

The **l3cctab** package

Experimental category code tables

The L^AT_EX3 Project*

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1 **l3cctab** documentation

A category code table enables rapid switching of all category codes in one operation. For LuaTeX, this is possible over the entire Unicode range. For other engines, only the 8-bit range (0-255) is covered by such tables.

1.1 Creating and initialising category code tables

`\cctab_new:N` `\cctab_new:c`

Creates a new *(category code table)* variable or raises an error if the name is already taken. The declaration is global. The *(category code table)* is initialised with the codes as used by iniTeX.

`\cctab_const:Nn` `\cctab_const:cn`

Creates a new *(category code table)* with the category code settings in force at the time the function is called, and applies the *(category code set up)* on top of prevailing settings, then saves as a constant table.

`\cctab_gset:Nn` `\cctab_gset:cn`

Sets the *(category code table)* to apply the category codes which apply when the prevailing régime is modified by the *(category code set up)*. Thus within a standard code block the starting point will be the code applied by `\c_code_cctab`. The assignment of the table is global: the underlying primitive does not respect grouping.

1.2 Using category code tables

`\cctab_begin:N` `\cctab_begin:c`

Switches the category codes in force to those stored in the *(category code table)*. The prevailing codes before the function is called are added to a stack, for use with `\cctab_end:..`. This function does not start a T_EX group.

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\cctab_end:

Ends the scope of a *<category code table>* started using `\cctab_begin:N`, returning the codes to those in force before the matching `\cctab_begin:N` was used.

\cctab_select:N

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`\cctab_select:N <category code table>`

Selects the *<category code table>* for the scope of the current group.

1.3 Category code table conditionals

\cctab_if_exist_p:N *
\cctab_if_exist_p:c *
\cctab_if_exist:NTF *
\cctab_if_exist:cTF *

`\cctab_if_exist_p:N <category code table>`
`\cctab_if_exist:NTF <category code table> {<true code>} {<false code>}`

Tests whether the *<category code table>* is currently defined. This does not check that the *<category code table>* really is a category code table.

1.4 Constant category code tables

\c_code_cctab

Category code table for the code environment. This does not include setting the behaviour of the line-end character, which is only altered by `\ExplSyntaxOn`.

\c_document_cctab

Category code table for a standard L^AT_EX document. This does not include setting the behaviour of the line-end character, which is only altered by `\ExplSyntaxOff`.

\c_initex_cctab

Category code table as set up by iniT_EX.

\c_other_cctab

Category code table where all characters have category code 12 (other).

\c_str_cctab

Category code table where all characters have category code 12 (other) with the exception of spaces, which have category code 10 (space).

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