The package **EASYTABLE**

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Abstract

The **EASYTABLE** package is a macro package for writing tables, with equal column widths or equal rows heights or both, with various kinds of rules (lines) between rows and columns. It uses an array/tabular-like syntax.

1 How to use it

The package is loaded by means of the usual way:

\begin{verbatim}
\documentclass{article}
\usepackage[thinlines,thicklines]{easytab}
\end{verbatim}

The options thinlines, and thicklines are self explanatory.

The package **EASYTAB** provides the **TAB** environment which is a simple (re-)implementation of the array—tabular environment, with some limitations and some additional features. The syntax can be either

\begin{verbatim}
\begin{tabular}{(eq)\[ex\]{cc...c}{cc...c}}
a & b & ... & n \\
\end{tabular}
\end{verbatim}

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or

\begin{TAB}’\{eq, mx, my\}’ \{ex, MX, MY\}’ \{\text{cc...c}\}’ \{\text{cc...c}\}’
  a \ & b \ & \ldots \ & n \\
  \ldots
\end{TAB}

- *(eq)* or *(eq, mx, my)*. By *eq* you can balance the rows or the column or both, as shown in this table:

<table>
<thead>
<tr>
<th>value of <em>eq</em></th>
<th>effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>@</td>
<td>no balancing</td>
</tr>
<tr>
<td>r</td>
<td>equal rows heights</td>
</tr>
<tr>
<td>c</td>
<td>equal column widths</td>
</tr>
<tr>
<td>b</td>
<td>equal rows heights and equal column widths</td>
</tr>
<tr>
<td>e</td>
<td>equal rows heights and column widths</td>
</tr>
</tbody>
</table>

By *mx* and *my* you can modify the minimum size of the box in the **TAB** environment. This must be a valid measure e.g. *2pt*. This is useful in writing matrices an vectors.

- *[ex]* or *[ex, MX, MY]*. By *ex* you can specify the amount of extra space around the item in the **TAB** environment. The default is *2pt*. By *MX* and *MY* you can modify the minimum size of the whole table in the **TAB** environment. This must be a valid measure e.g. *10cm*.

- The first \{cc...c\} is the definition of the columns and their alignment. The possible alignment for the columns are:

<table>
<thead>
<tr>
<th>\text{c}</th>
<th>\text{l}</th>
<th>\text{r}</th>
</tr>
</thead>
<tbody>
<tr>
<td>centering</td>
<td>flush left</td>
<td>flush right</td>
</tr>
</tbody>
</table>

- The second \{cc...c\} is the definition of the rows their alignment. The possible alignment for the rows are:

<table>
<thead>
<tr>
<th>\text{c}</th>
<th>\text{t}</th>
<th>\text{b}</th>
</tr>
</thead>
<tbody>
<tr>
<td>centering</td>
<td>flush top</td>
<td>flush bottom</td>
</tr>
</tbody>
</table>
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**IMPORTANT:** The package can manage matrices with a maximum of 30 rows by 30 columns.

**IMPORTANT:** The functionality of the environment “TAB” is the same of the environment **BMAT** the only difference is that its entries are in “text” mode not in “mathematic” mode. Please read the documentation of the package **EASYBMAT** to understand how to use “TAB”.