

The icomma package for LaTeX 2_ε

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With ordinary LaTeX, the comma cannot be used as a decimal separator in math mode, because it is treated as a punctuation character and LaTeX adds some extra space after it. This can be overcome by defining an ‘intelligent’ comma, which ‘recognizes’, whether it is used as a decimal separator or as a punctuation character.

An appropriate definition was given in [1] and [2]. However, it relied on the particular encoding of the CM fonts, so it would not always work with alternative math fonts such as Euler. The package `icomma` provides an enhanced variant of this ‘intelligent’ comma. It can be used with the default CM math fonts as well as with alternative math font sets.

After loading of the package, the comma will be typeset as a punctuation character, if the next *input* character is a space; otherwise the comma is treated as a decimal separator. Thus, a decimal number is to be entered as, for instance,

1,234

whereas the mathematical expression (x, y) is to be written with a space after the comma:

$(x, \, y)$

Bugs and problems

In case the ‘intelligent comma’ is used together with the `dcolumn` package, a comma to be *printed* as the decimal separator in a column of type D is to be specified as `\mathord\mathcomma`, rather than `{,}`, since the latter leads to an error. For instance:

```
\begin{tabular}{... D{,}\mathord\mathcomma}{2} ...}
```

Note that specifying the comma as the related *input* character works as usual.

Generally, since the `icomma` package makes the comma ‘active’, further problems are not unlikely.

Credits

Special thanks to Bernd Raichle for fixing the deficiencies of version 1.

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References

- [1] RICHARD HIRSCH. Dezimalkomma beim TeXsatz in deutsch. *Die TeXnische Komödie* 1/1994 (July 1994), 42–45.
- [2] PETER SCHMITT. Dezimalkomma beim TeXsatz in deutsch. *Die TeXnische Komödie* 4/1997 (Feb. 1998), 50.