrez un nombre: "))
2
3 n1 = 0
4 n2 = 1
5
6 print("\n la suite Fibonacci est : ")
7 print(n1, ",", n2, end=", ")
8
9 for i in range(2, nterms):
10     suivant = n1 + n2
11     print(suivant, end=", ")
12
13 n1 = n2
14 n2 = suivant

```