

Using tabularray In L^AT_EX

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1 Preparation

To use tabularray In L^AT_EX, load the module `Tabularray` in the document settings of your file.

2 usage

To insert a tabularray to go to `Insert` \triangleright `Custom Insets` \triangleright `Tblr`, then, insert a table inside the Tblr layout. To specify any inner specs, write them in the “inner” argument of the layout. To specify any outer specs, press `Alt+A 1` and write the outer specs in the “outer” argument of the layout.

2.1 example

Item 1
Item 2
Item 3

Table 1: Nice Table

2.2 More Complicated Example¹

Alpha	Beta	Gamma	Delta
Epsilon	Zeta		Theta
Iota			Mu
Nnu			Pi
Rho			Upsilon
Phi	Chi	Psi	Omega

Table 2: Nicier Table

2.3 A Tabular With Preview

If you would like to see the table, as it would look in the ouptput pdf, wrap it with the preview layout via **Insert** ▸ **Preview**

Alpha	Beta	Gamma	Delta
Epsilon	Zeta		Theta
Iota			Mu
Nnu			Pi
Rho			Upsilon
Phi	Chi	Psi	Omega

Table 3: Nicier Table With Preview

2.4 Predefined Styles

If you would like to change the default appearence of all unnamed tabular-array, insert the **Set Tbir Inner** and **Set Tbir Outer** layouts via LyX’s style selection combobox and specify the inner spec and outer spec accordingly. For example, after the next line all unnamed tabular-array’s odd rows will have pink background as can be seen in Section 3.

If you want to use several tabulararrays with the same design (or somewhat similar), but dont want to change all tabular-arrays, you could declare a new tabular-array via `\NewTblrEnviron{<name>}` in ERT layout or in the preamble, then insert the **Set Tbir Inner** and **Set Tbir Outer** layout via LyX’s style selection combobox, press **Alt+A 1** and write the name of the tabulararray you would like to change. For example any tabular-array with the name “example” after the next line will have hlines as default.

¹The design was stolen from the tabularray documentation.

To insert a named tabular-array, begin as usual, inside the layout press **Alt+A 3** and specify the name.

Item 1
Item 2
Item 3

Table 4: example tabular-array default

2.5 Using Tblr Outside Of Tblr Layout

To make all tables in the lyx file be produced by tblr, insert an ERT layout in the point you want to make the conversion (or in the preamble) with the following code

```
\renewenvironment{tabular}[1]{%
\def\tabularnewline{\\\}%
\begin{tblr}[expand=\tabularnewline]{colspec={#1}}%
}{\end{tblr}}
```

Note that some latex environments are using the tabular environment internally, use this hack with care. In the following example the table will have the parameters defined in Subsection 2.4 via **Set Tblr Inner** (the unnamed one)

Item 1
Item 2
Item 3

Table 5: Tblr outside of the Tblr layout

3 Important Remarks

- In the current tabularray package the commands `\multirow` and `\mulcolumn` (which lyx uses internally) are obsolete, thus the module is loading tabularray-

2021.sty, not tabularray.sty.

- Any hlines or vlines specification in the inner argument will add the lines on top of the lines appear in the L^AT_EX GUI and will not replace them, for example the following table will generate with two horizontal lines at the top of the table

Item 1
Item 2
Item 3

Table 6: Remark

- Any cell alignment specification in the inner argument will override the alignment specification that was made in the GUI
- Tables outside the Tblr layout will not be produced via tabularray, thus you can still use “regular” tables. “Regular” tables won’t be affected by any global settings of tabularray.
- The module already use the key “expand” provided by the tabularray package. Since this key has only one value it won’t be possible to use this key with the module.