The package \texttt{noindentafter}

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For certain environments—such as \texttt{itemize} or \texttt{theorem}—as well as specific commands, indentation of the following paragraph is not desired. It is of course possible to manually add \texttt{\noindent} to each occurrence, but it is very easy to forget this at one point or another. This package provides a few simple commands which can be used to patch existing macros and environments in order to get rid of manually using \texttt{\noindent} after these. Therefore, both packages \texttt{etoolbox} and \texttt{xpatch} are required.

\section*{Usage}

The package does not provide additional options and is used in the simplest way possible:

\begin{verbatim}
\usepackage{noindentafter}
\end{verbatim}

In order to ensure a consistent layout throughout the document, it is recommended—but not mandatory—to use the commands described below within the preamble after loading package \texttt{noindentafter}.

\begin{verbatim}
\NoIndentAfterEnv \NoIndentAfterEnv{\langle\texttt{environment}\rangle}
\end{verbatim}

This is probably the most frequently needed functionality. After using this command, any paragraph following such an \{\texttt{environment}\} will remain unindented. The example below shows the default output without the involvement of \texttt{noindentafter}.

\begin{verbatim}
\begin{itemize}
\item First Item
\item Second Item
\end{itemize}
\end{verbatim}

\begin{verbatim}
\begin{itemize}
\item First Item
\item Second Item
\end{itemize}
\end{verbatim}

Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque.


\begin{verbatim}
Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.
\end{verbatim}

\begin{verbatim}
Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.
\end{verbatim}

- First Item
- Second Item

Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque.

Once `\NoIndentAfterEnv` has been executed, the output differs by the *unintended* paragraph directly after the `itemize` environment:

\begin{itemize}
\item First Item
\item Second Item
\end{itemize}

Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque.

Note that using the `\NoIndentAfterEnv` command on an environment is not the same as adding `\NoIndentAfterThis` to the end of it:

\begin{mytestenv}
Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis.
\end{mytestenv}

Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque.

\begin{itemize}
\item First Item
\item Second Item
\end{itemize}

Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque.

By using `\NoIndentAfterCmd`, macros can be modified. There probably may not be many situations where this is useful, but perhaps this one:

\begin{verbatim}
\NoIndentAfterCmd{\begin{mytestenv}}\begin{mytestenv}
\end{mytestenv}\end{verbatim}

\begin{verbatim}
\NoIndentAfterCmd{\}}\end{verbatim}

Lorem ipsum dolor sit amet, consectetuer adipiscing elit:

\[ 1 + 1 = 2 \]

Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris:

\[ 2 + 2 = 4 \]

Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque.

\[ 1 + 1 = 2 \]

Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris:

\[ 2 + 2 = 4 \]

Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque.

\[ \NoIndentAfterEnv \] bypasses the group that surrounds environments

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Finally, this is the most primitive macro offered by the package. It forces a paragraph break and suppresses indentation for whatever follows:

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. \NoIndentAfterThis Nam arcu libero, nonumy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque.

Acknowledgements

This package resulted from http://tex.stackexchange.com/q/112404 and the excellent responses to it by CgNieder and Lockstep. Although it initially based on the proposed solution by CgNieder—as it was simpler and more generally applicable—the answer by Lockstep is definitely worth reading.

Implementation

The only required packages are etoolbox as well as xpatch.

\nia@scan This command implements the main principle behind this package. It checks whether it is followed by a paragraph. If so, the command \par is temporarily changed using \everypar, so that the following paragraph is not indented. Immediately afterwards, default paragraph behavior is restored with \@restorepar (from the LaTeX2ε kernel).

\nia@afterendenv This command is used for hooking into the ending routine of an environment at the latest possible point after \ignorespaces. It is heavily inspired by David Carlisle\footnote{https://tex.stackexchange.com/a/179034/38481} and uses a delimited argument in order to apply \nia@scan last.

It is invoked via hook \AfterEndEnvironment provided by etoolbox and leaves everything between its invocation and \ignorespaces\fi at the very end of \end unchanged—even additonal material given through the same hook—and finally executes \nia@scan.

\NoIndentAfterThis These are finally the user-level commands to activate the functionality of noindentafter for the given {environment}/{{macro}} as well as immediate execution.

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