The \texttt{topsection} package\footnote{This file has version number v1.0, last revised 2005/12/24.}

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\texttt{\textbackslash topsection} This package implements an unnumbered top-level section (chapter in books and reports or section in articles):

\begin{verbatim}
\topsection{⟨title⟩}
\end{verbatim}

Such a section is used when table of contents, index, or bibliography are prepared. So, the \texttt{\topsection} command can be used to make such definitions or redefinitions to be independent on class in use. The command definition is compatible with standard \texttt{article}, \texttt{book}, and \texttt{report} classes and also with the \texttt{ncc} class.

\texttt{\@iftopchapter} To distinguish what type of top section is used, the following conditional command is also specified:

\begin{verbatim}
\@iftopchapter{(chapter-clause)\{section-clause\}}
\end{verbatim}

The \texttt{(chapter-clause)} is executed if top section is the \texttt{chapter}. Otherwise, the \texttt{(section-clause)} is executed.

If the \texttt{nccsect} package is used together with this package, the top-section title is also written to the aux-file. To avoid this, use \texttt{\skipwritingtoaux} modifier just before the top section.

1 The Implementation

At first, we provide \texttt{\@mkboth} command to be sure that it is defined (in \texttt{ncc} class \texttt{\@mkboth} useless and so it does not defined here). If it does not exist yet, its default value will be equal to \LaTeX’s \texttt{\gobbletwo} command.

\begin{verbatim}
1 \texttt{\*package}
2 \texttt{\providecommand\@mkboth[2]{} \NCC@topsection \@iftopchapter}
\end{verbatim}

The \texttt{\NCC@topsection} macro contains a command to be used as a top section.

To select an appropriate command, we test the \texttt{chapter} command to be defined.

\begin{verbatim}
3 \texttt{\newcommand\@iftopchapter[2]{} \ifundefined{chapter}\%}
\end{verbatim}

\texttt{\@iftopchapter} macro is also specified here.
\topsection

Now we define the \topsection command. When the package is loaded, we specify the command to be a new one. Its real definition is done at the beginning of document when all packages are already loaded and an appropriate decision can be selected.

\newcommand*{\topsection}[1]{%
\AtBeginDocument{%
If the nccsect package is in use, we define the \topsection command using the basic form of the corresponding sectioning command. The \noheadingtag modifier turns off the top-section numbering. In the definition, we test the \@mkboth command to be equal to \@gobbletwo. This situation appears in two cases: when the page style other than headings is used or when the ncc class is loaded. In the last case, the appropriate page header is already specified in sectioning command with corresponding mark-command (\chaptermark or \sectionmark updates both headers by the same manner). So, in both these cases we need not use the \@mkboth. But in other cases we specify the header mark in standard way and use the \norunninghead modifier to skip updating headers inside the sectioning command.

\@ifpackageloaded{nccsect}{%
\newcommand*{\topsection}[1]{%
\ifx\@mkboth\@gobbletwo

\noheadingtag \NCC@topsection{#1}%
\else

\norunninghead
\noheadingtag \NCC@topsection{#1}%
\@mkboth{\MakeUppercase{#1}}{\MakeUppercase{#1}}%
}\fi
}
}
\@ifpackageloaded{nccsect}{%
\renewcommand*{\topsection}[1]{%
\NCC@topsection*{#1}%
\@mkboth{\MakeUppercase{#1}}{\MakeUppercase{#1}}%
}
}
\@ifpackageloaded{nccsect}{%
\renewcommand*{\topsection}[1]{%
\NCC@topsection*{#1}%
\@mkboth{\MakeUppercase{#1}}{\MakeUppercase{#1}}%
}
}
\AtBeginDocument{%

When the nccsect package does not loaded, the top-section definition uses just the same technique as in standard classes.

\@ifpackageloaded{nccsect}{%
\renewcommand*{\topsection}[1]{%
\NCC@topsection*{#1}%
\@mkboth{\MakeUppercase{#1}}{\MakeUppercase{#1}}%
}
}
\@ifpackageloaded{nccsect}{%
\renewcommand*{\topsection}[1]{%
\NCC@topsection*{#1}%
\@mkboth{\MakeUppercase{#1}}{\MakeUppercase{#1}}%
}
}
\@ifpackageloaded{nccsect}{%
\renewcommand*{\topsection}[1]{%
\NCC@topsection*{#1}%
\@mkboth{\MakeUppercase{#1}}{\MakeUppercase{#1}}%
}
}

}