

A gentle intro to ccool for L^AT_EX

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Abstract

Breaking down the example in the abstract of the package's doc[1]

Let's say we want to typeset:

“Let \mathbb{N} and \mathbb{R} denote the natural and real numbers.”

There are at least four ways to do it:

- i)* `Let~\mathbb{N} and \mathbb{R} denote the natural and
↪ real numbers.`
- ii)* `\NewDocumentCommand\Nat{}{\mathbb{N}}
\NewDocumentCommand\Real{}{\mathbb{R}}
Let~\Nat and \Real denote the natural and real
↪ numbers.`
- iii)* `\Ccool i{\mathbb{#1}}{ Nat = N, Real = R }
Let~\Nat and \Real~denote the natural and real
↪ numbers.`
- iv)* `\Ccool [Let~]
i{\mathbb{#1}}{ Nat = N, Real = R }*s{{~\rm{and}}~}
[~denote the natural and real numbers.]{}`

Way *i)* is prone to errors, should the author change `\mathbb{R}` to `\mathcal{R}` throughout the document. Way *ii)* corrects that, as the change need only be made in place. Also, it has the advantage that it makes the meaning of `\mathbb{R}` explicit (real numbers), in the source file. The advantage of way *iii)* over way *iv)*, is that it is less verbose, and, in this case, that it eliminates the redundancy of `\mathbb{b}`. By expanding the macro definitions (`\Real`) as they are made, way *iv)* allows to make them blend with the text, which some authors may find desirable.

NB: The features covered are not exhaustive.

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References

- [1] Erwann Rogard. *The ccool package*. 2020. URL: <https://github.com/rogard/ccool>.