The myTCB-V1 Package

Tables

August 31, 2023 Version 1.00

Written by:

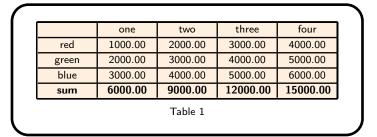
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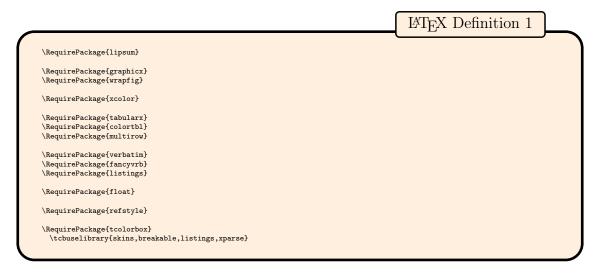
INTRODUCTION

IFTEX is mainly used in scientific fields such as electrical engineering, mechanical engineering and computer science. Especially in these fields it is sometimes necessary to create tables.



The myTCB-V1 package provides an environment for this.

The myTCB-V1 package loads automatically the packages shown in LATEX Definition 1.

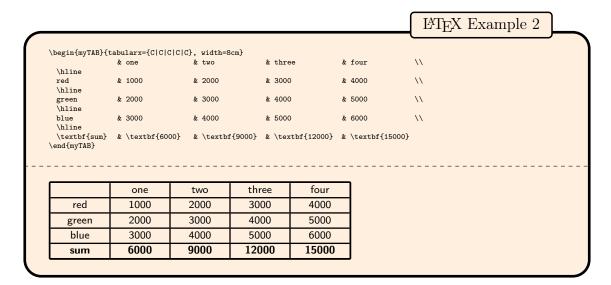


To load the package, write \usepackage{myTCB-V1} in the preamble of your document. To use this package, it is highly recommended to have the complete LATEX distribution installed. This will avoid problems with dependencies.

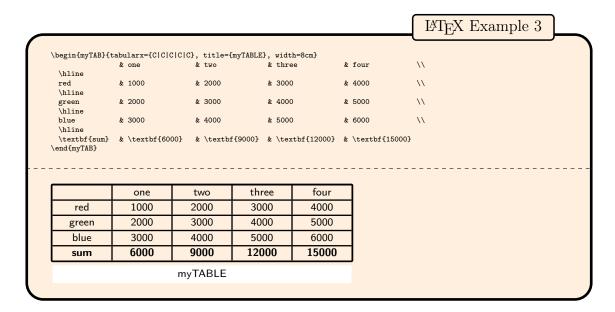
\usepackage{myTCB-V1}

THE TABLE ENVIRONMENT WITHOUT A LIST INDEX

The myTCB-V1 package has a predefined environment, which is called myTAB. In this environment there is no list index available and only tables are created



A title can be submitted as an optional argument, which appears on the bottom of the table.



You can even put a table into a box.

					IATEX Example 4
myFIG	3}{}				
myT	AB}{tabularx={C	$C C C C$, title={n	nyTABLE}, width=8cm	ı}·	
	& one	& two	& three	& four	\\
\hline					
red	& 1000	& 2000	& 3000	& 4000	\\
\hline					
green	& 2000	& 3000	& 4000	& 5000	\\
\hline					
blue	& 3000	& 4000	& 5000	& 6000	\\
\hline					

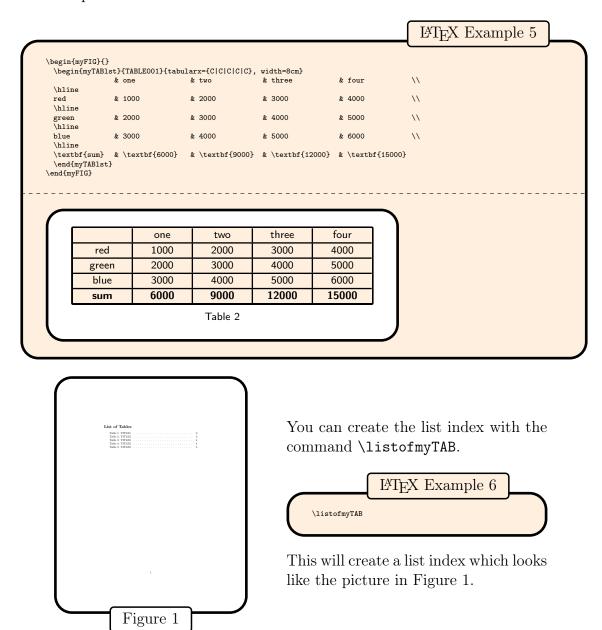
\textbf{sum} & \textbf{6000} & \textbf{9000} & \textbf{12000} & \textbf{15000} \end{myTAB} \end{myFIG}

	one	two	three	four
red	1000	2000	3000	4000
green	2000	3000	4000	5000
blue	3000	4000	5000	6000
sum	6000	9000	12000	15000

myTABLE

THE TABLE ENVIRONMENT WITH A LIST INDEX

The myTCB-V1 package has a predefined environment, which is called myTAB1st. In this environment there is a list index available and only tables are created. A title (TITLE1) must be passed as a mandatory argument. This title does not appear on the box, instead it is found in the list index. The box itself is titled with Table and a sequential number.



