The l3cctab package
Experimental category code tables

The LaTeX3 Project*

Released 2020-01-12

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

\cctab_new:N ⟨*category code table*⟩

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

\cctab_const:Nn ⟨*category code table*⟩ {⟨*category code set up*⟩}

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

\cctab_gset:Nn ⟨*category code table*⟩ {⟨*category code set up*⟩}

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

\cctab_begin:N ⟨*category code table*⟩

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 TeX group.

---

*E-mail: latex-team@latex-project.org

`\cctab_end:`

`\cctab_end:`

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

1.3 Category code table conditionals

`\cctab_if_exist_p:N` ⋆
`\cctab_if_exist_p:c` ⋆
`\cctab_if_exist:N`*TF* ⋆
`\cctab_if_exist:c`*TF* ⋆

`\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 LATEX 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 iniTEX.

`\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).

Index

The italic numbers denote the pages where the corresponding entry is described, numbers underlined point to the definition, all others indicate the places where it is used.