The \texttt{l3cctab} package
Experimental category code tables

The \LaTeX3 Project\textsuperscript{*}
Released 2020-01-12

1 \texttt{l3cctab} documentation

A category code table enables rapid switching of all category codes in one operation. For \LaTeXe, 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

\begin{verbatim}
\cctab_new:N \cctab_new:Nn \cctab_new:c
\cctab_gset:Nn \cctab_gset:cn
\end{verbatim}

Creates a new \texttt{category code table} variable or raises an error if the name is already taken. The declaration is global. The \texttt{category code table} is initialised with the codes as used by ini\TeX.

\begin{verbatim}
\cctab_const:Nn \cctab_const:Nn \cctab_const:cn
\end{verbatim}

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

\begin{verbatim}
\cctab_gset:Nn \cctab_gset:Nn \cctab_gset:cn
\end{verbatim}

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

1.2 Using category code tables

\begin{verbatim}
\cctab_begin:N \cctab_begin:Nn \cctab_begin:c
\end{verbatim}

Switches the category codes in force to those stored in the \texttt{category code table}. The prevailing codes before the function is called are added to a stack, for use with \texttt{cctab-_end}. This function does not start a \TeX group.

\textsuperscript{*}E-mail: latex-team@latex-project.org
\cctab_end: \cctab_end:

Ends the scope of a \langle category code table \rangle started using \cctab_begin:N, returning 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:NTF \cctab_if_exist:CTF

\cctab_if_exist_p:N \cctab_if_exist:NTF \cctab_if_exist:N \cctab_if_exist:c

Tests whether the \langle category code table \rangle is currently defined. This does not check that the \langle category code table \rangle 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 init\TeX{}.

\c_other_cctab

Category code table where all characters have category code 13 (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.

| \textbf{C} | \c_code_cctab | \c_document_cctab | \c_initex_cctab | \c_other_cctab | \c_str_cctab | \ExplSyntaxOff | \ExplSyntaxOn |
| \cctab_begin:N | 1, 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| \cctab_const:Nn | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| \cctab_gset:Nn | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| \cctab_if_exist:NTF | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| \cctab_if_exist_p:N | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| \cctab_new:N | 1 | 2 | 2 | 2 | 2 | 2 | 2 |