If you want to change the horizontal spacing of the list entries, you can do this quite simple with the following code in the preamble, which is illustrated in LATEX Example 7.

```
\makeatletter
\renewcommand{\l@myTAB}{\@dottedtocline{1}{Omm}}
\makeatother
```

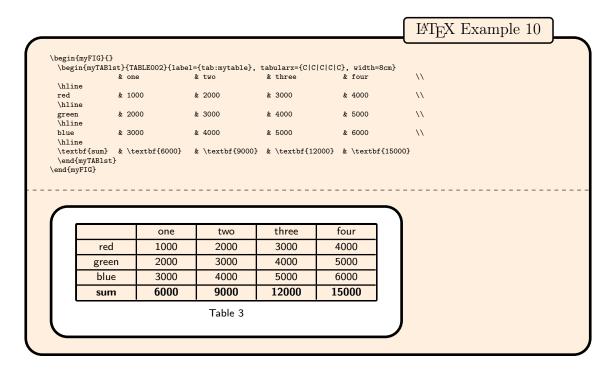
If you want to change the vertical spacing of the list entries, you can do this quite simple with the following code in the preamble, which is illustrated in LATEX Example 8.

```
\makeatletter \addtocontents{myTAB}{\protect\vspace{12mm}} \makeatother
```

If you want to get rid of the page numbers in the list index, you can do this quite simple with the following code in the preamble, which is illustrated in LATEX Example 9.

```
% copy cmd \listofmyTAB into cmd \oldlistofmyTAB \let\oldlistofmyTAB \renew cmd \listofmyTAB \renew command\listofmyTAB \renew command\listofmyTAB \renew command\listofmyTAB \renew \renew cmd \listofmyTAB \renew \renew \renew cmand\listofmyTAB \renew \renew \renew \cappagestyle{empty} % \ldots % call \oldlistofmyTAB \cappagestyle{empty} % \ldots % call \oldlistofmyTAB \cappagestyle{plain} % \ldots % create a new page \pagestyle{plain} % \ldots % enable headers/footers; use fancy if you use fancyhdr \}
```

A label can be specified as an optional argument. The table can then be referenced in the text with **\tabref{}**.



ĿŒX Example 11

This example is shown in \tabref{mytable

This example is shown in Table 3

It is notable that the label has to contain the tab: prefix in order to reference the label appropriately.

TABLES

The option tabularx={[...]} determines the number of columns and their alignment. One letter stands for one column and a pipe (|) creates a vertical separator between the columns (if this is desired). Table 4 shows the definition of the different letters.

I	left-aligned column; Column width is content dependent
С	centered-aligned column; Column width is content dependent
r	right-aligned column; Column width is content dependent
Х	left-aligned column; Column width is dynamically determined by the number of columns and the total width of the table
С	centered-aligned column; Column width is dynamically determined by the number of columns and the total width of the table

Table 4

Within the table itself, the control sequences are illustriated in Table 5 (source https://www.flutterbys.com.au/stats/tut/tut17.1.html)

&	Column separator
//	End of line marker. Indicates that a line break should be inserted
\hline	A horizontal line spanning the full width of the table

Table 5

The option width=[...] defines the width of the whole table. The default value for this is \linewidth.

REFERENCES

- [Car03] http://users.ece.utexas.edu/~garg/dist/listings.pdf.
- [D P21] https://mirror.easyname.at/ctan/macros/latex/required/graphics/grfguide.pdf.
- [Dan22] https://ctan.math.illinois.edu/macros/latex/contrib/refstyle/refstyle.pdf.
- [Den23] https://texdoc.org/serve/fancyvrb/0.
- [Don03] https://mirror.easyname.at/ctan/macros/latex/contrib/wrapfig/wrapfig-doc.pdf.
- [Ove23] https://www.overleaf.com/learn.
- [Rai22] https://mirror.kumi.systems/ctan/macros/latex/required/tools/verbatim.pdf.
- [She95] http://webhome.phy.duke.edu/~rgb/General/latex/ltx-79.html.
- [Tho23] https://texdoc.org/serve/tcolorbox.pdf/0.
- [Uwe22] https://mirror.kumi.systems/ctan/macros/latex/contrib/xcolor/xcolor.pdf.