

A gentle intro to ccool for L^AT_EX

Erwann Rogard*

2020/04/17

Abstract

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

These are different ways to do it:

“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 { Nat = {\mathbb{N}}, Real = {\mathbb{R}} }
Let~\Nat and \Real~denote the natural and real
↪ numbers.`
- iv)* `\Ccool i{\mathbb{#1}}{ Nat = {N}, Real = {R} }
Let~\Nat and \Real~denote the natural and real
↪ numbers.`
- v)* `\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 one 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) on the source file. Way *iii)* is more compact than

*firstname dot lastname AusTria gmail dot com

way *ii*), and so is way *iv*) over way *iii*). By expanding the macros (`\Real`) as they are made (as instructed by `*`), way *v*) allows to make them blend with the text, which some authors may find desirable.

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>.