

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 attaches a meaning (real numbers) to the macro created, by naming it accordingly (`\Real`), which should help getting one's hand (a collaborator, or the same author revisiting it when he has forgotten about it) with 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 macros (`\Real`) as they are made (as instructed by `*`), way *iv)* allows to make them blend with the text, which some authors may find desirable.

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NB: The features covered are not exhaustive.

This document was generated using 2020/04/15 v2.0 cool — A tool for encoding mathematical notation.

References

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